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Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

18 Brodie Hall Drive Bentley, Western Australia 6102

Prepared by:

SLR Consulting Australia

Level 1, 500 Hay Street, Subiaco WA 6008, Australia

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Making Sustainability Happen

Revision Record

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Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Horizon Power (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

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Executive Summary

Horizon Power commissioned SLR Consulting Australia Pty Ltd to undertake a detailed flora and vegetation, targeted significant flora, basic terrestrial vertebrate fauna, and targeted significant fauna survey for the proposed Atlas Ridley Magnetite Project Connection. The Survey Area covers approximately 10,363 hectares and runs in an approximate east-west alignment from just south of South Hedland to approximately 50 km east of Port Hedland airport in the Pilbara bioregion of Western Australia.

The objective of the survey was to identify key flora, vegetation, and fauna values or other environmental features within the Survey Area as part of the environmental impact assessment process. This report presents the findings of the survey.

Flora and Vegetation

The flora desktop assessment conducted prior to the survey identified 33 conservation significant species occurring within 50 km of the Survey Area. A pre-survey likelihood of occurrence assessment determined 11 species as having a high likelihood of occurrence, none as having a medium likelihood of occurrence, and the remaining 22 species as having a low likelihood of occurrence.

The detailed flora and vegetation survey recorded the floristic composition and vegetation types from 26 quadrats, 28 relevés, 250 mapping notes, and opportunistic observations. A total of 172 taxa were recorded from 94 genera across 40 families.

No Threatened flora taxa were recorded within the Survey Area. Two Priority flora taxa, both of which had a high pre-survey likelihood of occurrence, were recorded within the Survey Area. *Tephrosia rosea* subsp. Port Hedland (A.S. George 1114) (P1) was recorded at one location within a roadside drain, and *Gymnanthera cunninghamii* (P3) was recorded in two locations within a major drainage.

Nineteen specimens could not be identified to species level due to the generally sterile and dry conditions at the time of survey. Eight introduced (weed) taxa were recorded during the survey, of which one is a Declared Pest (**Calotropis procera*). Weed abundance was considered standard for the region, with common Pilbara weeds such as **Cenchrus ciliaris*, **Vachellia farnesiana*, **Malvastrum americanum* and **Aerva javanica* regularly observed.

Fourteen vegetation types were described and mapped across five broad landforms (ironstone hilltops and ridges, outcroppings, plains, low lying floodplains/flats/minor drainages and major drainages), none of which were considered analogous to Threatened or Priority Ecological Communities. Vegetation condition within the Survey Area ranged from Degraded to Very Good with the majority considered to be in Very Good condition. Disturbances were widespread in the form of pastoralism/cattle, weeds, litter and historical clearing for infrastructure.

Vertebrate Fauna

The basic and targeted terrestrial vertebrate fauna survey recorded fauna using a variety of detection methods including opportunistic observations, ground searching, and deploying Autonomous Recording Units (ARUs). Fauna habitat mapping was based on a combination of field observations, vegetation mapping, fauna habitat assessment data, and aerial imagery. Nine fauna habitats were mapped within the Survey Area, of which the Low *Acacia stellaticeps* over Triodia, Mixed Acacia Shrubs and Triodia Plains, Outcrops and Breakaways, and Stony Hills habitats represent the most value to fauna assemblages overall.

A total of 63 fauna taxa from 34 families were recorded, comprising 33 birds, 14 mammals, and 16 reptiles. Two significant taxa were recorded during the fauna survey, Western Pebble-mound Mouse (*Pseudomys chapmani*) – P4 (DBCA, and Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*) (Pilbara form) – VU (BC Act & EPBC Act).

A further seven significant fauna taxa have been recorded within the Survey Area during previous surveys, and nine significant fauna taxa were assessed as having a high likelihood, 24 significant fauna taxa were assessed as having a medium likelihood, and 33 significant fauna taxa were assessed as having have a low likelihood of occurring within the Survey Area.

Three introduced taxa were recorded during the survey, European Cattle (**Bos primigenius taurus*), Cat (**Felis catus*), and Domestic Pigeon/Rock Dove (**Columba livia*).

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Acronyms and Abbreviations

°C	Degree Celsius
ALA	Atlas of Living Australia
BAM Act	Biosecurity and Agriculture Management Act 2007
BC Act	Biodiversity Conservation Act 2016
ВоМ	Bureau of Meteorology
CISS	Centre for Invasive Species Solutions
CR	Critically Endangered
DAWE	Department of Agriculture Water and Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DCCEEW	Department of Climate Change, Energy, the Environment and Water
Desktop Study Area	The area that was studied during the desktop assessment encompassing the Survey Area and surrounds
DMIRS	Department of Mines, Industry Regulation and Safety
DoE	Department of the Environment
DP	Declared Pest
DPIRD	Department of Primary Industries and Regional Development
DPLH	Department of Planning, Lands and Heritage
DSEWPaC Department of Sustainability, Environment, Water, Population and Communities	
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EN	Endangered
EP Act	Environmental Protection Act 1986
EPA	Environmental Protection Authority
EPBC Act	Environment Protection Biodiversity and Conservation Act 1999
ESA	Environmentally Sensitive Area
GIS	Geographic Information System
GPS	Global Positioning System
GDE	Groundwater Dependent Ecosystem
ha	Hectare
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
ILUA	Indigenous land Use Agreement
km	Kilometres
Lat	Latitude
Long	Longitude
m	Metres

mm	Millimetres
mths	Months
MNES	Matters of National Environmental Significance
NVCP	Native Vegetation Clearing Permit
NVIS	National Vegetation Information System
Р	Priority
PEC	Priority Ecological Community
PMST	Protected Matters Search Tool
SLR	SLR Consulting Australia
Survey Area	The area that was surveyed
Т	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
TPFRF	Threatened and Priority Flora Report Form
VU	Vulnerable
WA	Western Australia
WAH	Western Australian Herbarium
WAM	Western Australian Museum
WoNS	Weeds of National Significance

1.0 Introduction

1.1 The Project

Horizon Power commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake a detailed flora and vegetation, targeted flora, basic terrestrial vertebrate fauna, and targeted significant fauna survey for the proposed Atlas Ridley Magnetite Project Connection. The survey was undertaken within the Pilbara bioregion of Western Australia, covering 10,363 hectares from South Hedland in the west to Pardoo Iron Ore Mine in the east (the Survey Area) (**Map 1**). All maps are provided in Appendix A.

1.2 Objectives and Scope

The specific objectives of the biological assessments were to:

- Carry out an initial desktop assessment to determine environmental values and significant flora, vegetation, fauna or other environmental features (such as riparian areas, wetlands) relating to the project area.
- Carry out an (in season) detailed flora and vegetation survey, basic fauna and targeted fauna survey focusing on suitable habitat likely to support conservation significant fauna.
- Prepare a technical combined flora and fauna survey report.
- Provide all spatial/mapping data collected during the survey in IBSA format.

2.0 Background

2.1 Statutory and Regulatory Framework

Western Australian flora, vegetation, and fauna is governed by the following legislative measures:

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

In addition to these legislative measures, the following non-legislative lists are considered on a case-by-case basis:

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

The EIA process is supported by guidance documents published by the Environmental Protection Authority (EPA), DBCA and the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

Western Australia

- Environmental Factor Guideline Flora and Vegetation (EPA, 2016a).
- Environmental Factor Guideline Terrestrial Fauna (EPA, 2016b).
- Guidelines for surveys to detect the presence of bilbies and assess the importance of habitat in Western Australia (DBCA, 2017).
- Interim Guideline for Preliminary Surveys of Night Parrot (<u>Pezoporus occidentalis</u>) in Western Australia (DPAW, 2017).
- Technical Guidance Flora and vegetation surveys for environmental impact assessment (EPA, 2016c).
- Technical Guidance Terrestrial vertebrate fauna surveys for environmental impact assessment (Environmental Protection Authority, 2020).

Commonwealth

- EPBC Act Referral guideline for the endangered northern quoll <u>Dasyurus hallucatus</u> (DoE, 2016).
- *Matters of National Environmental Significance Significant Impact Guidelines 1.1* (DoE, 2013).
- Survey guidelines for Australia's threatened bats (DEWHA, 2010a).
- Survey guidelines for Australia's threatened birds (DEWHA, 2010b).

- Survey guidelines for Australia's threatened frogs (DEWHA, 2010c).
- Survey guidelines for Australia's threatened mammals (DSEWPaC, 2011a).
- Survey guidelines for Australia's threatened reptiles (DSEWPaC, 2011b).

2.2 Existing Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology weather station with a complete dataset is the Port Hedland Airport Weather Station (Station 004032), located approximately 89 km west of the Survey Area.

The long-term mean minimum temperature for Port Hedland Airport ranges from $12.5^{\circ}C$ (July) to $25.7^{\circ}C$ (January) (1948 to 2024) and the long-term mean maximum temperature ranges from $27.4^{\circ}C$ (July) to $36.8^{\circ}C$ (December and March) (1948 to 2022) (**Figure 1**) (Bureau of Meteorology, 2024).

The Port Hedland Airport weather station recorded 100.6 mm of rainfall in the 12 months prior to the survey (March 2023 to February 2024), which is 217.9 mm below the long-term average of 318.5 mm (Bureau of Meteorology, 2024). In the three months prior to the survey (December 2023 to February 2024), just 24 mm of rainfall was recorded, which is 146.6 mm below the long-term average of 170.6 mm for the same time period (Bureau of Meteorology, 2024).



Figure 1: Climate graph of the Port Hedland Airport Weather Station

2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (DCCEEW, 2023). The Survey Area occurs within two subregions of the Pilbara bioregion: the Roebourne (PIL04) and the Chichester (PIL01) subregions (**Map 2**).

The Roebourne (PIL04) subregion is represented by quaternary alluvial and older colluvial coastal and sub-coastal plains with a grass savannah of mixed bunch and hummock grasses, and dwarf shrub steppe of *Acacia stellaticeps* or *A. pyrifolia* and *A. inaequilatera* (Kendrick & Stanley, 2001). Uplands are dominated by *Triodia* hummock grasslands. Ephemeral drainage lines support *Eucalyptus victrix* or *Corymbia hamersleyana* woodlands (Kendrick & Stanley, 2001).

The Chichester (PIL01) subregion comprises the northern section of the Pilbara Craton and is characterised by undulating Archaean granite and basalt plains include significant areas of basaltic ranges. The subregion is represented by plains supporting a shrub steppe characterised by *Acacia inaequilatera* over *Triodia wiseana* hummock grasslands, and ranges supporting *Eucalyptus leucophloia* tree steppes. The climate is Semi-desert-tropical and receives 300 mm of rainfall annually, with drainage occurring to the north via numerous rivers (e.g. De Grey, Oakover, Nullagine, Shaw, Yule, Sherlock) (Kendrick & McKenzie, 2001).

2.2.3 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of Western Australia describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (DPIRD, 2018). The Survey Area occurs within eight land systems (**Table 1, Map 3**).

Land System		Description	
Name	Code	(DPIRD, 2018)	
Mallina System	281Ma	Sandy surfaced alluvial plains supporting soft spinifex grasslands and minor hard spinifex and tussock grasslands.	
Uaroo System	281Ua	Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs.	
River System	281Ri	Narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of acacias and fringing communities of eucalypts sometimes with tussock grasses or spinifex.	
Boolaloo System	281Bo	Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs.	
Macroy System 281Mc		Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands.	
Capricorn System 281Cp		Rugged sandstone hills, ridges, stony footslopes and interfluves supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs.	
Paradise System	281Pd Alluvial plains supporting soft spinifex grasslands and tussock grasslands.		
Boolgeeda System	280Bg	Stony lower slopes and plains below hill systems supporting ha and soft spinifex grasslands or mulga shrublands.	

Table 1:	Land Systems w	vithin the S	Survey Area
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2.2.4 Hydrography

Hydrographic features intersecting, and in the vicinity of, the Survey Area are shown in **Map 4** (DWER, 2018). Three major river systems (Turner River, King Edward and Devil Creek) with associated drainage channels intersect the Survey Area, flowing in a northerly direction before discharging into the Indian Ocean east of Port Hedland.

2.2.5 Broad Vegetation Types

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

Four broad vegetation system associations are mapped over the Survey Area (**Map 5**). Representation of the system associations at a local, regional, and state level is shown in **Table 2**.

- Abydos Plain (Abydos Plain 589): Short bunch-grass savanna / Grass-steppe
- Abydos Plain (Abydos Plain 93): Hummock grasslands, shrub steppe; kanji over soft spinifex
- Abydos Plain (Abydos Plain 619): Wheatbelt; York gum, salmon gum etc. *Eucalyptus loxophleba*, *E. salmonophloia*. Goldfields; gimlet, redwood etc. *E. salubris*, *E. oleosa*. Riverine; rivergum *E. camaldulensis*.
- Abydos Plain (Abydos Plain 647): Shrub-steppe hummock grassland with scattered shrubs or mallee *Triodia* spp. *Acacia* spp., *Grevillea* spp. *Eucalyptus* spp.

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

Vegetation	Extent			
Association	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)
	Representat	tion across Weste	rn Australia	
Abydos Plain 589	807,698.58	802,713.40	99.38	1.91
Abydos Plain 619	119,373.78	118,205.01	99.02	0.2
Abydos Plain 647	195,860.89	191,711.41	97.88	0
Abydos Plain 93	3,044,309.52	3,040,640.98	99.88	1.96
	Representatio	on across the Pilb	ara Bioregion	
Abydos Plain 589	728,768.20	724,695.82	99.44	2.11
Abydos Plain 619	118,920.31	118,116.78	99.32	0.2
Abydos Plain 647	195,859.95	191,710.92	97.88	0
Abydos Plain 93	3,042,114.27	3,038,471.67	99.88	1.96
	Representation	across the Roebo	ourne Subregion	
Abydos Plain 589	675,391.80	671,327.48	99.40	2.14
Abydos Plain 619	33,377.16	32,595.83	97.66	n/a
Abydos Plain 647	188,901.32	184,774.70	97.82	n/a
Abydos Plain 93	46,360.53	46,334.43	99.94	n/a
Representation across the Chichester Subregion				
Abydos Plain 589	53,376.40	53,368.34	99.98	1.78
Abydos Plain 619	85,543.15	85,520.95	99.97	0.28
Abydos Plain 647	6,958.63	6,936.22	99.68	n/a

Vegetation	Extent				
Association	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)	
Abydos Plain 93	2,940,348.04	2,936,731.54	99.88	2.03	
	Representation across the Town of Port Hedland				
Abydos Plain 589	338,269.05	335,921.21	99.31	0	
Abydos Plain 619	63,650.59	62,598.14	98.35	0	
Abydos Plain 647	180,908.49	176,759.02	97.71	n/a	
Abydos Plain 93	1,015,339.22	1,014,599.99	99.93	n/a	

*as a portion of the current extent

2.2.6 Environmentally Sensitive and Conservation Areas

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

The Survey Area is not identified within a conservation area (**Map 6**). The closest mapped ESAs to the Survey Area is the De Grey River located approximately 9.5 kms to the east of the north-eastern end of the Survey Area and the Leslie Saltfields System located approximately 8 kms to the north at its closest point (**Map 6**) (DWER, 2023).

2.2.7 Land Use

Pastoral stations and mining tenements cover almost the entirety of the Survey Area, excluding the far western end. Pippingarra pastoral station occupies majority of the western half of the Survey Area, Strelley pastoral station occupies most of the eastern half, while the far eastern end is occupied by De Grey station (DMIRS, 2024; DPLH, 2023).

3.0 Methods

The surveys documented in this report were undertaken in accordance with relevant EPA and DAWE guidelines (see **Section 2.1**).

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Survey Area and surrounds (the Desktop Study Area) was compiled prior to the field survey. The literature review considered a selection of relevant reports detailing assessments undertaken in the region that were either publicly available from sources such as the Index of Biodiversity Surveys for Assessments (IBSA) website, the EPA Consultation Hub, or internet searches, or provided by the client. These reports are listed below and summarised in **Appendix B**.

- De Grey South Borefield Biological Surveys (SLR Consulting, 2023), 10 km east of the Survey Area.
- Detailed Flora and Vegetation Assessment, Ridley Magnetite Project (Focused Vision, 2023), encompassing current Survey Area.
- Flora and Vegetation Assessment, Port Hedland Regional, directly west of the survey area (ENV Australia Pty Ltd, 2011)

- Flora and Vegetation Assessment, Corunna Downs Intersection Works (Woodman Environmental, 2017), approximately 90 km southeast of the survey area.
- Corunna Downs Project, Level 2 Flora, and Vegetation Assessment (Woodman Environmental, 2016), approximately 90 km southeast of the survey area.
- Wodgina Gas Pipeline, Detailed Flora, and Vegetation Survey (360 Environmental Pty Ltd, 2018a), approximately 30 km southeast of the survey area.
- Roy Hill Port Facility Power Line Port Hedland, Ecological Assessment (GHD, 2016), approximately 15 km north of the survey area.
- Flora and Fauna survey Port Hedland International Airport Highway Precinct 2 (Emerge Associates, 2019), approximately 10 km north of the survey area.
- Flora and Vegetation Reconnaissance Survey of Spoilbank Marina Project Area(Strategen JBS&G, 2020), approximately 15 km north of the survey area.
- Ridley Detailed Terrestrial Vertebrate Fauna Survey (Biota, 2024), overlapping with the eastern section of the survey area.
- Ridley Services Corridors Basic and Targeted Fauna Survey (Biota, 2023), overlapping the survey area.
- Detailed terrestrial fauna and targeted Bilby survey for the Port Hedland Solar Farm Project (Phoenix Environmental, 2022), overlapping the western section of the survey area.
- Wodgina Gas Pipeline targeted Fauna Survey (360 Environmental Pty Ltd, 2018b), 20 km southwest of the Survey Area.
- Wodgina Project: Level 1 Fauna Survey, Targeted Conservation Significant Fauna Survey and Desktop Assessment (Stantec Australia Pty Ltd, 2018), 80 km south of the Survey Area.
- Pardoo Stage 3 Irrigation Project and 80 Mile Beach Ramsar Site Fauna Assessment (Bamford Consulting Ecologists, 2017b), 100 km east of the Survey Area.
- Assessment of the Bilby *Macrotis lagotis* Pardoo Station; Stage 2 areas (Bamford Consulting Ecologists, 2017a), 100 km east of the Survey Area.
- Assessment of the Bilby *Macrotis lagotis* Pardoo Station; Stage 2 and 3 project areas (Bamford Consulting Ecologists, 2016), 100 km east of the Survey Area.
- Supplementary Flora and Vegetation Survey and Terrestrial Fauna Survey for the Balla Balla Infrastructure Group Ltd (Phoenix Environmental, 2018), 100 km west of the Survey Area.
- Terrestrial Fauna Surveys for the Balla Balla Railway Project (Phoenix Environmental, 2014), 100 km west of the Survey Area.

3.1.2 Database Searches

Database searches were undertaken to compile a list of flora and fauna known to occur in the Desktop Study Area and identify significant flora, fauna, and ecological communities with potential to occur within the Survey Area (Table 3).

Table 3: Database Search details

Database name	Date received	Search target	Buffer around the Survey Area
Threatened and Priority Ecological Communities database search (DBCA, 2024c)	26 February 2024	TECs and PECs	50 km
Threatened and Priority Flora (TPFL) database search (DBCA, 2024e)	15 January 2024	Threatened and Priority flora	50 km
Western Australian Herbarium Flora database search (DBCA, 2024f)	15 January 2024	Threatened and Priority flora	50 km
Threatened and Priority Fauna database search (DBCA, 2024d)	15 January 2024	Threatened and Priority fauna	50 km
Protected Matters Search Tool (PMST) (DCCEEW, 2024a)	16 January 2024	Threatened flora, fauna, and ecological communities	50 km
NatureMap (DBCA, 2024b)	22 January 2024	Flora and fauna	50 km

3.1.3 Likelihood of Occurrence

Significant flora and fauna taxa identified during the desktop assessment were assessed to determine the likelihood of their occurrence within the Survey Area before and after the field survey. The assessment used the likelihood of occurrence criteria presented in Table 4.

Taxa listed as Marine only under the EPBC Act were not considered to be significant taxa because the Marine listing does not constitute MNES under the EPBC Act. Additionally, erroneous records (i.e. records that occur well outside a taxon's known distribution) were excluded from consideration. Only taxa that have been recorded within the Survey Area or were assessed as having a high or medium likelihood of occurrence are discussed in detail.

Rank	Criteria
Recorded	The taxon was recorded within the Survey Area during the current survey.
Previously Recorded	The taxon has been previously recorded within the Survey Area according to database search or literature review results.
High (Likely to occur)	There are existing records of the taxon near the Survey Area (within 20 km), suitable habitat is present within the Survey Area, and, for fauna, the taxon has been recorded within the Desktop Study Area in the last 15 years.
Medium (May occur)	There are existing records of the taxon within the Desktop Study Area, however, the taxon does meet the criteria for high likelihood, or suitable habitat within the Survey Area is marginal or limited in extent, or, for fauna, the taxon has not been recorded within the Desktop Study Area in the last 15 years.
Low (Unlikely to occur)	Suitable habitat is not present within the Survey Area, or the taxon is very infrequently recorded in the locality despite reasonable previous search effort, or the taxon is believed to be extinct or locally extinct.

3.2 Field Survey

3.2.1 Survey Timing

The biological assessments were undertaken during one trip from 1st to 10th March 2024 **Table 5**.

Table 5: S	Survey	Timing	and	Personne
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	Trip	Scope	Date	Personnel	Person Field Days
1.	Flora and Fauna	 Establishment of flora sites Preliminary vegetation and condition mapping Inventory of vascular flora Targeted flora searches during traverses between flora sites Targeted fauna survey Basic fauna survey 	01/03/2024- 10/03/2024	Lukas Geidans Grant Buller Jack Hardie Lewis Berry	40

3.2.2 Field Personnel and Licences

The flora and vegetation surveys were undertaken by Senior Botanist Grant Buller and Botanist Jack Hardie under flora licences FB62000321-2 and FB62000389-02, respectively. The flora field team has a combined 5.5 years' experience conducting surveys of similar scope in the Pilbara region of Western Australia.

The basic terrestrial vertebrate fauna survey was undertaken by Associate Ecologist Lukas Geidans, who has 4.5 years' experience, and Zoologist Lewis Berry who has 2 years' experience, conducting surveys of similar scope in the Pilbara. The fauna fieldwork was completed under Fauna Taking (Biological Assessment) License – Regulation 27 (BA27000816) and an authorisation to take or disturb threatened species under Section 40 of the BC Act (TFA 2223-0222). Animal ethics approval was obtained under scientific use licence number U336 / 2023 - 2025 and permit number WAEC 24-02-11.

During the survey, SLR personnel were accompanied by Traditional Owners from the Kariyarra group to the west of the King Edward River, and to the east by traditional owners from the Wanparta group.

3.2.3 Weather Conditions

Weather conditions during the fauna survey are presented in Table 6. Daily temperature and rainfall data is from the Port Hedland Weather Station (Station 004032) (BoM, 2024). Weather conditions can impact potential detection of fauna taxa during a survey.

Table 6: Field survey weather conditions

Data	Tempera	ature (°C)	Poinfoll (mm)
Dale	Min	Max	Kalifiali (IIIII)
01/03/2024	28.7	35.0	0
02/03/2024	27.8	33.7	1.8
03/03/2024	26.4	34.4	0
04/03/2024	26.5	34.1	0

Data	Temperature (°C)		Poinfall (mm)	
Dale	Min	Мах	Kailliali (IIIII)	
05/03/2024	25.2	34	8.4	
06/03/2024	28.3	34.7	0	
07/03/2024	27.1	35.5	0	
08/03/2024	27.4	36.2	8	
09/03/2024	27.9	35.2	0	
10/03/204	28	34.5	0	

3.3 Flora and Vegetation

3.3.1 Field Survey

The detailed flora and vegetation survey was undertaken from 1 - 10 March 2024. A handheld Fulcrum mobile data collection device was used to record data, and mapping notes, opportunistic flora collections and photographs were also taken where required. The survey effort showing flora site locations and GPS track logs is shown in **Map 7**.

Vegetation types were described based on their structure and species composition, and condition was assessed according to the Eremaean and Northern Botanical Provinces vegetation condition scale (EPA, 2016c). Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:2,000. Broad vegetation units were refined based on taxonomic identification of flora collections, and mapping notes taken during the field survey. Vegetation condition mapping was refined based on site data and mapping notes. Finalised polygons were digitised and produced as electronic mapping data using GIS software.

3.3.2 Establishment of Flora Sites

Indicative site selection was undertaken prior to the survey based on aerial photography and available literature. The number and locations of flora sites were then adjusted on site to achieve sites most representative of the vegetation present. Where possible, at least three flora sites were established in each vegetation type within the Survey Area. In instances where vegetation types were not large enough to accommodate three flora sites, one or two sites were established.

Flora sites consisted of either quadrats or relevés. Quadrats were 50 x 50 m with corners aligned to northwest, northeast, southeast and southwest, and were measured out using measuring tapes. Fence droppers are generally used as standard practice for marking northwest corners, however these were not used to avoid ground disturbance in accordance with traditional owner requirements. Relevés comprised unbounded sites of approximately 50 x 50 m where possible, or alternate configurations approximating 2500 m² (as required in linear areas such as drainage lines, gullies, and narrow ridge lines). A comprehensive list of the flora present at the time of sampling was recorded for both quadrat and relevé sites.

Flora site locations were recorded using a GPS-enabled handheld device, with points recorded at each corner of a quadrat, the start and finish point of linear relevés, and the central point of circular relevés. The following information was recorded at each flora site:

- Site code.
- Date and personnel.
- Landform and soil description.

- Relevant site descriptors including, slope, aspect, litter cover, bare ground cover, and fire history.
- Inventory of vascular flora including the approximate average height and percentage foliar cover for each taxon.
- Vegetation description in accordance with the National Vegetation Information System (NVIS) Level 5 'association' whereby the dominant growth form, height, cover, and species (three species) for the three traditional strata (upper, mid, and ground) are described.
- Vegetation condition in accordance with the Eremaean and Northern Botanical Provinces vegetation condition scale (EPA, 2016c).
- Evidence of disturbance (for example clearing, rubbish, feral animals, weed incursion, and evidence of feral animals and dieback) where present.
- Photograph of the vegetation occurring within the site.

A total of 54 flora sites comprising 26 quadrats and 28 relevés were established within the Survey Area. An additional approximately 250 mapping notes were completed to aid vegetation mapping. Flora site locations are shown in **Map 7**.

3.3.3 Opportunistic Flora

Flora taxa observed outside flora sites were recorded opportunistically. When significant flora, Declared Pests (DPs), or WoNS were encountered opportunistically, a GPS location and count of the individuals present was recorded.

3.3.4 Targeted Searching

Prior to the survey a list of significant flora taxa with the potential to occur within the Survey Area was compiled (see Section 3.1.3). Field personnel familiarised themselves with photographs, reference samples, and descriptions of these taxa before conducting the survey.

Targeted searching was undertaken within habitat suitable for Threatened and Priority flora as per standard practice in the Pilbara. The entire Survey Area was not systematically searched. Potential habitat within the proposed footprint was prioritised over areas outside the proposed footprint.

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

3.3.5 Vegetation Type and Condition Mapping

Vegetation type and condition mapping was initially conducted in the field with boundaries delineated over aerial photography at a scale of 1:5,000. Vegetation types were refined based on taxonomic identification of flora collections and mapping notes taken during the field survey. Further validation of vegetation types was undertaken using multivariate analysis of data collected from the quadrats and relevés. Vegetation condition mapping was refined based on site data and mapping notes. Polygons were digitised using GIS software.

3.3.6 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected for identification using resources of the WAH. Identification of flora collections was completed by SLR Principal Botanist Simon Colwill and WAH taxonomist Mike Hislop.

The finalised species list was checked against FloraBase (Department of Biodiversity Conservation and Attractions, 2023) to determine the conservation status and known distribution of each taxon. Introduced species were compared against the current BAM Act Declared Plants list the WoNS list to determine their control status (DAWE, 2023; DPIRD, 2023). FloraBase (DBCA, 2024a) was used to determine the conservation status and known distribution of each taxon. The control status of introduced flora was sourced from the WoNS list and declared plants list (CISS, 2024; DPIRD, 2024).

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

3.3.7 Statistical Analyses

3.3.7.1 Vegetation Type Validation

Multivariate analysis to validate vegetation types was undertaken using PRIMER version 7. A comparison of the similarity of floristic composition between flora sites based on species presence or absence was undertaken using the Bray-Curtis similarity index. Vegetation types were defined based on approximately 40-80% similarity and distinguished visually in a dendrogram cluster analysis. The analysis was undertaken on a data matrix comprising 80 vascular flora taxa and 54 flora sites. Quadrats and relevés were included in the analysis as comprehensive species presence or absence was recorded at both site types. Singletons (flora taxa recorded at only one site) were excluded from the analysis as they can result in bias due to the Bray-Curtis coefficient and grouping properties. Unidentified or partially identified flora taxa were removed based on their ambiguity; exceptions were made for taxa that could not be identified but were confirmed to be the same across multiple sites. Introduced taxa (with the exception of dominant species, primarily Buffel Grass, *Cenchrus ciliaris) were also excluded as their presence is typically associated with a disturbance rather than representative of a vegetation type.

3.3.7.2 Species Accumulation Curve

A species accumulation curve was plotted using Primer v7 to determine the adequacy of the survey. The treatments comprised Sobs (Mao Tao), which effectively smooths the curve of observed species by simulating an infinite number of randomisations of the sample order, and richness estimators Chao 1, Chao 2, Jacknife 1, Bootstrap, and Michaelis-Menton to predict the theoretical maximum number of species that could potentially be recorded. The species accumulation curve was calculated using systematic sampling data from flora sites and does not include opportunistic flora records. All identified flora taxa, including annual and perennial, within each flora site was used to generate the species accumulation curve. Unknown flora taxa that could not be identified to a species level was excluded.

3.4 Fauna

3.4.1 Habitat Assessment and Mapping

Habitat assessments were undertaken in representative areas of fauna habitat within the Survey Area to record habitat values. Where possible, at least one habitat assessment was recorded within each habitat type. Habitat assessment locations are shown in **Map 7.**



The following information was collected at each habitat assessment locations using a GPSenabled handheld device:

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

Fauna habitat mapping was based on a combination of field observations, habitat assessment data, aerial imagery, and, if available, vegetation type mapping. Polygons were digitised using GIS software.

3.4.2 Camera Traps

A total of 49 motion sensitive camera traps were set up during the targeted survey. Site selection was based on suitable habitat features targeting the Northern Quoll. Cameras were baited with universal bait (rolled oats and peanut butter and sardines). **Table 7** shows the total camera trap survey effort, and camera trap locations are shown in **Map 7**.

Fauna Habitat	Camera ID number	Total camera trap nights
Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-52	4
Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-53	4
Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-55	4
Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-59	4
Major Drainage	675.072189-CAM-31	4
Major Drainage	675.072189-CAM-39	5
Major Drainage	675.072189-CAM-49	4
Major Drainage	675.072189-CAM-51	5
Major Drainage	675.072189-CAM-54	5
Major Drainage	675.072189-CAM-36	4
Major Drainage	675.072189-CAM-57	4
Major Drainage	675.072189-CAM-58	4
Major Drainage	675.072189-CAM-64	4
Mixed Acacia Shrubs and Triodia Plains	675.072189-CAM-22	4
Mixed Acacia Shrubs and Triodia Plains	675.072189-CAM-44	5

Table 7: Camera trap survey effort

Fauna Habitat	Camera ID number	Total camera trap nights
Mixed Acacia Shrubs and Triodia Plains	675.072189-CAM-56	4
Open Eucalypt Woodland	675.072189-CAM-37	4
Open Eucalypt Woodland	675.072189-CAM-41	4
Open Eucalypt Woodland	675.072189-CAM-65	4
Outcrops and Breakaways	675.072189-CAM-19	4
Outcrops and Breakaways	675.072189-CAM-20	4
Outcrops and Breakaways	675.072189-CAM-21	4
Outcrops and Breakaways	675.072189-CAM-23	4
Outcrops and Breakaways	675.072189-CAM-24	4
Outcrops and Breakaways	675.072189-CAM-25	4
Outcrops and Breakaways	675.072189-CAM-26	4
Outcrops and Breakaways	675.072189-CAM-27	4
Outcrops and Breakaways	675.072189-CAM-28	4
Outcrops and Breakaways	675.072189-CAM-29	4
Outcrops and Breakaways	675.072189-CAM-32	4
Outcrops and Breakaways	675.072189-CAM-33	4
Outcrops and Breakaways	675.072189-CAM-34	4
Outcrops and Breakaways	675.072189-CAM-35	4
Outcrops and Breakaways	675.072189-CAM-38	4
Outcrops and Breakaways	675.072189-CAM-40	4
Outcrops and Breakaways	675.072189-CAM-42	4
Outcrops and Breakaways	675.072189-CAM-43	4
Outcrops and Breakaways	675.072189-CAM-45	5
Outcrops and Breakaways	675.072189-CAM-46	4
Outcrops and Breakaways	675.072189-CAM-47	4
Outcrops and Breakaways	675.072189-CAM-48	4
Outcrops and Breakaways	675.072189-CAM-50	4
Outcrops and Breakaways	675.072189-CAM-60	4
Outcrops and Breakaways	675.072189-CAM-61	4
Outcrops and Breakaways	675.072189-CAM-62	4
Outcrops and Breakaways	675.072189-CAM-63	4
Outcrops and Breakaways	675.072189-CAM-66	4
Outcrops and Breakaways	675.072189-CAM-67	4
Stony Hills	675.072189-CAM-30	4
Total		201

3.4.3 Acoustic Surveys

Autonomous recording units (ARUs) were used to passively record animal calls during the field survey.

3.4.3.1 Bats

Song Meter SM4BAT ultrasonic ARUs were used to target bats with a particular focus on the Pilbara Leaf-nosed Bat and Ghost Bat. SM4BAT ARUs were deployed in habitats likely to be used by significant bat species, such as water sources or rocky areas, for a minimum of four nights at each location. The number and time of significant bat species calls was documented, whereas non-significant bat species were simply recorded as present or absent per night at each location. **Table 8** shows the total SM4BAT ARU survey effort, and locations are shown in **Map 7**.

Table 8: SM4BAT ARU survey effort

Habitat	Site number	Trap nights
Outcrops and Breakaways	675.072189-BAT-1	9
Outcrops and Breakaways	675.072189-BAT-2	6
Low Acacia stellaticeps over Triodia Plains	675.072189-BAT-3	5
Outcrops and Breakaways	675.072189-BAT-4	4
Major Drainage	675.072189-BAT-5	6
	Total	30

3.4.3.2 Night Parrot

Song Meter SM4 ARUs were used to target Night Parrot (*Pezoporus occidentalis*). SM4 ARUs were deployed in habitats likely to be used by Night Parrot, such as water sources or long unburnt spinifex, for a minimum of six nights at each location. **Table 9** shows the total SM4 ARU survey effort, and locations are shown in **Map 7**.

Table 9: SM4 ARU survey effort

Habitat	Site number	Trap nights
Mixed Acacia Shrubs and Triodia Plains	675.072189-BIR-14	6
Open Eucalypt Woodland	675.072189-BIR-15	4
Major Drainage	675.072189-BIR-16	6
Open Eucalypt Woodland	675.072189-BIR-17	6
Low Acacia stellaticeps over Triodia Plains	675.072189-BIR-18	6
	Total	28

3.4.4 Opportunistic Observations

Opportunistic observations of fauna were recorded throughout the Survey Area, including primary evidence (direct sightings, calls) and secondary evidence (tracks, scats, diggings, remains).

3.4.5 Bilby Searches

Targeted Bilby searches were undertaken throughout the Survey Area in areas of suitable Bilby habitat and consisted of personnel conducting transect searches searching for evidence of Bilby activity, such as burrows, diggings, scats, and tracks. A total of 44 targeted Bilby searches were undertaken. **Table 10** shows the total survey effort for Bilby searches, and locations are shown in **Map 7**.

Table	10·	Targeted	Bilby	search	offort
lable	10.	Taryeteu	БШЛЯ	Search	enon

Search Number	Habitat	Habitat Site Sheet	Search length (Kms)	
Bilby Search 1	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-59	0.26	
Bilby Search 2	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-52. 675.072189-BIR-18	0.72	
Bilby Search 3	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-55	0.59	
Bilby Search 4	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-CAM-53	2.09	
Bilby Search 5	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-HAB-71	0.69	
Bilby Search 6	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-HAB-71	3.87	
Bilby Search 7	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-HAB-70	0.77	
Bilby Search 8	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-HAB-77	1.71	
Bilby Search 9	Low <i>Acacia stellaticeps</i> over Triodia Plains	675.072189-HAB-76	2.03	
Bilby Search 10	Open Eucalypt Woodland	675.072189-BIL-6	1.84	
Bilby Search 11	Open Eucalypt Woodland	675.072189-HAB-74	2.39	
Bilby Search 12	Mixed Acacia Shrubs and Triodia Plains	675.072189-CAM-56	1.04	
Bilby Search 13	Open Eucalypt Woodland	675.072189-HAB-93	2.52	
Bilby Search 14	Minor Drainage	675.072189-CAM-57	0.23	
Bilby Search 15	Minor Drainage	675.072189-CAM-58	0.59	
Bilby Search 16	Major Drainage	675.072189-CAM-54	2.52	
Bilby Search 17	Mixed Acacia Shrubs and Triodia Plains	675.072189-BIL-13, 675.072189-CAM-64, 675.072189-HAB-90	1.46	
Bilby Search 18	Mixed Acacia Shrubs and Triodia Plains	675.072189-BIL-13	4.08	

Search Number	Habitat	Habitat Site Sheet	Search length (Kms)
Bilby Search 19	Mixed Acacia Shrubs and Triodia Plains	675.072189-HAB-92	1.60
Bilby Search 20	Major Drainage	675.072189-CAM-31	1.58
Bilby Search 21	Major Drainage	675.072189-CAM-51	1.50
Bilby Search 22	Outcrops and Breakaways	675.072189-CAM-20, 675.072189-CAM-25, 675.072189-CAM-21	4.09
Bilby Search 23	Mixed Acacia Shrubs and Triodia Plains	675.072189-HAB-84	0.46
Bilby Search 24	Mixed Acacia Shrubs and Triodia Plains	675.072189-BIL-12	15.30
Bilby Search 25	Outcrops and Breakaways	675.072189-CAM-19	1.39
Bilby Search 26	Mixed Acacia Shrubs and Triodia Plains	675.072189-HAB-68	5.54
Bilby Search 27	Mixed Acacia Shrubs and Triodia Plains	675.072189-CAM-22	0.22
Bilby Search 28	Outcrops and Breakaways	675.072189-CAM-67	4.24
Bilby Search 29	Outcrops and Breakaways	675.072189-CAM-61	5.08
Bilby Search 30	Mixed Acacia Shrubs and Triodia Plains	675.072189-HAB-86	1.67
Bilby Search 31	Sparse Triodia Plains	675.072189-HAB-82	0.85
Bilby Search 32	Sparse Triodia Plains	675.072189-HAB-82	0.76
Bilby Search 33	Major Drainage	675.072189-HAB-81	1.89
Bilby Search 34	Major Drainage	675.072189-HAB-81	1.18
Bilby Search 35	Major Drainage	675.072189-CAM-39	0.56
Bilby Search 36	Major Drainage	675.072189-CAM-49	1.25
Bilby Search 37	Mixed Acacia Shrubs and Triodia Plains	675.072189-BIL-11	3.45
Bilby Search 38	Outcrops and Breakaways	675.072189-BIL-9	1.97
Bilby Search 39	Low Acacia stellaticeps over Triodia Plains	675.072189-CAM-32	3.81
Bilby Search 40	Outcrops and Breakaways	675.072189-BIL-7	2.08
Bilby Search 41	Sparse Triodia Plains	675.072189-CAM-36	3.35
Bilby Search 42	Minor Drainage	675.072189-CAM-37	0.82

Search Number	Habitat	Habitat Site Sheet	Search length (Kms)
Bilby Search 43	Open Eucalypt Woodland	675.072189-CAM-41	0.37
Bilby Search 44	Open Eucalypt Woodland	675.072189-CAM-65	0.29
	Total	94	l.7

3.4.6 Identification and Taxonomy

Terrestrial vertebrate fauna taxa were identified in the field and released on site. Bat and bird calls were analysed by Robert Bullen from Bat Call WA.

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the Checklist of the Terrestrial Vertebrate Fauna of Western Australia (WAM, 2024) where relevant.

3.5 Limitations

Limitations and constraints of the flora, vegetation, and fauna survey are detailed below in **Table 11**.

Variable	Degree of limitation	Potential constraints on survey outcomes
Availability of data and information	None	Sufficient data and information, including regional and local contextual information, was available to complete the scope of the survey.
Competency and experience of the survey team	None	The survey was undertaken by a team with the following extensive experience undertaking similar scopes within the Pilbara bioregion.
		Associate Ecologist Lukas Geidans – 4.5 years' experience
		 Zoologist Lewis Berry – 2.5 years' experience
		 Botanist Jack Hardie – 2.5 years' experience
		 Senior Botanist Grant Buller – 3 years' experience
The proportion of flora and fauna identified, recorded, or collected	None	Of the 172 flora taxa recorded, 19 specimens (11%), could not be identified to species level because they were sterile at the time of the survey. The unidentified flora specimens were not analogous to significant flora taxa. All of the fauna recorded during the field survey were identified on site.
Scope of the survey	None	The scope of the survey was limited to vascular plants and terrestrial vertebrate fauna. No further exclusions were made within these groups.
Adequacy of the survey intensity and proportion of survey achieved	None	A minimum of three flora sites were installed within most vegetation types, apart from two vegetation types which were restricted in distribution, and a minimum of two fauna habitat assessment were made within each habitat type. Additional survey effort may yield additional flora and fauna taxa, however,

Table 11: Limitations and constraints associated with the survey

Variable	Degree of limitation	Potential constraints on survey outcomes		
		sufficient time and effort was allocated to the survey given the size and complexity of the Survey Area and the expected level of survey intensity.		
Access problems	None	The different vegetation types and habitats within the Survey Area were sufficiently accessed by vehicle and on foot.		
Timing, weather, and season	Partial	The recommended primary survey period Eremaean Botanical Province as per the EPA Technical Guidance occurs 6-8 weeks post wet season (March to June). The flora and vegetation survey was undertaken within the recommended primary survey period, however rainfall in the 3 and 12-month periods prior to the survey was well below average.		
		The recommended primary periods for fauna surveys in the Pilbara region are:		
		Amphibians – immediately following rainfall		
		Birds – immediately following rainfall		
		Mammals – no preferred time		
		Reptiles – September to April		
		The fauna survey was undertaken within the recommended primary survey period for all vertebrate species.		
Disturbance that may have affected the results of survey	None	Areas of disturbance associated with weeds and livestock/pastoralism were present within the Survey Area but were not a limitation on the results of the survey.		
Problems with data and analysis, including sampling biases	None	Survey effort for significant flora and fauna taxa was concentrated in preferred habitats. This may introduce a bias where the use of non-preferred habitat is underrepresented, however, this is not considered a limitation on the survey outcomes.		

4.0 Results

4.1 Flora and Vegetation

4.1.1 Desktop Assessment

4.1.1.1 Database Searches

The database searches and literature review identified 33 significant flora taxa occurring within the Desktop Study Area, comprising:

- One Threatened taxa
- Eight Priority 1 taxa
- Two Priority 2 taxa
- 20 Priority 3 taxa
- Two Priority 4 taxa

Key findings of the literature review and database search results are summarised in **Appendix B** and presented in **Map 8**.

Three PECs were identified within the Desktop Study Area:

- Eighty Mile Land System (Priority 3), approximately 19 km north of the Survey Area.
- Gregory Land System (Priority 3), approximately 49 km south-south-west of the Survey Area.
- Horseflat Land System of the Roebourne Plains (Priority 3) approximately 75 km south west of the Survey Area.

The PECs identified by database searches are presented in **Map 8**.

4.1.1.2 Likelihood of Occurrence

The pre-survey likelihood of occurrence assessment identified that of the 33 significant flora species identified by the desktop assessment:

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

Following the survey, the likelihood of occurrence assessment identified that:

- Two taxa were recorded within the Survey Area
- Two taxa were considered to have a high likelihood of occurrence
- Six taxa were considered to have a medium likelihood of occurrence
- 23 taxa were considered to have a low likelihood of occurrence.

The likelihood of occurrence assessment is provided in **Appendix C**.

4.1.2 Field Survey

4.1.2.1 Floristic Composition

The survey recorded a total of 172 taxa from 94 genera across 40 families (**Appendix D**). The dominant families were Fabaceae (45 species), Poaceae (19 species) and Malvaceae (14 species). The dominant genera were *Acacia* (18 species), *Corymbia* and *Ptilotus* (6 species each). Of the 172 taxa recorded, 15 were identified to genus and two were identified to family, however these specimens are unlikely to represent conservation significant flora.

4.1.2.2 Significant Flora

Threatened and Priority Flora Recorded Within the Survey Area

No Threatened flora species pursuant to the Environment Protection and Biodiversity Conservation (EPBC) Act 1999 and/or gazetted as Threatened pursuant to the Biodiversity Conservation (BC) Act 2016 were recorded during the survey.

Two DBCA-listed Priority species, *Gymnanthera cunninghamii* (P3) and *Tephrosia rosea* subsp. Port Hedland (A.S. George 1114) (P1), were recorded within the Survey Area (Map 9). Six individuals of *Gymnanthera cunninghamii* (Plate 1) was recorded opportunistically in Devil Creek (vegetation type MaEc), while two individuals of *Tephrosia rosea subsp*. Port Hedland (A.S. George 1114) (Plate 2) were recorded opportunistically within vegetation type AsTe adjacent to Great Northern Highway at the western end of the survey area.

Threatened and Priority Flora Report Forms have been submitted to DBCA and are provided in **Appendix E**.



Plate 1. Gymnathera cunninghamii (P3) (Source: SLR Consulting).



Plate 2: *Tephrosia rosea* subsp. Port Hedland (A.S. George 1114) (Source: SLR Consulting)

Significant Flora Potentially Occurring Within the Survey Area

No significant flora taxa have been recorded within the Survey Area during previous surveys.

4.1.3 Introduced Flora

A total of eight introduced taxa were recorded within the Survey Area, representing 4.7% of the total taxa recorded (**Table 12; Map 10**). None are listed as WoNS. One taxon (**Calotropis procera*) is listed as a Declared Pest under the BAM Act, of which approximately 144 individuals were recorded opportunistically, and another four individuals within flora sites.

One individual of **Azadirachta indica* (Neem Tree) was recorded opportunistically in the King Edward River drainage; this record was determined to be a range extension as its current distribution according to Florabase is within the Kimberley region (DBCA, 2024a). The specimen collected was vouchered at the request of Mike Hislop from WAH (pers. com. M Hislop, 2024). The remaining six weed species recorded are commonly found throughout the Pilbara.

Taxon	Common name	Status under BAM Act	WoNS
*Aerva javanica	Kapok	Permitted – s11	No
*Azadirachta indica	Neem tree	Permitted – s11	No
*Calotropis procera	Calotrope	Declared Pest - s22(2)	No
*Cenchrus ciliaris	Buffel grass	Permitted – s11	No
*Indigofera oblongifolia		Permitted – s11	No
*Malvastrum americanum	Spiked Malvastrum	Permitted – s11	No
*Passiflora foetida	Stinking Passion Flower	Permitted – s11	No
*Vachellia farnesiana	Mimosa Bush	Permitted – s11	No

Table 12: Introduced Flora Taxa Recorded within the Survey Area

4.1.4 Unconfirmed Flora

Nineteen specimens (11% of the taxa recorded) could not be identified to species level because the taxa were too sterile and/or in poor condition at the time of the survey (Flora Inventory, **Appendix D**). Of these specimens, three were identified to family level, 15 were identified to genus level, and one was tentatively identified to species level. None of the unconfirmed flora taxa were analogous to significant flora taxa identified by the desktop assessment and may represent duplicates of taxa that were confirmed within the Survey Area. One of the three taxa identified to Family level (i.e. Violaceae) was only tentatively assigned a genus (i.e. ?*Afrohybanthus*) (refer to Discussion, Section **5.1.2.1**).

4.1.5 Vegetation Types

Fourteen vegetation types were described and mapped across five broad landforms within the Survey Area (**Table 13**; **Map 9**).

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

Table 13:	Vegetation	types re	corded wi	ithin the	Survey	Area
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Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: AiTe: <i>Triodia epactia</i> low hummock grassland	Ironstone hilltops and ridges	30 ha, 0.29%	AR10, AR13, AR45	Very Good	
Vegetation Type Code: AoTe: Acacia orthocarpa tall open shrubland over Triodia epactia low open hummock grassland	Granite and quartz outcroppings	53 ha, 0.51%	AR05, AR36, AR38, AR40	Very Good	

Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: AspTe: Mixed Acacia (A. inaequilatera, A. colei, A. ancistrocarpa, A. acradenia, A. bivenosa) tall shrubland over Triodia epactia (T. wiseana) low to mid hummock grassland	Plains	5495 ha, 53.03%	AR15, AR18, AR23, AR34, AR32, AR49, AR52	Very Good	
Vegetation Type Code: AsTe: Acacia stellaticeps mid open shrubland over Triodia epactia low hummock grassland	Plains	3067 ha, 29.6%	AR02, AR03, AR04, AR20, AR31, AR42	Very Good	

Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: At: Acacia tumida tall shrubland over Triodia epactia mid open hummock grassland	Plains and foothills	18.3 ha, 0.18%	AR29, AR35, AR46	Very Good	
Vegetation Type Code: CcAcTe: Corymbia candida low sparse woodland over Acacia colei and A.tumida tall open shrubland over Triodia epactia low hummock grassland and Eulalia aurea low open tussock grassland	Plains	123.9 ha, 1.2%	AR25, AR54, AR53	Very Good	
Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
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Vegetation Type Code: CfAh: Corymbia flavescens (Eucalyptus victrix) low sparse woodland over Atalaya hemiglauca (Dolichandrone occidentalis, Ficus aculeata) tall open shrubland over Eulalia aurea low sparse tussock grassland	Low lying floodplain/minor drainages	42.5 ha, 0.41%	AR16, AR17	Degraded	
Vegetation Type Code: EvAcTe: Eucalyptus victrix low sparse woodland over Acacia colei tall open shrubland over Triodia epactia mid open hummock grassland	Minor floodplains	263.5 ha, 2.54%	AR06, AR07, AR08, AR22, AR21	Good to Very Good	

Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: EvEa: Eucalyptus victrix low sparse woodland over Acacia colei tall sparse shrubland over Triodai epactia mid sparse hummock grassland and Eulalia aurea mid sparse tussock grassland	Drainage	24.1 ha, 0.23%	AR12, AR26, AR27, AR33, AR30	Very Good	
Vegetation Type Code: FspAh: Low sparse woodland of Atalaya hemiglauca and Ficus brachypoda over Triodia epactia low sparse hummock grassland	Ironstone hilltops and ridges	1.8 ha, 0.02%	AR09, AR14, AR44	Very Good	

Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: FspTe: Mixed Acacia (A. inaequilatera, A. ancistrocarpa) with Ficus brachypoda low isolated trees over low open hummock grassland Triodia epactia	Granite outcropping	13.5 ha, 0.13%	AR37, AR48, AR50	Very Good	
Vegetation Type Code: MaEc: Eucalyptus camaldulensis subsp. refulgens (E.victrix), Melaleuca argentea low sparse woodland over tall sparse shrubs Acacia trachycarpa, M. glomerata over Eulalia aurea low sparse tussock grasses and Triodia epactia low sparse hummock grasses	Major drainages	165.7 ha, 1.6%	AR28, AR39, AR41, AR47	Good	

Vegetation type and description*	Local landform	Total area, percentage of Survey Area	Sites	Vegetation condition	Representative photograph
Vegetation Type Code: Sh: Sclerolaena hostilis low sparse forbland	Low lying colluvial flats,	9.6 ha, 0.09%	AR11	Degraded	
Vegetation Type Code: TsTe: <i>Triodia secunda</i> and <i>T. epactia</i> low hummock grassland	Flats, floodplain	848.4 ha, 8.19%	AR01, AR19, AR24, AR43, AR51	Very Good	

*Brackets indicate species that may or may not be present, but were observed as dominant at some of the sites that make up the vegetation type

4.1.6 Vegetation Condition

Vegetation condition within the Survey Area ranged from Degraded to Very Good, with the majority (95.2%) being in Very Good condition (**Table 14**; **Map 10**).

The remainder of the Survey Area comprised previously cleared areas (i.e. for roads, tracks, pastoralism infrastructure) and were not assigned a vegetation condition (206.3 ha / 2 %).

Evidence of disturbance included historical clearing for access tracks, cattle grazing, trampling and scats, weeds, and frequent burning.

Vegetation Condition	Area (ha)	Percentage of Survey Area (%)
Degraded	52.1	0.5
Good	232.4	2.2
Poor	3.3	0.03
Very Good	9868.9	95.2

Table 14: Summary of Vegetation Condition within the Survey Area

4.1.7 Significant Vegetation

4.1.7.1 Threatened and Priority Ecological Communities

None of the vegetation types within the Survey Area were considered analogous to TECs or PECs.

4.1.8 Groundwater Dependent Ecosystems

One vegetation type, MaEc, is likely to represent groundwater dependent ecosystems (GDE) associated with some of the major drainages intersecting the survey area (i.e. King Edward River, Turner River and Devil Creek). This vegetation type supports known phreatophytic tree species such as *Melaleuca argentea* and *Eucalyptus camaldulensis* subsp. *refulgens*, which are reliant on access to the groundwater table.

4.1.9 Statistical Analysis

4.1.9.1 Floristics

Data was modified in accordance with the methodology in Section **3.3.7.1**. Selected inputs and outputs of the floristic analysis are presented in **Appendix G**. The following observations were made from the floristic analysis and the dendrogram output (**Figure 2**):

• Acacia dominated vegetation types on plains (At, AspTe, AoTe, AsTe and FspTe) grouped broadly together; these groups largely represented the Acacia plains which dominated the majority of the Survey Area (approximately 83%). While FspTe was included in this grouping, this was largely based on the shared presence of common Acacia shrubs which exist across a range of habitats and landforms (e.g. *A. inaequilatera* and *A. ancistrocarpa*). Vegetation mapping from the flora survey, however, determined the FspTe vegetation type to be separate based on the presence of *Ficus brachypoda* which is often associated with these landforms (i.e. granite outcroppings) and less so on the plains. These granite outcroppings also often represent a different suite of species to the surrounding plains, despite often sharing some common Acacias.

- The major drainage sites (MaEc) were grouped together with a shared similarity of 40 %, sharing dominant drainage/GDE-associated species such as *Melaleuca argentea*, *M. glomerata*, *Eucalyptus camaldulensis* subsp. *refulgens*, *Acacia trachycarpa*, *Cyperus vaginata* and *Eulalia aurea*. This grouping was generally consistent with mapping from the field survey.
- Low lying flats and floodplain sites associated with vegetation type TsTe grouped together, which was consistent with mapping from the survey. TsTe was often in close proximity to the widespread Acacia plains, and the analysis also grouped some AspTe sites with the four TsTe sites; this was due to some crossover of common Acacia species (e.g. *A. ancistrocarpa, A. acradenia, A. bivenosa, A. colei, A. inaequilatera*).
- One of the TsTe sites, AR19, grouped separately from the others due to the absence of *Triodia epactia*, however it was retained in TsTe by the survey vegetation mapping due to the dominant presence of *T. secunda*.
- Sites within the FspAh and AiTe vegetation types were associated with the ironstone ridge, hilltop and slopes landforms, and were generally grouped together by the analysis based on shared presence of Ficus spp. The ironstone ridge sites (FspAh) were separated from the nearby hilltop sites (AiTe) by the survey vegetation mapping due to the absence of *Ficus* spp. and *Atalaya hemiglauca* in these hilltop sites, however the close proximity of these landforms still resulted in the crossover of common species (e.g. *Acacia inaequilatera*) and therefore the floristic grouping of these sites by the analysis.
- Sites within the vegetation types EvAcTe and CcAcTe were grouped together, as well as some sites from EvEa. These vegetation types were associated with low lying plains, minor floodplains and minor drainages, and shared some similarities, particularly a low sparse overstorey of *Eucalyptus victrix* and a mid-storey of tall sparse to open shrubland of *Acacia colei* var. *colei*. EvEa was associated with a different landform (minor drainages) to EvAcTe and CcAcTe however was included in this grouping by the analysis due to presence of *Eulalia aurea* and *Eucalyptus victrix*; *E. victrix* is a facultative phreatophyte which often grows in minor drainages but also is common across low lying plains and minor floodplains, while *E. aurea* often inhabits watercourses, damp areas and floodplains though is commonly found across a range of habitats.

Atlas Ridley Flora Cluster Analysis





4.1.9.2 Flora Species Accumulation

Analysis of systematic flora data for the Survey Area Analysis of systematic flora data for the Survey Area produced a Sobs curve that is approaching an asymptotic plateau (**Figure 3**). All richness estimators were at or greater than the Sobs curve, indicating that the observed species richness was lower than, or equal to, that predicted by the analysis. The observed species richness for the Survey Area was 121, whereas estimated species richness ranged from 121 (Chao 1 and 2, Jacknife 1) to 157 (MM), which suggests that approximately 77 to 100% of the theoretical maximum number of flora species was recorded during the field survey (**Table 15**).

The data used to produce the species accumulation curve was conservative because opportunistic species (which are not associated with a site), and unconfirmed flora were not included. With opportunistic and unconfirmed flora included, the number of flora taxa recorded during the survey was 153, which is 98.0% of the highest expected species richness, and 126.4% of the lowest expected species richness.



Figure 3: Flora Species Accumulation Curve

Table 15:	Flora species	richness	estimators
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Treatment	Estimated species richness	Observed species richness as a proportion of estimated species richness
Chao 1	121	100.00
Chao 2	121	100.00
Jacknife 1	121	100.00
Bootstrap	127.40	94.98
Michaelis-Menton	156.49	77.32

4.2 Fauna

4.2.1 Desktop Assessment

The database searches and literature review identified 426 terrestrial vertebrate fauna taxa occurring within the Desktop Study Area, comprising:

- 14 amphibians, of which none are significant.
- 244 birds, of which 62 are significant.
- 56 mammals, of which 11 are significant.
- 112 reptiles, of which three are significant.

Key findings of the literature review are summarised in **Appendix B**, a complete list of fauna taxa returned by the database search results is presented in **Appendix H** and displayed in **Map 11**.

4.2.2 Fauna Habitat

Nine fauna habitats (excluding cleared areas) were identified and mapped within the Survey Area. Fauna habitats are presented in **Map 12**, described below in **Table 16**, and site sheets for each habitat assessment are provided in **Appendix I**. Small discrepancies in fauna habitat extents (i.e., not adding up to the exact area extent of the Survey Area) are due to rounding.

Table 16: Fauna habitats recorded within the Survey Area

Fauna habitat	Total area, percentage of Survey Area	Habitat description	Representative photograph
Closed Acacia Shrubland	15.01 ha, 0.14%	Flat plains with red sandy substrate. Vegetation consists of open <i>Corymbia</i> and <i>Eucalyptus</i> woodland over <i>Eucalyptus</i> and <i>Acacia</i> open shrubland midstory over low <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks and leaf litter. This habitat contained disturbances caused by vehicle tracks.	
Low Acacia stellaticeps over Triodia	3,071.26 ha, 29.64%	Flat plains with brown-orange clay, loam and sandy substrate. Vegetation consists of low, isolated clumps of <i>Acacia stellaticeps</i> over low <i>Triodia</i> <i>epactia</i> open hummock grassland. Microhabitats include <i>Triodia</i> hummocks, leaf litter and woody debris were observed. This habitat contained disturbances caused by vehicle tracks and overgrazing. The significant Pilbara Leaf-nosed Bat was recorded within this habitat. Previous surveys have recorded the Bilby, Oriental Pratincole, and the Brush-tailed Mulgara within this habitat type.	

Fauna habitat	Total area, percentage of Survey Area	Habitat description	Representative photograph
Major Drainage	165.69 ha, 1.60%	Flat plains with red-orange sandy substrate. Vegetation consists of open eucalypt woodland over sparse acacia midstory and open <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks, leaf litter, peeling bark, woody debris, and burrows. Tree hollows, log hollows and logs over 10cm were also observed. This habitat contained disturbances caused by vehicle tracks, overgrazing and weeds. The significant Grey Falcon and Barn Swallow may utilise the eucalypt trees within this habitat for nesting. The significant Ghost Bat and Osprey may utilise this habitat for foraging.	
Minor Drainage	24.12 ha, 0.23%	Flat plains with red sandy substrate. Vegetation consists of open <i>Eucalyptus</i> woodland over <i>Eucalyptus</i> and <i>Acacia</i> open shrubland midstory over low <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks, leaf litter, peeling bark and woody debris. This habitat contained disturbances caused by vehicle tracks. The significant Grey Falcon and Barn Swallow may utilise the eucalypt trees within this habitat for nesting. The significant Ghost Bat and Osprey may utilise this habitat for foraging.	

Fauna habitat	Total area, percentage of Survey Area	Habitat description	Representative photograph
Mixed Acacia Shrubs and Triodia Plains	5,501.32 ha, 53.09%	Flat plains with red-orange sandy and clay-loam substrate. Vegetation consists of open <i>Eucalyptus</i> woodland over <i>Acacia</i> open shrubland midstory with <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks and leaf litter. This habitat contained disturbances caused by vehicle tracks and overgrazing. The significant Western Pebble-mound Mouse was recorded within this habitat. The Marsh Sandpiper, Red-necked Phalarope, and the Sanderling have been previously recorded within this habitat type. The significant Common Greenshank, Little Curlew, Oriental Plover, and the Glossy Ibis may utilise this habitat after significant rainfall event.	
Open Eucalypt Woodland	429.90 ha, 4.15%	Flat plains with red sandy substrate. Vegetation consists of open <i>Corymbia</i> and <i>Eucalyptus</i> woodland over <i>Eucalyptus</i> and <i>Acacia</i> open shrubland midstory over low <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks and leaf litter. This habitat contained disturbances caused by vehicle tracks. The significant Peregrine Falcon may utilise this habitat for nesting and hunting.	

Fauna habitat	Total area, percentage of Survey Area	Habitat description	Representative photograph
Outcrops and Breakaways	43.56 ha, 0.42%	Sloped granite, ironstone and quartz ridges and outcrops with red-brown sandy-clay substrate. Vegetation consists of open acacia shrubland midstory over sparse and open <i>Triodia</i> hummock grassland. Microhabitats include Exfoliating rock, rock crevices, <i>Triodia</i> hummocks, leaf litter, peeling bark and woody debris. The significant Pilbara Leaf-nosed Bat and Western Pebble-mound Mouse were recorded within this habitat. The significant Northern Quoll has also been recorded by previous surveys within this habitat type. The significant Pilbara Olive Python may utilise this habitat for dispersal.	
Sparse Triodia Plains	858.02 ha, 8.28%	Open rocky granite plains with red sandy-pebble substrate. Vegetation consists of sparse acacia shrubland midstory over open hummock grassland. Microhabitats include <i>Triodia</i> hummocks and leaf litter. This habitat contained disturbances caused by vehicle tracks and overgrazing. The significant Western Pebble-mound Mouse was recorded within this habitat. The significant Common Greenshank, Little Curlew, Oriental Plover, and the Glossy Ibis may utilise this habitat after significant rainfall event. The Pilbara Grasswren and the Short- tailed Mouse may also utilise this habitat for foraging and shelter.	

Fauna habitat	Total area, percentage of Survey Area	Habitat description	Representative photograph
Stony Hills	47.82 ha, 0.46%	Undulating granite and quartz plains with red sandy substrate. Vegetation consists of sparse <i>Acacia</i> shrubland midstory over sparse <i>Triodia</i> hummock grassland. Microhabitats include <i>Triodia</i> hummocks and termite mounds. This habitat contained disturbances caused by vehicle tracks. The Pilbara Grasswren and the Short-tailed Mouse may also utilise this habitat for foraging and shelter.	
Cleared	206.26 ha, 1.99%	Cleared land for existing tracks/roads. Low/negligible fauna habitat value.	
Total	10,363 ha		

4.2.3 Fauna Records

The fauna survey recorded a total of 63 fauna taxa from 34 families. The fauna diversity within each habitat type is summarised in **Table 17** and a full inventory of fauna taxa recorded during the field survey is provided in **Appendix J**.

Table 17:	Fauna	diversity	by	habitat type
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Fauna habitat	Birds	Mammals	Reptiles	Total
Closed Acacia Shrubland	0	0	0	0
Low Acacia stellaticeps over Triodia	20	10*	3	33*
Major Drainage	10	7	5	22
Minor Drainage	5	1	2	8
Mixed Acacia Shrubs and Triodia Plains	15	3*	10	28*
Open Eucalypt Woodland	8	2	3	13
Outcrops and Breakaways	4	12*	5	21*
Sparse Triodia Plains	9	1	0	10
Stony Hills	1	2*	0	3*
Cleared	7	0	1	8

*Contains significant fauna

Birds

A total of 33 native birds from 20 families were recorded within the Survey Area. The most abundant bird taxa were the Australian Zebra Finch (*Taeniopygia castanotis*), Spinifex Pigon (*Geophaps plumifera*), and Crested Pigon (*Ocyphaps lophotes*). The most diverse bird families were Alcedinidae (Four taxa), and Falconidae (three taxa), and Cacatuidae (three taxa).

No significant birds (see Section 4.2.4.1) and one introduced bird were recorded.

Mammals

A total of 14 native mammals from nine families were recorded within the Survey Area, comprising four non-volant (non-flying) mammals and six volant mammals (bats). The most abundant mammal taxa were the Gould's Wattled Bat (*Chalinolobus gouldii*), Sheath-tailed Bat (*Taphozous spp*), Greater Northern Free-tailed Bat (*Chaerephon jobensis*) and Finlayson's Cave Bat (*Vespadelus finlaysoni*). The most diverse mammal families were Vespertilionidae (three taxa) and Macropodidae (two taxa).

Two significant mammals (see **Section 4.2.4.1**) and two introduced mammals were recorded.

Reptiles

A total of 16 native reptiles from five families were recorded within the Survey Area. The most abundant reptile taxa were the Rock Ctenotus (*Ctenotus saxatilis*), Western Ring-tailed Dragon (*Ctenophorus caudicinctus*), and Spiny-tailed Goanna (*Varanus acanthurus*). The most diverse reptile families were Scincidae (five taxa), Agamidae (three taxa), and Varanidae (three taxa).

No significant reptiles (see Section 4.2.4.1) and no introduced reptiles were recorded.

Amphibians

No amphibians were recorded within the Survey Area

4.2.4 Significant Fauna

4.2.4.1 Recorded within the Survey Area during the current survey

Two significant fauna taxa were recorded within the Survey Area:

- Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*) (Pilbara form), listed as Vulnerable under the BC Act and EPBC Act, was recorded seven times during the field survey. all individuals were recorded by ultrasonic ARUs within Outcrops and Breakaways (-20.2906, 119.1062) and Low Acacia stellaticeps over Triodia adjacent to Outcrops and Breakaways (-20.3417, 119.0783) (Map 12).
- Western Pebble-mound Mouse (*Pseudomys chapmani*), listed as Priority 4 by DBCA, was recorded six times during the field survey. All individuals were recorded by residual mounds within Stony Hills (-20.4059, 118.9593; -204061, 118.9596; -20.4090, 118.9611), Outcrops and Breakaways (-20.4190, 118.9164; -20.3421, 118.0801), and Mixed Acacia Shrubs and Triodia Plains adjacent to Outcrops and Breakaways (-20.4196, 118.9155) (Map 12).

4.2.4.2 Previously recorded within the Survey Area

Seven significant fauna taxa have been recorded within the Survey Area in recent years but were not recorded during the current survey:

- Northern Quoll (*Dasyurus hallucatus*), listed as Endangered under the BC Act and EPBC Act.
- Bilby (*Macrotis lagotis*), listed as Vulnerable under the BC Act and EPBC Act.
- Oriental Pratincole (*Glareola maldivarum*), listed as Migratory under the BC Act and EPBC Act, and Marine under the EPBC Act.
- Marsh Sandpiper (*Tringa stagnatilis*), listed as Migratory under the BC Act and EPBC Act, and Marine under the EPBC Act.
- Red-necked Phalarope (*Phalaropus lobatus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Sanderling (*Calidris alba*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Brush-tailed Mulgara (*Dasycercus blythi*), listed as Priority 4 by DBCA.

4.2.4.3 High likelihood of occurrence within the Survey Area

Nine significant fauna taxa were assessed as having a high likelihood of occurring within the Survey Area:

- Grey Falcon (*Falco hypoleucos*), listed as Vulnerable under the BC Act and EPBC Act.
- Ghost Bat (*Macroderma gigas*), listed as Vulnerable under the BC Act and EPBC Act.
- Pilbara Olive Python (*Liasis olivaceus barroni*), listed as Vulnerable under the BC Act and EPBC Act.

- Common Greenshank (*Tringa nebularia*), listed as Migratory under the BC Act, and Endangered, Migratory and Marine under the EPBC Act.
- Barn Swallow (*Hirundo rustica*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Little Curlew (*Numenius minutus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Oriental Plover (*Charadrius veredus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Osprey (*Pandion haliaetus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Peregrine Falcon (*Falco peregrinus*), listed as Other Specially protected species under the BC Act.

4.2.4.4 Medium likelihood of occurrence within the Survey Area

A total of 25 significant fauna taxa were assessed as having a medium likelihood of occurring within the Survey Area, including:

- Glossy Ibis (*Plegadis falcinellus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Pacific Swift/Fork-tailed Swift (*Apus pacificus*), listed as Migratory under the BC Act, and Migratory and Marine under the EPBC Act.
- Pilbara Grasswren (*Amytornis whitei whitei*), listed as P4 (as *A. striatus striatus*) by DBCA.
- Short-tailed Mouse (Leggadina lakedownensis), listed as Priority 4 by DBCA.

A further 21 shorebird species were also assessed as having a medium likelihood of occurring within the Survey Area (**Appendix K**). These species will be discussed as a group due to the similarities of their habitat requirement within the Survey Area.

A total of 33 significant fauna taxa were assessed as having a low likelihood of occurring within the Survey Area. The complete results of the significant fauna likelihood of occurrence assessment including justification for the assessment outcome for each taxon is provided in **Appendix K**.

5.0 Discussion

5.1 Flora and Vegetation

5.1.1 Floristic Composition

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

Rainfall in the three month and 12-month periods prior to the survey was well below average. This likely resulted in a lower than expected floristic diversity when considering other surveys undertaken in the region and the timing of the survey undertaken. The lack of rainfall also likely contributed to several small herbs and grasses that could not be identified to species level due the poor and/or sterile nature of these specimens. Had rainfall totals in the 3 and 12 months prior to the survey been closer to the long-term average for these periods, the survey results may have shown fewer sterile species and a higher floristic diversity, including more annuals and ephemerals.

5.1.2 Significant Flora

The two DBCA-listed Priority species recorded, *Gymnanthera cunninghamii* (P3) and *Tephrosia rosea subsp*. Port Hedland (A.S. George 1114) (P1), were each determined by the pre-survey desktop assessment to be of high likelihood of occurrence.

Gymnanthera cunninghamii is an erect shrub that grows from 1 to 2 metres high with cream-yellow-green flowers from January to December (Department of Biodiversity Conservation and Attractions, 2020). The species grows in sandy soils (Department of Biodiversity Conservation and Attractions, 2023) and often favours creek beds, river systems and major drainage lines.

Tephrosia rosea subsp. Port Hedland (A.S. George 1114) is an erect, spindly shrub that has been recorded from only a few locations in the Pilbara, mostly on pale red-yellow-brown sand on sand plains (Western Australian Herbarium, 2023).

Focused Vision (2023) recorded one individual of *Tephrosia rosea* subsp. Port Hedland (A.S. George 1114) within their 2023 survey, located approximately 6.5 km to the north of the far western end of the current survey area.

5.1.2.1 Other Species of Interest

One flora collection from the survey, *?Afrohybanthus*, could not be positively identified to Genus level, however it was noted by WAH taxonomist Mike Hislop as an interesting collection with some vegetative characters shared between the *Afrohybanthus* and *Pigea* genera (both in the Violaceae family). While this specimen has a generally similar vegetative morphology to a WAH specimen referred to as *A*. aff. *aurantiacus* from the PH area (Loudon, B.; Henshaw, N. BLNH-036), it differs from the WAH specimen which has hairy branchlets. A better specimen collected during a season with higher rainfall may yield a positive identification.

5.1.3 Vegetation Types and Condition

Mapping reliability ranged from very high, in areas where flora sites and mapping notes were completed within intact vegetation, to moderate in areas that were not traversed. The majority of the survey area (approximately 86.5%) comprised plains consisting of *Acacia stellaticeps* and mixed *Acacia* spp. with isolated patches of *Eucalyptus victrix* and *Corymbia* spp. woodland. Some areas, particularly in the AsTe vegetation type, were heavily fire affected, however sufficient intact vegetation remained to reliably inform vegetation mapping.

Five broad landforms – ironstone hilltops and ridges, outcroppings, plains, low lying floodplains/flats/minor drainages and major drainages – were recorded within the Survey Area.

Based on examining similarities in vegetation descriptions, vegetation within the survey area was largely representative of existing broad scale vegetation and soil and land system mapping for the area (Beard, 1976, Shepherd et al., 2002).

The vegetation throughout the majority of the survey area was in 'Very Good' condition. With many pastoral stations situated in the Port Hedland region, disturbances from livestock and weeds in this region are widespread; as such, these disturbances automatically downgrades any vegetation condition below that of 'Excellent' (EPA, 2016c). Areas in Good, Poor or Degraded condition were often affected by the presence of more aggressive and/or declared pest species of weeds such as **Cenchrus ciliaris* and **Calotropis procera* (DP). These areas were often associated with drainages and floodplains frequented by livestock, which often act as vectors for the spread of these weeds, as well as other weeds such as **Vachellia farnesiana* and **Malvastrum americanum*. Areas that had been cleared of vegetation for roads, tracks and infrastructure were not assigned a vegetation condition.

5.1.4 Significant Vegetation

5.1.4.1 Groundwater Dependent Ecosystems

Vegetation type MaEc is likely to be representative of groundwater dependent ecosystems. This is indicated by the presence of known phreatophytic vegetation, specifically *Melaleuca argentea* and *Eucalyptus camaldulensis* subsp. *refulgens. Melaleuca argentea* is an obligate phreatophyte and is almost exclusively dependent on groundwater for its water requirements while *Eucalyptus camaldulensis* subsp. *refulgens* is a facultative phreatophyte and utilises groundwater as well as water from other sources (Rio Tinto, 2017).

Whilst the MaEc vegetation type comprised a small proportion of the Survey Area (1.6%), it was mapped in three different locations, each one traversing the full width of the Survey Area corridor (see **Map 9**). These locations correspond to the three major drainages (from west to east): Turner River, King Edward River and Devil Creek.

Previous surveys conducted by Focused Vision in 2023 mapped the King Edward and Devil Creek as potentially representative of GDV due to a dominant overstorey of facultative phreatophytes *Eucalyptus camaldulensis* subsp. *refulgens* and *Eucalyptus victrix*.

5.1.5 Survey Adequacy

The flora and vegetation survey were conducted in accordance with the scope of works, and appropriate for a detailed flora and vegetation survey in the Pilbara. Fifty-four flora sites were sampled across the Survey Area, comprising 26 quadrats and 28 relevés. The inventory of vascular flora and records of significant and weed species was compiled using flora site data and opportunistic observations made during traverses between sites and targeted searches of habitat likely to support significant flora (e.g. drainages).

A minimum of three flora sites were sampled in each vegetation type, except for vegetation types Sh and CfAh which were each too restricted in distribution to accommodate three sites. Vegetation type FspAh comprised the smallest proportion of the total survey area (0.02%), however the ironstone ridges with which the vegetation type was associated with were distributed adequately enough to incorporate three flora sites.

When a curve approaches an asymptote, it indicates sampling effort has been sufficient to adequately collect the species comprising the floral assemblage at the locations sampled. The value at which the curve asymptotes can also be used as an approximate measure of the total size of the species complement at that location.

The species accumulation curve and the richness estimators approached asymptote and plateaued, indicating that additional surveys would be unlikely to record many additional vascular flora taxa. This in turn is indicative of the paucity of flora taxa throughout the Atlas Ridley Survey Area as a result of very dry conditions in the 3- and 12-month periods prior to the survey. The presence of ephemeral and annual herbs was very low, and even perennial grasses such as *Triodia* spp., *Eulalia aurea*, *Eragrostis* spp. and **Cenchrus ciliaris* (Buffel grass) were often observed either dead or sterile.

5.1.6 Regional Representation

According to the EPA (2000), the threshold level below which species loss appears to accelerate exponentially at an ecosystem level is regarded as being 30% of the preclearing extent of the vegetation type. Proposals that would affect a vegetation association with 30% or less of its pre-clearing extent remaining are likely to be formally assessed by the EPA (2006).

Each of the four Abydos Plain vegetation associations within the Survey Area are above the threshold level of 30% of the pre-clearing extent set by the EPA for protecting biological diversity.

5.2 Fauna

5.2.1 Fauna habitat

The nine broad fauna habitats (excluding cleared areas) identified within the Survey Area are typical of the Pilbara bioregion and consistent with habitats identified by previous studies in the region (Appendix B). At least one habitat assessment was conducted within each habitat type. Multiple assessments were conducted within the fauna habitats with the highest value to significant fauna (e.g. Outcrops and Breakaways) and overall fauna assemblages (e.g. Low *Acacia stellaticeps* over Triodia). Nearly all identified fauna habitats extend outside the Survey Area to form larger ecosystems. However, there is one pocket of Stony Hills and Closed Acacia Shrubland habitats, and a series of Outcrops and Breakaways habitat contained entirely within the Survey Area which lack connectivity to similar habitats.

Four fauna habitats: Outcrops and Breakaways; Stony Hills; Low *Acacia stellaticeps* over Triodia and Mixed Acacia Shrubs; and Triodia Plains habitats, represent the highest value to overall fauna assemblages and the highest value to significant fauna.

The Outcrops and Breakaways habitats are of value to significant fauna species such as Northern Quoll, Pilbara Leaf-nosed Bat, and Western Pebble-mound Mouse. The caves and rock crevices found throughout the habitats provide roosting, denning, and refuge habitat. The hills and valleys within these habitats may also occasionally flood, providing a temporary water source for fauna species.

The Stony Hill habitat is of value to significant species such as the Western Pebblemound Mouse as it provides suitable burrowing, refuge, and foraging habitat. This habitat can also provide suitable hunting habitat for Northern Quoll and Pilbara Leafnosed Bat in areas adjacent to Outcrops and Breakaways. The Low *Acacia stellaticeps* over Triodia habitat had the highest number of fauna species recorded of all fauna habitats and supports significant fauna species such as Brush Tailed Mulgara, Bilby, and Western Pebble-mound Mouse. This habitat can also provide suitable hunting habitat for Northern Quoll and Pilbara Leaf-nosed Bat in areas adjacent to Outcrops and Breakaways.

Mixed Acacia Shrubs and Triodia Plains habitats recorded the second highest number of species of all fauna habitats. In addition, they support significant species that favours plains habitats, such as Brush-tailed Mulgara and Western Pebble-mound Mouse. When adjacent to Outcrops and Breakaways habitat they can also support significant fauna such as Northern Quoll and Pilbara Leaf-nosed Bat.

The Major and Minor Drainage Line habitats represent moderate value to significant fauna due to dense fringing shrubland which provide suitable foraging habitat and plays a role as an ecological linkage. These habitats may also contain ephemeral pools after significant rain events, providing valuable water sources for significant species such as Northern Quoll and Pilbara Olive Python.

Habitat condition varied throughout the Survey Area. Large portions of the Survey Area had been recently cleared for mining activity, drill pads, and associated access tracks. Weeds and degradation caused by cattle and historic settlement were observed throughout all habitats.

5.2.2 Significant Fauna

5.2.2.1 Recorded within the Survey Area during the current survey

Pilbara Leaf-nosed Bat (*Rhinonicteris aurantia*) (Pilbara form) – VU (BC Act); VU (EPBC Act)

The Pilbara Leaf-nosed Bat was originally considered to be the same species as the Orange Leaf-nosed Bat, which occurs in the Kimberley region, Northern Territory, and northwest Queensland. It is now considered to be a separate form based on morphology; however, formal reclassification has not yet been undertaken (Cramer et al., 2016). The taxon is restricted to areas with suitable day roosts, which are typically deep caves that retain humidity or disused underground mines (Cramer et al., 2016).

The Pilbara Leaf-nosed Bat was recorded once within the Outcrops and Breakaways habitat, and one was recorded by an ARU 10 m away from the mapped boundary of an Outcrops and Breakaways habitat. The caves in this habitat provide ideal roosting habitat for the taxon.

Western Pebble-mound Mouse (Pseudomys chapmani) – P4 (DBCA)

The Western Pebble-mound Mouse is endemic to the Pilbara, where it builds pebble mounds from small stones. These pebble mounds typically cover areas from 0.5 – 9.0m² and are characteristic of this species. Pebble mounds are restricted to suitable-class stones and are usually found on gentle slopes and spurs that are often vegetated by hard spinifex (Ford & Johnson, 2007; Van Dyck & Strahan, 2008). Active mounds are characterised by the conical shape of the mound with clear, distinct entrance holes (Anstee, 1996). Pebble mounds constructed by the Western Pebble-mound Mouse are found throughout the Pilbara; however, studies have shown that not all mounds in an area are occupied by a Pebble-mound Mouse at any one time (Anstee, 1996).

Western Pebble-mound Mouse mound was recorded three times within the Stony Hills habitat, and twice within the Outcrops and Breakaways habitat. Given the presence of an entrance hole and the lack of debris around the entrance, it is highly likely that the mounds are currently occupied. This species was recorded once within the Mixed Acacia Shrubs and Triodia Plains habitat, however, the record is < 40 m away from the mapped boundary of an Outcrops and Breakaways habitat, therefore it is considered an ecotone of the Outcrops and Breakaways habitat.

5.2.2.2 Previously recorded within the Survey Area

Northern Quoll (Dasyurus hallucatus) - EN (BC Act); EN (EPBC Act)

The range of the Northern Quoll has contracted across northern Australia since European settlement, and it now occurs as several disjunct populations (Braithwaite & Griffiths, 1994). The Northern Quoll can be locally common, but its former range has retracted considerably (Van Dyck & Strahan, 2008). The Northern Quoll is found in dissected rocky escarpments, utilising a variety of den sites, including rock crevices, tree hollows, logs, and termite mounds. It favours rocky areas, taking refuge in rock crevices, and utilises gullies and drainage lines.

It is important to note that much of the ecological information for the Northern Quoll comes from studies in the Top End of the Northern Territory (e.g. (Begg, 1981); (Oakwood, 2000). Much of their ecology is likely to be similar in the Pilbara; however, differences in genetic structure and some demographic parameters have been observed (How et al., 2009).

The Northern Quoll has a relatively large home-range size of up to 150 ha for males (35 ha for females). Movements between den sites on consecutive nights can be up to 1.85 km for males (Oakwood, 2000). In the Northern Territory, mating occurs in late May to June and all males die after the mating season and females rear the young alone (Oakwood, 2000). The young spend about two months in the pouch and are then left in a succession of nursery dens for the next three months for periods at night while the mother forages (Oakwood, 2000). In the Kimberley region, Schmitt et al. (1989) found that breeding occurred in July and August. However, at Woodstock Station in the Pilbara, breeding occurred in September, a month later than the Kimberley (How et al., 2009). This variation in time of breeding across three distinct populations indicates some reproductive flexibility in the species.

There is an abundant (1,282) amount of previous Northern Quoll records within and around the Survey Area (DBCA, 2023). Most of the previous records of the Northern Quoll are in the Outcrops and Breakaways habitat, except for one record less than 1 km away. This is expected as the Outcrops and Breakaways, as well as the surrounding habitats constitute core habitat for the Northern Quoll because of their value for denning and foraging. In addition, the records range from early 1980 to the current days, which shows that the species occupies the Survey Area consistently.

Bilby (Macrotis lagotis) – VU (BC Act); VU (EPBC Act)

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

This species was recorded in large numbers within the Survey Area during a previous survey (Phoenix Environmental, 2022). They were previously recorded in the Low *Acacia stellaticeps* over Triodia and Sparse Triodia Plains habitats. The field survey did not identify evidence of the species within the Survey Area. These habitats constitute core habitat for the Bilby because of their value for denning, foraging, and dispersal.

Oriental Pratincole (Glareola maldivarum) - MI (BC Act); MI, MA (EPBC Act)

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

The Oriental Pratincole was previously recorded within the Survey Area in 2004 (DBCA, 2023), within the Low *Acacia stellaticeps* over Triodia habitat, which have the potential to become inundated during the wet season, providing the taxon with foraging habitat.

Brush-tailed Mulgara (Dasycercus blythi) - P4 (DBCA)

The Brush-tailed Mulgara is distributed widely across inland Australia with a population that fluctuates somewhat in response to seasonal conditions, although is probably substantially greater than 10,000 individuals even at its lowest point (Woinarski et al., 2014). Brush-tailed Mulgara habitat is bounded broadly by the Tanami Desert in the north, the Simpson Desert in the east, the Great Victoria Desert in the south and the Carnarvon, Murchison and Pilbara IBRA regions in the west (Woinarski et al., 2014). It is associated with hummock spinifex grasslands, but also uses other vegetation types (often sandplains, grasslands and woodlands) when mixed with or adjacent to hummock grasslands. It is mainly nocturnal and shelters during the day in burrow systems. Brush-tailed Mulgara burrows typically contain between two and nine entrances, tunnels are mostly on a single level and to a depth of about 300 mm (Thompson & Thompson, 2007). The diet of the Brush-tailed Mulgara comprises a broad range of invertebrates and small vertebrates (Woinarski et al., 2014).

The Brush-tailed Mulgara was previously recorded in the Low *Acacia stellaticeps* over Triodia habitat within the Survey Area (DBCA, 2023), which is the preferred habitat of the taxa. These records are concentrated to the western portion of the Survey Area, however, 83% of the Survey Area consists of Low *Acacia stellaticeps* over Triodia & Mixed Acacia Shrubs and Triodia Plains habitats, which indicates the species may be able to persist throughout the majority of the Survey Area.

Other Previously Recorded Species

There are three historical (1981) records of Marsh Sandpiper (*Tringa stagnatilis*), Rednecked Phalarope (*Phalaropus lobatus*), and Sanderling (*Calidris alba*) within the Survey Area (DBCA, 2023). All three records are associated with vouchered specimens by the Western Australian Museum and have the same coordinate.

The records of the three taxa are located in the Mixed Acacia Shrubs and Triodia Plains habitat, which is not the typical habitat preferred by these taxa (Menkhorst et al., 2019; Pizzey & Knight, 2013). Therefore, considering the age of the records, it is reasonable to assume the coordinates are inaccurate, and the specimens were likely vouched north of the Survey Area near the coast, where most of the recent records of these species are located.

The Sanderling (*Calidris alba*) seldomly ventures away from the coast (Menkhorst et al., 2019; Pizzey & Knight, 2013), but the Marsh Sandpiper (*Tringa stagnatilis*) and the Red-necked Phalarope (*Phalaropus lobatus*) are able to utilize freshwater wetland habitat (Menkhorst et al., 2019; Pizzey & Knight, 2013). Considering there are tidal flats < 10 km to the north of the Survey Area, and major drainage habitat connecting these tidal flats to the Survey Area, it is possible for these species occupy the Survey Area after significant rain events. However, if we consider the records inside the Survey Area to be inaccurate, then their adjusted likelihood would be Low, as there are minimal recent or nearby records and limited suitable habitat.

5.2.2.3 High likelihood of occurrence within the Survey Area

Grey Falcon (Falco hypoleucos) – VU (BC Act); VU (EPBC Act)

The Grey Falcon is an elusive and endemic bird of the arid interior (Schoenjahn et al., 2019). It distributed sparsely over Australia's arid and semi-arid zones and is absent from Cape York Peninsula, south of the Great Dividing Range in Victoria, and south of 26°S in Western Australia (BirdLife International, 2016a; Johnstone & Storr, 2004). The Grey Falcon is restricted largely to areas of the highest annual average temperatures where there is average annual rainfall of less than 500 mm. It favours lightly timbered and untimbered lowland plains that are crossed by tree-lined watercourses, but frequents other habitats, including grassland and sand dune habitats (BirdLife International, 2016a; Johnstone & Storr, 2004).

The Survey Area has three Major Drainage habitats with eucalypt trees along the riverbanks, which constitute suitable nesting habitat for the Grey Falcon. The plains surrounding Major Drainage habitats are likely to be utilised by this taxon for hunting.

Ghost Bat (Macroderma gigas) – VU (BC Act); VU (EPBC Act)

The Ghost Bat is patchily distributed in small colonies in three areas of northern Australia, including the Pilbara and Kimberley in WA, the Northern Territory, and the northeast of QLD. The species requires undisturbed roost caves or mineshafts, usually complex systems with several openings (Van Dyck & Strahan, 2008). The species eats large insects, geckoes, frogs, small birds, and mammals including other bats. The kills are made on the ground or in the air and then taken to a feeding perch, which is usually a rocky overhang or small cave (Van Dyck & Strahan, 2008). The presence of other bat species in the Survey Area indicates that there are suitable roosting caves for Ghost bat in the vicinity of the Survey Area. Ghost Bat also predate heavily on other bat species, particularly Pilbara Leaf-nosed Bat, which were recorded during the field survey. The Major and Minor Drainage habitats constitute moderate value habitat as the taxon may use these habitats for foraging and dispersal.

Pilbara Olive Python (Liasis olivacea barroni) - VU (BC Act); VU (EPBC Act)

The Olive Python occurs in the ranges of the Pilbara, typically in escarpments and gorges where water is present. It generally shelters under rock piles, or under spinifex and often basks on top of rocks (Pearson, 1993, 2003). This large python is threatened due to its relatively small distribution, low population densities and may be affected by habitat disturbance such as grazing and fire. This species is known to frequent water bodies where it ambushes prey (Pearson, 1993). During a systematic survey of a large series of quadrats in the Pilbara, the Olive Python was only recorded in one quadrat (Doughty et al., 2011). This species is extremely cryptic given its method of hunting and nocturnality.

The Pilbara Olive Python was recorded frequently and recently throughout the Desktop Study Area. Preferred habitat is not present within the Survey Area; however, several water source occur throughout the desktop study area which have recorded the species that are linked to the Survey Area. The taxon is likely to use Outcrops and Breakaways habitats for dispersal and the Major and Minor Drainages provide supporting habitat.

Common Greenshank (Tringa nebularia) – MI (BC Act); MI, MA (EPBC Act)

The Common Greenshank is a migratory species to Australia that typically breeds in the boreal forest zone from sea level to 1,200 m in Norway (BirdLife International, 2016b). Common Greenshanks are present in the North-west Marine Region in internationally significant numbers, with approximately 1% of the flyway population visiting Ashmore Reef between September and March (Bamford et al., 2008). The species is found in coastal areas, riverbanks and coastal to freshwater wetlands, where it wades in shallow water foraging for prey, often lunging or probing for fish and invertebrates (BirdLife International, 2016b; Menkhorst et al., 2017; Pizzey & Knight, 2001). It is generally absent from the Western Deserts although there are a few records from the Great Sandy Desert and the Nullarbor Plain. It occurs around most of the coast from Cape Arid in the south to Carnarvon in the north-west. In the Kimberley it is recorded in the south-west and the north-east (Pizzey & Knight, 2001).

The Common Greenshank has been recorded frequently and recently within the Desktop Study Area and likely occurs within the Survey Area. Within the Survey Area, the Mixed Acacia Shrubs and Triodia Plains, and Sparse Triodia Plains habitats constitute supporting habitat for the Common Greenshank as they may become flooded after significant rain events. The taxon is likely to be transient within the Survey Area and, if present, will occur within the Survey Area between August and March.

Barn Swallow (Hirundo rustica) - MI (BC Act); MI, MA (EPBC Act)

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

The Barn Swallow has been recorded frequently within the Desktop Study Area and likely occurs within the Survey Area. Within the Survey Area, the Major and Minor Drainage habitats constitute supporting habitat for the Barn Swallow because of their value for roosting, foraging, and dispersal. The taxon is likely to be transient within the Survey Area and, if present, will occur within the Survey Area between Spring and Summer.

Little Curlew (Numenius minutus) - MI (BC Act); MI, MA (EPBC Act)

The Little Curlew is the smallest curlew, and generally spend the non-breeding season in northern Australia from Port Hedland in Western Australia to the Queensland coast. The Little Curlew is most often found feeding in short, dry grassland and sedgeland, including dry floodplains and blacksoil plains, which have scattered, shallow freshwater pools or areas seasonally inundated. Open woodlands with a grassy or burnt understorey, dry saltmarshes, coastal swamps, mudflats or sandflats of estuaries or beaches on sheltered coasts, mown lawns, gardens, recreational areas, ovals, racecourses and verges of roads, and airstrips are also used. Foraging sites are usually within 5 km of daytime roosting sites, as birds move between grassland and wetland, most feeding in drier grassland occurring during the first few hours after dawn and the late afternoon (DAWE, 2022).

The Little Curlew has been recorded frequently and recently within the Desktop Study Area and likely occurs within the Survey Area. Within the Survey Area, the Mixed Acacia Shrubs and Triodia Plains, and Sparse Triodia Plains habitats constitute supporting habitat for the Little Curlew as they may become flooded after significant rain events. The taxon is likely to be transient within the Survey Area and, if present, will occur within the Survey Area between October and April.

Oriental Plover (Charadrius veredus) - MI (BC Act); MI, MA (EPBC Act)

The Oriental Plover typically prefers grasslands and thinly vegetated plains, and open areas such as recently burnt country and heavily grazed pastures. During the hottest times of the day large flocks can be found on areas of wet ground associated with wetlands (Menkhorst et al., 2017). As this species breeds in China and Mongolia, the Survey Area would be used for foraging only.

The Oriental Plover has been recorded recently within the Desktop Study Area and likely occurs within the Survey Area. Within the Survey Area, the Mixed Acacia Shrubs and Triodia Plains, and Sparse Triodia Plains habitats constitute supporting habitat for the Oriental Plover as they may become flooded after significant rain events. The taxon is likely to be transient within the Survey Area during these flooding events and, if present, will occur within the Survey Area between mid-September and April.

Osprey (Pandion haliaetus) – MI (DBCA); MI, MA (EPBC Act)

The Osprey is considered to be moderately common in Australia (P. Olsen, 1998). The species is most abundant in northern Australia, where high population densities occur in remote areas (Johnstone & Storr, 1998). They require extensive areas of open fresh, brackish, or saline water for foraging (Marchant and Higgins, 1993). They are mostly found in coastal areas but occasionally travel inland along major rivers, particularly in northern Australia (Johnstone & Storr, 1998; P. Olsen, 1998). They frequent a variety of wetland habitats including inshore waters, reefs, bays, coastal cliffs, beaches, estuaries, mangrove swamps, broad rivers, reservoirs and large lakes and waterholes (Johnstone & Storr, 1998).

The Osprey has been recorded recently within the Desktop Study Area and is likely to occur within the Survey Area. Within the Survey Area, the Major and Minor Drainage habitats constitute critical habitat for the Osprey because of their value for hunting and dispersal. The taxon is likely to be transient within the Survey Area during flooding events.

Peregrine Falcon (Falco peregrinus) – OS (DBCA)

The Peregrine Falcon is an uncommon but wide-ranging bird across Australia (Barrett et al., 2003). It occurs mainly along rivers and ranges as well as wooded watercourses and lakes. It nests primarily on cliffs, granite outcrops and quarries, although is also known to occupy existing raptor and corvid stick nests (Menkhorst et al., 2019). The diet of the Peregrine Falcon has been well studied and primarily includes flocking species such as parrots, pigeons and on the east coast, European Starlings (J. Olsen & Fuentes, 2008).

Peregrine Falcon was not observed during the survey; however, this species has been previously recorded twice within 3 km of the Survey Area in recent years (DBCA, 2023). In the absence of cliff ledges, Peregrine Falcons will use trees for nesting (Morcombe & Stewart, 2013). The Open Eucalypt Woodland habitat within the Survey Area and surrounds may provide suitable nesting and hunting habitat to support this species.

5.2.2.4 Medium likelihood of occurrence within the Survey Area

Glossy Ibis (Plegadis falcinellus) - MI (BC Act); MI, MA (EPBC Act)

The preferred foraging and breeding habitat of the Glossy Ibis includes freshwater marshes at the edges of lakes and rivers, lagoons, floodplains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and cultivated areas under irrigation (del Hoyo et al., 1992; Marchant & Higgins, 1990). The Glossy Ibis builds a platform nest of sticks in trees or shrubs above water and typically nests in colonies (Pizzey & Knight, 2013). The distribution of the Glossy Ibis is generally east of the Kimberley in Western Australia and Eyre Peninsula in South Australia. The species is also known to be patchily distributed in the rest of Western Australia (DEE, 2020).

The Glossy Ibis has been recorded within the Desktop Study Area and may occur within the Survey Area. Within the Survey Area, there are several habitats which may flood during significant rain events and provide suitable habitat for the Glossy Ibis. The taxon may be transient within the Survey Area during these flooding events.

Pacific Swift/Fork-tailed Swift (Apus pacificus) – MI (BC Act); MI, MA (EPBC Act)

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

The Pacific Swift has been recorded within the Desktop Study Area and may occur within the Survey Area. Within the Survey Area, all habitats within the Survey Area may be utilised for foraging and dispersal.

Pilbara Grasswren (*Amytornis whitei whitei*) – P4 (as *Amytornis striatus striatus*, DBCA)

Restricted to spinifex associations on rocky slopes and ridges, with or without shrubs or light tree cover, preferring areas with tall dense spinifex hummocks (Menkhorst et al., 2019). Its distribution across the ironstone Chichester, Hamersley, Ophthalmia and Parry Ranges is bisected by the Fortescue River, with an outlying population south of the Ashburton River in the Barlee Range. It is widely but patchily distributed and generally uncommon (Johnstone et al., 2013; Johnstone & Storr, 2004).

The Pilbara Grasswren has been recorded within the Desktop Study Area and may occur within the Survey Area. Within the Survey Area, the Sparse Triodia Plains and Stony Hills habitats constitute critical habitat for the Pilbara Grasswren because of their value for foraging and shelter.

Short-tailed Mouse (Leggadina lakedownensis) – P4 (DBCA)

The Short-tailed Mouse has a broad distribution across much of northern Australia and occurs in a range of habitat types. This includes spinifex and Acacia on seasonally inundated sandy-clay soils as well as sandy soils and cracking clays to build burrows which they shelter in during the day (Van Dyck & Strahan, 2008). In the Pilbara it occurs on stony hummock grassland. It is generally rare, with scattered populations, and very little is known of its biology (Van Dyck & Strahan, 2008).

The Short-tailed Mouse has been recorded within the Desktop Study Area and may occur within the Survey Area. Within the Survey Area, the Sparse Triodia Plains and Stony Hills habitats constitute critical habitat for the Short-tailed Mouse because of their value for foraging and shelter.

Other species with medium likelihood of occurrence within the Survey Area

There were an additional 20 shorebird species that were considered to have a medium likelihood of occurrence due to the proximity of historic records and the limited suitable habitats within the Survey Area. As there are suitable tidal flats < 10 km north of the Survey Area, and there are drainage habitats that connect these flats to the Survey Area, there presents an opportunity for these species to occur within the Survey Area after significant rain events that would flood these habitats.

6.0 Conclusion

Flora and Vegetation

- No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened/Declared Rare Flora pursuant to the BC Act 2016 were recorded during the survey.
- Two DBCA listed Priority flora are considered to have been recorded; *Tephrosia rosea* subsp. Port Hedland (A.S. George 1114) (P1) and *Gymnanthera cunninghamii* (P3).
- Eight introduced species were recorded during the survey, including **Calotropis procera* which is listed by the State Department of Primary Industries and Regional Development as a Declared Pest.
- Fourteen vegetation types were mapped within the Survey Area, one of which likely represents GDEs. Vegetation condition throughout the Survey Area was largely in Very Good condition, with drainages and some low-lying floodplain areas in Good to Degraded condition, primarily due to Buffel Grass (**Cenchrus ciliaris*) and livestock/pastoralism.
- No TECs or PECs were recorded within the Survey Area.

Vertebrate Fauna

- Nine fauna habitats were mapped within the Survey Area, of which the Low Acacia stellaticeps over Triodia, Mixed Acacia Shrubs and Triodia Plains, Outcrops and Breakaways, and Stony Hills habitats represent the most value to fauna assemblages overall.
- Two significant fauna species were recorded during the fauna survey.
- Seven significant fauna species were previously recorded within the Survey Area.
- Nine significant fauna species had a high likelihood of occurrence, 24 had a medium likelihood of occurrence, and 33 species had a low likelihood of occurrence.
- Three introduced species were recorded during the survey, European Cattle (**Bos primigenius taurus*), Cat (**Felis catus*), and Domestic Pigeon/Rock Dove (*Columba livia*).

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Appendix A Maps

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024





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Project Number :072189 Date Drawn : 4/07/2024 Drawn By : Environmaps Reviewed By : GB

Hydrography MAP 4

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Horizon Power Atlas Ridley Magnetite Project Connection Flora and Fauna Survey Technical Report

> ESAs and Conservation Areas MAP 6

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Flora and Fauna Survey Technical Report

Significant Flora and Ecological Community Database Search Results MAP 7



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Survey Effort

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Flora and Fauna Survey Technical Report

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Atlas Ridley Magnetite Project Connection Flora and Fauna Survey Technical Report

> Survey Effort MAP 08d

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Flora and Fauna Survey Technical Report Survey Effort

MAP 08g

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Vegetation Types and Significant Flora in the Survey Area MAP 09a

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Vegetation Types and Significant Flora in the Survey Area

MAP 09b

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Vegetation Types and Significant Flora in the Survey Area

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Flora and Fauna Survey Technical Report Vegetation Types and Significant Flora in the Survey Area

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Flora and Fauna Survey Technical Report

Vegetation Types and Significant Flora in the Survey Area MAP 09f

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Vegetation Condition and Introduced Flora Records MAP 10a

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Introduced Flora Records MAP 10c

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Introduced Flora Records MAP 10d

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Vegetation Condition and Introduced Flora Records MAP 10e

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Flora and Fauna Survey Technical Report

Vegetation Condition and Introduced Flora Records MAP 10f

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Flora and Fauna Survey Technical Report

Vegetation Condition and Introduced Flora Records MAP 10g

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Horizon Power Atlas Ridley Magnetite Project Connection Flora and Fauna Survey Technical Report

> Significant Fauna Database Search Results MAP 11

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Fauna Habitat and Significant Fauna Records MAP 12a

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Horizon Power Atlas Ridley Magnetite Project Connection Flora and Fauna Survey Technical Report

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Fauna Habitat and Significant Fauna Records MAP 12b

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Fauna Habitat and Significant Fauna Records MAP 12c

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Flora and Fauna Survey Technical Report

Fauna Habitat and Significant Fauna Records MAP 12d

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Fauna Habitat and Significant Fauna Records MAP 12e

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Horizon Power Atlas Ridley Magnetite Project Connection Flora and Fauna Survey Technical Report

> Fauna Habitat and Significant Fauna Records MAP 12f

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> Fauna Habitat and Significant Fauna Records MAP 12g

> > s\072189_M12g Fauna Habits



Appendix B Literature Review Summary

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001



Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Detailed Flora and Vegetation Assessment, Ridley Magnetite Project (Focused Vision 2023)	Assessment intersects the current survey area	May, June, July 2022, and June, August 2023	Detailed flora and vegetation assessment	Presence of the Eighty Mile Land System PEC (P3)	 Atriplex eremitis (P1) Tephrosia rosea var. Port Hedland (A.S. George 1114) (P1) Euphorbia inappendiculata var. queenslandica (P2) Rothia indica subsp. australis (P3) 	 *Calotropis procera *Parkinsonia aculeata
De Grey South Borefield Biological Surveys (SLR Consulting, 2023),	10 km east of the Survey Area.	July 2023	Detailed flora and basic fauna vegetation assessment	None recorded	None recorded	 *Calotropis procera *Cenchrus ciliaris *Cenchrus setiger *Chloris barbata *Vachellia farnesiana
Flora and Vegetation Assessment, Port Hedland Regional (ENV Australia 2011)	Directly west of the current survey area	April – May 2011, June – July 2011	Detailed flora and vegetation assessment	None recorded	 Abutilon sp. Pritzelianum (S. van Leeuwen 5095) (P3) Euploca muticum (P3) Tephrosia rosea var. Port Headland (A.S. George 1114) Gomphrena pusilla (P2) 	 *Aerva javinica *Cenchrus ciliaris *Citrulus colocynthis *Cucumis melo subsp. agrestis *Eragrostis curvula *Flaveria trinerva *Indigofera sessiliflora *Physalis angulate *Portulaca oleracea *Stylosanthes hamata Vaccaria hispanica *Vachellia farnesiana
Flora and Vegetation Assessment, Corunna Downs Intersection Works (Woodman Environmental 2017)	Approximately 90 km southeast of the survey area	April 2017	Reconnaissance Flora and Vegetation Survey	None recorded	None recorded	 *Aerva javanica *Cenchrus ciliaris

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Corunna Downs Project, Level 2 Flora and Vegetation Assessment (Woodman Environmental 2016)	Approximately 90 km southeast of the survey area	March – April 2014, April – May 2014, and May 2016	Detailed Flora and Vegetation Survey	None recorded	 Cochlospermum macnamarae (P1) Rothia indica subsp. australis (P3) Schoenus coultasii (P1) Stylidium weeliwolli (P3) Acacia levata (P3) Eragrostis crateriformis (P3) Heliotropium murinum (P3) Nicotiana umbratical(P3) Rostellularia adscendens var. latifolia (P3) Swainsona thompsoniana (P3) Ptilotus mollis (P4) 	 *Aerva javanica *Argemone ochrileuca subsp. ochroleuca *Calotropis procera *Cenchrus ciliaris *Cenchrus setiger *Chloris barbata *Cynodon dactylon *Echonochloa colona *Flaveria trinerva *Malvastrum Americanum *Passiflora foetida var. hispida *Sotaria verticillata *Sonchus oleraceus *Tribulus terrestris *Vachellia farnesiana
Wodgina Gas Pipeline, Detailed Flora and Vegetation Survey (360 Environmental 2018)	Approximately 30 km southeast of the survey area	June 2018	Detailed Flora and Vegetation Survey	None recorded	• Euphorbia clementii (P3)	 *Aerva javanica *Malvastrum americanum *Cenchrus ciliaris
Roy Hill Port Facility Power Line Port Hedland, Ecological Assessment (GHD 2016)	Approximately 15 km north of the survey area	June 2016	Reconnaissance Flora and Vegetation Survey	None recorded	None recorded	 *Aerva javanica *Cenchrus ciliaris
Flora and Fauna survey Port Hedland International Airport – Highway Precinct	Approximately 10 km north of the survey area	November 2018	Reconnaissance Flora and Vegetation Survey	None recorded	Gomphrena leptophylla (P3)	 *Washingtonia filifera *Aerva javanica *Calatropis procera *Cenchrus ciliaris

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
2 (Emerge Associates 2019)						Cencinus seuger
Flora and Vegetation Reconnaissance Survey of Spoilbank Marina Project Area (Strategen-JBS&G 2020)	Approximately 15 km north of the survey area		Reconnaissance Flora and Vegetation Survey	None recorded	None recorded	 *Aerva javanica *Calatropis procera *Cenchrus ciliaris *Spathodea campanulate *Stylosanthes hamata *Tamarix aphylla

ID	Report	Project Area	Survey Timing	Survey Effort	S	Dignificant Fauna Recorded Onsite	Fauna Habitats
Lit A	Ridley Detailed Terrestrial Vertebrate Fauna Survey (Biota, 2024)	Overlaps with the eastern section of the Survey Area	June 2022 – June 2023	Detailed fauna survey	•	Far Eastern Curlew (<i>Numenius</i> madagascariensis) – CR (BC Act & EPBC); MI (EPBC Act) Northern Quoll (<i>Dasyurus</i> hallucatus) – EN (BC & EPBC Act) Pilbara Leaf-nosed Bat (<i>Rhinonicteris aurantia</i> Pilbara form) – VU (BC & EPBC Act) Ghost Bat (<i>Macroderma</i> gigas) – VU (BC & EPBC Act) Pilbara Olive Python (<i>Liasis</i> olivaceus barroni) – VU (BC & EPBC Act) Brush-tailed Mulgara (<i>Dasycercus blythi</i>) – P4 (DBCA) Western Pebble-mound Mouse (<i>Pseudomys</i> chapmani) – P4 (DBCA) Pacific Swift (<i>Apus</i> pacificus) – MI (BC & EPBC) Australian Tern (<i>Gelochelidon macrotarsa</i>) – Mi (BC & EPBC Act) Peregrine Falcon (<i>Falco</i> peregrinus) – OS (BC Act)	 Seven fauna habitats were identified: Acacia shrubland over spinifex sandplain Rocky hills Major drainage line Spinifex and saltbush flat Medium drainage line Tussock grassland Cleared areas

ID	Report	Project Area	Survey Timing	Survey Effort	Significant Fauna Recorded Fauna Habitats Onsite
Lit B	Ridley Services Corridors Basic and Targeted Fauna Survey (Biota, 2023)	Overlaps the Survey Area	June 2023	Basic and Targeted fauna survey	 Bar-tailed Godwit (<i>Limosa lapponica</i>) – CR (BC Act & EPBC Act); MI (EPBC Act) Northern Quoll (<i>Dasyurus hallucatus</i>) – EN (BC & EPBC Act) Brush-tailed Mulgara (<i>Dasycercus blythi</i>) – P4 (DBCA) Western Pebble-mound Mouse (<i>Pseudomys chapmani</i>) – P4 (DBCA) Western Pebble-mound (BC & EPBC Act) Eurasian Whimbrel (<i>Numenius phaeopus</i>) – MI (BC & EPBC Act) Sanderling (<i>Calidris alba</i>) – MI (BC & EPBC Act) Australian Tern (<i>Gelochelidon macrotarsa</i>) – MI (BC & EPBC Act) Common Gull-billed Tern (<i>Gelochelidon milotica</i>) – MI (BC & EPBC Act) Greater Crested Tern (<i>Thalasseus bergii</i>) – MI (BC & EPBC Act) Little Tern (<i>Sternula albifrons</i>) – MI (BC & EPBC Act) Little Tern (<i>Sternula albifrons</i>) – MI (BC & EPBC Act)

ID	Report	Project Area	Survey Timing	Survey Effort		Significant Fauna Recorded Onsite	Fauna Habitats
Lit C	Detailed terrestrial fauna and targeted Bilby survey for the Port Hedland Solar Farm Project (Pheonix Environmental, 2022)	Overlaps the western section of the Survey Area	March – October, 2021	Detailed fauna, Targeted Bilby, and SRE survey	•	Bilby (<i>Macrotis lagotis</i>) – VU (BC Act & EPBC Act) Brush-tailed Mulgara (Dasycercus blythi) – P4 (DBCA)	Eleven fauna habitats were identified: Beach/Dune Tidal Flats Mangroves Riverine Sandplain Billabong Low Hill Granite Tor/Isolated Rockpile Quartz Hill Ocean Disturbed
Lit D	Wodgina Gas Pipeline targeted Fauna Survey (360 Environmental Pty Ltd, 2018)	Approx. 20 km southwest of the Survey Area	June 2018	Targeted fauna survey	•	Bilby (<i>Macrotis lagotis</i>) – VU (BC Act & EPBC Act) Pilbara Leaf-nosed Bat (<i>Rhinonicteris aurantia</i> Pilbara form) – VU (BC Act & EPBC Act)	 Five fauna habitats were identified: Grassland Low woodland Low-lying habitat Major drainage lines
Lit E	Wodgina Project: Level 1 Fauna Survey, Targeted Conservation Significant Fauna Survey and Desktop Assessment (Stantec Australia Pty Ltd, 2018)	Approx 80 km south of the Survey Area	July 2018	Basic Fauna Survey Targeted Fauna Survey	•	Northern Quoll (<i>Dasyurus</i> <i>hallucatus</i>) – EN (BC Act & EPBC Act) Pilbara Leaf-nosed Bat (<i>Rhinonicteris aurantia</i> Pilbara form) – VU (BC Act & EPBC Act)	 Six fauna habitats were identified: Ironstone ridge top Rocky ridge and gorge Rocky foothills Stony Rise Spinifex stony plain Drainage line

ID	Report	Project Area	Survey Timing	Survey Effort	Significant Fauna Recorded Fauna Habitats Onsite
					 Ghost Bat (<i>Macroderma</i> gigas) – VU (BC Act & EPBC Act) Western Pebble-mound Mouse (<i>Pseudomys</i> chapmani) – P4 (BC Act)
Lit F	Pardoo Stage 3 Irrigation Project and 80 Mile Beach Ramsar Site Fauna Assessment (Bamford Consulting Ecologists, 2017b)	Approx. 100 km east of Survey Area	12 -14 July 2016, 18 - 21 Sept 2017	Basic fauna survey Targeted fauna survey	 Fork-tailed Swift (Apus pacificus) - MI (BC Act), MI & MA (EPBC Act) Oriental Plover (Charadrius veredus) - MI (BC Act), MI & MA (EPBC Act) Brush-tailed Mulgara (Dasycercus blythi) – P4 (DBCA) Bilby (Macrotis lagotis) – VU (BC Act & EPBC Act) Six fauna habitats were identified: Pindan shrublands Coastal plain thickets and shrublands Coastal plain grasslands and low shrublands Salt pans Low limestone ridges Completely degraded area associated with agricultural structures.
Lit G	Assessment of the Bilby Macrotis lagotis Pardoo Station; Stage 2 areas (Bamford Consulting Ecologists, 2017a)	Approx. 100 km east of Survey Area	28 - 30 June 2017	Targeted fauna survey	 Bilby (<i>Macrotis lagotis</i>) – VU (BC Act & EPBC Act) One fauna habitat was identified: Pindan shrublands
Lit H	Supplementary Flora and Vegetation Survey and Terrestrial Fauna Survey for the Balla Balla Infrastructure Group Ltd (Phoenix Environmental, 2018)	Approx 100 km west of the Survey Area	June 2017	Basic Fauna Survey Targeted Fauna Survey	 Northern Quoll (Dasyurus hallucatus) – EN (BC Act & EPBC Act) Bilby (Macrotis lagotis) – VU (BC Act & EPBC Act) Minor creek and drainage line Open and closed shrubland Rocky hill slope

ID	Report	Project Area	Survey Timing	Survey Effort		Significant Fauna Recorded Onsite	Fauna Habitats
							WoodlandGullySandplain
Lit I	Assessment of the Bilby Macrotis lagotis Pardoo Station; Stage 2 and 3 project areas (Bamford Consulting Ecologists, 2016)	Approx. 100 km east of Survey Area	12 - 14 July 2016	Targeted fauna survey	•	Brush-Tailed Mulgara (<i>Dasycercus blythi</i>) – P4 (BC Act)	One fauna habitat was identified: • Pindan shrublands
Lit J	Terrestrial Fauna Surveys for the Balla Balla Railway Project (Phoenix Environmental, 2014)	Approx 100 km west of the Survey Area	June – July 2014	Targeted Fauna Survey	•	Northern Quoll (Dasyurus hallucatus) – EN (BC Act & EPBC Act) Western Pebble-mound mouse (Pseudomys chapmani) – P4 (BC Act))	Eight fauna habitats were identified: • Hummock and tussock grassland • Open and closed shrubland • Rocky hill slope • Minor creek and drainage line • Woodland • Gully • Isolated sand dunes

Appendix C Flora Desktop Assessment Results and Likelihood of Occurrence

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Summary of results of the database searches (numbers represent counts of records within 50 km of the Survey Area).

Taxon	NatureMap	TPFL [^]	WAH⁺
Т			
Quoya zonalis		71	22
P1			
Acacia cyperophylla var. omearana			1
Acacia leeuweniana		1	7
Atriplex eremitis	\checkmark	1	1
Corchorus sp. Yarrie (J. Bull & D. Roberts CAL 01.05)			3
Euploca parviantrum	\checkmark		1
Tephrosia rosea var. Port Hedland (A.S. George 1114)	\checkmark		27
Themeda sp. Panorama (J. Nelson et al. NS 102)			3
Triodia degreyensis			1
Triodia sp. De Grey River (M.D. Barrett & B.M. Anderson			1
MDB 4432)			
P2			
Euphorbia inappendiculata var. inappendiculata			3
Gomphrena pusilla	\checkmark		5
Р3			
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	\checkmark	1	37
Acacia levata		1	2
Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP			1
1479)			
Eragrostis crateriformis	✓	2	22
Euphorbia clementii	✓	5	25
Euploca mutica	✓		71
Gomphrena cucullata	✓	1	1
Gomphrena leptophylla	\checkmark		2
Goodenia obscurata			1
Gymnanthera cunninghamii	\checkmark	2	12
Heliotropium murinum			3
Indigofera ammobia		1	1
Nicotiana umbratica			7
Phyllanthus hebecarpus			4
Rothia indica subsp. australis	\checkmark		14
Stylidium weeliwolli			2
Terminalia supranitifolia			5
Triodia basitricha			3
Triodia chichesterensis	\checkmark		28
Vigna triodiophila			5
P4			
Bulbostylis burbidgeae	\checkmark	2	17
Ptilotus mollis	\checkmark		4

[^]Department of Biodiversity Conservation and Attractions. (2024e). Threatened and Priority Flora List (TPFL) database request (custom search). ⁺Department of Biodiversity Conservation and Attractions. (2024f). Western Australia Herbarium Flora Database (custom search).

Community*	TEC/PEC
P3	
Eighty Mile Land System	15
Gregory Land System	21
Horseflat Land System of the Roebourne Plains	3

*Department of Biodiversity Conservation and Attractions. (2024c). Threatened and Priority Ecological Communities database request (custom search).

Appendix C: Assessment of the Likelihood of Occurrence of Threatened and Priority Flora as per Desktop Assessment Database Searches surrounding the Survey Area

Distance to Nearest Record from the Survey Area Survey Area, and Low = No suitable habitat prese Vulnerable under the EBPC Act. T = Threatened u gained from the survey effort during ground truthing	a is based on a ent and/or recon under the BC A ng. 1: Departm	distance analysi ds greater than ct, P = Priority Li ent of Biodiversi	is undertaken aga 40 km from the Su isted, Ranked and ity, Conservation a	inst 2024 DBCA Irvey Area, Unk I Listed by the D and Attractions	database. High nown = Insuffici BCA. Likelihood (2024). FloraBa	n = Suitable habita ent information av ds are assessed b se - TheWestern	at present and re vailable to classif both pre and pos Australian Flora.	cords less than 20 km from the Survey Area, Medium = Suitable y. CR= Listed as Critically Endangered under the EPBC Act, EN t survey based on knowledge of the Survey Area, nearest known https://forabase.dpaw.wa.gov.au/	habitat present and records I = Listed as Endangered ut records, known flowering p	between 20 km and nder the EBPC Act, ^v eriod of flora taxa ar	40 km from the /U = listed as id knowledge
Snacias	Conservation Status		Source			Distance to	Flowering		Pre-Survey Likelihood	Habitat Occurs	Post-Survey
uperies	DBCA	EPBC	NatureMap	PMST	DBCA	Record (km)	Period		of Occurrence	in Survey Area?	Occurrence
Threatened											
Quoya zonalis	Т	EN			х	77.53	Aug	Rocky ironstone or granite or conglomerate steep hill slopes. ¹	Low	No	Low
Priority 1											
Acacia cyperophylla var. omearana	P1				х	73.40	Mar - Apr	Stony and gritty alluvium. Along drainage lines. ¹	Low	No	Low
Acacia leeuweniana	P1				х	91.78	Apr - May	Gritty, skeletal red-grey sandy loam, light orange-brown gravelly sand, granite. In rock fissures in outcrops, among boulders. ¹	Low	No	Low
Atriplex eremitis	P1		x		х	18.78	Aug	Tussock grassland associated with <i>Eragrostis xerophila</i> and the introduced <i>Cenchrus ciliaris</i> occurring as a component of a sub-unit of the Anna land system composed of level sand plains and a mosaic of saline plains. ¹	Low	No	Low
Corchorus sp. Yarrie (J. Bull & D. Roberts CAL 01.05)	P1				х	61.34	Jun	Drainage line, ironstone, loamy soil.1	Low	Yes	Low
Euploca parviantrum	P1		х		х	6.87	-	Sandy soils. Flats, plains, rocky slopes. ¹	High	Yes	Medium
<i>Tephrosia rosea</i> var. Port Hedland (A.S. George 1114)	P1		х		х	3.83	Jul - Sep	Pale red/yellow/brown sand. Sand plains. ¹	High	Yes	Recorded
<i>Themeda</i> sp. Panorama (J. Nelson et al. NS 102)	P1				х	85.41	-	Skeletal soils, red clay loam. Rock gullies, steep rocky slopes, high in the landscape. ¹	Low	No	Low
Triodia degreyensis	P1				х	6.18	-	Skeletal soils, ironstone outcropping. ¹	Low	Yes	Low
						Prio	rity 2				
Euphorbia inappendiculata var. inappendiculata	P2				х	60.93	May, Aug	Red, brown clay or loam. Plains. ¹	Low	Yes	Medium
Gomphrena pusilla	P2		х		х	8.05	Mar - Apr	Fine beach sand. Behind foredune, on limestone. ¹	Low	No	Low
						Prio	rity 3				

Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	P3	Х	х	3.03	Jun, Aug - Sep	Sandy plains. ¹	High	Yes	Medium
Acacia levata	P3		х	98.73	Мау	Sand or sandy loam over granite. Hillslopes. ¹	Low	Yes	Low
<i>Dolichocarpa</i> sp. Hamersley Station (A.A. Mitchell PRP 1479)	P3		х	72.70	May - Jul or Sep	Brown sandy clay, or medium clay. Claypans, drainage lines, cracking clays, crabhole plains. ¹	Low	No	Low
Eragrostis crateriformis	P3	х	х	0.15	Jan - May or Jul	Clayey loam or clay. Creek banks, depressions. ¹	High	Yes	High
Euphorbia clementii	P3	х	х	6.19	Jun	Gravelly hillsides, stony grounds.1	High	Yes	Medium
Euploca mutica	P3	х	х	0.08	Aug	Flat sand plains. ¹	High	Yes	High
Gomphrena cucullata	P3	х	х	47.87	Feb - Apr	Red sandy loam, clayey sand. Open floodplains. ¹	Low	Yes	Low
Gomphrena leptophylla	P3	х	х	6.31	Mar - Sep	Sand, sandy to clayey loam, granite, quartzite. Open flats, sandy creek beds, edges salt pans and marshes, stony hillsides. ¹	High	No	Low
Goodenia obscurata	P3		х	75.95	-	Stony soils on hills. ¹	Low	Yes	Low
Gymnanthera cunninghamii	P3	х	х	6.87	Jan - Dec	Sandy soils. ¹	High	Yes	Recorded
Heliotropium murinum	P3		х	55.50	May or Sep	Red sand. Plains. ¹	Low	Yes	Low
Indigofera ammobia	P3		х	94.15	Sep	Red sand. Sand dunes. ¹	Low	No	Low
Nicotiana umbratica	P3		х	72.04	Apr - Jun	Shallow soils. Rocky outcrops. ¹	Low	Yes	Low
Phyllanthus hebecarpus	P3		х	86.93		Granite boulders, granite outcrop, rock land, slopes. ¹	Low	Yes	Low
Rothia indica subsp. australis	P3	х	х	Occurs within survey boundary	Apr - Aug	Sandy soils. Sandhills and sandy flats. ¹	High	Yes	Medium
Stylidium weeliwolli	P3		х	53.32	Aug - Sep	Gritty sand soil, sandy clay. Edge of watercourses. ¹	Low	Yes	Low
Terminalia supranitifolia	P3		х	76.29	May or Jul or Dec	Sand. Among basalt rocks. Hill tops. ¹	Low	No	Low
Triodia basitricha	P3		х	77.78	-	Stony ground, gravelly hill, crests, hills, in gorges. ¹	Low	Yes	Low
Triodia chichesterensis	P3	 Х	Х	9.67	Feb - Apr, Aug	Flat plains, light sandy soil, hill slopes, stony soil. ¹	High	Yes	Low
Vigna triodiophila	P3		х	66.94	Mar - May	Stony red-brown clay loam. Among boulders, steep slopes. ¹	Low	No	Low
				Prio	ority 4				

Bulbostylis burbidgeae	P4	х	х	5.85	Mar or Jun - Aug	Granitic soils. Granite outcrops, cliff bases. ¹	High	Yes	Medium
Ptilotus mollis	P4	х	х	20.05	May or Sep	Stony hills and screes. ¹	Low	No	Low



Appendix D Flora Recorded During the Survey

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Family	Таха	Status
Aizoaceae	Trianthema triquetrum	
	Aerva javanica	Weed
	Alternanthera nana	
	Ptilotus astrolasius	
Amaranthaceae	Ptilotus axillaris	
	Ptilotus exaltatus	
	Ptilotus fusiformis	
	Ptilotus murrayi	
	Ptilotus sp.	
	Calotropis procera	Weed (DP)
	Carissa lanceolata	
Apocynaceae	Cynanchum floribundum	
	Cynanchum viminale subsp. australe	
	Gymnanthera cunninghamii	Р3
	Pluchea dentex	
	Pluchea ferdinandi-muelleri	
Asteraceae	Pluchea rubelliflora	
	Streptoglossa sp.	
Bignoniaceae	Dolichandrone occidentalis	
	Euploca cunninghamii	
Boraginaceae	Trichodesma zeylanicum var. zeylanicum	
Campanulaceae	Wahlenbergia tumidifructa	
	Capparis spinosa subsp. nummularia	
Capparaceae	Capparis umbonata	
	Maireana melanocoma	
Chenopodiaceae	Salsola australis	
	Sclerolaena hostilis	
Cleomaceae	Arivela viscosa	
Combretaceae	Terminalia circumulata	
	Bonamia alatisemina	
	Bonamia erecta	
	Bonamia linearis	
Completion	Bonamia pilbarensis	
Convolvulaceae	Evolvulus sp.	
	Ipomoea muelleri	
	Operculina aequisepala	
	Polymeria ambigua	
Cucurbitaceae	Cucumis variabilis	
	Bulbostylis barbata	
C	Cyperus conicus	
Cyperaceae	Cyperus sp.	
	Cyperus vaginatus	
Elatinaceae	Bergia trimera	
	Euphorbia australis var. subtomentosa	
Free barrel 1	Euphorbia tannensis subsp. eremophila	
Euphorbiaceae	Euphorbia trigonosperma	
	Microstachys chamaelea	
Parallel State Sta		• • • • • • • • • • • • • • • • • • •

Family	Таха	Status
	Acacia acradenia	
	Acacia adoxa var. adoxa	
	Acacia ampliceps	
	Acacia ancistrocarpa	
	Acacia bivenosa	
	Acacia colei var. colei	
	Acacia coriacea subsp. pendens	
	Acacia inaequilatera	
	Acacia orthocarpa	
	Acacia pyrifolia var. pyrifolia	
	Acacia sericophylla	
	Acacia sp.	
	Acacia sphaerostachya	
	Acacia stellaticeps	
	Acacia synchronicia	
	Acacia trachycarpa	
	Acacia trachycarpa x tumida var. pilbarensis	
	Acacia tumida var. pilbarensis	
	Cajanus pubescens	
	Crotalaria cunninghamii subsp. sturtii	
	Crotalaria ramosissima	
	Cullen leucanthum	
Fabaceae	Indigofera hirsuta	
	Indigofera linnaei	
	Indigofera monophylla	
	Indigofera oblongifolia	Weed
	Isotropis atropurpurea	
	Neptunia dimorphantha	
	Neptunia sp.	
	Petalostylis cassioides	
	Petalostylis labicheoides	
	Rhynchosia minima	
	Senna artemisioides subsp. helmsii	
	Senna glutinosa subsp. glutinosa	
	Senna notabilis	
	Senna symonii	
	Senna venusta	
	Sesbania formosa	
	Tephrosia ?supina	
	Tephrosia rosea subsp. Port Hedland (A.S. George 1114)	P1
	Tephrosia rosea var. clementii	
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)	
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	
	Vachellia farnesiana	Weed
	Vigna lanceolata var. lanceolata	
Goodeniaceae	Goodenia lamprosperma	
	Goodenia muelleriana	

Family	Таха	Status
	Goodenia stobbsiana	
Goodeniaceae	Scaevola browniana	
	Scaevola spinescens	
Gyrostemonaceae	Codonocarpus cotinifolius	
Gyrostemonaceae	Gyrostemon tepperi	
Hemerocallidaceae	Corynotheca sp.	
Lauraceae	Cassytha capillaris	
	Abutilon lepidum	
	Corchorus incanus subsp. incanus	
	Corchorus laniflorus	
	Corchorus sp.	
	Hibiscus austrinus var. austrinus	
	Malvaceae sp.	
Malvacaaa	Malvastrum americanum	Weed
IVIdivaceae	Sida clementii	
	Sida sp.	
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)	
	Sida sp. Pindan (B.G. Thomson 3398)	
	Triumfetta clementii	
	Triumfetta sp.	
	Waltheria indica	
	Azadirachta indica	Weed
Mellaceae	Owenia reticulata	
Menispermaceae	Tinospora smilacina	
Molluginaceae	Glinus lotoides	
	Ficus aculeata var. indecora	
Moraceae	Ficus brachypoda	
	Ficus aculeata	
	Corymbia candida subsp. candida	
	Corymbia candida subsp. indet.	
	Corymbia deserticola	
	Corymbia flavescens	
	Corymbia hamersleyana	
wyrtaceae	Corymbia zygophylla	
	Eucalyptus camaldulensis subsp. refulgens	
	Eucalyptus victrix	
	Melaleuca argentea	
	Melaleuca glomerata	
Nueto gina ao ao	Boerhavia repleta	
Nyclaginaceae	Boerhavia sp.	
Passifloraceae	Passiflora foetida	Weed
Dhulleatheese	Nellica maderaspatensis	
Phylianthaceae	Notoleptopus decaisnei	
Diantacina act	Stemodia grossa	
Plantaginaceae	Stemodia viscosa	
Desser	Aristida holathera var. holathera	
Poaceae	Cenchrus ciliaris	Weed

Family	Таха	Status			
	Chrysopogon fallax				
	Cymbopogon ambiguus				
	Cymbopogon sp.				
	Eragrostis eriopoda				
	Eragrostis speciosa				
	Eriachne lanata				
	Eriachne mucronata				
	Eriachne obtusa				
Poaceae	Eulalia aurea				
	Paraneurachne muelleri				
	Poaceae sp.				
	Sporobolus australasicus				
	Themeda triandra				
	Triodia epactia				
	Triodia secunda				
	Triodia sp.				
	Triodia wiseana				
	Grevillea pyramidalis subsp. leucadendron				
Proteaceae	Grevillea wickhamii subsp. hispidula				
	Hakea lorea subsp. lorea				
Pteridaceae	Cheilanthes sp.				
Rubiaceae	Dentella asperata				
Santalaceae	Santalum lanceolatum				
Sapindaceae	Atalaya hemiglauca				
Scrophulariaceae	Eremophila longifolia				
	Solanum diversiflorum				
Solanaceae	Solanum horridum				
Solandeede	Solanum lasiophyllum				
	Solanum sp.				
Violaceae	?Afrohybanthus sp.				
Violaceae	Afrohybanthus aurantiacus				



Appendix E Threatened and Priority Flora Report Forms

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001





Department of **Biodiversity**, Conservation and Attractions

Threatened and Priority Flora Report Form

Version 1.3 August 2017

TAXON: Gymnanthera	cunninghamii					TPF	L Pop. No:	
OBSERVATION DATE:	10/03/2024	CONSE	RVATION	STATUS	_P3		New popula	tion 🗌
OBSERVER/S: Jack H	lardie, Grant Bul	ler				PHONE :		
ROLE: Botanists		ORGAN	SATION:	SLR Cons	sulting	Č		
DESCRIPTION OF LOCATIO	N (Provide at least near	rest town/named locality, a	nd the distance	and direction t	o that plac	e):		
Devil Creek, 37km east of S	South Hedland							
						Rese	rve No:	
DBCA DISTRICT: Pilbara		LGA: Port He	dland		La	nd manager -	present:	
DATUM: COO Dec	RDINATES: (IF UTN Degrees 🗌 D	// coords provided, Zone is PegMinSec □ U⊺	also required)	METHO GPS		D: Differentia	al GPS 🔲 🛛 🛛	Лар 🗌
GDA94 / MGA94 🛛 Lat	/ Northing: 705	557		No. sat	ellites:	_	Map used:	
		2202		Bounda	ary poly	jon	Man scale:	
	g / Easting: //4	-3392		capture	ed:		Map Scale.	
	ZONE : 50							
		Private propert		Ra	il reserve		Shire road	d reserve [
National park	State forest	Pastoral leas	, ∐ e ⊠	MRWA roa	d reserve		Other Crow	n reserve [
Conservation park	Water reserve	UC		SLK/Pole	to		Specify other:	
WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive	Plants 🛛 Mature:	Clumps 🗍 Juveniles: 3	Clonal sten	ns 🗌 s: T 3	otals:		Area of pop (m²	·):
Dood							Note: Pls record cou	int as numbe
	No	Sizo	Data a	ttached [1		(not percentages) to	r database. m²)•
QUADRATS PRESENT:						Total alc		
			Elowe				er 🗖	
Immatu	ure fruit	Fruit	Dehisced	d fruit 🔲		Percentage	in flower:	6
CONDITION OF PLANTS: + COMMENT:	lealthy 🛛	Moderate 🗌		Poor 🗌		Senesce	nt 🗌	
THREATS - type, agent and Eg clearing, too frequent fire, weed, dis Rate current and potential threat i Estimate time to potential impact:	supporting inform sease. Refer to field mar mpact: N=Nil, L=Low, M S=Short (<12mths), M=	nation: nual for list of threats & age I=Medium, H=High, E=Extr Medium (<5yrs), L=Long (\$	nts. Specify ag eme iyrs+)	ent where rel	evant.	Currer impac (N-E)	nt Potential t Impact (L-E)	Potentia Threat Onset (S-L)
 Pastoralism/livestock 						N	м	L
 Clearing (clearing was ob record location) 	served on the ea	stern bank several	hundred m	etres sou	th of	N	L	L
•								

Please return completed form to Species And Communities Branch DBCA,

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au **RECORDS**: Please forward to **Flora Administrative Officer**. Species and Communities Branch.



Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATIO	DN:							
LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:			
Crest 🗌	Granite	(on soil surface; eg	Sand 🛛	Red 🗌	Well drained 🗌			
Hill 🗌	Dolerite	gravel, quartz fields)	Sandy Ioam 🔲	Brown	Seasonally			
Ridge 🗌	Laterite	a 4004 🗖	Loam 🗌	Yellow 🛛				
Outcrop	Ironstone	0-10%	Clay loam 🗌	White 🗌	Permanently inundated			
Slope	Limestone	10-30%	Light clay 🗌	Grey 🗌				
Flat 🖂	Quartz 🗌	30-50%	Peat	Black 🗍				
Open depression	Specify other:	50-100% 📋	Specify other:	Specify other:				
Drainage line								
Closed depression								
Wetland	Specific Landforn							
CONDITION OF SOIL:		Moist П	Waterlogged	Inundated				
VECETATION				ntea low open wood	land			
CLASSIFICATION*:	1. Eucalyptus camaio	Malalawaa alamaaa		ho				
Eg: 1. Banksia woodiand (B.	2. Acacia trachycarpa	a, Melaleuca giorriera	ita miu isolateu shi'u					
attenuata, B. Ilicitolia); 2. Open shrubland	3. Eulalia aurea, *Cenchrus ciliaris low isolated clumps of grasses							
(Hibbertia sp., Acacia spp.); 3. Isolated clumps of	4							
sedges (Mesomelaena tetragona)								
ASSOCIATED								
Other (non-dominant) spp								
* Please record up to four of the m	nost representative vegetation la	ayers (with up to three domina	nt species in each layer). Str	uctural Formations should foll	ow 2009 Australian Soil			
and Land Survey Field Handbook	guidelines – refer to field manu	al for further information and s						
	r: Pristine 🗌 I	Excellent 🗌 Very go	ood 🗌 🛛 Good 🖂	Degraded [] Con	npletely degraded			
		Voor	Eiro Intensity: Hi	ah 🗍 Medium 🗍 🛛 Iow [No signs of fire			
FIRE HISTORT: La	Ist Fire: Season/Monut.	Tear			the digne of the			
		Present Replac			intity rea'd:			
RUADSIDE MARKERS:								
OTHER COMMENTS: ((Please include recomme	ended management act	tions and/or implement it)	ted actions - Include				
uate. Also molude detai		able, and new to roote						
DRF PERMIT/ LICENC information on permit and licer be recorded above in the OTH	E No: Note if onlining requirements see the Thre IFR COMMENTS section.	ly observing plants (i.e. no spe atened Flora and Wildlife Lice	ecimens or plant matieral is tand nsing pages on DBCA's web	aken) then no permit/licence site. Any actions carried out u	is required. For further inder licence/permit should			
SPECIMEN: Collect	ors No:	WA Herb. 🗌 Region	nal Herb. 🗌 District	Herb. Other: _				
ATTACHED: Man		Photo GIS data	Field notes	Other:				
COPY SENT TO: Re	egional Office	District Office	Other:					
Submitter of Record: Gra	nt Buller Role: Ser	nior Botanist Signe	d:	Date: 8/07/2024				

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au **RECORDS**: Please forward to **Flora Administrative Officer**. Species and Communities Branch.



Department of Blodiversity, **Conservation and Attractions**

Threatened and Priority Flora Report Form Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete

Version 1.3 August 2017

TAXON: Tephrosia ros	ea subsp. Port He	dland (A.S. Geo	rge 1114)			TP	FL Pop. No:	
OBSERVATION DATE:	2/03/2024	CONS	SERVATION S	TATUS	: P1		New popul	ation 🗌
OBSERVER/S: Jack	Hardie, Grant Bulle	er				PHONE :		
ROLE: Botanists		ORGA	NISATION: S	LR Con	sulting	5		
DESCRIPTION OF LOCATIO	N (Provide at least neare	est town/named locality,	, and the distance an	d direction	to that pla	ce):		
Road verge, Great Norther	n Highway, south	of Boodarie/Sou	th Hedland					
						Rese	erve No:	
DBCA DISTRICT: Pilbara		LGA: Port H	edland		La	nd manage	er present:	
DATUM: COC	CDegrees Degrees Degrees	coords provided, Zone	is also required) UTMs 🛛	METH GPS	OD USE	D: Different	ial GPS 🔲	Мар 🗌
	/ Northing: 6612	261		No. sa	tellites:		Map used: _	
WGS84 Lon	g / Easting: 7737	710		Bound	ary poly	gon	Map scale:	
Unknown	70NE: 50			- capture	eu.			
	ZONE . 50							
Nature reserve	Timber reserve 🔲	Private prope	erty 🗌	Ra	il reserve	•	Shire ro	ad reserve [
National park	State forest	Pastoral lea	ase 🗌 🛛 🛛 M	/IRWA roa	d reserve	\ge	Other Crow	wn reserve [
Conservation park	Water reserve	U		K/Pole 1	595 to 1	596	Specify other	
AREA ASSESSMENT: Edg EFFORT: Time : POP'N COUNT ACCURACY:	e survey	tial survey ∐ F nutes): Extrapolation □	ull survey 🗌 No. of Estimate Г	Area o minutes	bserved spent / · ount me	(m²): _ 100 m²: _ ethod: _		
AREA ASSESSMENT: Edg EFFORT: Time s POP'N COUNT ACCURACY: WHAT COUNTED:	e survey	tial survey	ull survey [No. of Estimate [(Clonal stems	Area o minutes] C (Refer to fie	bserved spent / ount me d manual	(m²): 100 m²: _ thod: д for list)	 Actual count - i	ndividuals
AREA ASSESSMENT: Edg EFFORT: Time s POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE:	e survey	tial survey _ F nutes): Extrapolation Clumps Juveniles:	Ull survey No. of Estimate (Clonal stems Seedlings:	Area o minutes C Refer to fie	bserved spent / ount me d manual otals:	(m²): 100 m²: _ thod: Δ for list)		ndividuals
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AREA ASSESSMENT: Edg EFFORT: Time of POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRATS PRESENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immatu CONDITION OF PLANTS: H COMMENT: THREATS - type, agent and Eg clearing, too frequent fire, weed, dia Rate current and potential threat i Estimate time to potential impact:	e survey Parl spent surveying (mir : Actual Plants Plants Mature: No Clonal ure fruit Healthy supporting information sease. Refer to field manu impact: N=Nil, L=Low, M= S=Short (<12mths), M=N	tial survey F nutes): Extrapolation Juveniles: Juveniles: Size Vegetative X Fruit Moderate Moderate ation: Jul for list of threats & a Medium, H=High, E=E Medium (<5yrs), L=Long	Gents. Specify agents. (5yrs+)	Area o minutes CRefer to fie s 2 ached cuit c	bserved spent / ' ount me d manual fotals:	(m ²):	Area of pop (n Note: PIs record co (not percentages) rea of quadrats wer ent ent ct (L-E)	ndividuals n²): bunt as numbe for database. (m²):% Potentia Threat Onset (S-L)
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Please return completed form to Species And Communities Branch DBCA,

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer. Species and Communities Branch.



Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATIO	ON:				
LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite 📋	(on soil surface; eg	Sand 🛛	Red 🗌	Well drained 🔲
Hill 🗔	Dolerite	gravel, quartz fields)	Sandy loam 🗌	Brown 🛛	Seasonally
Ridge 🗌	Laterite	0.400/	Loam 🗌	Yellow 🛛	
Outcrop	Ironstone	0-10%	Clay loam 🗌	White 🗌	inundated
Slope	Limestone	10-30%	Light clay 🔲	Grey 🗌	
Flat 🖂	Quartz 🗌	30-50%	Peat	Black 🗌	
Open depression	Specify other:	50-100% 🗋	Specify other:	Specify other:	
Drainage line					
Closed depression		- -			
Wetland	Specific Landforr				
CONDITION OF SOIL:		Moist	Waterlogged	Inundated	
VEGETATION	1 Acacia stellaticeos	low open shrubland			
CLASSIFICATION*:	2 Triodia enactia low	bummock grassland			
Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia):		r Hammook grabbland			
2. Open shrubland (Hibbertia sn. Acacia son.):	3. 				
3. Isolated clumps of sedges (Mesomelaena tetragona)	4.				
ASSOCIATED					
SPECIES:					
* Please record up to four of the m	nost representative vegetation I	ayers (with up to three domina	nt species in each layer). Sti	uctural Formations should fol	low 2009 Australian Soil
and Land Survey Field Handbook	guidelines - refer to field manu	al for further information and s	tructural formation table.		
CONDITION OF HABITAT	: Pristine	Excellent Very go	od 🗌 Good 🗌	Degraded 🛛 Cor	npletely degraded
COMMENT: Record	led in roadside drain,	surrounding habitat ir	Very Good condition	on	
FIRE HISTORY: La	st Fire: Season/Month:	Year:	Fire Intensity: Hi		
FENCING:	Not required	Present Replac	ce / repair 🔲	Required Len	gth req'd:
ROADSIDE MARKERS:	Not required	Present 📋 Replac		Requirea 🖾 🛛 Qua	anuty req u
OTHER COMMENTS:	Please include recomm	ended management act	ions and/or implemen	ted actions - include	
date. Also include detai	is of additional data avai	liable, and now to locate	; IL.)		
DRF PERMIT/ LICENC information on permit and licer be recorded above in the OTH	E No: Note if on hing requirements see the Three IER COMMENTS section.	ly observing plants (i.e. no spe atened Flora and Wildlife Lice	cimens or plant matieral is t nsing pages on DBCA's web	aken) then no permit/licence site. Any actions carried out o	is required. For further under licence/permit should
SPECIMEN: Collect	ors No:	WA Herb. 🗌 Region	nal Herb. 🗌 District	Herb. 🗌 Other: _	
ATTACHED: Map	Mudmap	Photo 🗌 GIS data	Field notes	Other:	
COPY SENT TO: Re	egional Office	District Office	Other:		
Submitter of Record: Gra	nt Buller Role: Ser	nior Botanist Signe	d: <u>Lan</u>	Date: 8/07/2024	

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au **RECORDS**: Please forward to **Flora Administrative Officer**. Species and Communities Branch.



Appendix F Flora Site Sheets

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001



Project Name Site: Location Described by: Date: Type: Landform: Slope: Rock Type: Soil Type: Soil Colour: Vegetation: Condition: Fire Age: SPECIES LIST Taxon Pluchea ferdinandi-mue Triodia epactia Triodia secunda	Atlas Ridley AR01 MGA 50 GB,JH 1-03-2024 QUADRAT PlainFlat N/A N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gi</i> Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30	Infrastructure Cover (%) 0.1	ia epactia and T. se	ecunda low open	
Site: Location Described by: Date: Type: Sigpe: Rock Type: Soil Type: Soil Type: Soil Colour: Vegetation: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	AR01 MGA 50 GB,JH 1-03-2024 QUADRAT PlainFlat N/A N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gl</i> Very Good >10 years	660017 mE rdinandi-muelleri a grassland.	7740884 mN nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30	a shrubs over Triodii Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. set	ecunda low open	
Location Described by: Date: Type: Slope: Rock Type: Soil Type: Soil Colour: Vegetation: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	MGA 50 GB,JH 1-03-2024 QUADRAT PlainFlat N/A N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gl</i> Very Good >10 years	660017 mE rdinandi-muelleri a grassland.	7740884 mN nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30	Infrastructure Cover (%) 0.1 0.1 0.1 0.5	ia epactia and T. se	ecunda low open	
Described by: Date: Type: Landform: Slope: Rock Type: Soil Type: Soil Colour: Vegetation: Condition: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	GB,JH 1-03-2024 QUADRAT PlainFlat N/A Sand Orange Pluchea ferc hummock gr Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. set	ecunda low open	
Date: Type: Siope: Rock Type: Soil Type: Soil Colour: Vegetation: Fire Age: SPECIES LIST Faxon Pluchea dentex Pluchea fendinandi-mue Triodia epactia Triodia secunda	1-03-2024 QUADRAT PlainFlat N/A N/A Sand Orange Pluchea ferc hummock gr Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	d shrubs over Triodi Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. se	ecunda low open	
Type: Landform: Slope: Rock Type: Soil Type: Soil Colour: Vegetation: Fire Age: SPECIES LIST Faxon Pluchea fentex Pluchea fentex Triodia epactia Triodia secunda	QUADRAT PlainFlat N/A N/A Sand Orange Pluchea ferc hummock gr Very Good >10 years	'dinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	Cover (%) 0.1 0.1 40 5	ia epactia and T. set	ecunda low open	
Andform: Slope: Rock Type: Soil Type: Soil Colour: Yegetation: Condition: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	PlainFlat N/A N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gl</i> Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30	d shrubs over Triodia Infrastructure Cover (%) 0.1 0.1 40 5	votes	ecunda low open	
Stope: Rock Type: Soil Type: Soil Colour: //egetation: //ondition: irre Age: //uchea dentex //uchea ferdinandi-mue //uchea ferdinandi-mue //iodia epactia //iodia secunda	N/A N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gl</i> Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	d shrubs over Triodi Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. se	ecunda low open	
Kock Type: Soil Type: Soil Colour: //egetation: //egetation: irre Age: SPECIES LIST 'axon Pluchea dentex Pluchea ferdinandi-mue rriodia epactia Friodia secunda	N/A Sand Orange <i>Pluchea ferc</i> <i>hummock gl</i> Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	d shrubs over Triodi Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. se	ecunda low open	
Vegetation: Condition: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Friodia epactia Friodia secunda	Pluchea ferc hummock gr Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	d shrubs over Triodi Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. se	ecunda low open	
Vegetation: Condition: Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia secunda	Pluchea ferc hummock gr Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30	d shrubs over Triodia Infrastructure Cover (%) 0.1 0.1 40 5	lia epactia and T. se	ecunda low open	
Vegetation: Fire Age: SPECIES LIST Faxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	Pluchea ferc hummock gr Very Good >10 years	rdinandi-muelleri a grassland.	nd P. dentex low isolate Disturbance Type: Height (cm) 20 50 30 30 30	d shrubs over Triodi Infrastructure Cover (%) 0.1 0.1 40 5	ia epactia and T. se	ecunda low open	
Condition: Fire Age: SPECIES LIST Faxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	Very Good >10 years		Disturbance Type: Height (cm) 20 50 30 30 30	Infrastructure Cover (%) 0.1 0.1 40 5	Notes		
Fire Age: SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	>10 years		Height (cm) 20 50 30 30	Cover (%) 0.1 0.1 40 5	Notes		
SPECIES LIST Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	əlləri		Height (cm) 20 50 30 30	Cover (%) 0.1 0.1 40 5	Notes		
Taxon Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	əlləri		Height (cm) 20 50 30 30	Cover (%) 0.1 0.1 40 5	Notes		
Pluchea dentex Pluchea ferdinandi-mue Triodia epactia Triodia secunda	elleri		20 50 30 30	0.1 0.1 40 5			
Pluchea ferdinandi-mue Triodia epactia Triodia secunda	əlleri		50 30 30	0.1 40 5			
l riodia epactia Triodia secunda			30 30	40 5			
l nodia secunda			30	5			

			FLORA SITE	ESHEET		
Project Name	Atlas Ridley E	Biological Survey				
Site:	ARUZ MGA 50	659628 mE	7740921 mN	-		
				and Street The	1 · · · ·	
Described by:	GB,JH			Charles 1		
Date:	1-03-2024			Section and section	A CARLEND AND A REAL PROPERTY.	
i ype.	QUADRAT				Mer and a second of the	Constant I
Landform:	PlainsFlat					ALC: NO
Slope:	N/A					
Rock Type:	N/A					
Soil Colour:	Orange			and the second second	The second	
	Ordingo			Sugar W	Car was a way	
Vegetation:	Eucalyptus v colei and Hal	ictrix and Corymb kea lorea subsp. l	ia candida subsp. cand orea low sparse shrub	ida low isolated tre and over Triodia e	ees over Acacia stellaticeps, A. colei var. apactia low open hummock grassland.	
Condition:	Excellent		Disturbance Type:	None		
Fire Age:	>10 years					
SPECIES LIST			Hoight (cm)	Cover (%)	Notos	
Acacia colei var. colei			160	0 1	Notes	
Acacia stellaticeps			45	20		
Cassytha capillaris			10	0.1		
Corymbia candida sub	sp. candida		250	0.1		
Eucalyptus victrix			500	0.1		
Hakea lorea subsp. lor Pluchea dentex	ea		60 30	0.1		
Sida sp. Pilbara (A.A. I	Mitchell PRP 1	543)	30	0.1		
Triodia epactia		,	30	31		

			FLORA SITE	SHEET		
Project Name	Atlas Ridley I	Biological Survey				
Site:	AR03				and the second	- 28 P 14
Location	MGA 50	661481 mE	7739545 mN		Les Not Blankeres	
Described by:	GB,JH			CONTRACTOR OF		Carl San
Date:	2-03-2024					
Гуре:	QUADRAT					
Landform:	Plains Flat			A REPART	Contract of the second	
Slope:	N/A					
Rock Type:	N/A					
Soil Type:	Sand				Contraction of the second	
Soil Colour:	Orange				A CONTRACTOR	
Vegetation:	Acacia tumid epactia open	la var. pilbarensis hummock grassla	mid sparse shrubland c and.	over Acacia stellatic	eps low sparse shrubland over T	Triodia
Condition:	Very Good	г)isturbance Type:	Infrastructure		
Fire Age:	>10 years		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Acacia stellaticeps			60	10		
Acacia tumida var. p	oilbarensis		170	10		
Cassytha capillaris			30	0.1		
Corchorus sp.			30	0.1		
Cymbopogon sp.			50	0.1		
Eragrostis eriopoda	10.000		20	0.1		
Hakea lorea subsp. Dereneuroebne mus	lorea		140	0.1		
Paraneurachine mue	lien		30	0.1		
Sida sn			30	0.1		
Solanum sn			20	0.1		
Triodia epactia			40	29		

			FLORA SITE	SHEET	
Project Name	Atlas Ridley B	iological Survey			
Site:	AR04	661104 mE	7727074 mN		
Location	MGA 50	001194 mE	7737874 MN	TO THE PARTY	
Described by:	GB,JH				The second s
Date:	2-03-2024			the state of the	
Туре:	QUADRAT			Contraction of the second	
Landform:	PlainsFlat				
Slope:	N/A				
Rock Type:	N/A				
Soil Type:	Sand				
Soll Colour:	Orange				
				AN Y	
					CALL CALL
Vogotation:	Acacia stallati	ioons low sparso	shrubland over Triedia	pactia and Triodic	a sp. low open hummock grassland
vegetation.	Acacia Stellati	ceps low sparse	Shirubianu Over Thoula e		a sp. low open nummock grassiand.
Condition: Fire Age:	Very Good		Disturbance Type:	Fauna tracks/se	cats,Infrastructure
i lic Age.					
SPECIES LIST			Height (cm)	Cover (%)	Notes
Acacia stellaticeps			60	20	Holes
Acacia tumida var. pilb	parensis		200	0.1	
Eragrostis eriopoda			20	0.1	
Poaceae sp.			20	0.1	
Sida sp. Pilbara (A.A. I	Mitchell PRP 15	i43)	20	0.1	
Triodia sp.			20	0.5	

			FLORA SITE	SHEET		
Project Name	Atlas Bidlov F	Piological Survey				
Site:	Allas Ribley E AR05	siological Survey				
Location	MGA 50	665737 mE	7736737 mN		and the second s	
Described by:	GB,JH				No promote	
Date:	2-03-2024			and the second	LY - And	and the second second
Туре:	RELEVE					
Landform:	Low hill crest	Gentle			A A A A A	
Slope:	N/A				19 20 20	
Rock Type:	Quartzite				1 A	
Soil Type:	Clay,Loam					
Soil Colour:	Brown,Orang	e		and the second		To Para and the
Vegetation:	Acacia orthoo grassland.	carpa and A. turn	ida var. pilbarensis Mid o	open shrubland ov	ver Triodia epactia lov	v open hummock
Condition:	Good		Disturbance Type:	Vehicle tracks,	Litter,Infrastructure	
Fire Age:	>10 years					
SPECIES LIST			Height (cm)	Cover (%)	Notes	
Accesio angistrogarna					NOLES	
Acacia inaequilatera			160	0.1		
Acacia inaequilatera Acacia orthocarna			200	25		
Acacia on nocarpa Acacia sp			200	0.1		
Acacia sp Acacia tumida var. nill	arensis		200	0.1		
Eriachne lanata			20	0.1		
Goodenia stobbsiana			20	0.1		
Grevillea pyramidalis s	subsp. leucader	ndron	250	0.1		
Hakea lorea subsp. lo	rea		20	0.1		
Triodia epactia			30	25		

			FLORA SITE	SHEET			
Project Name	Atlas Ridley Bio	ological Survey	/		XIII		
Location	MGA 50	666981 mE	7736472 mN		1 mil	Autority	
Described by: Date: Type:	GB,JH 2-03-2024 QUADRAT						(HAN)
Landform: Slope: Rock Type: Soil Type: Soil Colour:	PlainsFlat N/A N/A Clay,Loam Brown,Orange						
Vegetation:	Corymbia ham mid sparse shr	ersleyana and ubland over E	Eucalyptus victrix low op ulalia aurea low open tus	en woodland over sock grassland.	Acacia colei var. c	olei and A. synchron	icia
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Litter			
SPECIES LIST Taxon Eucalyptus victrix Acacia colei var. colei Cassytha capillaris Corymbia hamersleyari Acacia synchronicia Eulalia aurea Triodia epactia			Height (cm) 500 200 50 30 30 30	Cover (%) 3 15 0.1 15 0.5 40 0.5	Notes		
			FLORA SITE	SHEET			
----------------------------	--------------------------------------	-----------------------	---	-----------------------	---		
Project Name	Atlas Ridley Biolog	aical Survey	1				
Site:	AR07	J					
Location	MGA 50 6	67553 mE	7736022 mN				
Described by:	GB JH				ALL DE LA LANDA LA LANDA		
Date:	2-03-2024			and the second second			
Туре:	QUADRAT			A CAR AND A	the second se		
				a second the			
Landform:	PlainFlat			Same and the second			
Slope:	N/A						
Rock Type:	N/A				a state of the second second		
Soil Type: Soil Colour:	Brown Orange			Read and	THE REAL PROPERTY OF		
	Diowin,orango				the second s		
				A CARACTER	A CARLES AND A CARL		
				1	The second second second second		
				这一些 (1)			
Vegetation:	Eucalyptus victrix open tussock gras	low open w ssland.	oodland over Triodia epac	ctia mid sparse hi	ummock grassland over Eulalia aurea low		
Condition:	Verv Good		Disturbance Type:	None			
Fire Age:	> 15 years		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
SPECIES LIST							
Taxon			Height (cm)	Cover (%)	Notes		
Acacia colei var. colei			250	3			
Acacia synchronicia			140	0.1			
Acacia tumida var. pilb	arensis		140	0.1			
Cassytha capillaris			50	0.1			
Eucalyptus victrix			550 30	10			
Pluchea dentex			30	0.1			
Triodia epactia			50	20			

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bi	ological Survey	,		
Location	MGA 50	669224 mE	7737589 mN		
Described by: Date: Type:	GB,JH 2-03-2024 QUADRAT				
Landform: Slope: Rock Type: Soil Type: Soil Colour:	PlainsFlat N/A N/A Clay,Loam,Sau Beige	nd		Pho	oto: unavailable
Vegetation:	Eucalyptus vic aurea low isola	trix mid isolated ated clumps of a	d clumps of trees over Tr tussock grasses.	iodia epactia low o	pen hummock grassland over Eulalia
Condition: Fire Age:	Very Good 1-5 years		Disturbance Type:	Litter	
SPECIES LIST Taxon Acacia colei var. colei Acacia stellaticeps Corchorus sp. Eucalyptus victrix Eulalia aurea Senna notabilis Sida sp. Pilbara (A.A. I Triodia epactia	Mitchell PRP 15	43)	Height (cm) 50 10 20 20 20 30	Cover (%) 0.1 0.1 5 0.5 0.1 0.1 25	

			FLORA SITE	E SHEET	
Project Name	Atlas Ridley Bi	ological Survey			
Location	MGA 50	719898 mE	7755031 mN		
Described by:	GB,JH				
Date:	3-03-2024			STATE NO	
Туре:	RELEVE				
Landform:	Ironstone ridge	Steep			
Slope:	N/A				
Rock Type:	Ironstone			12010	and the second
Soil Colour:	Brown,Red				
Vegetation:	Atalaya hemigi Afrohybanthus ambiguus low	lauca tall isolate aurantiacus lov sparse grasslar	ed clumps of shrubs ove v isolated clumps of shr nd	r Ficus brachypod ubs over *Cenchru	la, Acacia colei var. colei and Is ciliaris, Triodia epactia and Cymbopogon
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Weeds	
SPECIES LIST Taxon			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			100	0.1	
Afrohybanthus aurantia	cus		20	0.1	
Boerhavia sp.			2	0.1	
*Cenchrus ciliaris			30	4	
Cucumis variabilis			20	0.1	
Eriachne mucronata	5		40 20	0.1	
Ficus brachypoda			170	1	
Notoleptopus decaisne	i		5	0.1	
Ptilotus sp. Senna venusta			20 25	0.1	
Triodia epactia			30	4	

			FLORA SITE	SHEET		
Project Name	Atlas Ridley	Biological Survey	/			
Site:	AR10					
Location	MGA 50	719944 mE	7755028 mN			and a second
Described by:	GB,JH			The set	Contract of the second	
Date:	3-03-2024			THE REAL PROPERTY OF		
Гуре:	RELEVE			The state		WHICH STATES
Landform:	Ironstone hill	ltopGentle			No. of Street,	
Slope:	N/A	•		Call and the	A Contractor	
Rock Type:	Ironstone				and an Aller	
Soil Type:	Clav			STORE AND	Calls Species	
Soil Colour:	Brown.Red				ENG PROF	
	- ,					
				and the set		and the second second
la natation.	Triadia anaa	tia laur anan hum				
regetation:	ттобіа ерас	tia low open num	mock grassiand.			
Condition:	Very Good		Disturbance Type:	Weeds Fauna	tracks/scats	
Sonanion. Fire Age:	>10 years		Disturbance Type.	weeus,rauna	IIduks/sudis	
lie Age.	>10 years					
SPECIES LIST						
Faxon			Height (cm)	Cover (%)	Notes	
Cenchrus ciliaris			20	0.1		
Ptilotus sn			5	0.1		
Triodia enactia			20	50		
noula epacila			20	50		

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	ological Survey			
Site:	AR11			San and and and and and and and and and a	**
Location	MGA 50	719701 mE	7754874 mN		
Described by:	GB,JH				A MARTIN AND A MARTINA AND A
Date:	3-03-2024			- Para alise	
Туре:	QUADRAT				
Landform:	FloodplainFlat				
Slope:	N/A			and the	
Rock Type:	N/A				and the second second second
Soil Type:	Clay,Sand			X	
Soil Colour:	Brown				
Vagatation		w incloted alur	nna of andron over Salar	alaana haatilia la	w operate forbland
vegetation:	Cyperus sp. LC	w isolated clur	nps of sedges over Scien	Diaeria nostilis iov	w sparse lordiand.
Condition	Degraded		Disturbance Tunes	Woodo Crozin	a Litter Found tracks/ageta
Fire Age:	Unknown		Disturbance Type:	weeds,Grazin	ig,Litter,Fauna tracks/scats
i no rigo.	Children				
Taxon			Height (cm)	Cover (%)	Notes
Boerhavia repleta			30	0.1	
*Calotropis procera			50	0.1	
Crotalaria ramosissima			30	0.1	
Cyperus conicus			20	0.1	
Cyperus sp.	20		50	1	
loomoea muelleri	la		20	0.1	
Neptunia sp.			5	0.1	
Poaceae sp.			20	0.1	
Polymeria ambigua			5	0.1	
Sclerolaena hostilis			30	10	
Triantnema triquetrum Triodia enactia			2	0.1	
moula opuolia			20	0.1	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	logical Survey		1724	
Site:	AR12	740400 5	775 (700 N		
Location	MGA 50	719492 mE	7754730 mN	A Content	4.
Described by:	GB,JH			Constant.	ANTE. A REAL AND
Date:	3-03-2024			A SHA	
Туре:	RELEVE			Constanting of the second	
				2	
Landform:	DrainageFlat				Contract of Carlot and
Slope:	N/A			the second second	
Rock Type:	N/A Sond				and the first of the second
Soil Colour:	Brown Orange			No. Low	and the second s
	brown,orange			- TEAME aso.	
				-	
				and the state	and a state of the
				State of the second	
Vegetation:	Eucalyptus vici Eulalia aurea lo	trix low isolated w isolated clur	d clumps of trees over Ac nps of tussock grasses.	aciea colei var. c	olei tall isolated clumps of shrubs over
Condition:	Good		Disturbance Type	Weeds Grazin	n Fauna tracks/scats
Fire Age:	>10 vears		Disturbance Type.	Weeus, Orazin	g, rauna tracko/scato
	, , , , , , , , , , , , , , , , , , , ,				
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			300	0.5	
Afrohybanthus aurantia	acus		10	0.1	
Boerhavia repleta			10	0.1	
[^] Calotropis procera			80	0.1	
Corchorus Incanus sul	osp. incanus		30	0.1	
Cyperus conicus			20 50	1	
Eucalvotus victrix			900	5	
Eulalia aurea			30	2	
Euploca cunninghamii			10	0.1	
Goodenia lamprosperr	na		30	0.1	
Ipomoea muelleri			10	0.1	
Poaceae sp.			20	0.1	
Polymeria ambigua			10	0.1	
Sporobolus australasio	sus		20	0.1	
1 riodia epactia *Vachallia fornosiona			30	0.1	
vachellia lamesiana			100	0.1	
1					

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	ological Survey			
Site:	AR13				The second se
Location	MGA 50	719707 mE	7756078 mN		and a second a second second second second
Described by:	GB,JH			A second second second	
Date:	3-03-2024			Swither Start	
Туре:	RELEVE			and and a	CONTRACTOR STATE
Landform:	Ironstone Hillto	pGentle			
Slope:	N/A			A PORT	
Rock Type:	Ironstone			and the second	the state of the s
Soil Type:	Clay			Self-Martin	A State of the second stat
Soil Colour:	Brown				
Vegetation:	Triodia epactia	low open humn	nock grassland.		
Condition: Fire Age:	Very Good >10 years	ſ	Disturbance Type:	Infrastructure	
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Bonamia pilbarens	is		2	0.1	
Isotropis atropurpu	irea		5	0.1	
Sida sp. Pilbara (A	.A. Mitchell PRP 154	(3)	60	0.1	
Solanum diversifloi	rum		30	0.1	
Triodia epactia			20	40	

			FLORA SITI	E SHEET			
Project Name	Atlas Ridley	Biological Survey	,				
Site:	AR14						A water a
Location	MGA 50	719576 mE	7756081 mN	and the second second		And a start	
Described by:	GB,JH						and the second
Date:	3-03-2024						
Туре:	RELEVE						
Landform:	Ironstone ride	geSteep			-	C SUL	
Slope:	N/A			China Inc.	- 18/2	C. B. J. J. S.	
Rock Type:	Ironstone			Contraction of the second second	31 38	and the second	2 Barris
Soil Type:	Clay			The state of the state	17 7 Harris		
Soil Colour:	Brown						
Vegetation:	Ficus brachy mid isolated	poda, Ficus acul clumps of shrubs	eata and Atalaya hemig s over Triodia epactia lov	lauca low isolated cl w isolated clumps of	lumps of trees over hummock grasses	r Acacia colei var. S.	colei
Condition:	Very Good		Disturbance Type:	Weeds, Grazing			
Fire Age:	>10 years						
Tayon			Height (cm)	Cover (%)	Notes		
Acacia colei var. colei			200	0.5	Notes		
Atalava hemiqlauca			200	0.0			
Roerhavia so			230	0.1			
*Cenchrus ciliaris			20	0.1			
Cymhonogon amhiguu	IS		30	0.0			
Eriachne mucronata	5		20	0.1			
Ficus brachypoda			300	0.5			
Ficus aculeata			200	0.5			
Senna venusta			30	0.1			
Triodia epactia			30	5			
,							

			FLORA SITE	SHEET			
Project Name	Atlas Ridley	Biological Surve	/				
Site:	AR15					EX.	Mellon -
Location	MGA 50	719631 mE	7755998 mN			Stree 2	
Described by:	GB,JH					Y Star	A state
Date:	3-03-2024				a de la compañía de la		HELSH YEN
Туре:	RELEVE			ers- Statistics	a dangan da		A Vice
Landform:	Between two	hillsGentle		Laporter		- AL	A State
Slope:	N/A			and the second	W. Starting	ALC: NO	LAN
Rock Type:	Ironstone			a children and a star	and a second		22147
Soil Type:	Clay			Carlin a series	we have the lot	Land Same	A CVA
Soil Colour:	Brown			and the second states	State State Late	一直 1986 名	
					P. A. S. C. Strange	and the second	一, 家门的 , 外
					A BEARING		and the second second
					ar i i		
				State State		A State State	A STATE
				and the set			A CAR
Vegetation:	Acacia colei v	/ar. colei tall spa	arse shrubland over Acaci	a bivenosa mid is	olated clumps of	f shrubs over T	iriodia
	epactia low s	parse hummock	grassland.				
Condition:	Verv Good		Disturbance Type	Grazing Fauna	tracks/scats		
Fire Age:	>10 years		Diotarbance Type.	Grazing,r dune			
-							
Taxon			Height (cm)	Cover (%)	Notes		
Acacia acradenia			100	0.1	110100		
			120	0.1			
Acacia piveriosa			200	20			
Roacia colei val. colei Roarbavia roplata			10	20			
boernavia repieta			10	0.1			
			30	0.1			
Dhunchesia minima			10	0.1			
Rilynchosia minima			10	0.1			
Triumfotto elementii			30 F	30			
mumiella clementii			5	0.1			

FLORA SITE SHEET

			FLONA SIT				
Project Name	Atlas Ridley Bi	iological Survey			CHEAN (THURAD DEPENDING)		
Site:	AR16						
Location	MGA 50	719958 mE	7755674 mN		Contraction of the		
Described by:	GBUH				State 1	Sector Sector	
Date:	3-03-2024			Service and		and Alza	
Туре:	RELEVE			and the second sec	A CONTRACTOR OF	REP 22 J	
						The second	
Landform:	Low lying flood	d plain (look up bett	er word)Flat	The same the			Sel -
Slope:	N/A			ante da mi			
ROCK Type:	N/A Clov Sond						
Soil Colour:	Brown.Orange	9			The states	State of the second	
	Drown, orange	, ,			the set to be the		
				and the second second	State States	Carl Straight A	
				time at	A State of the state		
				at the second	· · · · · · · · · · · · · · · · · · ·		
Vegetation:	Corvmbia flave	escens. Atalava he	mialauca and Ficus a	aculeata low open	woodland over Dolichand	drone occidentalis	
	and *Indigofer	a oblongifolia tall is	olated clumps of shr	ubs over Eulalia au	urea low isolated clumps	of tussock	
	grasses.						
Condition:	Degraded	Dis	sturbance Type:	Weeds, Grazing	g,Fauna tracks/scats		
Fire Age:	>10 years						
SPECIES LIST							
Taxon			Height (cm)	Cover (%)	Notes		
Acacia bivenosa			200	0.1			
Corymbia flavescens			700	5			
Boerhavia repleta			10	0.1			
Atalovo homialouoo			300	0.1			
Alaiaya nemiyiauca Dolichandrone occiden	talis		400	2			
Ficus aculeata	lane		300	- 1			
*Indigofera oblongifolia			200	2			
Eulalia aurea			30	2			
Pluchea dentex			20	0.1			
Terminalia circumulata			300	0.1			

FLORA SITE SHEET Atlas Ridley Biological Survey AR17 MGA 50 719480 mE 7755341 mN

Corymbia flavescens and Eucalyptus victrix low open woodland over Acacia colei var. colei tall sparse shrubland over Eulalia aurea low isolated clumps of tussock grasses.

Condition: Fire Age:	Degraded Disturbance Type: >10 years		Weeds, Grazing, Fauna tracks/scats		
SPECIES LIST					
Taxon		Height (cm)	Cover (%)	Notes	
Acacia colei var. co	lei	300	8		
Atalaya hemiglauca	1	200	0.1		
*Calotropis procera		200	0.1		
Carissa lanceolata		200	0.1		
*Cenchrus ciliaris		30	2		
Corymbia flavescer	IS	700	4		
Cyperus sp.		20	0.1		
Eucalyptus victrix		700	2		
Eulalia aurea		40	2		
Ficus aculeata		200	0.1		
Vigna lanceolata va	r. lanceolata	20	0.1		

Project Name Site: Location

Described by: Date: Type: Landform:

Slope: Rock Type: Soil Type: Soil Colour:

Vegetation:

GB,JH 3-03-2024 RELEVE

Clay,Loam Brown,Orange

N/A N/A

Drainage and shoulder Flat

			FLORA SITE	SHEET			
Project Name Site: Location	Atlas Ridley B AR18 MGA 50	iological Survey 720119 mE	7755143 mN	- Andre		MELL-	
Described by: Date: Type:	GB,JH 3-03-2024 RELEVE						
Landform: Slope: Rock Type: Soil Type: Soil Colour:	Edge of foothi N/A N/A Clay,Sand Brown,Orange	IIFlat					
Vegetation:	Acacia colei va epactia low op	ar. colei tall spa en hummock g	rse shrubland over Acacia rassland.	inequilatera low	isolated clumps of s	hrubs over Triodia	
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Grazing,Fauna	tracks/scats		
Taxon Acacia colei var. colei Acacia inaequilatera Pluchea dentex Pluchea ferdinandi-mu Triodia epactia	elleri		Height (cm) 250 200 40 40	Cover (%) 20 4 0.1 30	Notes		

			FLORA SITE	SHEET		
Project Name	Atlas Ridley Bio	ological Surve	/			
Site:	AR19	710950 mE	7754405 mN			
Location	MGA 50	/19850 ME	//54495 MIN	A YI TO AN		and the second se
Described by:	GB,JH			the second second	and the second second second	- Service and the service of
Date:	3-03-2024			AN A CAPTON OF	Bran Martin Ster	A State and the second
Гуре:	QUADRAT			A series and the series of	Pico - entry	and the set of the set
andform.	FloodplainFlat				and the second second	Carl State - 44
Slope:	N/A					
Rock Type:	N/A				the maint it.	
Soil Type:	Clay,Loam,Sar	nd			and the second	a state of the second second
Soil Colour:	Beige,Brown					
					The second	
					A ANT MARCO	
					TA Cal	E ANN / A
egetation:	Sclerolaena ho	stilis low isola	ed clumps of shrubs over	Triodia secunda l	low hummock grassla	and.
Condition:	Good		Disturbance Type:	Grazing Fauna	tracks/scats	
ire Age:	>10 years			e		
avon			Height (cm)	Cover (%)	Notes	
Aaireana melanocoma			10	0.1	Notes	
Sclerolaena hostilis			20	1		
riodia secunda			20	71		

			FLORA SITE	SHEET	
Project Name	Atlas Ridley E	Biological Survey	/		
Site:	AR20	740747	7750540 ···· N		
Location	MGA 50	/18/4/ ME	//52516 MN	A States and a state	
Described by:	GB,JH			and the second second	and the second the second s
Date:	3-03-2024			a loss	and the second s
Туре:	QUADRAT				the second s
Landform:	PlainsFlat				
Slope:	N/A			and and	Provide the state of the second s
Rock Type:	N/A			State State	AND CAREVARY CONTRACT
Soil Type:	Sand				
Soil Colour:	Orange				
				A SYAN	
				AND A COM	
					A CARLENDER STORE
Vegetation:	Acacia stellat	iceps low closed	l shrubland over Triodia e	pactia low sparse	hummock grassland
Condition:	Verv Good		Disturbance Type:	Litter.Fauna tra	cks/scats
Fire Age:	>10 years				
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Acacia stellaticeps			50	85	
Cassytha capillaris			30	0.1	
Triodia epactia			30	8	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	ological Survey	1		
Site: Location	AR21 MGA 50	669928 mE	7737669 mN	1000	
Described by:					And the second sec
Date:	4-03-2024				
Туре:	RELEVE				
Landform:	Plains			A CONTRACTOR	
Slope:	Flat			section 5	
Rock Type:	N/A			A CONTRACT	
Soil Type:	Loam,Sand			and the second se	
Soll Colour:	Brown,Orange				
Vegetation:	Eucalyptus vict epactia mid spa	rix low open w arse hummock	oodland over Acacia cole grassland.	i var. colei tall isol	ated clumps of shrubs over Triodia
Condition:	Good		Disturbance Type:	Grazing,Litter,F	auna tracks/scats
Fire Age:	>10 years			<u> </u>	
SPECIES LIST				0	Notes
Laxon			Height (cm)	Cover (%)	Notes
Acacia ampliceps			350	0.1	
Acacia coriacea subsp	. pendens		200	, 0.1	
Carissa lanceolata			160	0.1	
Acacia colei var. colei			250	0.5	
Cyperus sp.			20	0.1	
Triodia epactia			60 150	15	
Pluchea dentex	ea		150 30	0.1	
Chrvsopogon fallax			40	2	
en goopegen ranax				-	

Project Name Atlas Site: AR22	s Ridley Biological Surve			
Site: AR22	0	ý		
Location MGA	A 50 670914 mE	7737642 mN		
Described by:GB,JDate:4-03-Type:RELE	JH 3-2024 EVE			La barret for
Landform: Plain: Slope: Flat Rock Type: N/A Soil Type: Loarr Soil Colour: Brow	ns m,Sand vn,Orange			
Vegetation: Euca epac	alyptus victrix low open w ctia and T. sp. low sparse	voodland over Acacia colei e hummock grassland.	var. colei tall isola	ated clumps of shrubs over Triodia
Condition:VeryFire Age:>10 y	/ Good years	Disturbance Type:	Grazing,Fauna	tracks/scats,Infrastructure
SPECIES LIST Taxon Acacia ancistrocarpa Eucalyptus victrix Acacia iumida var. pilbarensi: Carissa lanceolata Acacia colei var. colei Corchorus sp. Corymbia candida subsp. ind Triodia epactia Hakea lorea subsp. lorea Melaleuca glomerata Pluchea dentex Chrysopogon fallax Triodia sp.	is det.	Height (cm) 140 900 200 150 250 20 250 60 150 140 30 40 20	Cover (%) 0.1 7 0.1 0.1 0.5 0.1 0.1 0.1 0.1 2 3	

			FLORA SIT	E SHEET			
Project Name	Atlas Ridley	Biological Surve	ý				
Site:	AR23					VI V Los	Banda II. and
Location	MGA 50	670584 mE	7738164 mN	149.00	Setting and	- VIA	2.60
Described by:	GB,JH				State of the	and the second second	
Date:	4-03-2024					the second of the	and the second
Туре:	QUADRAT			C.S. Party			
Landform:	Plains						
Slope:	Flat			er set i station and			Miles Section
ROCK Type:	N/A						and the
Soil Type:	Clay,Sand						
Soil Colour:	Brown,Orang	ge					
Vegetation:	Corymbia ha lanceolata m	nmersleyana low nid sparse shrubl	open woodland over Me and over Triodia epactia	laleuca glomerata, and T. sp. low spa	Acacia colei var. rse hummock gra	colei and Carissa ssland.	
Condition:	Very Good		Disturbance Type:	Infrastructure			
Fire Age:	> 5 years,>1	0 years					
SPECIES LIST							
Tayon			Height (cm)	Cover (%)	Notes		
					NOLES		
Acacia ancistrocarpa	:		150	0.1			
Acacia colei var. cole	1		200	0.5			
Acacia coriacea subs	p. pendens		140	0.1			
Acacia inaequilatera			170	0.1			
Carissa lanceolata			200	0.5			
Corymbia hamersleya	ana		200	9			
Melaleuca glomerata			200	5			
Hakea lorea subsp. lo	orea		40	0.1			
Acacia stellaticeps			40	1			
Triodia epactia			30	12			
Triodia sp.			20	8			

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bi	ological Survey			
Site:	AR24				
Location	MGA 50	673238 mE	7738339 mN	the amount	and the state of t
Described by:	GB,JH				and the state of the state
Date:	4-03-2024			States of the local division of	
Туре:	QUADRAT			States and	
Landform:	Alluvial flat				
Slope:	Flat			and the sea	
Rock Type:	N/A			A STATE	
Soil Type: Soil Colour:	Brown Orange				The state of the second
	2.01.1,01a.igo				A CARA PARTICIPAL OF A CARA PA
					and the second s
					· · · · · · · · · · · · · · · · · · ·
Vegetation:	Triodia epactia	a and T. secund	a low open hummock gra	issland.	
O and little and	Mara Orad			F auna (ma alua (a	
Condition: Fire Age:	>10 years		Disturbance Type:	Fauna tracks/s	cats
	r to youro				
SPECIES LIST			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			170	0.1	noics
Chrysopogon fallax			5	0.1	
Triodia epactia			40	30	
Triodia secunda			20	10	
1					

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bi	ological Survey	/		
Site: Location	AR25 MGA 50	673541 mE	7737691 mN		
Described by:	GB.JH				
Date:	4-03-2024				
Туре:	QUADRAT			States -	
Landform:	Plains				CARE TO LOUGH AND
Slope:	Flat			A CONTRACTOR OFFICE	
ROCK Type:	IN/A Clay Sand				
Soil Colour:	Brown Orange				
					the intervention
Vegetation:	Corvmbia cano	dida subso cai	ndida low isolated clumps	of trees over Aca	ucia colei var. colei tall sparse shrubland
r ogotation.	over Triodia ep	actia low oper	hummock grassland.		
Condition:	Very Good		Disturbance Type:	Weeds,Fauna	tracks/scats
Fire Age:	> 15 years				
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			400	12	
Acacia inaequilatera			160	0.1	
*Cenchrus ciliaris			20	0.1	
Chrysopogon fallax			20	0.1	
Corymbia candida sub	sp. candida		900	5	
Dolichandrone occiden	talis		30	0.1	
Malvaceae sp.			10	0.1	
Melaleuca glomerata	ri		250	0.1	
Triodia epactia	"		40	31	

Project Name ARadio Uble: ARadio Described by: GB_JH Described by: RelEVE Landform: Minor drainage Stope: Flat Rock Type: NA Soll Colour: Baige				FLORA SITE	SHEET		
Site: A26 Leatinon MGA 50 Described by: GB, JH Date: 4.03, 2024 Type: RELEVE Kandian Confraininge Stope: Fat Rock Type: Nad Soll Type:: Nat Soll Type:: Nat Soll Colur:: Vary Good Free Age:: 20 Soll Type:: 10 Constantine Incomest state, Incomest State Soll Colur:: 20 Carles alse incomests 20 Carles alse incomest state, Incomest State Soll Colur:: 30 Carles alse incomests 30 Carles alse incomest state, Incomest State Carles alse incomest state, Incomest State Carles alse incomest State Soll Colur:: Soll Coluri:: Soll Coluri:: Soll Coluri:: Soll Coluri:: <th>Project Name</th> <th>Atlas Ridley Bi</th> <th>iological Survey</th> <th></th> <th></th> <th></th> <th></th>	Project Name	Atlas Ridley Bi	iological Survey				
Leastion MGA 0 674502 mE 733067 mN Described IV: GB, HE data 4.03-2024 Type: ALLEVE Lundform: Na Sole Type: NA Sole Type: NA Sole Type: Sond Sole Colour: Beige Vegettion: Colour: Beige Vegettion: Colour: Beige Vegettion: Colour: Disturbance Type: Litter Fre Age: -10 years SPECIS LIST Taxona (var.obel 120 01) Sole 12	Site:	AR26					- Carro
 Description Y: B.H. YOR AND AND AND AND AND AND AND AND AND AND	Location	MGA 50	674502 mE	7738067 mN	-	and the second	- Constanting
Date::::::::::::::::::::::::::::::::::::	Described by:	GB,JH				ALL LOT	
Type: RELEVE Landorn: Mort drainage Spei: Filt Rock Type: Name Soil Type:: Name Soil Type: Soil Tolour: Beige Soil Colour: Beige Vegetation: Exceloptize victric how isolated clumps of trees over Acada: coler arc. coler indi isolated clumps of shrubs ore: Tree Age: Yeng Soil Type: Litter Fieldse: Yeng Soil Type: Litter Soil Tolour: Very Good Litter Soil Tolour: Very Good Litter Soil Tolour: Very Good Litter Soil Colour: Tolour Eleget (cn) Cover (%) Notes Acada: coler var. colei incolei var. colei var.	Date:	4-03-2024			the car		A CAPACITY STR
Landrom: Minor drainage Stop: File Stop: Sand Soil Topic: Sand With: Received of the sole dod the sole	Туре:	RELEVE				A Providence	and the second
Sipper III Fund Types III And Types IIII And Types IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Landform:	Minor drainag	e		Contraction of the local division of the loc		
Rock Type: NA Soil Colour: Said Soil Colour: Beige Vegetation: Localytics vicitir low isolated clumps of trees over Acaea cole var. cole indisolated clumps of shrubs over Tradie epactel low apares hummock grassiand Tree and the solated clumps of trees over Acaea cole var. cole indisolated clumps of shrubs over Treads epactel low apares hummock grassiand Tree and the solated clumps of trees over Acaea cole var. cole indisolated clumps of shrubs over Tree and the solated clumps of trees over Acaea cole var. cole indisolated clumps of shrubs over Tree and the solated clumps of shrubs over Acaea cole var. cole indison in the solated clumps of the solated clumps of shrubs over Tree and the solated clumps of the solated clumps of shrubs over Acaea cole var. cole in the solated clumps of the solated clumps of the solated clumps of the solated Core solated clumps in columps in the solated solated clumps of the solated clu	Slope:	Flat	-		The second second		
Soil Colour: Beige Vegestion: Eucalyptus victrix low isolated clumps of trees over Acacia colei var. colei mid isolated clumps of shrubs over Trodie apacita low sparse hummock grassiand. Erk Age: Veg Sood SPC Soft Soft Soft Soft Soft Soft Soft Soft	Rock Type:	N/A			A CALL STREET	- In and the man	
Soil Colour: Beige Vegetation: Eucolytikus vicitik low isoleted clumps of trees over Acea cole i var. colei mid isoleted clumps of shrubs over Trichde epactel low sparse hummock grassland. Soll Colour: Very Good Disturbance Type: Litter Fire Age: >10 years SPECIES LIST Taxon Years Solution Color Solution Soluti	Soil Type:	Sand			and the second second	The manual in the	
<text><text><text><text><text></text></text></text></text></text>	Soil Colour:	Beige			and the second second second		A Strange Land Contraction of the second
<text><text><text><text><text></text></text></text></text></text>							
<text></text>							
Yegetation: Euclaybrus wichs kow isolated clumps of treas over Acacia codei var. colei mid isolated clumps of shrubs over Treade space low years of treas and the synthesis of treas over Acacia codei var. colei mid isolated clumps of shrubs over the synthesis over the synthesis of treas over Acacia codei var. colei mid isolated clumps of shrubs over the synthesis over the synthesynthesis over the synthesynthesynthesis ov					The second	Section of the sectio	at in the
Condition: Yery God Disturbance Type: Litter Fire Age: >10 years SPECIES LIST Taxon Notes Taxoni colei/ var. colei/ 250 0.5 Aracai colei/ var. colei/ 5 0.1 Bonamis lineeris 5 0.1 Carissa lanceologia 0.0 0.5 Carissa lanceologia, incanus 30 0.1 Consporting Intelax 30 0.1 Consporting Intelax 30 0.1 Trooda epacitia 30 0.1 Troda epacitia 30 0.1 Troda epacitia 30 10	Vegetation:	Eucalyptus vid Triodia epactia	ctrix low isolated a low sparse hui	clumps of trees over Ad mmock grassland.	cacia colei var. col	ei mid isolated clump	os of shrubs over
Prin Age: >10 years	Condition:	Very Good		Disturbance Type:	Litter		
SPECIES LIST Taxon <u>Performantal Construction</u> Acceia colei var. colei Acceia colei var. colei Carissa lanceolata Carissa lanceolata Carissa lanceolata Corchorus inceanus subps, inceanus 30 Corchorus inceanus subps, incea	Fire Age:	>10 years					
I axonHeight (cm)Cover (%)NotesAccaia colei var. colei2500.1Boramia linearis50.1Carissa lanceolata1200.1Carissa lanceolata200.5Corchorus incanus subsp. incanus300.1Evcalputa victix8005Tinospora smilacina300.1Triodia epactia3010	SPECIES LIST				6 (61)	N /	
Acada colei var. Colei 250 0.5 Archylaartins surantiacus 5 0.1 Bonamia linearis 5 0.1 Carissa lanceolata 120 0.1 Carissa lanceolata 10 0.1 Corchous incenus subsp. incenus 30 0.1 Eucalyptus victrix 800 5 Trinospora smilicina 30 0.1 Triodia epactia 10 1	Taxon			Height (cm)	Cover (%)	Notes	
Artoniyaahins aurahadus 5 0.1 Bonamia linearis 5 0.1 Carissa lanceolata 120 0.1 Carisos lanceolata 20 0.5 Corchorus incenus subsp. incenus 30 0.1 Euceluptus victix 800 5 Trnospora smilacina 30 0.1 Triodia epactia 30 10	Acacia colei var. colei	20112		250	0.5		
Dalalina inicaisa Carissa inicaelolata Cassylha capillaris 10 Chryspogon Ialiax 20 Corchorus incanus subsp. incanus 30 Corchorus incanus subsp. incanus 30 Corchorus incanus subsp. incanus 30 Corchorus incanus 30 Corchorus incanus subsp. incanus 30 Corchorus incanus subsp. incanus 30 Corchorus incanus subsp. incanus 30 Corchorus incanus 30 Corc	Atronybantnus auranti Ronomio linoorio	acus		5	0.1		
Carissa inicularia Carissa inicularia Chrysopogon fallax Corchous incanus subsp. incanus 800 5 Trinospore smiliacina 30 0.1 Triodia epactia 30 10	Corisso longooloto			5 120	0.1		
Conspondential 20 0.5 Conchrons incanus subsp. incanus 30 0.1 Evcalptus victrix 800 5 Tinospora smilacina 30 0.1 Triodia epactia 30 10	Cassytha capillaris			10	0.1		
Corchorus Incanus subsp. incanus 30 0.1 Eucalyptus vietrix 800 5 Tinospora smilacina 30 0.1 Triodia epactia 30 10	Chrysopogon fallax			20	0.5		
Eucalyptus victrix 800 5 Trospora smilacina 30 0.1 Triodia epactia 30 10	Corchorus incanus sul	osp. incanus		30	0.1		
Tirospora smilacina 30 0.1 Triodia epactia 30 10	Eucalyptus victrix			800	5		
Triodia epactia 30 10	Tinospora smilacina			30	0.1		
	Triodia epactia			30	10		

			FLORA SITE	SHEET		
Project Name	Atlas Ridley B	iological Survey				
Site:	AR27		7700005 N	11 with	1	XX
Location	MGA 50	676097 mE	7738235 mN	ale states	and a section of	1.10
Described by:	GB,JH					1 for
Date:	4-03-2024					Teller and Company
туре:	RELEVE			Sector 19		
Landform:	Drainage shou	ılder				June 1
Slope:	Flat				and the second second	
ROCK Type: Soil Type:	N/A Clay Sand			A Provide	State of the state	A LANS
Soil Colour:	Brown,Orange)		Sec. 1		
				1 Clark	Martine Les	
						A CARLENS AND
Vagatation	Malalausa ala	marata and Aca	aia trachycarna tall anan	abrubland over *	Construe oiliorio louv operato t	uppook
vegetation:	grassland ove	r Triodia epactia	low isolated clumps of h	nummock grasslar	nd.	USSOCK
Condition:	Degraded		Disturbance Type:	Weeds, Grazing	g,Litter,Fauna tracks/scats	
Fire Age:	>10 years					
SPECIES LIST			Hoight (am)	Cover (P/)	Notos	
Acacia trachycarna			250	3	NOICS	
*Aerva javanica			30	0.1		
Afrohybanthus aurant	acus		10	0.1		
Carissa lanceolata			200	0.1		
Corchorus incanus su	bsp. incanus		20	0.1		
Cucumis variabilis			30	0.1		
Melaleuca glomerata			300	20		
l riodia epactia Waltheria indica			40 10	3		
Walthena Indica			10	0.1		

FLORA SITE SHEET

Ducient Norma	Atla a Didlard	Bislasia el Oursee				
Project Name	Atlas Ridley	Biological Survey			The second	
Location	MGA 50	676159 mE	7738365 mN	W. Cas	- ADA	
Described by:	GB IH			and the second second	and shares of the state of the	
Described by:	4-03-2024				- CAN	- Maria
Type:	RELEVE				110	Martin
Landform:	Drainage			Et alle		- Carlos
Slope:	Flat					
Rock Type:	N/A			and the second se		
Soll Type:	Sand			- Kar	and the second second	
Soli Colour:	Orange			Same and and	a f	ALL CARE
				Sale and	a set the set in the	State of
				Ser Se		CALL ST
				JE-V	and the second	ALCON .
Vegetation:	Fucalvotus	victrix low isolated	clumps of trees over M	alaleuca domerat	a and Crotalaria cunninghamii subsp	sturtii
vegetation.	mid isolated	l clumps of shrubs	over Triodia epactia low	isolated clumps (of hummock grasses.	. sturti
Condition:	Good		Disturbance Type:	Weeds,Grazin	g,Fauna tracks/scats	
Fire Age:	>10 years					
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Afrohybanthus aurai	ntiacus		20	0.1		
Arivela viscosa			30	0.1		
Cajanus pubescens			80	0.1		
Cenchrus ciliaris	when inconve		30	0.1		
Crotalaria cunningha	amii suhsn sturt	ii	100	0.1		
Cvnanchum floribun	dum	n	30	0.5		
Eucalvotus victrix	aann		900	4		
Euphorbia tannensis	subsp. eremop	hila	20	0.1		
Euphorbia trigonosp	erma		40	0.1		
Evolvulus sp.			5	0.1		
Ipomoea muelleri			20	0.1		
Melaleuca glomerata	а		180	1		
Polymeria ambigua			2	0.1		
Rhynchosia minima			20	0.1		
Senna notabilis	Eartonou a ara	No (MILI Prooks	20	0.1		
Tephrosia rosea var. Tinospora smilacina	. Fonescue cree	EKS (IVI.I.H. DIOOKE	00 20	0.1		
Triodia enactia			20 40	1		
moula opaolia			10			

			FLORA SITE	SHEET	
Project Name	Atlas Ridley B	iological Survey			
Site: Location	AR29 MGA 50	679167 mE	7738712 mN	2	
Described by: Date: Type:	GB,JH 4-03-2024 RELEVE				MARK Martin
Landform: Slope: Rock Type: Soil Type: Soil Colour:	Plains Flat N/A Clay,Loam Orange				
Vegetation:	Acacia tumida stellaticeps lo	a var. pilbarensis w isolated clump	and Grevillea wickhamii os of shrubs over Triodia	subsp. hispidula t epactia low spars	tall open shrubland over Acacia e hummock grassland.
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Fauna tracks/s	cats
Taxon Acacia inaequilatera Grevillea wickhamii su Acacia trachycarpa x t Acacia turnida var. pilb Acacia stellaticeps Eulalia aurea Hakea lorea subsp. loi Pluchea dentex Triodia epactia	bsp. hispidula umida var. pilba parensis rea	arensis	Height (cm) 200 400 300 40 200 30 40 40	Cover (%) 0.1 4 0.1 30 0.5 0.5 0.1 0.1 10	Notes

			FLORA SITE	SHEET		
Project Name	Atlas Ridlev Bid	ological Survey				
Site:	AR30	ological called		And a second		
Location	MGA 50	679457 mE	7739332 mN	Ma a	· ·	A and Williams
Described by:	GB,JH			La Mar All	AND	A State of the second
Date:	4-03-2024					A CONTRACTOR OF A CONTRACT
Туре:	RELEVE					PLAN NURCE
					The second	
Landform:	Minor drainage	•		A CONTRACTOR OF THE OWNER	A CHANNER	
Slope:	Flat			and the second state	12 6 21 2 2	CARL STREET
Rock Type:	N/A			States and the second s	1 481 2	The Art Martin and
Soil Type:	Sand			14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	A. ZEIN 1	
Soil Colour:	Brown					
					in a start for a start	
					1 1 × 21 + 3	the state of the s
				·	and have a state	A CARLES ARE
				- 1 Mar	4 4 J . 4 . 4	S. Aletter J.
Vegetation:	Eucalyptus vict clumps of hum	trix low open wo mock grasses.	oodland over Acacia traci	hycarpa tall spars	e shrubland over Trio	dia epactia isolated
Condition	Very Good		Disturbance Type:	Grazing Fauna	tracks/scats	
Fire Age:	>10 years		Disturbunce Type.	Grazing,r auna	1112013/30213	
i no rigo.	2 To youro					
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Acacia colei var. colei			200	0.1		
Acacia trachycarpa			350	6		
Afrohybanthus aurantia	acus		20	0.1		
Cajanus pubescens			20	0.1		
Carissa lanceolata			140	0.1		
Cassytha capillaris			20	0.1		
Corymbia hamersleyar	na 		200	0.1		
Crotalaria cunningham	ii subsp. sturtii		20	0.1		
Cynanchum fioribundu	m		20	0.1		
Eucarypius vicinx			40	5		
Eunhorhia trigonosperi	no		40	0.5		
Ficus aculeata var ind	ecora		200	0.1		
Grevillea wickhamii sul	oso hisnidula		180	0.1		
Hakea lorea subsp. lor	ea		200	0.1		
Melaleuca glomerata			300	0.1		
Tephrosia rosea var. F	ortescue creeks	(M.I.H. Brooke	20	0.1		
Themeda triandra			30	0.1		
Triodia epactia			30	1		

			FLORA SITE	SHEET			
Project Name	Atlas Ridley B	iological Survey	/				
Site:	AR31						
Location	MGA 50	663695 mE	7736402 mN				
Described by:	GB,JH				And a strength of the second		State State
Date:	5-03-2024			and the second se	and a second	and the state	
Туре:	QUADRAT				Constant of the second		
Landform:	Plains			Sec. Sec.			111. 12.
Slope:	Flat			and the second second			
Rock Type:	N/A					An Starting	
Soil Type:	Sand			A Net			
	Orange				And Street	The second	- 6
					es Barres		STERNE
					NOR COL		MARK
				States &		Barris /	
Vegetation:	Acacia stellat	iceps low open a	shrubland over Triodia epa	actia low sparse h	nummock grassland.		
Condition:	Very Good		Disturbance Type:	None			
Fire Age:	>10 years						
SPECIES LIST				•	N (
Taxon			Height (cm)	Cover (%)	Notes		
Acacia stellaticeps			50	31			
Triodia epactia			40	20			

Project Name Attra Bits: Attra Continion MSA 50 682436 mE 7739814 mN Described by: GB,JH Described by: GB,JH Dete: 5-03-2024 Type: QUADRAT Landform: Plans Stope: Flat Rok Type: NA Stope: Flat Rok Type: Conge Disturbance of charge of stope: Life, Flat Soil Type: Condition: Grange Disturbance Type: Life, Flauna tracks/scats, Infrastructure Yegetation: Condition: Good Disturbance Type: Life, Flauna tracks/scats, Infrastructure SPECIES LIST Taxon telepit (cm) Cover (%) Notes Acacia stephthyle 170 0.1 Acacia stephthyle Acacia stephthyle Acacia stephthyle 170 0.1 Acacia stephthyle Acacia stephthyle Acacia stephthyle Acacia stephthyle 170 0.1 Acacia stephthyle Acaci				FLORA SITE	SHEET	
Site: M3A 20 Location MGA 50 B2438 mE T33814 mN Described by: GB_H Type: GB_H CUADRAT T33814 mN Image: Comparison of the type of type of the type of type of the type of	Project Name	Atlas Ridley	Biological Survey			
Lacation MiA so book book book book book book book b	Site:	AR32		7700044		and share the second states of the second states of
Described by: GB,HH Det: 5-03-203 Type: QUADRAT Landform: Plains Solpe: Flat Rock Type: NA Soil Zoleur: Orange Vegetation: Rock Soland Soil Zoleur: Orange Flat Rock Type: Coleur: Orange Interface the solution of thruths over Acacles stellaticeps and insoluted clumps of shruths over Acacles stellaticeps and acade acade acade acade acade acad	Location	MGA 50	682436 ME	7739814 mN	and there are	
Date: 5.03 2024 Type: QUADRAT Landform: Plains Slope: Flat Soch Type: Clay,Sand Soll Tolour: Orage Vegetation: Acacla inacquilatora tall isolated clumps of shrubs over. Acacla stallaticsps mid isolated clumps of shrubs over. Trodia espacia low open hummock grassland. Trodia espacia low open hummock grassland. SPECIES LIST Starbance Type: Liter, Fauna tracks/scats, infrastructure Tacola incorphylic Acacla isolated for the solution of th	Described by:	GB,JH				and the second se
Index of the constraint of	Date:	5-03-2024			ALCONT OF	A CONTRACTOR OF A CONTRACTOR A
 Landrorr: Park Rock Type: NA Soll Type: Orange Vegetato: Caccle ineequalitient at is lookied of strubs over Acacia stellatores and soleid dumps of strubs over Acacia encode is wore nhumance grassiant. Yenetation: Cocc Type Type: Liter, Fauna tracks/solts, infrastructure. Ter Type: Type:	Гуре:	QUADRAT				and a second particular and the
Sione: Fint Rock Type: NA Soil Type: Clay, Sand Soil Colour: Orange Wegetation: Acacia insequilatera tail isolated clumps of shrubs over Acacia stellakoeps mid isolated clumps of shrubs over Thedia epacitia kow open hummock grassland. Condition: Cool den: Find ge: 10 years SPECIES LIST Taxin Height (cm) Cover (Yo Notes Acadia eshcolyth or pubbrensis 100 0.5 Acadia eshcolyth, forea 200 0.5 Acadia eshcolyth, forea 200 0.5 Acadia eshcolyth, forea 200 0.5 Atadia eshcolyth, fore	Landform:	Plains				
Rock Type: N/A Soil Type: ClaySand Soil Colour: Crange Vegetation: Acacia inaequilatere tall isolated clumps of shrubs over Acacia stellaticaps mid Isolated clumps of shrubs over Trodia opacia low open hummock grassland. Condition: Good Disturbance Type: Litter, Fauna tracks/scats, Infrastructure Fire Age: >10 years SPECIES LIST Taxin Heaguilatere 250 3. Acacia tranta w. Jibarensis 150 0.5 Acacia tranta w. Jibarensis 150 0.5 Hokea dorea subsp. forene 300 0.1 Hokea dorea s	Slope:	Flat			A BAR	
Win Colour: Cury and Wing Soli Colour: Orange Yeatation: Acobit insequilation tall isolated clumps of shrubs over Acacia stellaticaps mid isolated clumps of shrubs over Acacia stellaticaps isolated clumps of shrubs over Acacia stellaticaps isolated clumps of shrubs over Acacia stellatisolated clumps over Acacia stellaticaps over	Rock Type:	N/A Clay Sand				
<text></text>	Soil Colour:	Orange				
Year III: Cacia inaequilatera tal isolated clumps of shrub so var. Acacia stallalicops mil skolated clumps of shrubs over. Cartitive: Good Disturbance Type: Litter,Founa tracks/scats,Infrastructure Fire Age: > 10 years Disturbance Type: Litter,Founa tracks/scats,Infrastructure SPCIES LIST Taxana (100 years) Taxana (100 years) Taxana (100 years) Spacia isolatedra (100 years) 170 0 1 Acacia stallacops Taxana (100 years) Spacia isolatedra (100 years) 170 0 1 Acacia stallacops Taxana (100 years) Macaia stallacops 170 0 1 Acacia stallacops Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) Macaia stallacops 170 0 1 Taxana (100 years) Taxana (100 years) <td></td> <td>g-</td> <td></td> <td></td> <td></td> <td></td>		g-				
<text><text><text></text></text></text>						ENGLISH MALE AND AND A
<text><text><text><text><text></text></text></text></text></text>						
Yegetation: Acacia insequilatoria cull isolated olumps of shrubs over Acacia stellaticops mid isolated olumps of shrubs over Tricial espacial low open humnock grassland. Condition: Gon Disturbance Type: Litter, Fauna tracks/scats, Infrastructure Fre Age: >10 years Stellation Notes Acacia isolation of the shrubs over (%) Notes Notes Acacia isolation of the shrubs over (%) Notes Notes Acacia isolation of the shrubs over (%) Notes Notes Acacia isolation of the shrubs over (%) Notes Notes Acacia isolation of shrups over (%) Notes Notes Acacia isolation of shrups over (%) Notes Notes Acacia isolation over (%) Notes Notes Disardia isolation over (%) Notes Notes Tradica isolation over (%) Notes Notes Tradica isolation over (%) Notes Notes Tradica isolation over (%) Notes Notes <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Condition: You years BYCOLE LIST Taxin <u>Provension Provided Transmission Provention Proventi Proventi Proven</u>	Vegetation:	Acacia inaeq Triodia epact	uilatera tall isolate ia low open humn	ed clumps of shrubs over nock grassland.	r Acacia stellatice	ps mid isolated clumps of shrubs over
Condition: Good Disturbance Type: Litter, Fauna tracks/scats, Infrastructure Fire Age: >10 years SPECIES LIST Taxon <u>Height (cm) Cover (%) Notes</u> Acacia inaequilatera <u>250 3</u> Acacia stelaticaps <u>100 0.5</u> Acacia utimida var., pilbarensis <u>70 0.1</u> Borania erecta Borania erecta Borania erecta Acacia stelaticaps, Icrea <u>30 0.1</u> Pluchea dentex Triodia epecta		-				
SPECIES LIST Taxon Height (cm) Cover (%) Notes Acacia sericophylia 170 0.1 Acacia selicitatorepis 150 0.5 Acacia tumida var. pitaronsis 70 0.1 Boramia errota 20 0.1 Chysopogon fullex 20 0.5 Hakea korea subsp. korea 30 0.1 Triodia epacitia 40 31	Condition:	Good	ſ	Disturbance Type:	Litter,Fauna tra	acks/scats,Infrastructure
SPECIES LIST Taxon Eleventical Cover (%) Notes Acacia sencophyla 170 0.1 Acacia setelaticops 150 0.5 Acacia setelaticops 20 0.1 Bonamia erocta 20 0.1 Chrysopogen frailax 20 0.5 Hakea lorea subsp. Jorea 30 0.1 Puchea dentex 30 0.1 Triodia epactia 40 31		r to jouro				
Taxon Height (cm) Cover (%) Notes Acacia insequilatora 250 3 Acacia sinophylia 170 0.1 Acacia sinophylia 70 0.4 Bonamia erecta 20 0.1 Chrysopogon fallax 20 0.5 Hakea iorea subsp. Jorea 30 0.1 Pluches dentex 30 0.1 Triodia epacitia 40 31						
Acacia inaequilatera 250 3 Acacia sericophyla 170 0.1 Acacia stellicteps 150 0.5 Acacia stellicteps 20 0.1 Boramia erocha 20 0.1 Chrysopogon fallex 20 0.5 Hakea lorea subsp. lorea 30 0.1 Triodia epacita 40 31	Taxon			Height (cm)	Cover (%)	Notes
Acacia sericophylla 170 0.1 Acacia sterinophylla 150 0.5 Acacia sturnida var. pilbarensis 70 0.1 Bonamia erecta 20 0.5 Hakea lorea stubsp. Jorea 30 0.1 Puchea dentex 30 0.1 Triodia epactia 40 31	Acacia inaequilatera			250	3	
Acacia stellaticeps 150 0.5 Acacia stellative ar. pilbarensis 70 0.1 Bonamia enecta 20 0.5 Hakea lorea subsp. lorea 30 0.1 Pluchea dentex 30 0.1 Triodia epactia 40 31	Acacia sericophylla			170	0.1	
Reacta funda var. junda ensis Bonamia erecta 20 0.1 Histea lorea subsp. lorea 30 0.1 Pluchea dentex 40 31	Acacia stellaticeps	baransis		150	0.5	
Chrysopogon fallax 20 0.5 Hakka lorea subsp. lorea 30 0.1 Pluchad dentex 30 1 Triodia epactia 40 31	Bonamia erecta	Darensis		20	0.1	
Hakea lorea subsp. lorea 30 0.1 Pluchea dentex 30 0.1 Triodia epactia 40 31	Chrysopogon fallax			20	0.5	
Pluchea dentex 30 0.1 Triodia epactia 40 31	Hakea lorea subsp. lo	rea		30	0.1	
	Pluchea dentex Triodia enactia			30 40	0.1 31	
	Thould opdotid			10	01	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	ological Survey	/		
Site: Location	AR33 MGA 50	685620 mE	7740326 mN	-	
Described by:	GB.JH				A Contraction of the second se
Date:	5-03-2024			No DELY ROM	
Туре:	RELEVE			A States	
Landform	Minor drainago			S S ALL AND	
Slope	Flat				
Rock Type:	N/A				and the second second
Soil Type:	Sand			AN INCOMPANY	
Soil Colour:	Brown,Orange			No. of Concession, Name	and the state of the second state of the secon
				A.	-7
Vegetation:	Eucalyptus vict mid isolated clu	rix and Corym Imps of shrub:	bia candida subsp. candic s over Triodia epactia low	la low isolated clu sparse hummock	mps of trees over Acacia colei var. colei grassland.
Condition:	Very Good		Disturbance Type:	Vehicle tracks,	Fauna tracks/scats
Fire Age:	>10 years				
SPECIES LIST			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			350	0.5	NOICES
Acacia pvrifolia var. pv	rifolia		180	0.1	
Aristida holathera var.	holathera		10	0.1	
Atalaya hemiglauca			450	0.1	
Carissa lanceolata			180	0.1	
Cassytha capillaris			100	0.1	
Corchorus Ianiflorus			40	0.1	
Coronorus sp. Corombia candida sub	sp. candida		700	0.1	
Eremophila longifolia	op. oundidu		100	0.1	
Eucalyptus victrix			900	1	
Eulalia aurea			30	8	
Euphorbia australis val	r. subtomentosa		10	0.1	
Indigofera linnaei			10	0.1	
Nellica maderaspatens	sis		20	0.1	
Triodia epactia			30	10	

dley Biological Surve 683853 mE 24 AT and	y 7739914 mN		
683853 mE	7739914 mN		
24 AT and			
24 AT and			
and			
and			
and			
			STATE AND
naequilatera and A. I odia epactia and T. s	bivenosa mid sparse shrul p. low open hummock gra	oland over Acacia sses.	stellaticeps low isolated clumps of shrubs
od rs	Disturbance Type:	Infrastructure	
	Height (cm)	Cover (%)	Notes
	160	0.1	
	160	4	
	50	1	
	20	0.1	
	50 40	0.1 31	
	20	2	
	odia epactia and 1. s pod irs	odia epactia and 1. sp. tow open nummock gra nod Disturbance Type: Ifs Height (cm) 160 160 180 50 20 50 40 20	Index Disturbance Type: Infrastructure Ins Height (cm) Cover (%) 160 0.1 160 4 180 4 100 1 20 0.1 100 1 160 4 100 4 180 4 100 1 20 0.1 100 1 20 0.1 100 1 20 0.1 100 1 20 2 2 1

Project Name Atase Location MGA 50 BB0718 T 738977 mN Described by: GB, H BB0718 BB0718 F 738977 mN Described by: GB, H BB0718 BB0718 F F F F F F F F F F F F F F F F F F F				FLORA SITE	SHEET		
Site: AR35 Gest13 mE 7738677 mN MGA 50 Gest718 mE 7738677 mN Exected by: GRJH RELEYE 543.7027 MN RELEYE 7000 MILLION CONTROL CO	Project Name	Atlas Ridley	Biological Surve	у			
 Bacter W. B. B. B. Star Star Star Star Star Star Star Star	Site: Location	AR35 MGA 50	686718 mE	7739877 mN			ALL BOOK
Type: RELEVE Landorni: Plai Solt Type: Na Solt Type: Na Solt Tope: Rown	Described by:	GB,JH 5-03-2024					
Lander, in: Reis Store: No. Store: Reverse in the store: Store: Concernent in the store: Verset: Concernent in the store: Concernent in the store: Concernent in the store: Provide: Concernent in the store: Store: Differe: Concernent in the store: Concernent in the store: Concernent in the store: Concernent in the store: Concernent in the store: Concernent in the store: Store: Differe: Concernent in the store: Concernent in the store: Concernent in the store: Concernent in the store: Store: Differe: <td>Туре:</td> <td>RELEVE</td> <td></td> <td></td> <td></td> <td>A AMALE</td> <td></td>	Туре:	RELEVE				A AMALE	
 Andre Frieder Kinger, Kinger,	Landform:	Plains			Real Ar	ASTAN-	
Soil Coour: Brown	Rock Type:	N/A				North Martin	CARLES AND
Sail Colour: Brwn Vegetation: Acacie tumida ver. pilharensis and A. ancistrocarpe tell open shrubhend over Trode epecte low sparse hummod. Grassind over Eulaka aurea and Chrysopogon fallax tow isoleted clumps of tussock grasses. Ter Age: Yety Good Disturbance Type: Fauna tracks/scatts Fire Age: Yety Good <u>0 2 Acacia aurea and Chrysopogon fallax tow isoleted clumps of tussock grasses.</u> SPECEESTET Taxin <u>Acacia inacquitations <u>50 0 2 Acacia aurea and 50 0 2 Acacia inacquitations <u>50 0 1 Acacia inacquitations aurea and 50 0 2 Acacia inacquitations <u>50 0 1 Bookinaricono coedionalis</u> <u>50 </u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>	Soil Type:	Clay,Loam,S	and		Color Color	No.	
Yegetation: Accola turnitica var., plibaranska san A. ancistrocarpa taili open shrubland unver Triodie epacie kow sparse hummock Caracita contexe Ukalia aurea and Chrysopogon fallax kow isolated ulumos of usasock grasses. Condition: Very Context Disturbance Type: Pauna tracks/scalita Terre : >10 years Disturbance Type: Pauna tracks/scalita SPCIES LST Taxacia macquitationa Disturbance Type: Notes Accola inacculationa Disturbance Type: One of the plane of the pl	Soil Colour:	Brown					
Condition: Yer Good Disturbance Type: Fauna tracks/scats Fire Age: > 10 years	Vegetation:	Acacia tumic grassland ov	la var. pilbarensi ver Eulalia aurea	is and A. ancistrocarpa tal and Chrysopogon fallax l	ll open shrubland ow isolated clump	over Triodia epact	ia low sparse hummock ses.
SPECIES LIST Taxon Height (cn) Cover (%) Notes Asacia instructorapa 250 0.1 Asacia instructorapa 250 0.1 Asacia instructorapa 250 0.1 Corynba favescens 350 1 Corynba favescens 350 0.1 Dichtandrone cuclentalis 140 0.1 Euleia surva 40 5 Godonia Improsparma 10 0.1 Puches dentex 30 0.1 Stela sp. Pubare (A.A. Michell PRP 1543) 50 0.1 Sternodia grossa 30 10	Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Fauna tracks/s	scats	
radio negri (citi) Cover (x) Notes Acacia insitrocarpa 300 2 Acacia insitro x, plbarensis 350 20 Chrysopogon fallax 50 1 Corynbia flavescris 350 1 Delichandrone occidentalis 140 0.1 Eulala aurea 40 5 Godonia lamprosperma 10 0.1 Pluchea denicex 30 0.1 Stea go. Plbares 30 0.1 Stea go. Plbares 30 0.1 Stea go. Plbares 30 0.5 Triodia epactia 30 10	SPECIES LIST			Height (am)		Notos	
Acaca i umrida var. pilbarensis 350 20 Chryspogo fallax 50 1 Corymbia flavescens 350 0.1 Dichtandrone occidentalis 140 0.1 Eukla surve 40 5 Goodenia flavescens 30 0.1 Scodenia flavescens 30 0.1 Eukla surve 40 5 Goodenia flavescens 30 0.1 Stea p.Pibras collare occidentalis 140 0.1 Puchea dentex 30 0.1 Stea p.Pibras (A.A. Michell PRP 1543) 50 0.1 Stemodie grossa 30 10	Acacia ancistrocarpa			300	2	Notes	
Acacia turiida var. pilarensis 350 20 Chrysopogon follax 50 1 Carymbia flavescens 350 0.1 Dolchandrone occidentalis 140 0.1 Eulalia auree 40 5 Goodenia lamprosperma 10 0.1 Puchea dentex 30 0.1 Stla sp. Pilbara (A.A. Mitcheil PRP 1543) 50 0.1 Stle asp. Pilbara (A.A. Mitcheil PRP 1543) 30 0.5 Triodia epactia 30 10	Acacia inaequilatera			250	0.1		
Chrysogon fallax 50 1 Delichandrone occidentalis 140 0.1 Evilala aurea 40 5 Godenia Improsperma 10 0.1 Pluchea dentex 30 0.1 Stea Sp. Pilara (A. Mitchell PRP 1543) 50 0.1 Stemodia grossa 30 0.5 Triodia epactia 30 10	Acacia tumida var. pi	ilbarensis		350	20		
Conjunitar landescaria Dicinandrome occidentalis 140 0.1 Eulalia aurea 40 5 Goodenia lamprosperma 10 0.1 Pluchea dentex 30 0.1 Stata sp. Pilbara (A.A. Mitchell PRP 1543) 50 0.1 Stemodia grassa 30 0.5 Triodia epacita 30 10	Chrysopogon fallax			50	1		
Eulalia aurea 40 5 Goodenia lamprosperma 10 0.1 Pulchea dentex 30 0.1 Sta sp. Pilbara (J.A. Mitchell PRP 1543) 50 0.1 Sta sp. Pilbara (J.A. Mitchell PRP 1543) 50 0.1 Sta sp. Pilbara (J.A. Mitchell PRP 1543) 30 0.5 Triodia epacita 30 10	Corymbia navescens Dolichandrone occide	entalis		350 140	0.1		
Goodenia lamprosperma 10 0.1 Pluchea demiex 30 0.1 Skada sp. Pilitsa (JA. Müchell PRP 1543) 50 0.1 Stemodia grossa 30 0.5 Triodia epacita 30 10	Eulalia aurea	, and the second s		40	5		
Pluchea dentex 30 0.1 Stds sp. Pilkara (A.A. Mitchell PRP 1543) 50 0.1 Stemodia grossa 30 0.5 Triodia epactia 30 10	Goodenia lamprospe	rma		10	0.1		
Sida sp. Allbara (A.A. Michell PKP 1543) 50 0.1 Stemola grossa 30 0.5 Triodia epactia 30 10	Pluchea dentex			30	0.1		
Siemonie grossa 30 0.3 Triodie epacita 30 10	Sida sp. Pilbara (A.A.	. Mitchell PRP 1	543)	50	0.1		
	Stemodia grossa Triodia enactia			30	0.5		

			FLORA SITE				
Project Name	Atlas Ridley	Biological Survey					
Site:	AR36	Siciogical Carvey					
Location	MGA 50	700023 mE	7741014 mN	-		S	
Described by:	GB,JH						
Date:	6-03-2024			-	- Alter -		-
Туре:	RELEVE				- matis aller	all and the second second	
Landform:	Granite quar	tz outcropping		and the second			
Slope:	Moderate			a president and		A REAL PROPERTY OF	- The second
Rock Type:	Granite,Quar	tzite			State of the state of the	A CONTRACTOR OF THE	
Soil Type:	Clay,Loam			and the second	Service States	Aller I Aller Han	T THE ST
Soil Colour:	Brown						
Vegetation:	Acacia tumid isolated clum hummock gra	la var. pilbarensis ops of shrubs ove assland.	s, Grevillea pyramidalis s er Acacia ancistrocarpa l	subsp. leucadendro low isolated clumps	on and G. wickhamii s s of shrubs over Triod	ubsp. hispidula mid ia epactia low open	
Condition:	Excellent		Disturbance Type:	None			
Fire Age:	>10 years						
JPECIES LIST			Hoight (om)	Cover (9/)	Notos		
					Notes		
Acacia ancistrocarpa	wifelie		100	0.5			
Acacia pyrifolia var. p	yrifolia Ibereneie		50	0.1			
Acacia turnida var. pli	Darensis		200	0.5			
acalcia adoxa var ado)xa		20	0.1			
Corymbia namersieya	ana aukan lausada	u alva u	170	0.1			
Grevillea pyramidalis	subsp. leucade	naron	170	0.5			
Grevillea wicknamii si	ubsp. nispidula		150	0.5			
moula epacila			30	23			
l							
1							
l .							

			FLORA SITE	SHEET		
Project Name	Atlas Ridley	Biological Surve	у			
Site:	AR37			The second se		
Location	MGA 50	704815 mE	7741870 mN	Sec. 3		Just
Described by:	GB,JH			Land Barrand	une utra	
Jate:	6-03-2024			Station - S	de la contraction de la contra	
ype:	RELEVE				CARLES CONTRACT	
andform:	Granite outc	ropping				
Slope:	Moderate			and the second second		And the second
Rock Type:	Orange			States and		
Soil Type:	Gravel					I FOR A
Soil Colour:	Orange				2 AN	
/egetation:	Acacia inaeo hummock gr	quilatera and Ere rassland.	mophila longifolia mid iso	lated clumps of sh	rubs over Triodia epactia low	sparse
Condition:	Very Good		Disturbance Type:	Weeds Infrasti	ucture	
Fire Age:	>10 years		Disturbance Type.	Weeds,iintasti		
SPECIES LIST						
Faxon			Height (cm)	Cover (%)	Notes	
Abutilon lepidum			30	0.1		
Acacia colei var. cole	i		30	0.1		
Acacia inaequilatera			150	0.5		
Caianus nubescens			60	0.0		
Conchrus ciliaris			20	0.1		
Eremonhila Iongifolia			150	0.1		
Sonno ortomisioidos	subsp bolmsii		50	0.5		
Senna vanuata	subsp. neimsii		30	0.1		
			30	0.1		
Solanum sp. Tinggnorg gmiloging			20	0.1		
i inospora smilacina			180	0.1		
i riodia epactia			15	15		
Triumfetta sp.			30	0.1		

FLORA SITE SHEET

			FLONA SIT			
Project Name Site:	Atlas Ridley E	Biological Survey	/		100 C 100	3.44
Location	MGA 50	704511 mE	7742260 mN	100 C		2.0
Described by:	GB,JH				. Ve	·
Date:	6-03-2024			5 Golden	A. H. T.	
Туре:	RELEVE			CIT TOUR	and the second	
Landform:	Quartz ridge				NO STOR	Service Sta
Slope:	Gentle				Standard Bar	
Rock Type:	Granite,Quar	tzite		And	Constraints.	CONSIGNATION OF
Soil Type:	Gravel				- Automation	A CANADA AND
Soil Colour:	Orange					
Vegetation:	Acacia inaeq epactia low s	uilatera mid isola parse hummock	ated clumps of shrubs ov grassland.	rer A. orthocarpa lov	v isolated clumps	of shrubs over Triodia
Condition: Fire Age:	Very Good 1-5 years		Disturbance Type:	Infrastructure		
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Acacia inaequilatera			180	2		
Acacia orthocarpa			50	2		
Grevillea pyramidalis	subsp. leucadei	ndron	70	0.1		
Petalostylis labicheoid	les		30	0.1		
Sida sp. Pilbara (A.A.	Mitchell PRP 1	543)	30	0.1		
Triodia epactia			20	20		

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bio	logical Survey			
Site:	AR39	705790 mE	7741757 mN		
Location	MGA 50	705769 IIIE	//4//5/ IIIN	Colorador 1	
Described by:	GB,JH			14 W	
Date:	6-03-2024			3 Carl	
Туре:	QUADRAT				
Landform:	Maior drainage			Talat.	the state of the s
Slope:	Flat			CICA CA	No to
Rock Type:	N/A			X 1/2.	A State of the sta
Soil Type:	Sand			12 N	
Soli Colour:	Beige			Caller)	ASA
					All in sec.
					The second second
				Charles	All and the second second
Vegetation	Eucoluptus com	oldulonoio oub	on refuteene and Malak		u isolatad dumpa of traca over Associa
vegetation:	trachycarpa and	aldulensis sub 1 A. colei var. d	sp. retuigens and ivielaie olei tall sparse shrublan	euca argentea iow d over Triodia epa	v isolated clumps of trees over Acacia actia low isolated clumps of grasses.
	indonyourpu une				
Condition:	Very Good	1	Disturbance Type:	Litter,Fauna tra	acks/scats
Fire Age:	>10 years				
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Acacia colei var. colei			250	0.5	
Acacia trachycarpa			350	6	
Cassytha capillaris			100	0.1	
Corchorus laniflorus	ii au han atuntii		30	0.1	
Crotalaria cunningnam	ili subsp. sturtii is		120	0.1	
Cynanchum floribundu	im		50	0.1	
Cyperus vaginatus			50	0.1	
Eucalyptus camaldulei	nsis subsp. refulg	ens	900	1	
Eulalia aurea			70	0.1	
Euphorbia australis va	r. subtomentosa		10	0.1	
Goodenia lamprosperi	na		20	0.1	
Goodenia muelleriana			20	0.1	
Melaleuca argentea			700	4	
Melaleuca glomerata			40	0.1	
MICrostacnys chamael	ea		50 30	0.1	
Triodia epactia			40	0.5	
Waltheria indica			20	0.1	

			FLORA SITE	SHEET		
Project Name	Atlas Ridley E	iological Survey	/			
Site:	AR40			-	State - A state -	A WELL
Location	MGA 50	690947 mE	7741096 mN	AL ALS		and the
Described by:	GB,JH				and the second second	
Date:	6-03-2024			At the second second	The second second second	A ALLER ALLER
Туре:	RELEVE			A Contraction	CONTRACTOR OF	and the second
Landform:	Quartz ridge			The party		
Slope:	Moderate			and the second		Contract Service
Rock Type:	Quartzite			and the second second	and and a start	A MARCH PARTY
Soil Type:	Gravel				A LAN MARTIN	and the second second
Soil Colour:	Orange					
Vegetation:	Acacia orthoo hummock gra	arpa and A. tun Issland.	nida var. pilbarensis mid i	solated clumps of s	shrubs over Triodia epactia low op	ben
Condition:	Very Good		Disturbance Type:	Infrastructure		
Fire Age:	>10 years					
Tayon			Height (cm)	Cover (%)	Notes	
Acacia adoxa var. ad	dova		30	0.1	Notes	
Acacia ancistrocarna			200	0.1		
Acacia inaequilatera	1		180	0.1		
Acacia orthocarna			140	3		
Acacia sericonhylla			60	01		
Acacia tumida var. p	ilbarensis		100	0.5		
Bulbostvlis barbata			10	0.1		
Corvmbia hamerslev	ana		150	0.1		
Corymbia zygophylla	1		100	0.1		
Grevillea wickhamii s	subsp. hispidula		180	0.1		
Petalostylis labicheo	ides		50	0.1		
Triodia epactia			20	25		

FLORA SITE SHEET Atlas Ridley Biological Survey Project Name AR41 MGA 50 Site: Location 689036 mE 7740301 mN Described by: GB,JH 6-03-2024 Date: RELEVE Type: Major drainage Landform: Slope: Flat Rock Type: N/A Soil Type: Soil Colour: Sand Beige Eucalyptus victrix, E. camaldulensis subsp. refulgens and Melaleuca argentea low isolated clumps of trees over Acacia trachycarpa and M. glomerata tall isolated clumps of shrubs over Triodia epactia low isolated clumps of Vegetation: hummock grasses. Condition: Good Disturbance Type: Grazing,Litter,Fauna tracks/scats >10 years Fire Age: SPECIES LIST Taxon Height (cm) Cover (%) Notes Acacia ampliceps 100 0.1 Acacia pyrifolia var. pyrifolia 100 0.1 Eucalyptus camaldulensis subsp. refulgens 800 0.5 Cassytha capillaris 100 0.1 Cyperus vaginatus 50 0.1 Eucalyptus victrix 800 1 Melaleuca argentea 450 1 Eulalia aurea 50 0.1 250 Acacia trachycarpa 1 Melaleuca glomerata 250 1 Microstachys chamaelea 30 0.1 Stemodia viscosa 40 0.1 Triodia epactia 40 1

			FLORA SITE	SHEET		
Project Name	Atlas Ridley E	Biological Survey				
Site:	AR42	74.4500 5	77.4704.5 N			
Location	MGA 50	714592 me	7747015 MN		and the second	
Described by:	GB,JH					
Date:	7-03-2024			A STREET	TO A COMPANY AND A CONT	
туре:	QUADRAT			and the second		
Landform:	Plains				Contraction of the second s	
Slope:	Flat			A Star	A REAL PROPERTY OF	
ROCK Type: Soil Type:	N/A Clav Loam Sa	and			All the second second	
Soil Colour:	Brown,Orang	e				
Vegetation:	Acacia stellat	iceps low isolate	d clumps of shrubs over	Triodia epactia lov	w open hummock grassland.	
Condition: Fire Age:	Very Good 1-5 years		Disturbance Type:	Grazing,Fauna	a tracks/scats	
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Acacia stellaticeps			50	5		
Bonamia alatisemina Pluchea ferdinandi-mu	elleri		10 60	0.1		
Triodia epactia			40	40		
				SHEET		
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			I LONA ON L	ONELI		
Project Name	Atlas Ridley Bi	ological Survey				
Location	MGA 50	711657 mE	7746351 mN			
Described by:	GB,JH			P Handle	and the second second	
Date:	7-03-2024			and the second se		
Туре:	QUADRAT					The state
				Carlos and	A A A A A A A A A A A A A A A A A A A	N.B.
Landform:	Alluvial flat			+ (3 H		- Segi
Slope:	Flat				the second second	
ROCK Type:	IN/A Clay Sand			all the state	A the same of the second of the	
Soil Colour:	Brown Orange					
	Brown,orango					
Vegetation:	Pluchea ferdina grassland.	andi-muelleri lo	w isolated shrubs over Tr	riodia secunda an	d T. epactia low open hummock	
Condition:	Good		Disturbance Type:	Grazing, Fauna	a tracks/scats.Infrastructure	
Fire Age:	1-5 years		Diotaina antico Typo:	erazing,r aano		
-	-					
SPECIES LIST			Height (em)	C over (9/)	Natas	
Taxon Ponomia linoaria				Cover (%)	Notes	
Eriachne obtusa			20	0.1		
Pluchea ferdinandi-mu	ıelleri		50	0.5		
Triodia epactia			20	0.5		
Triodia secunda			20	40		

			FLORA SITE	SHEET		
Project Name	Atlas Ridley Bi	ological Survey				
Site:	AR44			1 m m	1	NO SEC
Location	MGA 50	717019 mE	7749321 mN	-	allihother tax	N. Andrew
Described by:	GB,JH			4	Contract 20	and the second
Date:	7-03-2024				States and	Constant State
Туре:	RELEVE			Main 19		A DONE
Landform:	Ironstone ridge	9				the fait is
Slope:	Steep				1 - K - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	AT ALLES
Rock Type:	Ironstone					Charles Market
Soil Type:	Gravel				and the state of	
Soli Colour:	DIOWII				Pris Park	
					* 3 7 Sel 11	
				the Parts		
Vegetation:	Ficus brachype	oda low isolated	l clumps of trees over Tri	odia epactia low s	sparse hummock grassland	
Condition:	Very Good		Disturbance Type:	Weeds		
Fire Age:	>10 years					
SPECIES LIST						
Taxon			Height (cm)	Cover (%)	Notes	
Acacia colei var. colei Acacia tumida var. pilh	aronsis		200	0.1		
Carissa lanceolata	1313		200	0.1		
*Cenchrus ciliaris			30	0.1		
Cheilanthes sp.			10	0.1		
Eriachne mucronata			30	0.1		
Solanum horridum			30	0.5		
Triodia epactia			30	15		

			FLORA SITE	SHEET		
Project Name	Atlas Ridley E	Biological Survey		NUM		
Site: Location	AR45 MGA 50	717145 mE	7749312 mN			
Described by:	GB,JH				and the second second	Contraction of the local division of the loc
Date:	7-03-2024					
туре:	RELEVE					Charles -
Landform:	Ironstone hillt	ор			Martin Contractor (1997)	
Slope: Rock Type:	Ironstone			and the second	and the second second	and the second
Soil Type:	Gravel					
Soil Colour:	Orange			The Tak		
				97-9- V	a the party of the	
				100 × 10		这些学习 了。
Vegetation:	Acacia inaequ epactia low o	uilatera tall isolate pen hummock gr	ed clumps of shrubs over assland.	r A. stellaticeps low	isolated clumps of shrubs	over Triodia
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Infrastructure		
SPECIES LIST				0	Nataa	
Acacia inaequilatera			350	0.5	NOTES	
Acacia stellaticeps			30	0.5		
Acacia tumida var. pili Triodia enactia	barensis		100 30	0.1 29		

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bi	iological Survey	,		
Location	MGA 50	717042 mE	7749227 mN		
Described by: Date: Type:	GB,JH 7-03-2024 QUADRAT				
Landform: Slope: Rock Type: Soil Type: Soil Colour:	Foothills Gentle N/A Clay,Sand Orange			Pho	to: unavailable
Vegetation:	Acacia tumida	var. pilbarensis	s mid sparse shrubland o	ver Triodia epactia	low sparse hummock grassland.
Condition: Fire Age:	Very Good 1-5 years		Disturbance Type:	Infrastructure	
Acacia tumida var. pilb Bonamia erecta Corynotheca sp. Eragrostis eriopoda ?Afrohybanthus sp Grevillea pyramidalis s Ipomoea muelleri Triodia epactia	arensis ubsp. leucaden	dron	Height (cm) 200 30 10 20 10 30	Cover (%) 15 0.1 0.1 0.1 0.1 0.1 20	Notes

			FLORA SITE	SHEET	
Project Name	Atlas Ridlev B	iological Survey	,		
Site:	AR47			*	
Location	MGA 50	705551 mE	7743565 mN	Galler .	
Described by:	GB,JH			and the first way	
Date:	7-03-2024			A CARLER	
Туре:	QUADRAT			S	States and the second s
Landform:	Major drainag	e		San Antonio Ca	and the second second
Slope:	Flat			-	
Rock Type:	N/A				and the second s
Soil Type:	Sand				The second secon
Soil Colour:	Beige				
Vegetation:	Melaleuca arg A. trachycarpa isolated clump	entea and Euca a and M. glome os of tussock gr	alyptus camaldulensis sul rata mid isolated clumps o asses.	bsp. refulgens lov of shrubs over Eu	v open woodland over Acacia ampliceps, Ilalia aurea and *Cenchrus ciliaris low
Condition:	Good	Ū	Disturbance Type:	Weeds,Grazin	g,Litter,Infrastructure
Fire Age:	>10 years				,,
SPECIES LIST					
Taxon			Height (cm)	Cover (%)	Notes
Acacia ampliceps			200	0.5	
Acacia colei var. colei			200	0.1	
Acacia trachycarpa			200	0.5	
Aristida holathera var.	holathera		15	0.1	
Arivela viscosa			20	0.1	
Cassytha capillaris			30	0.5	
*Cenchrus ciliaris			30	2	
Corchorus laniflorus			50	0.1	
Crotalaria cunningham	nii subsp. sturtii		70	0.1	
Cynanchum floribundu	ım		30	0.1	
Cyperus vaginatus			30	0.1	
Eucalyptus camaldule	nsis subsp. refu	lgens	900	1	
Eulalia aurea			50	2	
Euphorbia australis va	r. subtomentosa	a	10	0.1	
Euphorbia trigonosper	ma		10	0.1	
Bonamia linearis			10	0.1	
Goodenia lamprosperi	ma		30	0.1	
Indigotera linnaei Mololoupo organtoo			10	0.1	
Melaleuca argentea			200	15	
Microstachys chamae			200	0.5	
Operculina aeruisena	ea la		40	0.1	
*Passiflora foetida	a		30	0.1	
Ptilotus fusiformis			30	0.1	
Rhynchosia minima			30	0.1	
Stemodia viscosa			30	0.1	
Tinospora smilacina			5	0.1	
Trichodesma zeylanici	um var. zeylanic	um	70	0.1	
Triodia epactia	,		30	1	
Vigna lanceolata var. I	anceolata		20	0.1	
Wahlenbergia tumidifn	ucta		10	0.1	
Waltheria indica			40	0.1	

Project Name Atlas Ridley Biological Survey Site: AR48 Location MGA 50 697923 mE 7740531 mN Described by: GB,H Date: 8-03-2024 Type: RELEVE Image: Control of the second				FLORA SIT	E SHEET	
Site: AF448 Location MGA 50 697923 mL 7740531 mN Described by: GB,JH Dist: 8-03-2024 Type: RELEVE Image: Control of the second	Name Atl	tlas Ridley Bi	ological Surve	у		
Lecation MGA 50 697923 mE 7740531 mN Described by: GB,JH Date: 8-03-2024 Type: RELFE Landform: Outcropping Slope: Moderate Rock Type: Gravel Soil Colour: Brown, Orange Vegetation: Acacia ancistrocarpa and A.inaequilatera mid isolated clumps of shrubs over Tradia epactia low open hummoc grassland. Condition: Excellent Disturbance Type: None SPECIES LIST Taxon Kercel Subst 200 0.5 Acacia ancistrocarpa 200 0.5 Acacia ancistrocarpa 200 0.5 Acacia ancistrocarpa 30 0.1 Acacia ancistrocarpa 200 0.5 Acacia subsp. Jorea 200 0.5 Acacia subsp. Jorea 150 0.1 Scaevola spinescens I 00 0.1 Scaevola spin	AR	R48	-	-		
bescribed by: GB, H Deter : GB, H Solt Cype: GRLEVE Landform: Outcropping Spore: Moderate Rock Type: Granite Solt Colour: Brown, Orange Solt Colour: Brown, Orange Wegetation: Acacla ancistrocarpa and Alnaequilatera mid isolated clumps of shrubs over Triodia epactia low open hummore Grassland. Condition: Excellent Disturbance Type: None Fire Age: >10 years SPECIES LIST Taxon Kerel 200 0.5 Acacla ancistrocarpa Acacla ancistrocarpa 200 0.5 Acacla stalicatera 200 0.5 Acacla ancistrocarpa 200 0.5 Acacla stalicatera 200 0.5 Acacla attalicatera 200 0.5 Acacla stalicatera 200 0.5 Acacla stalicatera 200 0.5 Acacla attalicatera 200 0.5 Acac	on MC	IGA 50	697923 mE	7740531 mN		
Date: 6-03-2024 Type: RELEVE Landform: Outcropping Soli Colour: Granite Soil Colour: Granite Soil Colour: Brown,Orange Wegetation: Acacia ancistrocarpa and A inaequilatera mid isolated clumps of shrubs over Triodia epactia low open hummoc grassland. Condition: Excellent Disturbance Type: None Fire Age: >10 years SPECIES LIST Taxon Kerel 200 0.5 Acacia ancistrocarpa 200 0.5 Acacia spinosa subsp. nummularia 50 0.1 Capparis spinosa subsp. nummularia 50 0.1 Saevola spinosa subsp. nummularia 50 0.1 Saevola spinosa subsp. nummularia 50 0.1 Saevola spinosa subsp. nummularia 200 0.5 Saevola spinosa subsp. nummularia 200 0.5 Triodia epactia 200 2.5 Saevola spinosa subsp. nummularia 200 0.5 Saevola spinosa subsp. glutinosa 50 0.1 Sona symonii 200 2.5 Saevola spinosa subsp. glutinosa 50 0.1 Saevola spinos	bed by: GE	B,JH				a state of
Type: RELEVE Landform: Outcropping Moderate Rock Type: Granite Granite Soil Type: Granite Gravel Soil Type: Gravel Gravel Soil Colour: Brown,Orange Interference Wegetation: Acacia ancistrocarpa and A.inaequilatera mid isolated clumps of shrubs over Triodia epactia low open hummoc Grassland. Condition: Excellent Disturbance Type: None Fire Age: >10 years None SPECIES LIST 1 Acacia ancistrocarpa 200 0.5 Acacia ancistrocarpa 200 0.5 Acacia shardisteps 30 0.1 Corpmoin hamensleyana 200 0.1 30 0.1 30 Senna synnoir 30 0.1 30 0.1	8-0	-03-2024			100 million -	the second states
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Soil Colour: Brown,Orange Vegetation: Acacia ancistrocarpa and A.inaequilatera mid isolated clumps of shrubs over Triodia epactia low open hummoc grassland. Condition: Excellent Disturbance Type: None Fire Age: >10 years SPECIES LIST Faxon Kolon	pe: Gra	Gravel				And a start of the start
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Condition:ExcellentDisturbance Type:NoneFire Age:>10 yearsSPECIES LISTTaxonHeight (cm)Cover (%)NotesAcacia ancistrocarpa2000.5Acacia colei var. colei2000.5Acacia stellaticeps300.1Corymbia hamersleyana2000.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Benna glutinosa subsp. lorea1500.1Senna glutinosa subsp. glutinosa500.1Senna symonii2025	tion: Ac gra	cacia ancistr rassland.	ocarpa and A.i	inaequilatera mid isolateo	d clumps of shrubs	over Triodia epactia low open hummock
Fire Age:>10 yearsSPECIES LIST TaxonHeight (cm) 200Cover (%) 0.5NotesAcacia ancistrocarpa2000.5Acacia colei var. colei2000.1Acacia stellaticeps300.1Capparis spinosa subsp. nummularia500.1Capparis spinosa subsp. nummularia500.1Ficus brachypoda2000.1Hakea lorea subsp. Jorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Triodia epactia2025	on: Ex	xcellent		Disturbance Type:	None	
SPECIES LIST Taxon Height (cm) Cover (%) Notes Acacia ancistrocarpa 200 0.5 Acacia colei var. colei 200 0.1 Acacia inaequilatera 200 0.5 Acacia stellaticeps 30 0.1 Capparis spinosa subsp. nummularia 50 0.1 Capparis spinosa subsp. nummularia 200 0.1 Ficus brachypoda 200 0.1 Hakea lorea subsp. lorea 150 0.1 Scaevola spinescens 100 0.1 Senna symonii 30 0.1 Triodia epactia 20 25	e: >1	10 years				
Acacia ancistrocarpa2000.5Acacia ancistrocarpa2000.1Acacia inaequilatera2000.5Acacia stellaticeps300.1Capparis spinosa subsp. nummularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Hakea lorea subsp. lorea1500.1Scaevola spinescens1000.1Senna glutinosa500.1Senna symonii300.1Triodia epactia2025	ES LIST			Hoight (cm)	Cover (%)	Notos
Acacia antistitucaripa2000.5Acacia icolei var. colei2000.5Acacia istellaticeps300.1Capparis spinosa subsp. nummularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Bacevala spinescens1500.1Scaevola spinescens1000.1Senna glutinosa500.1Senna symonii300.1Triodia epactia2025	anaiatraaarna					Notes
Acacia inaequilatera2000.1Acacia inaequilatera2000.5Acacia stellaticeps300.1Capparis spinosa subsp. nummularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Seaevola spinescens1000.1Senna glutinosa500.1Senna symonii300.1Triodia epactia2025	ancistrocarpa			200	0.5	
Acacia Indeguliatera2000.3Acacia stellaticeps300.1Capparis spinosa subsp. nummularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Ficus brachypoda1500.1Seavola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	inaaquilatora			200	0.1	
Capparis spinosa subsp. nummularia500.1Capparis spinosa subsp. nummularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Hakea lorea subsp. lorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	atallatiaana			200	0.5	
Cappairs spinosa subsp. numinularia500.1Corymbia hamersleyana2000.1Ficus brachypoda2000.1Hakea lorea subsp. lorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	stellaticeps			30	0.1	
Doryminal namestevana2000.1Ficus brachypoda2000.1Hakea lorea subsp. lorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	is spiriosa subsp. ri	nummularia		50	0.1	
Tuts black polar2000.1Hakea lorea subsp. lorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	na namersieyana rochvoodo			200	0.1	
Takea lorea subsp. Iorea1500.1Scaevola spinescens1000.1Senna glutinosa subsp. glutinosa500.1Senna symonii300.1Triodia epactia2025	lacinypoua			200	0.1	
Senna glutinosa subsp. glutinosa 50 0.1 Senna symonii 30 0.1 Triodia epactia 20 25	lo spinoscoro			100	0.1	
Senna symonii 30 0.1 Senna symonii 20 25	a spiriesceris	lutinooo		100 E0	0.1	
Serina symonii 30 0.1 Triodia epactia 20 25	yuunosa subsp. gll	เนแทบรล		00	0.1	
noura epacita 20 25	symonii			30	0.1	
	epactia			20	25	

			FLORA SITE	SHEET		
Project Name	Atlas Ridley B	iological Survey	/			
Site:	AR49					
Location	MGA 50	697849 mE	7741607 mN		THE REAL PROPERTY.	COLORES ST
Described by:	GB,JH			and Sim		and an appl
Date:	8-03-2024			and the second	S. C.	and and and the
Гуре:	QUADRAT					AND -
Landform:	Plains			ada a second		and the second
Slope:	Flat					
Rock Type:	N/A			Comments State	States and	
Soil Type:	Clay Sand				A Street Street	and the second states
Soil Colour:	Brown Orange	`		A set -		
Vegetation:	Acacia inaequ shrubs over T	ilatera and A. a riodia wiseana	ncistrocarpa mid isolated and T.epactia low open h	l clumps of shrubs ummock grasslan	s over A. stellaticeps lo nd.	ow isolated clumps of
Condition: Fire Age:	Excellent >10 vears		Disturbance Type:	None		
Acacia inaequilatera Acacia stellaticeps Triodia epactia Triodia wiseana			180 30 30 30	3 0.5 3 28		

			FLORA SITE	SHEET			
Project Name	Atlas Ridley B	iological Survey					
Site:	AR50						
Location	MGA 50	699765 mE	7742416 mN			And in case of the local division of the loc	No. of Concession, Name
Described by:	GB,JH			Laser Laser		A Carlos Same	
Date:	8-03-2024				658 70 8 -	the second	
Туре:	RELEVE			and the second	24		-
Landform:	Granite outcro	p				A Contraction of the	1.4
Slope:	Steep					And the second of	-
Rock Type:	Granite				and the second		Carlos and
Soil Type:	Gravel			and the second s		AREN ANT	
Soil Colour:	Beige			17 76 M	-		
Vegetation:	Atalaya hemig	glauca mid isolat	ed clumps of shrubs ove	r Triodia epactia le	ow open hummock g	grassland.	
Condition:	Excellent		Disturbance Type:	None			
Fire Age:	>10 years						
SPECIES LIST							
Taxon			Height (cm)	Cover (%)	Notes		
Acacia ancistrocarpa			200	0.1			
Acacia colei var. colei			200	0.1			
Acacia inaequilatera			200	0.5			
Acacia orthocarpa			170	0.1			
Acacia stellaticeps			40	0.1			
Atalaya hemiglauca			140	1			
Capparis umbonata			120	0.1			
Cyperus sp. Eigun broghungdo			20	0.1			
Hicus brachypoua Hakaa loroa suban lor			200	0.1			
Senna dutinosa subsr	ea alutinosa		140	0.1			
Tinospora smilacina	. giutinosa		20	0.1			
Triodia epactia			30	28			

			FLORA SITE	SHEET	
Project Name	Atlas Ridley E	Biological Survey	/		
Site: Location	AR51 MGA 50	709368 mE	7744803 mN	and the second	C. En ser a -
Described by:	GB,JH				
Date:	8-03-2024			in	and the second second
Туре:	QUADRAT			Contraction of the	Start of the second start of the
Landform: Slope:	Alluvial flat Flat				
Rock Type:	N/A				The second se
Soil Type:	Clay,Sand			1 -	
	Orange				
Vegetation:	Triodia epact tussock grass	ia and T. secund ses.	da low open hummock gra	assland over Eriac	chne obtusa low isolated clumps of
Condition: Fire Age:	Very Good 1-5 years		Disturbance Type:	Grazing,Fauna	a tracks/scats
SPECIES LIST Taxon			Height (cm)	Cover (%)	Notes
Eriachne obtusa			10	1	
Pluchea dentex			30	0.1	
Triodia epactia			20	19	
Triodia secunda			20	10	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley E	Biological Survey	/		
Site:	AR52	604802 mE	7741100 mN		
Location	MGA 50	094003 IIIE	7741190 1111	and the family of	
Described by:	GB,JH				
Date: Type:	9-03-2024 QUADRAT				and the second s
.,,					
Landform:	Plains Flat				and the second sec
Rock Type:	N/A			Star in all	and the second second
Soil Type:	Clay,Sand				
Soil Colour:	Orange				
Vegetation:	Acacia inaequ epactia low o	uilatera mid isola pen hummock g	ated clumps of shrubs ove rrassland.	er A. stellaticeps lo	w isolated clumps of shrubs over Triodia
Condition: Fire Age:	Very Good > 5 years		Disturbance Type:	Grazing,Fauna	tracks/scats
SPECIES LIST Taxon			Height (cm)	Cover (%)	Notes
Acacia inaequilatera			190 50	1	
Triodia epactia			30	31	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bid	ological Survey			
Site: Location	AR53 MGA 50	674107 mE	7738089 mN	the seal of	
Described by: Date: Type:	GB,JH 9-03-2024 QUADRAT				
Landform: Slope: Rock Type: Soil Type: Soil Colour:	Plains Flat N/A Clay,Sand Brown,Orange				
Vegetation:	Corymbia cano and A. colei va	lida subsp. can r. colei tall spar	dida and C. hamersleyar se shrubland over Triodi	a low open woodi a epactia low spar	land over Acacia tumida var. pilbarensis rse hummock grassland.
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Grazing,Fauna	tracks/scats
SPECIES LIST Taxon Corymbia candida sub Acacia inaequilatera Acacia sericophylla Corymbia hamersleyau Acacia tumida var. pilb Cassytha capillaris Corchorus sp. Acacia colei var. colei Carissa lanceolata Eulalia aurea Triodia epactia	sp. candida na parensis		Height (cm) 600 150 200 400 300 100 20 200 180 40 40 40	Cover (%) 3 0.1 0.1 5 0.5 5 15 15	

			FLORA SITE	SHEET	
Project Name	Atlas Ridley Bi	ological Survey			
Site: Location	AR54 MGA 50	672915 mE	7737650 mN		ALL THE SHEEP AND SHE
Described by: Date: Type:	GB,JH 9-03-2024 QUADRAT				
Landform: Slope: Rock Type: Soil Type: Soil Colour:	Plains Flat N/A Clay,Sand Brown,Orange				
Vegetation:	Corymbia cano pilbarensis tall	lida subsp. can sparse shrubla	dida low isolated clumps nd over Triodia epactia le	of trees over Aca ow open hummocl	acia colei var. colei and A. tumida var. ck grassland.
Condition: Fire Age:	Very Good >10 years		Disturbance Type:	Grazing,Fauna	a tracks/scats
SPECIES LIST Taxon Acacia colei var. colei Acacia tumida var. pilk Cassytha capillaris Corchorus sp. Corymbia candida sub Eulalia aurea Grevillea wickhamii su Triodia epactia	parensis sp. candida bsp. hispidula		Height (cm) 200 300 20 600 40 250 40	Cover (%) 10 3 0.1 2 5 0.1 35	



Appendix G Flora Statistical Analysis

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024



Selected inputs and outputs of the floristic cluster analysis: taxa omitted from analysis.

Taxon	Site Count	Status
?Afrohybanthus sp.	1	Omitted: Singleton
Abutilon lepidum	1	Omitted: Singleton
Acacia acradenia	1	Omitted: Singleton
Acacia sp.	1	Omitted: Singleton: may represent multiple species
Acacia trachycarpa x tumida yar, pilbarensis	1	Omitted: Singleton
Aerva javanica	1	Omitted: Singleton
Boerhavia sp	2	Omitted: May represent multiple species
Bonamia alatisemina	1	Omitted: Singleton
Bonamia pilbarensis	1	Omitted: Singleton
Bulbostylis barbata	1	Omitted: Singleton
Calotronis procera	1	Omitted: Introduced taxon
Canaris spinosa subsp. nummularia	4	Omitted: Singleton
Capparis spiriosa subsp. numinularia	1	Omitted: Singleton
Chailanthan an	1	Omitted: Singleton
Coreboruo op	1	Omitted: May represent multiple aposice
Concritionus sp.	0	Omitted: Nay represent multiple species
Corymbia candida subsp. Indet.	1	Omitted: Singleton; may represent multiple species
Corymbia zygopnylia	1	Omitted: Singleton
Corynotheca sp.	1	
Crotalaria ramosissima	1	Omitted: Singleton
Cymbopogon sp.	1	Omitted: Singleton
Cyperus sp.	4	Omitted: May represent multiple species
Eriachne lanata	1	Omitted: Singleton
Euphorbia tannensis subsp. eremophila	1	Omitted: Singleton
Euploca cunninghamii	1	Omitted: Singleton
Evolvulus sp.	1	Omitted: Singleton
Ficus aculeata var. indecora	1	Omitted: Singleton
Goodenia muelleriana	1	Omitted: Singleton
Goodenia stobbsiana	1	Omitted: Singleton
Indigofera monophylla	1	Omitted: Singleton
Indigofera oblongifolia	1	Omitted: Singleton; introduced species
Maireana melanocoma	1	Omitted: Singleton
Malvaceae sp.	1	Omitted: Singleton
Nellica maderaspatensis	1	Omitted: Singleton
Neptunia sp.	1	Omitted: Singleton
Notoleptopus decaisnei	1	Omitted: Singleton
Operculina aeguisepala	1	Omitted: Singleton
Passiflora foetida	2	Omitted: Introduced taxon
Poaceae sp.	4	Omitted: May represent multiple species
Ptilotus fusiformis	1	Omitted: Singleton
Ptilotus sp	2	Omitted: May represent multiple species
Scaevola spinescens	1	Omitted: Singleton
Senna artemisioides subsp. helmsii	1	Omitted: Singleton
Senna symonii	1	Omitted: Singleton
Sida sp	1	Omitted: Singleton
Solanum diversiflerum	1	Omitted: Singleton
Solanum horridum	1	Omitted: Singleton
	1	Omitted: May represent multiple aposice
Solahum sp.	2	Omitted: Singleton
Sporobolus australasicus	1	Omitted. Singleton
Stemodia grossa	1	Omitted: Singleton
Terminalia circumulata	1	Omitted: Singleton
Themeda triandra	1	Omitted: Singleton
Trianthema triquetrum	1	Omitted: Singleton
Trichodesma zeylanicum var. zeylanicum	1	Omitted: Singleton
Triodia sp.	4	Omitted: May represent multiple species
I riodia wiseana	1	Omitted: Singleton
Triumfetta clementii	1	Omitted: Singleton
<i>Triumfetta</i> sp.	1	Omitted: Singleton
Vachellia farnesiana	1	Omitted: Singleton; introduced species
Wahlenbergia tumidifructa	1	Omitted: Singleton



Appendix H Fauna Database Search Results

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024



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

Database: NM - NatureMap, PMST - EPBC Protected Matters Search Tool, DBCA - DBCA Threatened and Priority Fauna database search, Field - Recorded during the current field survey. Literature: A - Ridley Detailed Terrestrial Vertebrate Fauna Survey (Biota, 2024)

Literature: B - Ridley Services Corridors Basic and Targeted Fauna Survey (Biota, 2023)

Literature: C - Detailed terrestrial fauna and targeted Bilby survey for the Port Hedland Solar Farm Project (Pheonix Environmental, 2022)

Literature: D - Wodgina Gas Pipeline targeted Fauna Survey (360 Environmental Pty Ltd, 2018)

Literature: E - Wodgina Project: Level 1 Fauna Survey, Targeted Conservation Significant Fauna Survey and Desktop Assessment (Stantec Australia Pty Ltd, 2018)

Literature: F - Pardoo Stage 3 Irrigation Project and 80 Mile Beach Ramsar Site Fauna Assessment (Bamford Consulting Ecologists, 2017b)

Literature: G - Assessment of the Bilby Macrotis lagotis Pardoo Station; Stage 2 areas (Bamford Consulting Ecologists, 2017a)

Literature: H - Supplementary Flora and Vegetation Survey and Terrestrial Fauna Survey for the Balla Balla Infrastructure Group Ltd (Phoenix Environmental, 2018)

Literature: I - Assessment of the Bilby Macrotis lagotis Pardoo Station; Stage 2 and 3 project areas (Bamford Consulting Ecologists, 2016)

Literature: J - Terrestrial Fauna Surveys for the Balla Balla Railway Project (Phoenix Environmental, 2014)

			Conserv	ation Status	Da	ataba	se	-					Liter	ature				
Family	Scientific Name	Common Name	State	Commonwealth	NM	PMST	DBCA	Field	Α	В	с	D	E	F	G	н	I	J
Amphibia						-												
Limnodynastidae Ne	leobatrachus aquilonius	Northern Burrowing Frog	-	-	Х				х		х							
Limnodynastidae Ne	leobatrachus sutor	Shoemaker Frog	-	-	Х													
Limnodynastidae No	lotaden nichollsi	Desert Spadefoot	-	-	х				х		х							
Limnodynastidae Pla	Platyplectrum spenceri	Centralian Burrowing Frog	-	-	х				х		х							
Myobatrachidae Ur	Iperoleia glandulosa	Glandular Toadlet	-	-	х						х						\square	
Myobatrachidae Ur	Iperoleia micromeles	Tanami Toadlet	-	-	х												\square	
Myobatrachidae Ur	Iperoleia russelli	Northwest Toadlet	-	-	х												\square	
Myobatrachidae Ur	Iperoleia saxatilis	Pilbara Toadlet	-	-	х												\square	
Myobatrachidae Ur	Iperoleia talpa	Ratcheting Toadlet	-	-	х												\square	
Pelodryadidae Cy	Cyclorana australis	Giant Frog	-	-	х				х								\square	
Pelodryadidae Cy	Cyclorana maini	Sheep Frog	-	-	х				х		х						\square	
Pelodryadidae Lit	itoria caerulea	Green Tree Frog	-	-	х												\square	
Pelodryadidae Lit	itoria ridibunda	Western Laughing Tree Frog	-	-	х												\square	
Pelodryadidae Lit	itoria rubella	Little Red Tree Frog	-	-	х				х		х						\square	х
Aves		•																
Acanthizidae Ac	Acanthiza chrysorrhoa	Yellow-rumped Thornbill	-	-	х												\square	
Acanthizidae Ge	Gerygone fusca	Western Gerygone	-	-	х				х	х							\square	
Acanthizidae Ge	Gerygone tenebrosa	Dusky Gerygone	-	-	х												\square	
Acanthizidae Sr	Smicrornis brevirostris	Weebill	-	-	х				х								\square	х
Accipitridae Ac	Accipiter cirrocephalus	Collared Sparrowhawk	-	-	х				х	х							\square	
Accipitridae Ac	Accipiter fasciatus	Brown Goshawk	-	MA	х				х								\square	х
Accipitridae Ac	Aquila audax	Wedge-tailed Eagle	-	-	х			х	х	х			х				\square	х
Accipitridae Ci	Circus approximans	Swamp Harrier	-	MA	х												\square	Х
Accipitridae Ci	Circus assimilis	Spotted Harrier	-	-	х				х	х							\square	Х
Accipitridae Ela	lanus axillaris	Black-shouldered Kite	-	-	х				х								\square	
Accipitridae Er	rythrotriorchis radiatus	Red Goshawk	VU	EN		х											\square	
Accipitridae Ha	laliaeetus leucogaster	White-bellied Sea-eagle	-	MA	х	х			х	х								
Accipitridae Ha	laliastur indus	Brahminy Kite	-	MA	х				х		х						\square	
Accipitridae Ha	laliastur sphenurus	Whistling Kite	-	MA	х				х	х			х				\square	
Accipitridae Ha	łamirostra melanosternon	Black-breasted Buzzard	-	-	х				х				х				\square	
Accipitridae Hi	lieraaetus morphnoides	Little Eagle	-	-	х				х								\square	х
Accipitridae Lo	ophoictinia isura	Square-tailed Kite	-	-	х													
Accipitridae Mi	Ailvus migrans	Black Kite	-	-	х			х					х				\square	х
Acrocephalidae Ac	Acrocephalus australis	Australian Reed Warbler	-	MA	Х													
Aegothelidae Ae	legotheles cristatus	Australian Owlet-nightjar	-	-	Х				х	х								х
Alaudidae Mi	/irafra javanica	Horsfield's Bush Lark	-	-	х			х	х	х	х							х

Alcedinidae	Dacelo leachii	Blue-winged Kookaburra	-	-	Х				х				х	
Alcedinidae	Todiramphus chloris (Wallacea transition point from T. sordidus)	Collared Kingfisher	-	-	x									
Alcedinidae	Todiramphus pyrrhopygius	Red-backed Kingfisher	-	-	х				х	х			х	
Alcedinidae	Todiramphus sanctus	Sacred Kingfisher	-	MA	Х			х	х					
Alcedinidae	Todiramphus sordidus pilbara	Pilbara Collared Kingfisher	-	-	Х									
Anatidae	Anas gracilis	Grey Teal	-	-	Х				х	х				
Anatidae	Anas superciliosa	Pacific Black Duck	-	-	х				х	х				
Anatidae	Aythya australis	Hardhead	-	-	х					х				
Anatidae	Chenonetta jubata	Australian Wood Duck, Wood Duck, Maned Duck	-	-	x									
Anatidae	Cygnus atratus	Black Swan	-	-	х									
Anatidae	Dendrocygna arcuata	Wandering Whistling Duck, Chestnut Whistling Duck	-	MA	x									
Anatidae	Dendrocygna eytoni	Plumed Whistling Duck	_	-	х					х				
Anatidae	Malacorhynchus membranaceus	Pink-eared Duck	-	_	X									<u> </u>
Anatidae	Spatula rhvnchotis	Australasian Shoveler	-	_	X									<u> </u>
		Australian Shelduck, Mountain												
Anatidae	Tadorna tadornoides	Duck	-	-						х				
Anningidae	Anninga melanogaster	Oriental Darter	-	-	X									┝──
Anningidae		Australasian Darter	-	-	X				X					
Apodidae	Apus pacificus	Pacific Swift, Fork-tailed Swift	MI	MI, MA	Х	X	X		X					X
Ardeidae	Ardea alba	Egret	-	MA	х					х				
Ardeidae	Ardea intermedia	Intermediate Egret	-	MA	х									
Ardeidae	Ardea pacifica	White-necked Heron	-	-	х				х				Х	
Ardeidae	Bubulcus coromandus	Eastern Cattle Egret	-	-	Х	х								
Ardeidae	Butorides striata	Striated Heron Mangrove Heron	-	-	x									
Ardeidae	Egretta garzetta	Little Egret	-	MA	х									
Ardeidae	Egretta novaehollandiae	White-faced Heron	-	-	Х				х	х				
Ardeidae	Egretta sacra	Eastern Reef Heron, Pacific Reef Heron	-	MA	x									
Ardeidae	Nycticorax caledonicus	Nankeen Night Heron, Rufous Night Heron	-	MA	x									
Artamidae	Artamus cinereus	Black-faced Woodswallow	-	-	х			х	х	х	х		х	
Artamidae	Artamus cyanopterus	Dusky Woodswallow	-	-	х									
Artamidae	Artamus leucorynchus	White-breasted Woodswallow	-	-	x				x	x				
Artamidae	Artamus minor	Little Woodswallow	-	_	x				x					<u> </u>
Artamidae	Artamus personatus	Masked Woodswallow	-	_	x	<u> </u>			x		<u> </u>			<u> </u>
Artamidae	Artamus superciliosus	White-browed Woodswallow	-	_	x				~					<u> </u>
Artamidae	Cracticus nigrogularis	Pied Butcherbird	-	_	x			x	x	x				
Artamidae	Cracticus torquatus	Grev Butcherbird	-	_	x			-		~				<u> </u>
Artamidae	Gymnorhina tibicen	Australian Magnie	-	_	x			x						<u> </u>
Burhinidae	Burhinus grallarius	Bush Stone-curlew, Bush Thick-	-	-	x			~						
Burhinidae	Esacus magnirostris	Beach Stone-curlew, Beach Thick-knee	-	МА	x									
Cacatuidae	Cacatua galerita	Sulphur-crested Cockatoo	-	-	x			х						
Cacatuidae	Cacatua sanguinea	Little Corella	-	-	x			х	x	х			x	
Cacatuidae	Eolophus roseicapilla	Galah	-	-	X			х	x	х	x		x	<u> </u>
Cacatuidae	Nymphicus hollandicus	Cockatiel	-	_	x				x	x	x			
Campephagidae	Coracina novaehollandiae	Black-faced Cuckooshrike	-	MA	x	1	1	x	x	x	x	1	x	
Campephagidae	Lalage tricolor	White-winged Triller	-	-	x			~	x	X	~		~	
Caprimulaidae	Eurostopodus argus	Spotted Nightiar	-	MA	y Y		1		x		<u> </u>		x	
Casuariidae	Dromaius novaehollandiae	Fmu		-	v		+	v			+		^	
Charadriidae	Charadrius leschenaultii	Greater Sand Plover	\/[]		×			×	<u> </u>				-	<u> </u>
Charadriidae	Charadrius mongolus	Lesser Sand Plover	FN		×	~			<u> </u>				<u> </u>	
Charadriidaa					X	X	×			~				
Charadriidae	Gharaunus funcapinus	Red-capped Plover	-	IVIA	X	Х				X		1		L

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Charadriidae	Charadrius veredus	Oriental Plover	MI	MI, MA	Х	Х	х							х
Charadriidae	Elseyornis melanops	Black-fronted Dotterel	-	-	х				х	х				
Charadriidae	Erythrogonys cinctus	Red-kneed Dotterel	-	-	х					х				
Charadriidae	Pluvialis fulva	Pacific Golden Plover	MI	MI, MA	х	х	х							
Charadriidae	Pluvialis squatarola	Grey Plover	MI	VU, MI, MA	х	х	х							
Charadriidae	Vanellus miles	Masked Lapwing	-	-	x					х				
Charadriidae	Vanellus tricolor	Banded Lapwing	-	_	x				х	х				
Ciconiidae	Ephippiorhvnchus asiaticus	Black-necked Stork	-	-	x				х	х	x			<u> </u>
Cinclosomatidae	Cinclosoma marginatum	Western Quail-thrush	-	-	x									<u> </u>
Climacteridae	Climacteris melanurus	Black-tailed Treecreeper	-	-	x				x					<u> </u>
Columbidae	Columba livia	Domestic Pigeon, Rock Dove	-	-	x			x						<u> </u>
Columbidae	Geopelia cuneata	Diamond Dove	-	-	x			x	x	x	x		x	<u> </u>
Columbidae	Geopelia humeralis	Bar-shouldered Dove	-	_	x									<u> </u>
Columbidae	Geopelia striata	Zebra Dove	_	_	x									<u> </u>
Columbidae	Geophaps plumifera	Spinifex Pigeon	-		x			x	x	x			×	
Columbidae	Ocynhans lonhotes	Crested Pigeon	-		×			v	v	v	v		×	<u> </u>
Columbidae	Phans chalcontera	Common Bronzewing			×						Ŷ		^	
Columbidade		Common Bronzewing			^									
Columbidae	Phaps histrionica	Flock Bronzewing, Flock Pigeon	-	-	х				x	х				
Corvidae	Corvus bennetti	Little Crow	-	-	х				х	х				
Corvidae	Corvus coronoides	Australian Raven	-	-	х									
Corvidae	Corvus orru	Torresian Crow	-	-	х			х	х	х	х		х	
Cuculidae	Centropus phasianinus	Pheasant Coucal	-	-	х				х					
Cuculidae	Chalcites basalis	Horsfield's Bronze Cuckoo	-	MA	х				х	х				
Cuculidae	Chalcites osculans	Black-eared Cuckoo	-	MA	х	х								
Cuculidae	Cuculus saturatus optatus	Horsfield's Cuckoo	MI (as C. optatus)	MI (C. saturatus MA)		х								
Cuculidae	Heteroscenes pallidus	Pallid Cuckoo	-	MA	х				х	х				
Dicaeidae	Dicaeum hirundinaceum	Mistletoebird	-	-	х									
Estrildidae	Emblema pictum	Painted Finch	-	-	х				х	х			Х	
Estrildidae	Heteromunia pectoralis	Pictorella Mannikin	-	-	х									
Estrildidae	Neochmia ruficauda	Star Finch	-	-	x				х	х				
Estrildidae	Taeniopygia castanotis	Australian Zebra Finch	-	-	х			х	х	х	х		х	
Falconidae	Falco berigora	Brown Falcon	-	-	x			х	х	х	х			
Falconidae	Falco cenchroides	Nankeen Kestral	-	MA	х			х	х	х	х		х	
Falconidae	Falco hypoleucos	Grey Falcon	VU	VU	х	х	х							
Falconidae	Falco longipennis	Australian Hobby	-	-	х				х	х				
Falconidae	Falco peregrinus	Peregrine Falcon	OS	_	x		х		х					
Fregatidae	Fregata ariel	Lesser Frigatebird	MI	MI, MA	x	х	х							
Fregatidae	Fregata minor	Greater Frigatebird	MI	MI, MA		х								<u> </u>
Glareolidae	Glareola maldivarum	Oriental Pratincole	MI	MI. MA	x	х	x							
Glareolidae	Stiltia isabella	Australian Pratincole	-	MA	x	х			х	х				
Gruidae	Antigone rubicunda	Brolga	_	-	x					x				<u> </u>
Haematopodidae	Haematopus fuliginosus	Sooty Ovstercatcher	-	_	x									<u> </u>
Haematopodidae	Haematopus longirostris	Pied Ovstercatcher	-	_	x					x				<u> </u>
Hirundinidae	Cheramoeca leucosterna	White-backed Swallow	-		x				x	~				
Hirundinidae	Hirundo neoxena	Welcome Swallow	_	MA	x				x					
Hirundinidae	Hirundo rustica	Barn Swallow	MI	MI MA	x	x	x		~					
Hirundinidae	Petrochelidon ariel	Fairy Martin	-	-	x	~	~		x	x	x			
Hirundinidae	Petrochelidon nigricans			ΜΔ	×				v	v				<u> </u>
		Common Noddy, Brown Noddy	MI		^				^			+	+	
	Chlidaniaa hubrida	Whickered Tarr	IVII	IVII, IVIA		×						 	<u> </u>	<u> </u>
Laridae			-	MA	X			<u> </u>		<u> </u>				──
Laridae	Childonias leucopterus	white-winged Black Tern	MI	MI, MÁ	Х		X		<u> </u>		<u> </u>			──
Laridae	Chroicocephalus novaehollandiae	Silver Gull	-	-	x					х			1	
Laridae	Gelochelidon macrotarsa	Australian Gull-billed Tern	-	-	х				х	х				
Laridae	Gelochelidon nilotica	Gull-billed Tern	MI	MI, MA	х		х			х		1	1	
Laridae	Hydroprogne caspia	Caspian Tern	MI	MI, MA	х	х	х			х		1	1	
Laridae	Onychoprion anaethetus	Bridled Tern	MI	MI, MA	х		х							
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Laridae	Sterna dougallii	Roseate Tern	MI	MI, MA		х	х							
Laridae	Sterna hirundo	Common Tern	MI	MI, MA	Х		х							
Laridae	Sternula albifrons	Little Tern	MI	MI, MA	х	х	х			х				
Laridae	Sternula nereis nereis	Fairy Tern	VU	VU, MA	х		х							
Laridae	Thalasseus bengalensis	Lesser Crested Tern	-	MA	х	х				х				
Laridae	Thalasseus bergii	Greater Crested Tern, Crested	MI	MI, MA	x		x			х				
Locustellidae	Cincloramphus cruralis	Brown Songlark	-	-	x				x	x				
Locustellidae	Cincloramphus mathewsi	Bufous Songlark	_	-	x				x	x			x	
Locustellidae	Poodytes carteri	Spinifexbird	_	-	x				x	x	x		x	
Maluridae	Amytornis whitei	Rufous Grasswren	_	-	x				~	~	~		~	
Maluridae	Malurus assimilis	Purple-backed Fairwren	-	-	x			x	x	x				
Maluridae	Malurus leucopterus	White-winged Fairywren	-	-	x			x	x	x	x			
Maluridae	Stiniturus ruficens	Rufous-crowned Emu-wren	-	-	x			~	~	X	~			
Melinhagidae	Acanthagenys rufogularis	Spiny-cheeked Honeyeater	-	-	x									-
Meliphagidae	Certhionyx variedatus	Pied Honeveater			×				v			\vdash		-
Meliphagidae	Enthianura aurifrons	Orange Chat							^					
Meliphagidae	Enthianura tricolor	Crimson Chat		_					v					-
Moliphagidao	Covicalis virescens	Singing Honovostor	-	_	×			v	×	Y	v	┝───┦	v	-
Moliphagidao	Lichmera indistincta	Brown Honovostor	-	-	X			X	X	X	×	┝──┤	X	-
Meliphagidae	Monorino flovigulo	Vollow throated Minor	-	-	X			X	X	X			X	┣─
Meliphagidae	Manorina navigula	Plack chinned Hanavaster	-	-	X			X	X	X	X	<u> </u>	X	┣—
Meliphagidae	Menun epius guians	Little Frierbird	-	-	X				X			<u> </u>		┣—
Meliphagidae	Prillemon citreogularis		-	-	X	<u> </u>						<u> </u>		-
Meliphagidae	Ptilotula keartiandi	Grey-neaded Honeyealer	-	-	X				Х			┝───┦	Х	┣—
Weilphagidae		white-plumed Honeyeater	-	-	X			х	Х	Х	X	┢───┦	Х	
Menemialae		Black Honeyeater	-	-	X							\vdash		_
Meropidae	Merops ornatus	Rainbow Bee-eater	-	MA	Х	Х		X	Х	Х	Х	┝───┦	Х	_
Monarchidae	Grallina cyanoleuca	Magpie-lark	-	MA	X			Х	Х	Х	X		Х	_
Motacillidae	Anthus australis	Australian Pipit	-	MA (as A. novaeseelandiae)	х			х	х	х				
Motacillidae	Motacilla cinerea	Grey Wagtail	MI	MI, MA		х								
Motacillidae	Motacilla tschutschensis	Eastern Yellow Wagtail	MI	MI, MA	х	х	х							
Neosittidae	Daphoenositta chrysoptera	Varied Sittella	-	-	х									
Oceanitidae	Oceanites oceanicus	Wilson's Storm Petrel	MI	MI, MA	х		х							
Oreoicidae	Oreoica gutturalis	Crested Bellbird	-	-	Х					х		\square		
Otididae	Ardeotis australis	Australian Bustard	-	-	х			х	Х	х				
Pachycephalidae	Colluricincla harmonica	Grey Shrikethrush	-	-	Х				Х			\square		
Pachycephalidae	Pachycephala lanioides	White-breasted Whistler	-	-	х							\square		
Pachycephalidae	Pachycephala melanura	Mangrove Golden Whistler	-	-	х									
Pachycephalidae	Pachycephala rufiventris	Rufous Whistler	-	-	х									
Pandionidae	Pandion haliaetus	Osprey	MI	MI, MA	х	х	х							
Pardalotidae	Pardalotus rubricatus	Red-browed Pardalote	-	-	х				Х	х				
Pardalotidae	Pardalotus striatus	Striated Pardalote	-	-	х									
Passeridae	Passer montanus	Eurasian Tree Sparrow	-	-	х									
Pelecanidae	Pelecanus conspicillatus	Australian Pelican	-	MA	х				Х	х				
Petroicidae	Melanodryas cucullata	Hooded Robin	-	-	х									
Petroicidae	Peneothello pulverulenta	Mangrove Robin	-	-	x									
Petroicidae	Petroica goodenovii	Red-capped Robin	-	-	х									
Phaethontidae	Phaethon lepturus	White-tailed Tropicbird	MI	ML MA		x								
Phaethontidae	Phaethon rubricauda	Red-tailed Tropicbird	MI P4	MI MA		1								
Phalacrocoracidae	Microcarbo melanoleucos	Little Pied Cormorant	-	-	x	-								
Phalacrocoracidae	Phalacrocorax carbo	Great Cormorant	_	-	x									
Phalacrocoracidae	Phalacrocorax sulcirostris	Little Black Cormorant	_		v							┝──┦		<u> </u>
Phalacrocoracidae	Phalacrocorax varius	Pied Cormorant, Australian Pied		-	x					x				
Dhaaiassistas	Coturniy postorolia											\vdash		
Phasianidae			-	MA	X				Х	Х		┝──┦		┣—
Phasianidae	Synoicus ypsilopnorus		-	-	X				Х	Х		┝──┦		┣—
Podargidae	Podargus strigoldes	Tawny Frogmouth	-	-	Х				Х			⊢!		
Podicipedidae	Podiceps cristatus	Great Crested Grebe	-	-	Х									

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Podicipedidae	Poliocephalus poliocephalus	Hoary-headed Grebe	-	-	х									
Podicipedidae	Tachybaptus novaehollandiae	Australasian Grebe, Black- throated Grebe	-	-	x			x	x	x				
Pomatostomidae	Pomatostomus superciliosus	White-browed Babbler	-	-	х									
Pomatostomidae	Pomatostomus temporalis	Grey-crowned Babbler	-	-	х				х				х	
Procellariidae	Calonectris leucomelas	Streaked Shearwater	MI	MI, MA		х								
Procellariidae	Macronectes giganteus	Southern Giant Petrel	MI	EN, MI, MA		х								
Psittaculidae	Barnardius zonarius	Australian Ringneck	-	-	х			х	х	х				
Psittaculidae	Melopsittacus undulatus	Budgerigar	-	-	х				х	х	х		х	
Psittaculidae	Pezoporus occidentalis	Night Parrot	CR	EN		х								
Psittaculidae	Purpureicephalus spurius	Red-capped Parrot	-	-	х									
Ptilonorhvnchidae	Chlamydera guttata	Western Bowerbird	-	-	х				х	х				
Ptilonorhvnchidae	Chlamydera maculata	Spotted Bowerbird	-	-	х									
Rallidae	Fulica atra	Eurasian Coot	-	-	x									
Rallidae	Hypotaenidia philippensis	Buff-banded Rail	-	MA	x									
Rallidae	Porphyrio melanotus	Australasian Swamphen	-	MA	x									
		Australian Spotted Crake												
Rallidae	Porzana fluminea	Australian Crake	-	-	х									
Rallidae	Tribonvx ventralis	Black-tailed Native-hen	-	-	x									
Recurvirostridae	Cladorhvnchus leucocephalus	Banded Stilt	-	-	x									
Recurvirostridae	Himantopus himantopus	Black-winged Stilt	-	МА	x	x				x				
Recurvirostridae	Recurvirostra novaehollandiae	Red-necked Avocet	-	MA	x	x				~				
Rhiniduridae	Rhinidura albiscana	Grev Fantail		-	x	~						<u>├</u> ──┤		<u> </u>
Rhiniduridae	Rhipidura leucophrys	Willie Wagtail			v			v	v	v	v	╂───┤	v	<u> </u>
Rhipiduridae	Rhipidura phasiana	Mangrove Grey Fantail,	-	-	x			~	~	~	~		~	
Rostratulidae	Rostratula australis	Australian Painted Snine	FN	ΕΝ ΜΔ	v	v						╂───┤		<u> </u>
Scolonacidae	Actitis hypoleucos	Common Sandniner	MI		×	×	v							<u> </u>
Scolopacidae	Arenaria internres	Ruddy Turnstone	MI		×	×								<u> </u>
Scolopacidae	Calidris acuminata	Sharp tailed Sandniner	MI		×	×								<u> </u>
Scolopacidae	Calidris acuminata	Sandorling	MI		×	×				v		<u> </u> '		
Scolopacidae	Calidris conutus	Pod Knot			×	×				^		<u> </u> '		
Scolopacidae		Pread billed Sandniner			X	X	X					┨────┘		<u> </u>
Scolopacidae	Calidris farruginas	Curlow Sandpiper			X	X	X					<u> </u> '		<u> </u>
Scolopacidae	Calidris reclanatas	Desteral Sandpiper	M		X	X	X					┨────┘		<u> </u>
Scolopacidae			IVII		X	X	X					<u> </u> '		<u> </u>
Scolopacidae	Calidris pugnax	Rull Red realized Stint	IVII	IVII, IVIA (as P. pugnax)	X		X							<u> </u>
Scolopacidae		Red-necked Slint	IVII		X	X	X							<u> </u>
Scolopacidae					X	X	X							<u> </u>
Scolopacidae		Great Knot	CR		X	X	X							<u> </u>
Scolopacidae		Swinnoe's Snipe	IVII	IVII, IVIA	X		X					 '		──
Scolopacidae	Gallinago stenura	Pin-tailed Shipe	IVII NAL	MI, MA	X		X					 '		──
Scolopacidae	Limnodromus semipaimatus	Asian Dowitcher	IVII	VU, MI, MA	X	X	X					 '		──
Scolopacidae	Limosa lapponica	Bar-tailed Godwit	MI (<i>L. l. bauerii</i> VU; <i>L. l. menzbieri</i> CR)	Chris. Is. EN; <i>L. lapponica bauerii</i> <i>menzbieri</i> EN)	х	x	x			x				
Scolopacidae	Limosa limosa	Black-tailed Godwit	MI	EN, MI, MA	х	х	х							
Scolopacidae	Numenius madagascariensis	Far Eastern Curlew, Eastern Curlew	CR	CE, MI, MA	x	x	x		x					
Scolopacidae	Numenius minutus	Little Curlew	MI	MI, MA	х	х	х							
Scolopacidae	Numenius phaeopus	Whimbrel	MI	MI, MA	х	x	х			х				
Scolopacidae	Phalaropus lobatus	Red-necked Phalarope	MI	MI. MA	х	x	x							
Scolopacidae	Tringa brevipes	Grey-tailed Tattler	MI. P4	MI, MA	x	х	x							
Scolopacidae	Tringa glareola	Wood Sandpiper	MI	MI. MA	x	x	x	1	1		1			<u> </u>
Scolopacidae	Tringa nebularia	Common Greenshank	MI	EN. MI. MA	x	x	x							
Scolopacidae	Tringa stagnatilis	Marsh Sandpiper	MI	MI MA	x	x	x							<u> </u>
Scolopacidae	Xenus cinereus	Terek Sandpiper	MI		x	x	x					<u> </u>		<u> </u>
Strigidae	Ninox boobook	Boobook Owl	-	(N. boobook boobook MA)	x				x				x	
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Strigidae	Ninox connivens	Barking Owl	(<i>N. connivens</i> <i>connivens</i> SW subpop. P3)	-	x													
Sulidae	Sula leucogaster	Brown Booby	MI	MI, MA	х	х	х											
Threskiornithidae	Platalea flavipes	Yellow-billed Spoonbill	-	-	х													
Threskiornithidae	Platalea regia	Royal Spoonbill	-	-	х													
Threskiornithidae	Plegadis falcinellus	Glossy Ibis	MI	MI, MA	х		х											
Threskiornithidae	Threskiornis molucca	Australian White Ibis	-	MA	х													
Threskiornithidae	Threskiornis spinicollis	Straw-necked Ibis	-	MA	х					х								
Turnicidae	Turnix pyrrhothorax	Red-chested Buttonquail	-	-	х													
Turnicidae	Turnix velox	Little Buttonquail	-	-	х				х	х	х		х					
Tytonidae	Tyto javanica	Eastern Barn Owl	-	-	х				х									
Zosteropidae	Zosterops luteus	Yellow White-eye, Canary White- eye	-	-	x				x	x								
Mammalia					1							1		1	1			
Bovidae	Bos primigenius taurus	European Cattle	-	-	x			х	х	х	x	1	х					х
Bovidae	Capra aegagrus hircus	Goat	-	_	х													
Bovidae	Ovis aries	Sheep	-	_						х								
Camelidae	Camelus dromedarius	Dromedary Camel	-	_						х								х
Canidae	Canis familiaris	Dingo / Dog	-	-	х				х	х	х		х					
Canidae	Vulpes vulpes	Red Fox	-	-	х				х		х		х					х
Dasyuridae	Antechinomys laniger	Kultarr	-	-	х													
Dasyuridae	Dasycercus blythi	Brush-tailed Mulgara, Ampurta	P4	-	x		x		x	x	x	x		x	x		x	
Dasyuridae	Dasycercus cristicauda	Crest-tailed Mulgara	P4	-	х		х											
Dasyuridae	Dasykaluta rosamondae	Kaluta	-	-	х				х		х	х	х					
Dasyuridae	Dasyurus hallucatus	Northern Quoll	EN	EN	х	х	х		х	х			х			х		х
Dasyuridae	Ningaui timealeyi	Pilbara Ningaui	-	-	х			х	х									х
Dasyuridae	Planigale ingrami	Long-tailed Planigale	-	-	х													
Dasyuridae	Planigale kendricki	Orange-headed Pilbara Planigale	-	-					x									
Dasyuridae	Planigale tealei	Cracking-clay Pilbara Planigale	-	-	x													
Dasyuridae	Pseudantechinus roryi	Rory's False Antechinus	-	-	х													
Dasyuridae	Pseudantechinus woolleyae	Woolley's Pseudantechinus	-	-	х				х									
Dasyuridae	Sminthopsis macroura	Stripe-faced Dunnart	-	-	х			х	х				х					
Dasyuridae	Sminthopsis youngsoni	Lesser Hairy-footed Dunnart	-	-	х				х		х							
Emballonuridae	Saccolaimus flaviventris	Yellow-bellied Sheath-tailed Bat	-	-	x				x	x								x
Emballonuridae	Taphozous georgianus	Common Sheath-tailed Bat	-	-	х			?	х	х			х					х
Equidae	Equus ferus caballus	Horse	-	-	х													
Felidae	Felis catus	Cat	-	-	х			х	х	х	х	х	х					х
Leporidae	Oryctolagus cuniculus	Rabbit	-	-	х													
Macropodidae	Lagostrophus fasciatus fasciatus	Banded Hare-wallaby	VU	VU	х		х											
Macropodidae	Osphranter robustus	Common Wallaroo	-	-	х			х	х	х			х					х
Macropodidae	Osphranter rufus	Red Kangaroo, Marlu	-	-	х			х	х	х	х							
Macropodidae	Petrogale rothschildi	Rothschild's Rock-wallaby	-	-	х								х					х
Megadermatidae	Macroderma gigas	Ghost Bat	VU	VU	х	х	х		х				х					
Molossidae	Austronomus australis	White-striped Free-tailed Bat	-	-	х				х	х			х					
Molossidae	Chaerephon jobensis colonicus	Greater Northern Free-tailed Bat	-	-	x			х	x	x	x							х
Molossidae	Ozimops cobourgianus	Northern Coastal Free-tailed Bat	P1	-	x		х											
Molossidae	Ozimops lumsdenae	Northern Free-tailed Bat	-	-					х									
Muridae	Leggadina lakedownensis	Short-tailed Mouse	P4	-	х		х											
Muridae	Mus musculus	House Mouse	-	-	х													
Muridae	Notomys alexis alexis	Spinifex Hopping-mouse	-	-	х				х		х	х	х					х
Muridae	Pseudomys chapmani	Western Pebble-mound Mouse	P4	-	x		x	x	x	x			x					x
Muridae	Pseudomys delicatulus	Delicate Mouse	-	-	х				х									

Muridae	Pseudomys desertor	Desert Mouse	-	-	х			х	Х					
Muridae	Pseudomys hermannsburgensis	Sandy Inland Mouse	-	-	х				х		х			
Muridae	Pseudomys nanus nanus	Western Chestnut Mouse	-	-	х									
Muridae	Rattus rattus	Black Rat	-	-	х									
Muridae	Zyzomys argurus	Common Rock-rat	-	-	х				х				x	
Pteropodidae	Pteropus alecto gouldii	Black Flving-fox	-	-					х					
Pteropodidae	Pteropus scapulatus	Little Red Flving-fox	-	-	х				х					
Rhinonycteridae	Rhinonicteris aurantia Pilbara form	Pilbara Leaf-nosed Bat	VU	VU	x	x	x	x	x			x	x	
Suidae	Sus scrofa	Pig	-	-					х					
Tachyglossidae	Tachyglossus aculeatus acanthion	Short-beaked Echidna	-	-	x				x				х	
Thylacomyidae	Macrotis lagotis	Bilby, Dalgyte	VU	VU	х	х	х		х		х	х		>
Vespertilionidae	Chalinolobus gouldii	Gould's Wattled Bat	-	-	х			х	х	х	х		х	
Vespertilionidae	Nyctophilus arnhemensis	Arnhem Long-eared Bat	-	-	х									
Vespertilionidae	Nyctophilus geoffroyi geoffroyi	Lesser Long-eared Bat	-	-	х				х	х				
Vespertilionidae	Scotorepens grevii	Little Broad-nosed Bat	-	-	х			х	х	х	х		х	
Vespertilionidae	Vespadelus finlaysoni	Finlavson's Cave Bat	-	-	х			х	х	х	х		х	
Rentilia				I			<u> </u>		<u> </u>	1				
Agamidae	Ctenonhorus caudicinctus	Western Ring-tailed Dragon	_	-	v	<u> </u>		v	v	v	<u> </u>	1	v	—
Agamidae	Ctenophorus isolenis	Central Military Dragon	-		×			×	×	×	v		^ V	—
Agamidae	Ctenophorus nuchalis	Central Notted Dragon	-	-	X			X	X	X	X	╂────	X	<u> </u>
Agamidae	Ctenephorus retigulatus	Ventern Netted Dragon	-	-	X				X	X	X	<u> </u>		├
Agamidae		Creve stringed Western Depart	-	-	X							<u> </u>		┣─
Agamidae	Diporiphora paraconvergens	Grey-striped Western Desert Dragon	-	-	х									
Agamidae	Diporiphora pindan	Pindan Dragon	-	-	х									
Agamidae	Diporiphora valens	Southern Pilbara Tree Dragon	-	-	x									
Agamidae	Diporiphora vescus	Northern Pilbara Tree Dragon	-	-	x									
Agamidae	Gowidon longirostris	Long-nosed Dragon	-	-	х			х	х	х	x			
Agamidae	Lophognathus gilberti	Top End Ta-ta Dragon	_	-	x							<u> </u>		
Agamidae	Pogona minor	Western Bearded Dragon	-	-	x				x			<u> </u>		
Agamidae	Tympanocryptis cephalus	Coastal Pebble-mimic Dragons	-	-										
Cambodactylidae	Nenhrurus levis	Smooth knob-tailed decko			v						v	<u> </u>		<u> </u>
Chelidae	Chelodina steindachneri		-	-	×				v		^			├──
Diplodactylidae	Diplodactylus bilybara	Western Eat-tailed Gecko	-	-	^				×		v			├──
Diplodactylidae	Diplodactylus conspicillatus	Variable Eat tailed Gecko	-	-	v				^		<u>^</u>			├──
Diplodactylidae	Diplodactylus conspiciliatus	Desert Eat tailed Gecko	-	-	^				v		<u> </u>		<u> </u>	├
Diplodactylidae	Lucasium woodwardi	Desert Fat-tailed Gecko	-	-	v				×			╂────	'	├──
Diplodactylidae	Oedura fimbria	Western Marbled Velvet Gecko	-		X				X		X			\vdash
Diplodactylidae	Rhynchoedura ornata	Western Beaked Gecko	-	-	x				x		x			├
Diplodactvlidae	Strophurus ciliaris aberrans	-	-	-	x							<u> </u>		
Diplodactvlidae	Strophurus ciliaris ciliaris	-	-	-	x				x		x	<u> </u>		
Diplodactylidae	Strophurus elderi	Jewelled Gecko	-	-	x				-					
Diplodactylidae	Strophurus jeanae	Southern Phasmid Gecko	-	-	x									
Flanidae	Acanthophis pyrrhus	Desert Death Adder	-	-	x				x	x				
Elapidae	Acanthophis wellsi	Pilbara Death Adder			×				^	^		<u> </u>		<u> </u>
Elapidae	Brachyurophis approximans	North-western Shovel-nosed	-	-	x									\vdash
Elemider	Demonsis retiredata	Snake Deticulated M/him and h				<u> </u>					<u> </u>	──	┝──┘	┣—
⊨iapidae			-	-	X	<u> </u>		X	X		<u> </u>	┣───	<u> </u>	
Elapidae	Demansia rufescens	Rutous Whipsnake	-	-	Х				Х		Х	──		⊢
Elapidae	Furina ornata	Moon Snake	-	-	х	<u> </u>	<u> </u>		Х		<u> </u>	<u> </u>		_
Elapidae	Pseudechis australis	Mulga Snake	-	-	х			х	Х		х	 		L
Elapidae	Pseudonaja mengdeni	Western Brown Snake	-	-	х			х	х		х	<u> </u>		L
Elapidae	Pseudonaja modesta	Ringed Brown Snake	-	-	х				х					L
Elapidae	Pseudonaja nuchalis	Gwardar; Northern Brown Snake	-	-	x									

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Elapidae	Simoselaps anomalus	Desert Banded Snake	-	-	х				Х				
Elapidae	Suta punctata	Spotted Snake	-	-	х				х				
Gekkonidae	Gehyra incognita	Northern Pilbara Crytpic Gehyra	-	-					x				
Gekkonidae	Gehyra macra	Large Pilbara Rock Gehyra	-	-					х				
Gekkonidae	Gehyra media	Medium Pilbara Spotted Rock Gehvra	-	-					х	x			
Gekkonidae	Gehyra montium	-	-	-	1				x				
Gekkonidae	Gehvra pilbara	Pilbara Dtella	-	-	x				x				
Gekkonidae	Gehvra punctata	Spotted Pilbara Rock Dtella	-	-	x								<u> </u>
Gekkonidae	Gehvra purpurascens	-	-	-	x								<u> </u>
Gekkonidae	Gehvra variegata	Variegated Gebyra	-	_	x				x		x		<u> </u>
Gekkonidae	Hemidactylus frenatus	Asian House Gecko	-		x						-		<u> </u>
Gekkonidae	Heteronotia binoei	Bynne's Gecko	_		x				x		x		<u> </u>
Gekkonidae	Heteronotia spelea	Pilbara Cave Gecko	-		x				~		~		<u> </u>
Homalopsidae	Fordonia leucobalia	White-bellied Mangrove Snake	-	-	x								
Bygonodidao	Delma horea	Rusty topped Dolma			×								
Pygopodidaa	Delma butleri	Spinifex Dolmo	-	-	X				~			 	
Pygopodidaa			-	-	X				X			 	
F ygopodidee		Sharp spouted Dolma	-	-	X			<u> </u>	X				
Pygopodidae		Sharp-shouled Delma	-	-	X								
Pygopodidae	Delma pax	Peaceiul Delma	-	-	X				X		X		<u> </u>
Pygopodidae		Excluable Delma	-	-	X				X		X		<u> </u>
Pygopodidae		Burton's Snake-Ilzard	-	-	X			X	X				
Pygopodidae	Pygopus nigriceps	Western Hooded Scaly-foot	-	-	X				X				<u> </u>
Pythonidae	Antaresia childreni	Children's Python	-	-	X				X				
Pythonidae	Antaresia pertnensis	Pygmy Python	-	-	X				X				<u> </u>
Pythonidae	Aspidites melanocephalus	Black-headed Python	-	-	Х				Х	Х	Х		<u> </u>
Pythonidae	Aspidites ramsayi	Woma	P1 (southwest subpop.)	-	х								
Pythonidae	Liasis olivaceus barroni	Pilbara Olive Python	VU	VU	х	х	х		х				
Scincidae	Carlia munda	Shaded-litter Rainbow-skink	-	-	х								
Scincidae	Carlia triacantha	Desert Rainbow Skink	-	-	х				х		х		
Scincidae	Cryptoblepharus buchananii	Buchanan's Snake-eyed Skink	-	-	x								
Scincidae	Cryptoblepharus plagiocephalus	Péron's Snake-eyed Skink	-	-	х								
Scincidae	Cryptoblepharus ustulatus	Russet Snake-eyed Skink	-	-	х								
Scincidae	Ctenotus angusticeps	Northwestern Coastal Ctenotus	P3	-	x		x						
Scincidae	Ctenotus duricola	Eastern Pilbara Lined Ctenotus	-	-	x				x	x	x		
Scincidae	Ctenotus dux	-	-	-	x								
Scincidae	Ctenotus grandis	Grand Ctenotus	-	-	х			х	х	х	х		
Scincidae	Ctenotus hanloni	Nimble Ctenotus	-	-	х				х		х		
Scincidae	Ctenotus helenae	Clay-soil Ctenotus	-	-	х				х		х		
Scincidae	Ctenotus pantherinus	Leopard Ctenotus	-	-	x				x	х	х		
Scincidae	Ctenotus piankai	Coarse Sands Ctenotus	-	-	x				x		х		
Scincidae	Ctenotus rufescens	Rufous Finesnout Ctenotus	-	-	x						x		
Scincidae	Ctenotus saxatilis	Rock Ctenotus	-	-	X			x	x	x	x		
Scincidae	Ctenotus schomburgkii	Barred Wedge-snouted	-	-					x				
Scincidae	Ctenotus serventyi	North-western Sandy-loam	-	-	x			x	x		x		
Scincidae	Ctenotus superciliaris	Sharp-browed Ctenotus	-	-	+				x		1	<u> </u>	<u> </u>
Scincidae	Cyclodomorphus melanops	Spinifex Slender Blue-tongue	-	-	-	<u> </u>			x		<u> </u>		<u> </u>
Scincidae	Egernia cygnitos	Western Pilbara Spiny-tailed	-	-	x								
Scincidae	Egernia depressa	Southern Pygmy Spiny-tailed Skink	-	-	x								

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Scincidae	Egernia epsisolus	Eastern Pilbara Spiny-tailed Skink	-	-	x		x	x	x					
Scincidae	Eremiascincus isolepis	Northern Bar-lipped Skink	-	-	х			1						
Scincidae	Eremiascincus musivus	Mosaic Desert Skink	-	-	х									
Scincidae	Eremiascincus pallidus	Western Narrow-banded Skink	-	-	x									
Scincidae	Eremiascincus richardsonii	Broad-banded Sand Swimmer	-	-	x									
Scincidae	Lerista bipes	North-western Sandslider	-	-	х			х		х				х
Scincidae	Lerista clara	Sharp-blazed Three-toed Slider	-	-	х			x						
Scincidae	Lerista jacksoni	Jackson's Three-toed Slider	-	-	х									
Scincidae	Lerista muelleri	Wood Mulch-slider	-	-	х									х
Scincidae	Lerista timida	Timid Slider	-	-				х						
Scincidae	Menetia greyii	Common Dwarf Skink	-	-	х			х		х				х
Scincidae	Menetia surda	Western Dwarf Skink	-	-				х						
Scincidae	Morethia ruficauda exquisita	Lined Fire-tailed Skink	-	-	х									Х
Scincidae	Morethia ruficauda ruficauda	Lined Fire-tailed Skink	-	-	х		х	х		х	Х			
Scincidae	Notoscincus butleri	Lined Soil-crevice Skink	P4	-										х
Scincidae	Notoscincus ornatus ornatus	Ornate Soil-crevice Skink	-	-	х									х
Scincidae	Proablepharus reginae	Western Soil-crevice Skink	-	-	х									Х
Scincidae	Tiliqua multifasciata	Central Blue-tongue	-	-	х		х	х	х					х
Typhlopidae	Anilios ammodytes	Pilbara Blind Snake	-	-	х			х						
Typhlopidae	Anilios grypus	Long-beaked Blind Snake	-	-	х			х		х				
Typhlopidae	Anilios pilbarensis	Pilbara Hook-snouted Blind Snake	-	-	x					x				
Varanidae	Varanus acanthurus	Spiny-tailed Goanna	-	-	х		х	х		х				Х
Varanidae	Varanus brevicauda	Short-tailed Pygmy Goanna	-	-	х			х		х				х
Varanidae	Varanus bushi	Pilbara Mulga Goanna	-	-	х									
Varanidae	Varanus eremius	Pygmy Desert Goanna	-	-	х			х		х				х
Varanidae	Varanus giganteus	Perentie	-	-	х			х			х			
Varanidae	Varanus gouldii	Bungarra Or Sand Goanna	-	-	х		х	х		х				х
Varanidae	Varanus panoptes	Yellow-Spotted Monitor	-	-	х		х			х				х
Varanidae	Varanus pilbarensis	Northern Pilbara Rock Goanna	-	-	х			x						x
Varanidae	Varanus tristis	Racehorse Goanna	-	-										Х
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Appendix I Fauna Site Sheets

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024



				675.0)72189-BAT-1	
Project:	675.072189					
Date	1-03-2024		Sample Type	ARU		
Zone 50	Easting	690876		Northing	7740452	
	Landform and Soil			R	ock	
Landform	Outcrop/breakaway		Rock type/s	Quartz		
Aspect	West		Surface stone cover	75 - 100%		
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), S	mall Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small	and the second sec
Soil colour	Red		present	Rocks (6 - 20 cm), R Boulders (>2 m)	ocks (20 - 60 cm), Big Rocks (60 cm - 2 m),	at the second
	Condition			Habitat	Features	
Quality	Very good		Water Source	Absent		
Fire History	Little or no fire evidence (>	⊳5 years)	Microhabitats	Exfoliating rock, Hu	mmocks Rock crevices	and the second second
Disturbance	None observed			En ondering room, rid		
ntroduced fauna	None observed		Ground Cover	76-100%		
		1	Vegetation	T		
Upper stratum	Absent					
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or	neathland (0.25-20%)	Acacia colei		
Ground stratum	Low (>0.5 m)	Sparse hummock grasslar	d (0.25-20%)	Triodia sp.		Fulcrum photo ID 3e20cbbb-6a6b-4f2b-8d6a-e7865c62b5f0

				675.07	2189-BAT-2			
Project:	675.072189							1.14
Date	1-03-2024		Sample Type	ARU				
Zone 50	Easting	701623		Northing	7740708.5			
	Landform and Soil			Rock		A A A A A A A A A A A A A A A A A A A		
Landform	Plain		Rock type/s	Granite			WHEN SHOLD NON THE PHYSICAL	
Aspect	Negligible		Surface stone cover	75 - 100%		No. (No. 160)		
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Sma	II Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks	NO TON		-
Soil colour	Orange		present	(20 - 60 cm), Big Rocks (6 - 20 cm)	(60 cm - 2 m), Boulders (>2 m), Small Rocks			2
	Condition		Habitat Features					3.
Quality	High quality		Water Source	Absent		A share the		36
Fire History	Burnt (1-5 years)		Microhabitats	Exfoliating rock, Humm	ocks, Leaf litter, Rock crevices, Termite	A LIT WE - HUT P		25
Disturbance	None observed		Which of labitatio	mounds, Woody debris	5	and the states		
Introduced fauna	None observed		Ground Cover	26-50%		N. Jakana Ja		10
			Vegetation					1. J
Upper stratum	Absent							
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	neathland (0.25-20%)	Acacia sp.				No.
Ground stratum	Low (>0.5 m)	Closed hummock grasslan	d (>80%)	Triodia epactia		Fulcrum photo ID	62505859-d69d-424a-b438-073c23ab4962	

				675.072	189-BAT-3			
Project:	675.072189					XA VI		
Date	2-03-2024		Sample Type	ARU				-X
Zone 50	Easting	716968		Northing	7749334	SALZA L	A PARA A ANN	A
	Landform and Soil			Rock	-	MO CANK		
Landform	Outcrop/breakaway		Rock type/s	Granite, Ironstone, Quartz	2	1		
Aspect	North		Surface stone cover	50 - 75%		1 1 No. 1 1	ALANXI, CONTRACTOR	STAT I
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm), S	Stones (2 - 6 cm), Small Rocks (6 - 20 cm),			et a
Soil colour	Red		present	Rocks (20 - 60 cm), Big Roo	cks (60 cm - 2 m)			L.T
	Condition			Habitat Featu	ires	XPACT		
Quality	Good		Water Source	Absent		12 Dela		in the
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Caves Exfoliating rock Hu	immocks. Rock crevices	K SAN		X
Disturbance	Overgrazing			ouroo, Enonuting room, rid		A 12 572		
Introduced fauna	Cattle		Ground Cover					Sec.
	-	1	Vegetation	n				
Upper stratum	Absent					1 AB		
Mid stratum	Absent							at a
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	86a89a3c-39c7-47cb-9440-9df6551d1eea	

				675.072	189-BAT-4		
Project:	675.072189						
Date	2-03-2024		Sample Type	ARU			A HORE
Zone 50	Easting	719953		Northing	7754956.3	- Experience	
	Landform and Soil			Rock			AND
Landform	Outcrop/breakaway		Rock type/s	Granite			
Aspect	West		Surface stone cover	75 - 100%		Contraction of the second	
Soil type	Rock		Surface stone size classes	Pebbles (<0.6 cm), Small S	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks	A manual and	
Soil colour	Orange		present	(20 - 60 cm), Big Rocks (60 20 cm)	0 cm - 2 m), Boulders (>2 m), Small Rocks (6 ·	×	
	Condition		Habitat Features				
Quality	High quality		Water Source	Absent			ALL
Fire History	Burnt (1-5 years)		Microhabitats	Caves, Exfoliating rock, Hu	ummocks, Leaf litter, Peeling bark, Rock	N. Complete	The property of the second sec
Disturbance	None observed		inition of iddition	crevices, Woody debris		and the second	
Introduced fauna	None observed		Ground Cover	11-25%		and the second	and the second sec
			Vegetation	ſ			Contraction of the second s
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Atalaya hemiglauca and F	icus brachypoda		
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	athland (20-50%)	Atalaya hemiglauca and F	-icus brachypoda		
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	1 (0.25-20%)	Triodia sp.		Fulcrum photo ID	7b5335c9-98ff-40b2-8b96-9c27e29db566

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en	vinonr	nental
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				675.0 ⁻	72189-BAT-5		
Project:	675.072189						
Date	2-03-2024		Sample Type	ARU		A Real Provide State	And And And And
Zone 50	Easting	705916	*	Northing	7742518		
	Landform and Soil			Roc	ck	A de la sel de se	Provide the second s
Landform	Drainage line		Rock type/s	None			
Aspect	Negligible		Surface stone cover				
Soil type	Sand		Surface stone size classes			and the second	
Soil colour	Red		present			The second second	
	Condition			Habitat F	eatures	Contraction of the second	The A Part of the second secon
Quality	Good		Water Source	Absent			
Fire History	Little or no fire evidence (>5 years)	Microbabitats	Hummocks Leaf litter	r		Assessed and the second s
Disturbance	None observed		Wild Ondortato	Hummooks, Edu inter			
Introduced fauna	None observed		Ground Cover			and the second	Carping the // Marker Barrier
		1	Vegetation	1		A Car	SA WALL DOC
Upper stratum	Low (<10 m)	Open woodland (0.25-20%))	Eucalyptus melaleuca		1 Jak	AND I A BUILD
Mid stratum	Mid (1-2 m)	Open shrubland and/or he	athland (20-50%)	Acacia sp.			A CARLENS CONTRACT
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	39731cc9-60a3-4bcd-936c-6e4f11664eb3

				675.07	2189-BIL-6		
Project:	675.072189						
Date	3-03-2024		Sample Type	Bilby Search			
Zone 50	Easting	667478		Northing	7736632.3		
	Landform and Soil			Rock		ALC: NO.	a
Landform	Plain		Rock type/s	None		4.我的心理是	F & A The way & Alteria
Aspect	Negligible		Surface stone cover			the second second	and the second second
Soil type	Sandy loam		Surface stone size classes				
Soil colour	Orange		present				
	Condition		Habitat Features				and the state of the second second
Quality	Very good		Water Source	Absent			
Fire History	Little or no fire evidence (>	>5 years)	Microhabitats	Caves, Hollows - logs, Ho	llows - trees, Hummocks, Leaf litter, Peeling	AND ADDRESS OF	Ward and allow the second
Disturbance	Vehicle tracks			bark, Woody debris		and the second and the second	A CONTRACT OF A CONTRACT
Introduced fauna	None observed		Ground Cover	51-75%			A REAL PROPERTY OF THE REAL PR
		1	Vegetation	1		A DECEMBER OF	
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	Eucalyptus victrix		1.4.4. 1.4.4.	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Eucalyptus victrix		a mile and	
Ground stratum	tratum Low (>0.5 m) Open hummock grassland (Triodia epactia		Fulcrum photo ID	3ac6a6bf-cb3f-4392-8979-f6ce998c7fe5

						360 environme
				675	.072189-BIL-7	
Project:	675.072189					
Date	4-03-2024		Sample Type	Bilby Search		
Zone 50	East	ting 71	3934	Northing	7752705	
	Landform and	l Soil			Rock	
Landform	Plain		Rock type/s	None		
Aspect	Negligible		Surface stone cover			
Soil type	Sand		Surface stone size classe	s		
Soil colour	Red		present			and the second s
	Conditior	1		Habita	it Features	
Quality	Good		Water Source	Present		and the second
Fire History	Little or no fire evi	dence (>5 years)	Microbabitats	Hummocks		
Disturbance	None observed		Whisi of abitats	Thurmhoeks		
Introduced fauna	Cattle		Ground Cover	51-75%		and the second sec
			Vegetation			
Upper stratum	Absent					and the second s
Mid stratum	Absent					and the second
Ground stratum	Low (>0.5 m)	Hummock grassla	nd (50-80%)	Triodia secunda Ad	acia stellaticeps	Fulcrum photo ID 107d370e-5367-4d15-b434-84d3e61495b5,e61fe2c6-8666-467b-

				675.072	2189-BIL-8		
Project:	675.072189					Sec. 2. 1. 6	
Date	4-03-2024		Sample Type	Bilby Search		and the second	
Zone 50	Easting	716835		Northing	7749621.6		the second se
	Landform and Soil			Rock		1	
Landform	Plain		Rock type/s	None			the second se
Aspect	Negligible		Surface stone cover				and the second se
Soil type	Sand		Surface stone size classes			And the second designed of the second designe	Charter Soldier and State of the Local Division of
Soil colour	Red		present			and the man and the second	and the second
	Condition		Habitat Features			A CONTRACTOR OF	out the second
Quality	Disturbed		Water Source	Absent		LAND BEICHTAN	
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter		AD IN THE R.	A State of the second s
Disturbance	Overgrazing, Vehicle tracks				State of the state		
Introduced fauna	Cattle		Ground Cover	51-75%			
			Vegetation	T			
Upper stratum	Absent						A LAND CONTRACTOR
Mid stratum	Absent					the Contract	A MARKET SATE AND ADD
Ground stratum	Mid (0.5-1 m)	Open hummock grassland	(20-50%)	Triodia epactia and Acaci	a stellaticeps	Fulcrum photo ID	12fabc39-ac9a-4cd9-9c9c-242da5192f05,3955ed23-f85c-4187-80bf-

					675.07	2189-BIL-9			
Project:		675.072189							
Date		4-03-2024		Sample Type	Bilby Search		the top	The Tax	Statement of Statements
Zone	50	Easting	716904		Northing	7749069	and the second	the second states and	states a planting
		Landform and Soil	•		Rock		A. Burner	A A COLOR OF A CARL	W Charles and the second second
Landform		Outcrop/breakaway		Rock type/s	Ironstone		Contraction of the second	The spice of	
Aspect		North		Surface stone cover	50 - 75%		the second second	Acres Francisco	The state of the second second
Soil type		Rock		Surface stone size classes	Pebbles (<0.6 cm), Small	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small	A Real Property in the second s	a principal and	and the second second
Soil colour	il colour Black, Brown, Red			present	Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m)		a loss and all		States and and
		Condition			Habitat Feat	ures	and the second	Ale California Carlos	The Real Property in
Quality Good		Water Source	Absent			The second and	See States - See Services		
Fire History		Little or no fire evidence (>	∘5 years)	Microbabitats	Hummocks Rock crevices		Provide Provid		and the second second
Disturbance		None observed				The star	Contraction of the second	the same the second second	
Introduced fa	auna	None observed		Ground Cover			A DESCRIPTION	and the state of the	A STATE OF THE
				Vegetation	-			AGE - A	
Upper stratu	m	Absent						and a set	Can Diversity of Party of
Mid stratum		Mid (1-2 m) Sparse shrubland and/or heathland (0.25-20%)		eathland (0.25-20%)	Grevillea sp. or Hakea sp., and Acacia inaequilatera				
Ground strat	um	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia sp.		Fulcrum photo ID	63b1a5ff-a1c5-400b-ae5e-a	a1fe522158e7,a7ed4d92-313f-4e46-a1ae-

				675.07	2189-BIL-10	
Project:	675.072189					
Date	4-03-2024		Sample Type	Bilby Search		
Zone 50	Easting	716811		Northing	7749157.6	
	Landform and Soil			Roci	k	
Landform	Dune crest		Rock type/s	None		
Aspect	North		Surface stone cover			and an a second de la state
Soil type	Sand		Surface stone size classes			
Soil colour	Red		present			
	Condition		Habitat Features	-		
Quality	Good	bod		Absent		
Fire History	Little or no fire evidence	(>5 years)	Microhabitats	Hummocks, Leaf litter		
Disturbance	Overgrazing					
Introduced fauna	Cattle		Ground Cover			
			Vegetation	T		
Upper stratum	Absent					
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	arse shrubland and/or heathland (0.25-20%)			
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia and Ac	acia stellaticeps	Fulcrum photo ID e559afca-a53d-4f53-9bd2-3252e55333f8,6be2d548-40a0-4677-9

				67	5.072189-BIL-11		
Project:	675.072189						Π.
Date	4-03-2024		Sample Type	Bilby Search			
Zone 50	Easting	710384	-	Northing	7746378		
	Landform and Soil	•		,	Rock		
Landform	Plain		Rock type/s	None		and	
Aspect	Negligible		Surface stone cover			A CALL AND	
Soil type	Sand		Surface stone size classes			and Action and and a second	
Soil colour	Red		present				
	Condition			Hab	bitat Features		
Quality	Disturbed		Water Source	Present			
Fire History	Recently burnt (<1 year)		Microbabitate	Hummocks		and the second of the second of the second of the	
Disturbance	None observed		When of labitats	Hummocks			
Introduced fauna	None observed		Ground Cover	<10%			
			Vegetation			the second s	
Upper stratum	Absent						
Mid stratum	Absent						
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID 2ea4fc1c-d3b8-4425-890f-c342fa984582,6cb20729-91ad-4f24-995	j-

				675.072	2189-BIL-12		
Project:	675.072189						
Date	7-03-2024		Sample Type	Bilby Search			
Zone 50	Easting	699416		Northing	7741024.8		
	Landform and Soil			Rock			
Landform	Plain		Rock type/s	None			
Aspect	Negligible		Surface stone cover			Contraction of the	
Soil type	Sand		Surface stone size classes				
Soil colour	Red		present				the second se
	Condition		Habitat Features			The state of 19	CULT STATISTICS
Quality	Very good		Water Source	Absent		and the state of the	the South and the state of the south of the south of the
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks		and the second second	
Disturbance	None observed					1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and making a strain of the strain of the strain of the
Introduced fauna	None observed		Ground Cover	51-75%		the state of the	The second states - second states
			Vegetation			A Real Property of the Party of	and the second s
Upper stratum	Absent					10000000000000000000000000000000000000	the second second
Mid stratum	Low (0.5-1 m)	Isolated shrubs and/or hea	th shrubs (<0.25%)	Acacia Inaequilatera		- Alto and	A Star all and and
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	b0f6bf39-7835-4d22-9e57-6830de2458c4

				675.0	72189-BIL-13	
Project:	675.072189					
Date	9-03-2024		Sample Type	Bilby Search		
Zone 50	Easting	679178		Northing	7739203	
	Landform and Soil	-		Roc	:k	
Landform	Plain		Rock type/s	None		 Charlos and the second s
Aspect	Negligible		Surface stone cover			The second s
Soil type	Sand		Surface stone size classes			
Soil colour	Red		present			No. in contraction of the second second
	Condition Very good		Habitat Features			the second s
Quality	Very good		Water Source	Absent		
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks. Termite mounds		the second s
Disturbance	None observed					
Introduced fauna	None observed		Ground Cover	51-75%		
			Vegetation	l		Contraction of the second s
Upper stratum	Absent					and the second sec
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Acacia Inaequilatera		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID 06ed5988-2a43-4f6c-8520-577b3d99220f,c5972ade-3dd7-4efd-9645

				675.072	189-BIR-14		
Project:	675.072189					the second s	
Date	1-03-2024		Sample Type	ARU		To be a	R R R R R R R R R R R R R R R R R R R
Zone 50	Easting	701609		Northing	7740740.9	atter and the second	
	Landform and Soil			Rock		and a state of the	
Landform	Plain		Rock type/s	Granite			
Aspect	Negligible		Surface stone cover	75 - 100%		Tana man	ANT THE PARTY AND
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Small	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks	A CAN DA	
Soil colour	Orange		present	(20 - 60 cm), Big Rocks (6 20 cm)	0 cm - 2 m), Boulders (>2 m), Small Rocks (6 -	A. C.	
	Condition		Habitat Features			130 120 1	A CARLES AND A CARLES
Quality	High quality		Water Source	Absent		and the second second	and the providence of the second second
Fire History	Burnt (1-5 years)		Microbabitats	Exfoliating rock, Hummocks, Leaf litter, Rock crevices, Termite			The same and the second second second
Disturbance	None observed		Wild Ondortato	mounds, Woody debris		State State	
Introduced fauna	None observed		Ground Cover	26-50%		A STAND	
	_		Vegetation			ST TALLANS	
Upper stratum	Absent					A ANY	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)		Acacia sp.			i la la la la la la la
Ground stratum	Low (>0.5 m)	Closed hummock grassland	l (>80%)	Triodia epactia		Fulcrum photo ID	918fae2c-2e93-42c0-89df-a62a9f546241



				675.072 [°]	189-BIR-15		
Project:	675.072189						
Date	2-03-2024		Sample Type	ARU		TA FAN STOP	N A SHARE AND
Zone 50	Easting	719490		Northing	7755363		
	Landform and Soil			Rock		Prove all 1	
Landform	Drainage line		Rock type/s	None			
Aspect	Negligible		Surface stone cover			and the second second	The second se
Soil type	Sand		Surface stone size classes			and the second	
Soil colour	Red		present			The manual and	
	Condition			Habitat Featu	ires	X A A	
Quality	Disturbed	Water Source		Absent			
Fire History	Little or no fire evidence (>	ence (>5 years) Microbabitats		Hummocks, Leaf litter, Peeling bark, Woody debris			and the thread a state of the
Disturbance	Overgrazing,Weeds			naninooks, Loa intor, rooing bark, woody dobris			
Introduced fauna	Cattle		Ground Cover			XCAL BARRIES	
	r	T	Vegetation	T			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)		Corymbia flavescens			The second second
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or he	eathland (0.25-20%)	Acacia colei			
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)	Triodia epactia		Fulcrum photo ID	8dc6f329-c8be-45ac-bace-216d4a90a599

				675.07	'2189-BIR-16		
Project:	675.072189						ALL MARKEN AND AND AND AND AND AND AND AND AND AN
Date	2-03-2024		Sample Type	ARU			
Zone 50	Easting	705845		Northing	7742778.4		
	Landform and Soi	I		Roc	k	SAMA	
Landform	Drainage line		Rock type/s	None			
Aspect	North		Surface stone cover				
Soil type	Sand		Surface stone size classes			A AN AN	
Soil colour	White, Yellow		present				
	Condition		Habitat Features	_			
Quality	Disturbed		Water Source				ELEX HOULD AND ANY
Fire History	Unknown		Microhabitats	Hollows - logs Hollow	s-trees Hummocks Leaflitter Woody debris	A MENT Y	
Disturbance	Vehicle tracks		initio on abriato	Honows logs, Honows lices, Hummocks, Eedi litter, woody debits			
Introduced fauna	None observed		Ground Cover	26-50%		with the	1
			Vegetation	1			
Upper stratum	Low (<10 m)	Woodland (20-50%)		Acacia cyperophylla, P	aper bark		E una FORMAN
Mid stratum	Mid (1-2 m)	Open shrubland and/or h	eathland (20-50%)	Acacia sp.			
Ground stratum	Low (>0.5 m)	Open hummock grassland	1 (20-50%)	Triodia epactia		Fulcrum photo ID	c196bc9b-894b-419b-ae7d-93e67e56c67d

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	al

				675.0	72189-BIR-17			
Project:	675.072189					Provide and an and		and the second sec
Date	3-03-2024		Sample Type	ARU		A STATE OF THE REAL PROPERTY O	the state of the	a state the state of the
Zone 50	Easting	667469	*	Northing	7736627	and the second second	Star Inter Star	Martin V Reserved
	Landform and Soil			Rc	ock			
Landform	Plain		Rock type/s	None		a sea a la state		In the mail in the
Aspect	Negligible		Surface stone cover				All Sales and	
Soil type	Sandy loam		Surface stone size classes					A STATE AND A STATE
Soil colour	Orange		present				and when I	A CARLES
	Condition			Habitat	Features	and the second second		Weiter and the second
Quality	Very good		Water Source	Absent		17 A.S.		(
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Caves, Hollows - logs	, Hollows - trees, Hummocks, Leaf litter, Peeling	and a state		
Disturbance	Vehicle tracks			bark, Woody debris		the my the state	A A A A A A A A A A A A A A A A A A A	
Introduced fauna	None observed		Ground Cover	51-75%		The Tat	Real Property in	With and the second second
		T	Vegetation	T			AND IN	CALL STATE
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	Eucalyptus victrix				
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Eucalyptus victrix		a de la composition de la comp		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	8a790cc8-8976-4ae5-86e2-5c	i4a357a349a,e210a7b2-e529-4ea1-ae0

				675.07	72189-BIR-18			
Project:	675.072189							
Date	3-03-2024		Sample Type	ARU				NO2 IN CONTRACTOR
Zone 50	Easting	660818		Northing	7739279.4			AND AN AND AND AND AND AND AND AND AND A
	Landform and Soil			Roc	k	A TANK		
Landform	Plain		Rock type/s	None				A COLORINA COLORIAN
Aspect	Negligible		Surface stone cover			处现的人民民	PLAZA MAR	MARK PITA
Soil type	Sand		Surface stone size classes				ALL BURN	AND AN AND AND AND AND AND AND AND AND A
Soil colour	Orange		present				1 and and	
	Condition		Habitat Features					1.5 1 2 1 17 1 C 2 5 1 C
Quality	Good		Water Source	Absent			Here Harris	HART A PLANNER
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	icrohabitats Hummocks Leaf litter. Woody debris Logs > 10 cm			NATION I	THI C THERE
Disturbance	Litter, Vehicle tracks				TO AT STEPAL		AND	
Introduced fauna	None observed		Ground Cover	51-75%				
		1	Vegetation	T		1 States		
Upper stratum	Low (<10 m)	Open woodland (0.25-20%))	Eucalyptus sp.				
Mid stratum	Low (0.5-1 m)	Open shrubland and/or heathland (20-50%)		Acacia stellaticeps				
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	1eca219b-fa86-4ffa-b	bf8-21f7f6639f0e



				675.072 [°]	189-CAM-19				
Project:	675.072189			A States and and a					
Date	1-03-2024		Sample Type	Camera Trap					Contraction of the
Zone 50	Easting	701625		Northing	7740707				
	Landform and Soil			Rock			AND MADE		
Landform	Plain		Rock type/s	Granite				all the card	2 Martin
Aspect	Negligible		Surface stone cover	75 - 100%					
Soil type	Sand	Sand		Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks		States 1			Barris Carlos and
Soil colour	Orange		present	(20 - 60 cm), Big Rocks (6 20 cm)	60 cm - 2 m), Boulders (>2 m), Small Rocks (6	111			
	Condition			Habitat Features			11/1 P		Come &
Quality	High quality		Water Source	Absent		级际/XY经验		S. Martine	
Fire History	Burnt (1-5 years)	Jurnt (1-5 years)		Exfoliating rock, Hummocks, Leaf litter, Rock crevices, Termite mounds, Woody debris					The way
Disturbance	None observed	ne observed							
Introduced fauna	None observed	None observed		26-50%		1 - 7			
	_	-	Vegetation	-			Start N 40	A Star	A Markey
Upper stratum	Absent								
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Acacia sp.					
Ground stratum	Low (>0.5 m) Closed hummock grassland (>80%)		1 (>80%)	Triodia epactia		Fulcrum photo ID	cc87c3e1-4dc6-48a7-af	f7f-47c76f0b4aa2	

				675.0721	89-CAM-20					
Project:	675.072189					SANAZAMAZK. AZDI				AT
Date 1-03-2024		Sample Type	Camera Trap		A DOWNER OF	N. W. C. B. C.	the state		MUX	
Zone 50	50 Easting 691054			Northing	7741368.9			-Jok .		SA
	Landform and Soil			Rock					A AND A	4.T
Landform	dform Outcrop/breakaway		Rock type/s	Quartz			STAR STAR	Ser Alter	NS AV	KIN
Aspect	Negligible		Surface stone cover	75 - 100%			A PARTY IN	Link Chi	1 - F - F - F - F - F - F - F - F - F -	
Soil type	Sand	Sand		rface stone size classes esent Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m), Boulders (>2 m)					A. AND	
Soil colour	Orange		present			A KAN A		the the		464
	Condition		Habitat Features							
Quality	High quality		Water Source	Absent					The lot	
Fire History	Burnt (1-5 years)		Microbabitats Exfoliating rock, Hummocks, Leaf litter, Peeling bark, Rock crevices,						No.	
Disturbance	None observed		IVIICI OHADITATS	Woody debris			Charles 1		1 March	AN AN
Introduced fauna	None observed Ground Cover		26-50%			Carlos and Carlos		A Star	200	
			Vegetation			ALA STATE	100 200	- North	1/2 m	The second
Upper stratum	Absent						and L	E AL	State	
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	eathland (20-50%)	Acacia orthocarpa						×1
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia epactia		Fulcrum photo ID	14c27e77-be77-4ef	4-8bc9-2727770ca	39b	

				675.07	72189-CAM-21		
Project:	675.072189						
Date	1-03-2024	03-2024		Camera Trap		T. Market Market	
Zone 50	Easting	690886		Northing	7740445	The state of the second	and the second s
•	Landform and Soil			Ro	ock	The second second	and the second
Landform	Outcrop/breakaway		Rock type/s	Quartz		And the sea	The second s
Aspect	East		Surface stone cover	75 - 100%		· 是子的名字。	
Soil type	Sand	Sand		Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small		- on	and the state of the second
Soil colour	Red		present	Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m), Boulders (>2 m)		alle the start	
	Condition			Habitat Features			
Quality	Very good	Very good		Absent			Acted II AAA
Fire History	Little or no fire evidenc	Little or no fire evidence (>5 years)		Extaliating rack Hummarks Rack crevices		and the second	
Disturbance	None observed		Wild Onabitats				
Introduced fauna	None observed	None observed		76-100%		2 CROCK	
		-	Vegetation			100 - 44	A PARTY AND A PARTY AND A PARTY AND A
Upper stratum	Absent						
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or heathland (0.25-20%)		Acacia orthocarpa			
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia epactia		Fulcrum photo ID	5094ed45-c28f-4cae-b618-0ad0a297cc6c

				675.072 [°]	189-CAM-22		
Project:	675.072189						
Date	1-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	Easting 701732		Northing 7741492.9		White show	
Landform and Soil				Rock		A BURNEY	A second a second s
Landform	Plain		Rock type/s	Granite		- NA	
Aspect	Negligible		Surface stone cover	75 - 100%		- CNAN	A State And A State And A State A Stat
Soil type	Rock		Surface stone size classes	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small		ALL STREET	
Soil colour	Orange		present	Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m), Boulders (>2 m)			
Condition Ha			Habitat Features				
Quality	High quality	High quality		Absent			
Fire History	Burnt (1-5 years)	Burnt (1-5 years)		Exfoliating rock, Hummocks, Leaf litter, Peeling bark, Rock crevices, Woody debris		and the second second	ALL CONTRACTOR
Disturbance	None observed	ne observed				Contraction of the	The second se
Introduced fauna	None observed	None observed		26-50%			
Vegetation							
Upper stratum	Absent						A CARA
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)		Acacia sp.			
Ground stratum	Low (>0.5 m)	5 m) Open hummock grassland (20-50%)		Triodia epactia		Fulcrum photo ID	914e5902-fb78-4ed0-81cc-ac92a6fa6136
				675.07218	39-CAM-23		
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Project:	675.072189						
Date	1-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	701282		Northing	7742299		
	Landform and Soil		Rock			THE REAL PROPERTY OF	R MO
Landform	Outcrop/breakaway		Rock type/s	Quartz			and the second sec
Aspect	North		Surface stone cover	75 - 100%		Sec.	a second and a second sec
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Small St	ones (0.6 - 2 cm), Stones (2 - 6 cm), Small		
Soil colour	Red present		present	Rocks (6 - 20 cm), Rocks (20 - 60 cm)		all the second	A REAL PROPERTY OF A REAL PROPER
Condition			Habitat Featur	es	1 - Frage		
Quality	High quality		Water Source	Absent		a min white	the second s
Fire History	Little or no fire evidence (>5	5 years)	Microhabitats Exfoliating rock, Hummocks, Rock crevices		1911	states of the second states of the	
Disturbance	None observed				S OF	By the second second and the second second	
Introduced fauna	None observed		Ground Cover	51-75%		2 Cart	
			Vegetation			Children of the second	
Upper stratum	Absent					1 Caller	
Mid stratum	Low (0.5-1 m)	Isolated shrubs and/or heat	th shrubs (<0.25%)	Acacia colei, and Acacia an	cistrocarpa		
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)	Triodia epactia		Fulcrum photo ID	ac269577-2f11-472c-9570-873aea8b91ea,986ce288-c86b-4447-a998-

				675.0721	89-CAM-24		
Project:	675.072189						
Date	1-03-2024 Sample Type			Camera Trap			
Zone 50	Easting	690962		Northing	7740912.2		
	Landform and Soil			Rock			
Landform	Outcrop/breakaway		Rock type/s	Quartz			
Aspect	Negligible		Surface stone cover	75 - 100%		1 Alexandre	
Soil type	Sand Surface stone size cla		Surface stone size classes	Pebbles (<0.6 cm), Small S Rocks (6 - 20 cm), Rocks (2	tones (0.6 - 2 cm), Stones (2 - 6 cm), Small 20 - 60 cm), Big Rocks (60 cm - 2 m),		a stand and a stand a st
Soil colour	Orange		present	Boulders (>2 m)		A AND AND A THE	and the second se
	Condition		Habitat Features				A REAL PROPERTY AND A REAL PROPERTY OF
Quality	High quality		Water Source	Absent		Contraction in the	and the structure of the second second
Fire History	Burnt (1-5 years)		Microhabitats	Exfoliating rock, Hummocks, Leaf litter, Peeling bark, Rock crevices,		Second second	
Disturbance	None observed			Woody debris			The Manual And
Introduced fauna	None observed		Ground Cover	26-50%		Sector Charles	and the second sec
			Vegetation				
Upper stratum	Absent					Stars R. S.	
Mid stratum	tratum Low (0.5-1 m) Open shrubland and/or heathland (20-50%)		Acacia orthocarpa	Acacia orthocarpa			
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	1 (0.25-20%)	Triodia epactia		Fulcrum photo ID	38f0ec07-46bc-44c3-8048-cfd5aaa24ef9

				675.072	189-CAM-25				
Project:	675.072189							and a stand	
Date	1-03-2024		Sample Type	Camera Trap			Start 1	TO THE	S 1593
Zone 50	Easting	690965		Northing	7741174	A SUBJECT OF			
	Landform and Soil	•		Rock				and the second	
Landform	Outcrop/breakaway		Rock type/s	Quartz				S SELS H	128
Aspect	Negligible		Surface stone cover	75 - 100%					
Soil type	type Sand		Surface stone size classes	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m),					
Soil colour	oil colour Orange		procent	Boulders (>2 m)		4. 4. 4.	· Alexandre	A A A	S. ASHE
	Condition			Habitat Feat	ures			my my	
Quality	High quality		Water Source	Absent		STATE OF THE			
Fire History	Burnt (1-5 years)		Microbabitats	Aicrohabitats Exfoliating rock, Hummocks, Leaf litter, Peeling bark, Rock crevices, Woody debris				A STATEM	
Disturbance	None observed		Iviici onabitat3						due la
Introduced fauna	None observed		Ground Cover	26-50%				The state	
		-	Vegetation	-			Alexand March		
Upper stratum	Absent								
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	athland (20-50%)	Acacia orthocarpa					
Ground stratum	Low (>0.5 m)	Sparse hummock grasslanc	I (0.25-20%)	Triodia epactia		Fulcrum photo ID	cc62e386-69ff-4ac8-bdcb	-d03ae4b940a7	

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				675.0	72189-CAM-26			
Project:	675.072189						a an office and the	
Date	1-03-2024		Sample Type	Camera Trap			The West	and the second sec
Zone 50) Ea	sting 690899	1 908069		Northing 7740597.4			the second second
	Landform ar	nd Soil			Rock			A PARTY
Landform	Outcrop/breakav	vay	Rock type/s	Quartz			Martin V	A CONTRACTOR OF CONTRACTOR
Aspect	West		Surface stone cover	75 - 100%				A PROPERTY AND
Soil type Sand		Surface stone size classes	Pebbles (<0.6 cm), Rocks (6 - 20 cm), F	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m),			ANNA STATE	
Soil colour	Red		present	Boulders (>2 m)				
	Conditio	on	Habitat Features	-			Section and	
Quality	Very good		Water Source	Absent			A Sector Contraction	
Fire History	Little or no fire e	vidence (>5 years)	Microhabitats	Exfoliating rock Hummocks Rock crevices			alterio	
Disturbance	None observed		Inici onabitat3	Extollating rock, ne			CAR BON	
Introduced faun	None observed		Ground Cover	76-100%			AND A COMP	
			Vegetation	_				
Upper stratum	Absent							ALL ALLAND
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or	r heathland (0.25-20%)	Acacia orthocarpa				
Ground stratum	Low (>0.5 m)	Sparse hummock grassla	and (0.25-20%)	Triodia epactia		F	Fulcrum photo ID	21c18e9a-8324-4f4f-b97f-febc0b456b88

Э	E	-	6	
envir	-01	111	e	nta
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				675.072	2189-CAM-27			
Project:	675.072189							
Date	1-03-2024		Sample Type	Camera Trap				
Zone 50	Easting	701393	-	Northing	7742438	A.S. 8374	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Landform and Soil			Rock	<	24		
Landform	Outcrop/breakaway		Rock type/s	Quartz		Sec. R		
Aspect	Negligible		Surface stone cover	75 - 100%				2
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Sma	Ill Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small	2000 - 2102	·	5
Soil colour	Red		present	Rocks (6 - 20 cm), Rock Boulders (>2 m)	s (20 - 60 cm), Big Rocks (60 cm - 2 m),	and the second	ull A	
	Condition			Habitat Fe	atures			2
Quality	High quality		Water Source	Absent			in the second	l
Fire History	Little or no fire evidence (>	>5 years)	Microbabitats	Exfoliating rock Humm	nocks. Rock crevices		100	2
Disturbance	None observed		Whet on abitats	Extollating rock, namin			The second	1
Introduced fauna	None observed		Ground Cover	51-75%		and the second second	1000	ŝ
			Vegetation	T		SIN S	17	
Upper stratum	Absent					1 1 -		
Mid stratum	Absent						101211000	
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	137a23d4-2c	2

				675.0 [°]	72189-CAM-28				
Project:	675.072189								
Date	1-03-2024		Sample Type	Camera Trap					
Zone 50	Easting	690	919	Northing	7740721.9				
	Landform and Soil			Rock					
Landform	Outcrop/breakaway		Rock type/s	Quartz					
Aspect East			Surface stone cover	75 - 100%					
Soil type Sand		Surface stone size classes	Pebbles (<0.6 cm), S Rocks (6 - 20 cm), R	Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small					
Soil colour Red		present	Boulders (>2 m)						
	Condition		Habitat Features	•					
Quality	Very good		Water Source	Absent					
Fire History	Little or no fire evidence	e (>5 years)	Microbabitate	Expliciting rock Hummocks Rock crovicos					
Disturbance	None observed		Wild Onabitats	Extollating rock, Hummocks, Rock crevices					
Introduced fauna	None observed		Ground Cover	76-100%					
			Vegetation						
Upper stratum	Absent								
Mid stratum	Low (0.5-1 m)	Sparse shrubland a	and/or heathland (0.25-20%)	Acacia orthocarpa					
Ground stratum	Low (>0.5 m)	Sparse hummock (rassland (0.25-20%)	Triodia enactia					



oround stratum	2010 (20.0 m)	sparse nammook grassiana (0.25 2070)	Fulcrum photo ID	68





675.072189-CAM-29

Project:	675.072189						
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	717460	-	Northing	7749535	Starte House	
	Landform and Soil		Rock				
Landform	Outcrop/breakaway		Rock type/s	Granite		100 C	
Aspect	North		Surface stone cover	75 - 100%		States -	
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm), S Rocks (20 - 60 cm), Big Roc	tones (2 - 6 cm), Small Rocks (6 - 20 cm), ks (60 cm - 2 m), Boulders (>2 m), Pebbles	ST SALA	States - States
Soil colour Orange		present (<0.6 cm)			Sec. 1	THE REAL PROPERTY OF	
Condition			Habitat Featur	es		ALL STREET, ST	
Quality	Very good		Water Source				
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Caves, Exfoliating rock, Hur	nmocks, Leaf litter, Rock crevices, Woody	San State State St.	
Disturbance	Vehicle tracks		inici ondortato	debris, Peeling bark		CONTRACTOR OF	
Introduced fauna	Cattle		Ground Cover	11-25%		the second second	
			Vegetation				the land the second
Upper stratum	Absent					South A.	
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or hea	th shrubs (<0.25%)	Atalaya hemiglauca and Fid	sus brachypoda		
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	(0.25-20%)	Triodia epactia		Fulcrum photo ID	fcd9014c-e753-4a9c-9f78-cc1eacee77a7



				675.0721	89-CAM-30			
Project:	675.072189						A.	
Date	2-03-2024		Sample Type Camera Trap			C. Parks		
Zone 50	50 Easting 717338 Nor				7749473.6		Parent Parent	
·	Landform and Soil			Rock				
Landform	Outcrop/breakaway		Rock type/s	Granite		AT LAND		
Aspect	North		Surface stone cover	ace stone cover 75 - 100%				
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm), Rocks (20 - 60 cm), Big Ro	Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m), Boulders (>2 m), Pebbles			
Soil colour	Orange		present	(<0.6 cm)		C. C. C.		
Condition			Habitat Features			- and	AL IN	
Quality	Very good		Water Source					
Fire History	Little or no fire evidence (>	5 years)	Microbabitate	Caves, Exfoliating rock, H				
Disturbance	Vehicle tracks		Which of abitats	debris, Peeling bark	Salar Car			
Introduced fauna	Cattle		Ground Cover	11-25%	the same	1 and		
			Vegetation					
Upper stratum	tum Absent							
Mid stratum	Mid (1-2 m)	d (1-2 m) Isolated shrubs and/or hea		Acacia sp.				
Ground stratum	Low (>0.5 m)	land (0.25-20%)	Triodia epactia	Fulcrum photo ID	d			



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				675.0	72189-CAM-31				
Project:	675.072189					CMPH 11 75		ST PROVIDE IN	1
Date	2-03-2024		Sample Type	Sample Type Camera Trap		NAX -			An Anna An
Zone 50	Eastin	g 6886	604	Northing 7740105			- And		N.R.V
	Landform and S	oil		F	Rock	and an all and		100	Allen at 1
Landform	Drainage line		Rock type/s	None				AND	Rich
Aspect	North		Surface stone cover			State Service State	a state of the	Contract Internet	N N
Soil type	Sand		Surface stone size classes				Line		The Sectory of
Soil colour	Orange		present			and the states	and a state of the second		C. A. S. S.
	Condition			Habita	t Features	+ + + + + + + + +			
Quality	Very good		Water Source	Absent		N. CALCON	- AND AND AN		
Fire History	Little or no fire evide	nce (>5 years)	Microbabitats	- Microhabitats Hollows - logs, Hollows - trees, Hummocks, Leaf litter, Peeling bark, Woody debris					
Disturbance	None observed		Will Onabitats			- de Ra			D.
Introduced fauna	Cattle		Ground Cover	51-75%		a fr		- Wither -	and the second
		-	Vegetation	-		and the second	and the second second	and the	TANK IN
Upper stratum	Low (<10 m)	Open woodland (0.	.25-20%)	Melaleuca argente	a			Parise :	
Mid stratum	Mid (1-2 m)	Open shrubland an	nd/or heathland (20-50%)	Acacia colei		-18 · 4		M In the	
Ground stratum	Low (>0.5 m)	Sparse hummock g	grassland (0.25-20%)	Triodia epactia		Fulcrum photo ID	2b6ed36d-8b93-49c0	-96a3-53c4a052bd72	

				675.0721	89-CAM-32		
Project:	675.072189					and the second	
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	717120		Northing	7749284.4		
	Landform and Soil			Rock			
Landform	Outcrop/breakaway		Rock type/s	Granite, Ironstone, Quartz	Z		and the second of the Party
Aspect	North		Surface stone cover	50 - 75%			and the second s
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm),	Stones (2 - 6 cm), Small Rocks (6 - 20 cm),		and the second second second second
Soil colour	Red		present	Rocks (20 - 60 cm), Big Ro	cks (60 cm - 2 m)		the second at the second second
	Condition		Habitat Features			- Andrewski and	South Street Stree
Quality	Good		Water Source	Absent		the states of	and the second second second second second
Fire History	Little or no fire evidence (>	5 years)	Microbabitats	Caves Exfoliating rock Hu	Immocks Rock crevices	and the second	The same and the second of
Disturbance	Overgrazing		inition on abitats	Caves, Extending rock, ric		A State State State	A ARE NOT A REAL OF
Introduced fauna	Cattle		Ground Cover			San Press of	
	-		Vegetation			1 4 Mar 1 -	
Upper stratum	Absent						Stan - Stan
Mid stratum	Absent						CARL CONTRACT
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	98f2686f-85ac-41de-b1d4-48f52118eeb6

				675.07	2189-CAM-33		
Project:	675.072189						
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	700279	*	Northing	7741209		
	Landform and Soil			Ro	ck	A STATISTICS	Design of the second second second second
Landform	Outcrop/breakaway		Rock type/s	Quartz		And a second second	
Aspect	South		Surface stone cover	75 - 100%		and the second second	and the second
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2	cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm),	President Provide	
Soil colour	Red		present	Rocks (20 - 60 cm), B	g Rocks (60 cm - 2 m)		
	Condition			Habitat I	eatures	y. 492. 5.	
Quality	Very good		Water Source	Absent			and the second second second in
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock Hum	mocks. Rock crevices		
Disturbance	None observed		inition of idditional	Extending rook, rian		Sector Sector	I A A A A A A A A A A A A A A A A A A A
Introduced fauna	None observed		Ground Cover	26-50%		and the second	
		1	Vegetation	1		the mar.	BAT ANT AND AND AND
Upper stratum	Absent					The second	1 Sup - la lin
Mid stratum	Absent						
Ground stratum		Sparse hummock grassland	1 (0.25-20%)	Triodia epactia		Fulcrum photo ID	035e4c7c-491f-40f4-8188-f9d8d8800288

				675.0	72189-CAM-34				
Project:	675.072189						F 265		
Date	2-03-2024		Sample Type	Camera Trap			And the second		
Zone 50	Easting	719953		Northing	7754955.9	100 100 100 100 100 100 100 100 100 100	and the	and the second s	
	Landform and Soil			F	lock	Sel ton		Contraction A	West
Landform	Outcrop/breakaway		Rock type/s	Granite		Cast Cast	Street.	A MEEN CON	A.
Aspect	West		Surface stone cover	75 - 100%		125 3 3 3 3 4	Contraction of the second		
Soil type	Rock		Surface stone size classes	Pebbles (<0.6 cm), 5 (20 - 60 cm), Big Ro	Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks cks (60 cm - 2 m), Boulders (>2 m), Small Rocks (6	-			4
Soil colour	Orange		present	20 cm)					1
	Condition		Habitat Features			TA TOTA			
Quality	High quality		Water Source	Absent			12 × 1		
Fire History	Burnt (1-5 years)		Microhabitats	Caves, Exfoliating ro	ock, Hummocks, Leaf litter, Peeling bark, Rock				
Disturbance	None observed		Wher of abitats	crevices, Woody de	bris				
Introduced fauna	None observed		Ground Cover	11-25%					1
			Vegetation					La sin was	
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Atalaya hemiglauca	a and Ficus brachypoda				
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	eathland (20-50%)	Atalaya hemiglauca	a and Ficus brachypoda				
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia sp.		Fulcrum photo ID	9e49a70e-39b9-465b-8b41-2	210a96dbe7b8,ff149b68-2dae	46d8-

				675.072 [°]	189-CAM-35			
Project:	675.072189					and the second s	CALL NO.	
Date	2-03-2024		Sample Type	Camera Trap				A CONTRACTOR OF A CONTRACT
Zone 50	Easting	717464		Northing	7749547			
	Landform and Soil			Rock				
Landform	Outcrop/breakaway		Rock type/s	Granite			100	RECTOR
Aspect	North		Surface stone cover	75 - 100%				
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm)	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm),	and the second second		
Soil colour	Orange		present	Rocks (20 - 60 cm), Big R (<0.6 cm)	ocks (60 cm - 2 m), Boulders (>2 m), Pebbles	and the second	Vet	
	Condition			Habitat Feat	tures	and the second		SARA LA SALESSA
Quality	Very good		Water Source				2 16.40	
Fire History	Little or no fire evidence (>	5 years)	Microbabitats	Caves, Exfoliating rock, H	lummocks, Leaf litter, Rock crevices, Woody		- Allentar	Service of the Party
Disturbance	Vehicle tracks		Inici onabitats	debris, Peeling bark		and the second		
Introduced fauna	Cattle		Ground Cover	11-25%		and the second second		
	_		Vegetation	-		Part a Manual	Alex Alex	
Upper stratum	Absent					1		Stree Var
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or hea	th shrubs (<0.25%)	Atalaya hemiglauca and	Ficus brachypoda	all a start of the second s		
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	1 (0.25-20%)	Triodia epactia		Fulcrum photo ID	733fb305-7279-411f-91a1-	1b42b3359bd6,e4896b6a-3a8b-4bac-b0b1

				675.0721	89-CAM-36		
Project:	675.072189					ARE ALL AREA	
Date	2-03-2024		Sample Type	Camera Trap		States States	
Zone 50	Easting	719462		Northing	7754811.4	AND ALL TO A	
	Landform and Soil			Rock			AND A DECK OF A DECK OF A DECK
Landform	Drainage line		Rock type/s	None		and a com	
Aspect	Negligible		Surface stone cover			A State - Same	
Soil type	Sand		Surface stone size classes			and the second second	
Soil colour	Red		present			Sector States	
	Condition		Habitat Features				
Quality	Disturbed		Water Source	Absent		and the second second	
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks, Leaf litter, Lo	as > 10 cm. Peeling bark	BALL COMPERATION	The second se
Disturbance	Overgrazing,Weeds				J		Chant officer and the second second
Introduced fauna	Cattle		Ground Cover	51-75%		KALL THE REAL	
			Vegetation				
Upper stratum	Low (<10 m)	Open woodland (0.25-20%))	Eucalyptus victrix			
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Acacia colei			
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia and Eulali	a aurea	Fulcrum photo ID	4e0eaea2-878e-4141-b397-3151d77f0f17



675.072189-CAM-37

Project: 675.072189							
Date	2-03-2024		Sample Type	Camera Trap		1.000	
Zone 50	Easting	719490		Northing	7755363	NA VARIAN	
	Landform and Soil			Rock			IN SOUTH AND
Landform	Drainage line		Rock type/s	None			Start King / King
Aspect	Negligible		Surface stone cover			No 10	St La week and a south
Soil type	Sand		Surface stone size classes			A A A	
Soil colour	Red		present				
	Condition			Habitat Featur	res	The state of the	
Quality	Disturbed		Water Source	Absent		A THE PARTY OF	
Fire History	Little or no fire evidence (>	5 years)	Microbabitate	Hummocks Leaflitter Dee	ling bark Woody debris		New Contraction
Disturbance	Overgrazing,Weeds		Which Orlabitats	Hummocks, Lear Inter, 1 ee	ang bark, woody debris		A REAL PROPERTY AND
Introduced fauna	Cattle		Ground Cover				
			Vegetation				A CARLES A CARLES SEA
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	Corymbia flavescens			
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Acacia colei		A Charles	
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	f177ae7e-15f1-4550-af34-ef6b7519d370

				675.072	189-CAM-38		
Project:	675.072189					A MAR	
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	717065		Northing	7749310.3	A STATE OF THE WAY	and the second s
	Landform and Soil			Rock		Sala Maria	
Landform	Outcrop/breakaway		Rock type/s	Granite, Ironstone, Qua	rtz		and the second s
Aspect	North		Surface stone cover	50 - 75%		10 10 Mar 100	
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm),		
Soil colour	Red		present	Rocks (20 - 60 cm), Big I	Rocks (60 cm - 2 m)	and the second s	
	Condition		Habitat Features	-		ALL STATES AND	man and a state of the second s
Quality	Good		Water Source	Absent			A STATES TO A FILM
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Caves Exfoliating rock	Hummocks Rock crevices	and and the Arts	The second second second second
Disturbance	Overgrazing			our cor Exionating Poort		Status and the Colorest	
Introduced fauna	Cattle		Ground Cover				
		T	Vegetation	T		and the second s	and the second second
Upper stratum	Absent						OB
Mid stratum	Absent					19 - S.F.	
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	88ac542d-9fc3-4340-9fb7-7e5f6f50eef1

			675.0721	89-CAM-39		
675.072189						
2-03-2024		Sample Type	Camera Trap		AL I	NAME LAND AVER
Easting	705838		Northing	7742778		
Landform and Soil			Rock		MV -	
Drainage line		Rock type/s	None		ARK	A A A A A A A A A A A A A A A A A A A
North		Surface stone cover				
Sand		Surface stone size classes			ALL A	AMAR PROPERTY
White, Yellow		present			NIX	
Condition			Habitat Featu	ıres	ALINA	
Disturbed		Water Source				C AL
Unknown		Microhabitats	Hollows - logs Hollows - t	rees Hummocks Leaflitter Woody debris		
Vehicle tracks		inition of habitatio	indiana logo, nonorro		Mark Barrow	
None observed		Ground Cover	26-50%		a str	
		Vegetation				
Low (<10 m)	Woodland (20-50%)		Acacia cyperophylla, Pape	er bark		
Mid (1-2 m)	Open shrubland and/or he	athland (20-50%)	Acacia sp.			
Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	2259cceb-db1c-4f76-869e-73319d6085c0

Project: Date

Zone

Landform Aspect Soil type Soil colour

Quality Fire History Disturbance Introduced fauna

Upper stratum

Mid stratum

Ground stratum

50

				675.072 [°]	189-CAM-40		
Project:	675.072189						
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	717385		Northing	7749526.3	A TONE AT SHE	
	Landform and Soil			Rock			
Landform	Outcrop/breakaway		Rock type/s	Granite			
Aspect	North		Surface stone cover	75 - 100%			
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm) Rocks (20 - 60 cm), Big R	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm), ocks (60 cm - 2 m), Boulders (>2 m), Pebbles	X Contractor	
Soil colour	Orange		present	(<0.6 cm)			
	Condition		Habitat Features				NOMES ALL AND A
Quality	Very good		Water Source				
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Caves, Exfoliating rock, H	lummocks, Leaf litter, Rock crevices, Woody		
Disturbance	Vehicle tracks			debris, Peeling bark			and the second
Introduced fauna	Cattle		Ground Cover	11-25%		CONTRACTOR INTERNAL	A CALL COMPANY AND AN
		T	Vegetation	1			
Upper stratum	Absent						
Mid stratum	Mid (1-2 m)	Isolated shrubs and/or hea	th shrubs (<0.25%)	Atalaya hemiglauca and	Ficus brachypoda		
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	(0.25-20%)	Triodia epactia		Fulcrum photo ID	e3ce36af-bbbc-48db-ae7a-c6ca62b1e724

				6/5.0/218	89-CAM-41				
Project:	675.072189							V Starting the	4 12
Date	2-03-2024		Sample Type	Camera Trap		SEAL AND		Sector Market	La Gr
one 50	Easting	719414		Northing	7755547		A ALL DE		
	Landform and Soil			Rock		Contract and			KAS
andform	Drainage line		Rock type/s	Granite			LE MARKE	a sent s	A VI
spect	East		Surface stone cover	0 - 5%		Action of the		IX WARAS	and the
oil type	Clay loam		Surface stone size classes	Pebbles (<0.6 cm) Small St	(0.6 - 2.cm) Stopes (2 - 6.cm)			1 MALPA	
oil colour	Orange		present		ones (0.0 - 2 cm), stones (2 - 0 cm)	这些小学生	NOT LET 1	n la la la	
	Condition			Habitat Featu	res	A STREET	ARE TO NOT	11447	
Duality	Good		Water Source	Absent			The All Parts	111/ ···	65 68
ire History	Burnt (1-5 years)		Microhabitats	Hummocks Leaflitter Lon	s > 10 cm. Peeling bark. Woody debris		N I AND	ASSI/ACTION OF	11 Ler
Disturbance	Vehicle tracks		initio on dontato	Hummooks, Eeur inter, Eog					
ntroduced fauna	Cattle		Ground Cover	26-50%					And the
			Vegetation						an in the second
Ipper stratum	Low (<10 m)	Woodland (20-50%)		Acacia sp.					
/lid stratum	Mid (1-2 m)	Open shrubland and/or hea	thland (20-50%)	Acacia sp.			and the		
Ground stratum	Low (>0.5 m)	Open hummock grassland (20-50%)	Triodia epactia		Eulcrum photo ID	8c6ce9d3-f756-46c1-a2t	fb-2ef3762f9c68 dbbb467d-	7fe1-466c-9112-
	1	l				r dioram prioto ib		2 20:07 021 7000,000040701	

				675.0721	189-CAM-42		
Project:	675.072189					Real Property and the second second	
Date	2-03-2024		Sample Type	Camera Trap			in the second second second second
Zone 50	Easting	717217		Northing	7749332.8	A - Adams	a second and the second states
	Landform and Soil			Rock		and the second s	
Landform	Outcrop/breakaway		Rock type/s	Granite, Ironstone, Quart	tz		and the second second second second
Aspect	North		Surface stone cover	50 - 75%			and the second states and the second
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm),	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm),	The state of the state of the	
Soil colour	Red		present	Rocks (20 - 60 cm), Big Ro	ocks (60 cm - 2 m)	The second second	
	Condition		Habitat Features	-		COMPANY S.	
Quality	Good		Water Source	Absent			
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Caves Exfoliating rock H	ummocks. Rock crevices		
Disturbance	Overgrazing			ouroof Enrollating Foot(F			
Introduced fauna	Cattle		Ground Cover				the state of the s
		1	Vegetation	1		A CARLON	The second
Upper stratum	Absent						
Mid stratum	Absent						A NAME AND AND
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	75932079-4849-4db7-8de1-078b9c1ba833

				675.072 ⁻	189-CAM-43		
Project:	675.072189						72
Date	2-03-2024		Sample Type	Camera Trap			St.
Zone 50	Easting	717016		Northing	7749322		ANK I
	Landform and Soil	•		Rock		and the states of the	El lose
Landform	Outcrop/breakaway		Rock type/s	Granite, Ironstone, Quar	tz		and the
Aspect	North		Surface stone cover	50 - 75%		A TANK	AL AND A AND
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm)	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm),		
Soil colour	Red		present	Rocks (20 - 60 cm), Big R	ocks (60 cm - 2 m)		
	Condition			Habitat Feat	ures	A Contraction	
Quality	Good		Water Source	Absent			
Fire History	Little or no fire evidence (:	>5 years)	Microhabitats	Caves, Exfoliating rock, H	lummocks, Rock crevices	AL PARK	A PARTY A STRATE PARTY
Disturbance	Overgrazing			· • •			And I wanted to be a state of the second
Introduced fauna	Cattle		Ground Cover				A HAT THE A CALL STORY
			Vegetation			A COMPANY	
Upper stratum	Absent					No and A	
Mid stratum	Absent					a Jas Am	A Start A Start
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Cenchrus ciliaris and Tric	dia sp.	Fulcrum photo ID	38ebb745-6181-4852-aaca-db0cd870262e

				675.072 ⁻	189-CAM-44		
Project:	675.072189					terral production of	
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	699355		Northing	7740673.2		
	Landform and Soil			Rock			
Landform	Outcrop/breakaway		Rock type/s	Unknown		and the second s	1/2
Aspect	West		Surface stone cover	25 - 50%		- The state of the second	in the second se
Soil type	Sand		Surface stone size classes	Boulders (>2 m) Small R	rocks (6 - 20 cm)		and the second se
Soil colour	Orange, Grey		present			A Transferration	and the second second
	Condition		Habitat Features	-		And States States	A REAL PROPERTY OF THE REAL PR
Quality	Good		Water Source	Absent		ALL DESCRIPTION OF ALL DESCRIPTI	and the second sec
Fire History	Recently burnt (<1 year)		Microhabitats	Exfoliating rock, Hummo	ocks, Leaf litter, Peeling bark, Woody debris,	A STREET	
Disturbance	None observed		inition of habitato	Rock crevices			Martin provide and the second
Introduced fauna	None observed		Ground Cover	51-75%			The second s
	1	-	Vegetation				A CARLEN AND A CARLEN AND A
Upper stratum	Low (<10 m)			Acacia Inaequilatera			
Mid stratum	Absent						
Ground stratum	Mid (0.5-1 m)	Hummock grassland (50-80	%)	Triodia epactia		Fulcrum photo ID	c33ec222-b009-4b8c-abcb-18e83bfb6c8d

G	36	=	50	
env	ino	rir	nei	nta
	٠	٠	٠	

				675.0721	89-CAM-45			
Project:	675.072189						and the second s	
Date	2-03-2024		Sample Type	Camera Trap			ALL DISCOUNTS	and the second
Zone 50	Easting	699811		Northing	7742455	123710	A CONTRACTOR	La participation
	Landform and Soil			Rock				
Landform	Outcrop/breakaway		Rock type/s	Laterite		State of the state	The and The	
Aspect	North		Surface stone cover	50 - 75%			and the second	The second s
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm),	Stones (2 - 6 cm), Small Rocks (6 - 20 cm),	The second second		Print and the second second
Soil colour	Red		present	Rocks (20 - 60 cm), Big Ro	ocks (60 cm - 2 m)		C	LEADER BARRIER A
	Condition			Habitat Feat	ures	1.5	and the second second	Law good and
Quality	Good		Water Source	Absent		STATES IN THE	The second	Contraction of the local sector
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock, Hummor	cks. Rock crevices	and the second		
Disturbance	None observed			g,		12000	State of the state	
Introduced fauna	a Cat		Ground Cover	11-25%		1050	Contraction.	the second s
		I	Vegetation	T		A Start	and the second	The second second
Upper stratum	Absent					Sole -	9-90K	Service and
Mid stratum	Absent					11-15		and the second
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	d (0.25-20%)	Triodia epactia		Fulcrum photo ID	59f639d9-84d6-4d1d-a4de-	-78789c5fa00d

				675.072 ²	189-CAM-46			
Project:	675.072189							
Date	2-03-2024		Sample Type	Camera Trap				A BARR
Zone 50	Easting	699950		Northing	7740952.4		A STATE AND A STATE	A Statistics
	Landform and Soil	<u>_</u>		Rock		and the second	A CALL AND A CALL	CF /2
Landform	Outcrop/breakaway		Rock type/s	Quartz				a Maria
Aspect	North		Surface stone cover	75 - 100%		the second second		A. Sec. F.
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm)	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm),	1 13 11		and states -
Soil colour	Red		present	Rocks (20 - 60 cm), Big R	ocks (60 cm - 2 m)	121 000	March Contraction	See Bar and
	Condition		Habitat Features			1 - 1 - H		A SHE A
Quality	Very good		Water Source	Absent			A BOARD	Stall Are
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock, Hummo	cks. Rock crevices	Property		S MI S
Disturbance	None observed		moronabitato	Externating rock, ridinine		Planter		
Introduced fauna	None observed		Ground Cover	26-50%				
	-		Vegetation			De suit	A State of the second	and the
Upper stratum	Absent							
Mid stratum	Absent					E MA	マビン 焼きまた	
Ground stratum		Sparse hummock grassland	l (0.25-20%)	Triodia epactia		Fulcrum photo ID	6e392ed3-6d9b-4f9b-b747-180ea692fc5b	



				675.072	2189-CAM-47					
Project:	675.072189						E SPOR NUMBER	The second second	A Sector Sector Sector	121
Date	2-03-2024		Sample Type	Camera Trap		1 Start	1.7 A. 102	is -	ALL ALL	
Zone 50	Easting	719897		Northing	7755038		NEET PE	3. Car	Contraction of the	
	Landform and Soil			Rock			A Pathan	and and the	11 F 20	
Landform	Outcrop/breakaway		Rock type/s	Granite		and the second		Street.	alle 1.1.1	
Aspect	West		Surface stone cover	75 - 100%		A STATE	ACHER S	Phile and		
Soil type	Rock		Surface stone size classes	Pebbles (<0.6 cm), Sma (20 - 60 cm), Big Rocks	II Stones (0.6 - 2 cm), Stones (2 - 6 cm), Rocks (60 cm - 2 m), Boulders (>2 m), Small Rocks (6		et al S	15	Con the	
Soil colour	Orange		present	20 cm)		The second in	and the second	A Treas	States Pr	R
	Condition			Habitat Fe	atures	Long to the	2-2-1	i in the second	Contraction of the	N.
Quality	High quality		Water Source	Absent		ALL STREET	STORE ST	10. SA	Contraction of the	$\boldsymbol{\mathcal{K}}$
Fire History	Burnt (1-5 years)		Microhabitats	Caves, Exfoliating rock,	Hummocks, Leaf litter, Peeling bark, Rock		Longia Maria		A Constants	
Disturbance	None observed		Wher of abitats	crevices, Woody debris		C. St. Carlos	ale all	1.1	The second	
Introduced fauna	None observed		Ground Cover	11-25%		1000	The state of the state		4	5
		-	Vegetation			States F	and the second second	Cart .	Straw 2	
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Atalaya hemiglauca an	Atalaya hemiglauca and Ficus brachypoda		T		A / A	2
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	athland (20-50%)	Atalaya hemiglauca an	d Ficus brachypoda		12 34			P.
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia sp.		Fulcrum photo ID	26a50f4a-3047-4a	139-a0b5-f88901e8a	c73	

				675.07	2189-CAM-48		
Project:	675.072189					SERVICE PRO	
Date	2-03-2024		Sample Type	Camera Trap			ASTA AND AND
Zone 50	Easting	719924		Northing	7754981.1	Ren All	
	Landform and Soil			Ro	SK .		
Landform	Outcrop/breakaway		Rock type/s	Granite			
Aspect	West		Surface stone cover	75 - 100%			
Soil type	Rock		Surface stone size classes	Pebbles (<0.6 cm), Sn	all Stones (U.6 - 2 cm), Stones (2 - 6 cm), Rocks s (60 cm - 2 m), Rouldors (> 2 m), Small Pocks (6		A CARE .
Soil colour	Orange		present	(20 - 00 cm), Big KOCK 20 cm)			
	Condition		Habitat Features				
Quality	High quality		Water Source	Absent			
Fire History	Burnt (1-5 years)		Microbabitats	Caves, Exfoliating roc	k, Hummocks, Leaf litter, Peeling bark, Rock	Partes	
Disturbance	None observed		Wild Ond Ditats	crevices, Woody debr	is	STELLE THE R	
Introduced fauna	None observed		Ground Cover	11-25%			
			Vegetation				
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Atalaya hemiglauca a	nd Ficus brachypoda	Store Mark	
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	athland (20-50%)	Atalaya hemiglauca a	nd Ficus brachypoda		
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	1 (0.25-20%)	Triodia sp.		Fulcrum photo ID	7bb66d9b-c078-45f3-b984-0a4d11

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				675.072	189-CAM-49		
Project:	675.072189						
Date	2-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	705911		Northing	7742520		
	Landform and Soil			Rock			ANNAL AND
Landform	Drainage line		Rock type/s	None			
Aspect	Negligible		Surface stone cover			Core The series	
Soil type	Sand		Surface stone size classes				
Soil colour	Red		present				Carlos and the state of the
	Condition			Habitat Fea	atures		
Quality	Good		Water Source	Absent			
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter			
Disturbance	None observed		inici ondortato				
Introduced fauna	None observed		Ground Cover				
		1	Vegetation	T			
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)		Eucalyptus Melaleuca			
Mid stratum	Mid (1-2 m)	Open shrubland and/or hea	athland (20-50%)	Acacia sp.			
Ground stratum	Low (>0.5 m)	Open hummock grassland ((20-50%)	Triodia epactia		Fulcrum photo ID	d5f208b1-8392-402d-99db-2c93a19190b1

				675.072	189-CAM-50			
Project:	675.072189							
Date	2-03-2024		Sample Type	Camera Trap				
Zone 50	Easting	700083		Northing	7740603.2			
	Landform and Soil			Rock				
Landform	Outcrop/breakaway		Rock type/s	Granite, Quartz		and the second second	and the lot of the lot of the	and the second states of the
Aspect	South		Surface stone cover	75 - 100%			and another	and the second
Soil type	Sand		Surface stone size classes	Small Stones (0.6 - 2 cm), Rocks (20 - 60 cm), Big R	, Stones (2 - 6 cm), Small Rocks (6 - 20 cm), ocks (60 cm - 2 m), Boulders (>2 m)	1200		Sales Contant
Soil colour	Red		present					the second second
Condition Habitat Features					States in the	Contraction of the local division of the loc		
Quality	Very good		Water Source	Absent			Carl Contractor	A DESCRIPTION OF THE OWNER OF
Fire History	Little or no fire evidence (>	∘5 years)	Microbabitats	Exfoliating rock, Hummo	cks Rock crevices	15 1 C C C C C C C C C C C C C C C C C C		
Disturbance	None observed		inici onabitato	Externating rock, ridmino		A MARCH	State State	and the first the loss
Introduced fauna	None observed		Ground Cover			Laura	CHARLES MI	State States
			Vegetation			and share and		Carrier Contraction
Upper stratum	Absent					and the second second	Real Contraction	4.1
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Acacia colei			-Yes	Carl Market State
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	c37f032a-62d5-4ba2-be2	7-fcaeed61eeb5,491b6f84-f553-459e-b48c

				675.072	189-CAM-51		
Project:	675.072189						
Date	2-03-2024		Sample Type	Camera Trap			and the second second second second
Zone 50	Easting	688646		Northing	7740917		and the second sec
	Landform and Soil			Rock			42
Landform	Drainage line		Rock type/s	Granite, Quartz		inter all the second	and an all a man
Aspect	Negligible		Surface stone cover	5 - 25%		and the same of the	The second s
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Smal	I Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small	The second start	
Soil colour	Red		present	Rocks (6 - 20 cm), Rocks	s (20 - 60 cm)	State of the second	
	Condition			Habitat Fea	tures	States and a state of the	and the second se
Quality	Very good		Water Source	Absent		A CONTRACTOR OF THE OWNER	and the second
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock Humme	ocks Leaf litter Logs > 10 cm. Rock crevices	State Weth	Carl and the second sec
Disturbance	None observed		inici onabitato	Extending rook, namine		Taken are	
Introduced fauna	None observed		Ground Cover				PLACE OF ASSAULT OF A DECISION
	-		Vegetation	-		Martin Parts - Parts	CONTRACTOR OF THE OWNER OF THE OWNER
Upper stratum	Absent					1 Sta	
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Eucalyptus camaldulens	is, Melaleuca argentea		and the second second
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	0eec3229-f671-4024-bd6a-abca79c89446

				675.0721	89-CAM-52		
Project:	675.072189					the second se	
Date	3-03-2024		Sample Type	Camera Trap			A Walter
Zone 50	Easting	660811		Northing	7739282.7	and shift in	N VENS
	Landform and Soil			Rock			
Landform	Plain		Rock type/s	None			and the second second second second second second
Aspect	Negligible		Surface stone cover			THE COMPANY OF	
Soil type	Sand		Surface stone size classes			Carlo Carlos	A CARDON CONTRACTOR OF A CARDON CONTRACTOR OF A CARDON CONTRACTOR OF A CARDON CONTRACTOR OF A CARDON CONTRACTOR
Soil colour	Orange		present			A CONTRACTOR	
	Condition		Habitat Features			Bank Rest Control	
Quality	Good		Water Source	Absent			The state of the state states
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter W	oody.debris. Logs > 10 cm		
Disturbance	Litter, Vehicle tracks						
Introduced fauna	None observed		Ground Cover	51-75%			
		-	Vegetation			1 24	
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	Eucalyptus sp.		20	And a start of the
Mid stratum	Low (0.5-1 m)	Open shrubland and/or he	athland (20-50%)	Acacia stellaticeps			
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	bff234e9-d528-446b-bca8-7a22918c02e3



				675.07	72189-CAM-53			
Project:	675.072189					STATISTICS IN ST		
Date	3-03-2024		Sample Type	Camera Trap			Caller Ac	
Zone 50	Easting	660281		Northing	7741179	and a start		1 Marshall
	Landform and Soi	I		R	ock	And An	A A A	
Landform	Plain		Rock type/s	None		ALL AND THE	and the second s	Real Providence
Aspect	Negligible		Surface stone cover					10 - 20 A
Soil type	Sand		Surface stone size classes			All standing	A series and the	a should be the
Soil colour	Red		present					
	Condition			Habitat	Features		A REAL PROPERTY AND A	
Quality	Good		Water Source	Absent				
Fire History	Little or no fire evidence	ce (>5 years)	Microhabitats	Hummocks Leaf litte	er Peeling bark Woody debris		Mr. John Martin	计传 起入 现下的
Disturbance	Vehicle tracks,Weeds		Wher of abitats	Hummooks, Edu inte		Service Provention	and the second second	
Introduced fauna	None observed		Ground Cover	51-75%		AREA AND AREA	a second land	
			Vegetation				L BALLA	CALL STORE OF STORE
Upper stratum	Low (<10 m)	Open woodland (0.25-20	%)	Eucalyptus sp.			S AND PAR	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or	heathland (0.25-20%)	Acacia stellaticeps				
Ground stratum	Low (>0.5 m)	Open hummock grasslan	d (20-50%)	Triodia epactia and	Acacia stellaticeps	Fulcrum photo ID	2aee6c94-03d3-45cd-9f0b-887bd	5cb9ba6

					675.0	72189-CAM-54	
Project:	675.072189						and the second
Date	5-03-2024			Sample Type	Camera Trap		and the second se
Zone 50	Easti	ng	676125		Northing	7738409.0	-
	Landform and S	Soil			R	ock	- 353
Landform	Drainage line			Rock type/s	None		
Aspect	North			Surface stone cover			Marsh Ster
Soil type	Sand			Surface stone size classes			A A A A A A A A A A A A A A A A A A A
Soil colour	Orange, Grey			present			
	Condition			Habitat Features			
Quality				Water Source	Absent		Wester -
Fire History	Little or no fire evide	ence (>5 years)		Microhabitats	Burrows Peeling ba	rk Leaflitter Hummocks Woody debris	the Hart
Disturbance	None observed				burrows, recently bu	in, Lear inter, Hammooks, Woody debris	The State Strength
Introduced fauna	Cattle			Ground Cover	26-50%		and the second
				Vegetation	1		
Upper stratum	Low (<10 m)	Open woodl	and (0.25-20%))	Eucalyptus camaldu	ılensis	12.10
Mid stratum	Mid (1-2 m)	Open shrubl	and and/or hea	athland (20-50%)	Acacia trachycarpa		
Ground stratum	Low (>0.5 m)	Hummock g	assland (50-80)%)	Triodia epactia		Fulcrum photo ID



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				675.0	72189-CAM-55			
Project:	675.072189						The second s	
Date	5-03-2024		Sample Type	Camera Trap			THE STORE STORE	
Zone 50	Easting	659959		Northing	7741619			
	Landform and So	il		R	ock			100
Landform	Plain		Rock type/s	None		and the second		The second se
Aspect	Negligible		Surface stone cover					AND ST.
Soil type	Sandy loam		Surface stone size classes			and the second	The second second second	C. Harrison
Soil colour	Orange		present			" Selling the selling		And and and the second second second
	Condition			Habitat	Features	The second second second	Mar and a second	
Quality	Very good		Water Source	Absent		Constant of the local division of the local	all line and	and the second se
Fire History	Little or no fire eviden	ce (>5 years)	Microhabitats	Microhabitats Burrows Hummocks Leaf litter Peeling bark Woody debris		Million - States	A Street of the August of the	
Disturbance	None observed				-, , <u>-</u>			and the second of
Introduced fauna	None observed		Ground Cover	51-75%		and the second second		ameles and a set of the set
			Vegetation	1				
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Eucalyptus camaldu	ılensis			
Mid stratum	Low (0.5-1 m)	Isolated shrubs and/or he	eath shrubs (<0.25%)	Eucalyptus camaldu	llensis	Strail &		
Ground stratum	Low (>0.5 m) Hummock grassland (50-80%)		Triodia epactia and Acacia stellaticeps Fulcrum photo ID 1bcb9feb-46a2-4c8c-90af-55a5800				80050845	

				675.07218	89-CAM-56				
Project:	675.072189					* 136	and the second	Martin VI	
Date	5-03-2024		Sample Type	Camera Trap			hines: 19	Star S	A Cart
Zone 50	Easting	669924		Northing	7737566.3		A MARINA	Star WEC?	
	Landform and Soil			Rock				The Alter	Chief of
Landform	Plain		Rock type/s	None					
Aspect	Negligible		Surface stone cover			And the second sec	Martin Martin	1	former of the
Soil type	Sandy loam		Surface stone size classes				and And Stranger and		
Soil colour	Orange		present				les and an and the second	Market and	ALCONTRACTOR OF
	Condition		Habitat Features					Alan and	A AN
Quality	Good		Water Source				Sale States	and the sould	Ating and
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Microhabitats			-	and the second	
Disturbance	Vehicle tracks,Clearing,Inf	rastructure				S. Caller	No.	the ship and	SHEER REAL
ntroduced fauna	None observed		Ground Cover	26-50%		The second second	Terres Martin *		
	_		Vegetation				Maria	State of the	The second
Upper stratum	Low (<10 m)	Open woodland (0.25-2	0%)	Eucalyptus victrix		S. C. L. L.			1
Mid stratum	Absent						- B. M. Standard		
Ground stratum	Low (>0.5 m)	Open hummock grassla	nd (20-50%)	Triodia epactia and Acacia	stellaticeps	Fulcrum photo ID	bb2a0241-da1c-46c4-b2	f4-1c8a572272f8	

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				675.072	2189-CAM-57		
Project:	675.072189						
Date	5-03-2024		Sample Type	Camera Trap			
Zone 50	Easting	674434		Northing	7738387	TA MARTINE AND	and the second second
	Landform and Sc	il		Rocl	K	Martine with the	and the second se
Landform	Drainage line		Rock type/s				WWWWWWWWWWWWWWWWWWWWWWWWWWW
Aspect	West		Surface stone cover	25 - 50%			MANUAL THE LEADER AND
Soil type	Sand		Surface stone size classes	Pehbles (<0.6 cm) Sm	all Stones $(0.6 - 2 \text{ cm})$ Stones $(2 - 6 \text{ cm})$		
Soil colour	Red		present				
	Condition			Habitat Fe	eatures		
Quality	Very good		Water Source	Absent			CONTRACTOR OF A MAN
Fire History	Little or no fire evider	nce (>5 years)	Microhabitats	Hummocks, Leaf litter, Logs > 10 cm			CALLER THE PROPERTY AND AND A
Disturbance	None observed		iviici onabitats				
Introduced fauna	None observed		Ground Cover				
			Vegetation	1			
Upper stratum	Low (<10 m)	ow (<10 m) Open woodland (0.25-20%)		Eucalyptus victrix			
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	neathland (0.25-20%)	Eucalyptus victrix and	Eucalyptus victrix and Acacia colei		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	571cfc56-b200-4dab-a59d-b9ab5757ad46

				675.072	2189-CAM-58		
Project:	675.072189					214.000	and the second se
Date	5-03-2024		Sample Type	Camera Trap		and the second	20
Zone 50	Easting	674610		Northing	7738626.1	Contraction of the	10000
	Landform and Soi	il		Rock	:		
Landform	Drainage line		Rock type/s	Other			A de
Aspect	West		Surface stone cover	25 - 50%		and the second second	ALL
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm) Sma	Il Stones (0.6 - 2 cm) Stones (2 - 6 cm)	The second second	The state of the state of the state
Soil colour	Red		present		in Stones (0.0 - 2 cm), Stones (2 - 0 cm)	THE PART OF THE	the state of the Party of the State of the State of the
	Condition		Habitat Features			March Street Street Street	
Quality	Very good		Water Source	Absent		SALARY MERINA	
Fire History	Little or no fire eviden	ce (>5 years)	Microhabitats	habitats Hummocks, Leaf litter, Logs > 10 cm			
Disturbance	None observed					Carl Street Bar Del	
Introduced fauna	None observed		Ground Cover				
			Vegetation				
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)	Eucalyptus victrix		An and a second s	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or heathland (0.25-20%)		Eucalyptus victrix, Acad	Eucalyptus victrix, Acacia colei		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	1949a106-8148-4f67-ad36-413a6f6230cd,e04c6456-a64c-4c94-9ba



				675.0	72189-CAM-59		
Project:	675.072189						
Date	5-03-2024		Sample Type	Camera Trap			1
Zone 50	Eastin	ig 661215		Northing	7739665	A A A A A A A A A A A A A A A A A A A	
	Landform and S	oil		R	łock		
Landform	Plain		Rock type/s	None			
Aspect	Negligible		Surface stone cover				at at V
Soil type	Sand		Surface stone size classes			ht ht he	Call 1
Soil colour	Orange		present				
	Condition			Habitat	t Features		1 20 100
Quality	Good		Water Source	Absent			1 John
Fire History	Little or no fire evide	nce (>5 years)	Microhabitats	Hummocks Leaf litt	ter Woody debris Logs > 10 cm		A CONTRACTOR
Disturbance	Litter, Vehicle tracks		initia on de la casa de			A DECEMBER OF	
Introduced fauna	None observed		Ground Cover	51-75%			
			Vegetation				Contraction of the
Upper stratum	Low (<10 m)	Open woodland (0.25-20	%)	Eucalyptus sp.			
Mid stratum	Low (0.5-1 m)	Open shrubland and/or h	eathland (20-50%)	Acacia stellaticeps			
Ground stratum	Low (>0.5 m)	Open hummock grasslan	d (20-50%)	Triodia epactia		Fulcrum photo ID e7e80357-8660-41be-b5bd-a825c9839883	

				675.0721	89-CAM-60		
Project:	675.072189						
Date	6-03-2024		Sample Type	Camera Trap			75 - 78 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -
Zone 50	Easting	704681		Northing	7741098.3		
	Landform and Soil	*		Rock			
Landform	Outcrop/breakaway		Rock type/s	Granite			
Aspect	East		Surface stone cover	75 - 100%			
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Small	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small		
Soil colour	Red		present	Rocks (6 - 20 cm), Boulde	rs (>2 m)	the same	
	Condition		Habitat Features	-			
Quality	Good		Water Source	Absent			
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock, Hummocks, Rock crevices		1 march	
Disturbance	Infrastructure, Vehicle track	S					
Introduced fauna	None observed		Ground Cover				
	-		Vegetation				Carlo An Charles
Upper stratum	Absent						
Mid stratum	Absent						
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	(0.25-20%)	Triodia epactia		Fulcrum photo ID	82216676-483d-41d4-9a66-14081df56566

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				675.072	2189-CAM-61			
Project:	675.072189							
Date	6-03-2024		Sample Type	Camera Trap		100		
Zone 50	Easting	704756	•	Northing	7741958		Sam do -	
-	Landform and Soil			Rock	<	- an	A Start	
Landform	Outcrop/breakaway		Rock type/s	Granite		and an and a second sec		
Aspect	Negligible		Surface stone cover	75 - 100%				
Soil type	Peat		Surface stone size classes	Boulders (>2 m), Big Ro	ocks (60 cm - 2 m), Rocks (20 - 60 cm), Pebbles		CANNER AND	AN PART
Soil colour	Orange		present	(<0.6 cm), Small Stone: (2 - 6 cm)	s (0.6 - 2 cm), Small Rocks (6 - 20 cm), Stones			A
	Condition			Habitat Fe	atures	STREET C	and the	
Quality	Good		Water Source	Absent				- Charles
Fire History	Burnt (1-5 years)		Microbabitats	Cavos Exfoliating rock	Hummacks Loaf littar Back crovicas			and share the second
Disturbance	Vehicle tracks		Wild Onabitats	Caves, Extollating rock,	, Hummocks, Lear Itter, Nock Crevices			Production of the second
Introduced fauna	None observed		Ground Cover	11-25%			and a set	
			Vegetation	-		En anna Se		Rev Da
Upper stratum	Absent							100/00
Mid stratum	Absent							
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia epactia		Fulcrum photo ID	a7158cd1-c512-4eef	-8979-1a6a2a060a49

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Project:		675.072189						
Date	ect: 675.072189 e 6-03-2024 e 50 Easting Landform and Soil form Outcrop/breakaway ct East ype Sand colour Red Condition ity Good History Little or no fire evidence Infrastructure, Vehicle to dured fauna			Sample Type	Camera Trap			
Zone	50	Easting	704668		Northing 7741169.1			
		Landform and Soil			Rock			
Landform		Outcrop/breakaway		Rock type/s	Granite			
Aspect	East		Surface stone cover	75 - 100%				
Soil type	soil type Sand		Surface stone size classes	Pebbles (<0.6 cm), S	mall Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small			
Soil colour	oil colour Red			present	Rocks (6 - 20 cm), Bo	oulders (>2 m)		
	Condition			Habitat Features				
Quality		Good		Water Source	Absent			
Fire History	/	Little or no fire evidence (>	5 years)	Microbabitats	Exfoliating rock Hun	nmocks. Pock cravices		
Disturbance	e	Infrastructure, Vehicle track	S	Wild Onabitats	LATOHALING FOCK, HUTHHOUKS, KOCK CLEVICES			
Introduced	fauna	None observed		Ground Cover				
				Vegetation				
Upper strat	tum	Absent						
Mid stratur	n	Absent						
Ground stra	atum	Low (>0.5 m)	Sparse hummock grassla	nd (0.25-20%)	Triodia epactia			



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				6/5.0	/2189-CAIVI-63				
Project:	675.072189								
Date	6-03-2024	Sample Type		Camera Trap		and the second			
Zone 50	Easting	704720		Northing	7741989	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 mile all	Stat Date 1	R.C. Store
	Landform and Soil			R	ock	R. m			
Landform	Outcrop/breakaway		Rock type/s	Granite			and the second s	THE REPORT OF THE PARTY OF THE	AN PLACE
Aspect	Negligible		Surface stone cover	75 - 100%		and the second	The state of the	There is a	
Soil type	Peat		Surface stone size classes	Bouiders (>2 m), Big	J ROCKS (60 cm - 2 m), ROCKS (20 - 60 cm), Pebbles	and Kall	A Castron	Contraction of the	in Kall Strate
Soil colour	Orange		present	(<0.6 cm), smail sto	Ties (0.0 - 2 cm), small Rocks (0 - 20 cm), stones		Caller in	and a star when	
	Condition			Habitat	Features		1 - 14	and the second s	150
Quality	Good		Water Source	Absent			Cor the		and when
Fire History	Burnt (1-5 years)		Microbabitats	Caves Exfoliating ro	ock Hummocks Leaflitter Rock crevices		K 2	AND AND AND	
Disturbance	Vehicle tracks		WICI ON ADITATS	caves, Extollating re	ck, Hummocks, Lear Inter, Nock Crevices	A States		The states	STATE -
Introduced fauna	None observed		Ground Cover	11-25%		这个人都停 下。	No. Margar		the second
			Vegetation			and the second	NUL -	Just part	and the second second
Upper stratum	Absent					Carlos	ANI	the find	
Mid stratum	Absent							モンマレス	in the sta
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia epactia				-8222-fc06022a9b57	

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						675.0)72189-CAM-64	
Project:		675.072189						
Date		6-03-2024			Sample Type	Camera Trap		
Zone	50	Easting 679471			Northing	7739344.0		
		Landforr	n and Soil			Í	Rock	
Landform		Drainage line			Rock type/s	Granite, Quartz		
Aspect		North			Surface stone cover	5 - 25%		
Soil type		Sand			Surface stone size classes	Small Stopes (0.6.	2 cm) Stones (2 - 6 cm) Pehbles (<0.6 cm)	
Soil colour Orange			present	Sinali Stones (0.0 -	2 cm), stones (2 - 0 cm), rebbies (<0.0 cm)			
Condition					Habitat Features			
Quality		Good		Water Source	Absent			
Fire History		Unknown			Microhabitats			
Disturbance		Vehicle track	S		Wher of abitats			
Introduced fa	auna	Cattle			Ground Cover	26-50%		
					Vegetation	-		
Upper stratur	m	Low (<10 m)		Open woodland (0.25-20%))	Eucalyptus victrix		
Mid stratum		Mid (1-2 m)		Open shrubland and/or hea	athland (20-50%)	Acacia trachycarpa	3	
Ground stratum Low (>0.5 m) Sparse hummock grassland		I (0.25-20%)	Triodia epactia and	d Eulalia aurea				

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				675.072189-CAM-65	
Project:	675.072189				
Date	6-03-2024		Sample Type	Camera Trap	
Zone 50	Easting	685627		Northing 7740314	
	Landform and Soil			Rock	
Landform	Drainage line		Rock type/s	None	
Aspect	Negligible		Surface stone cover		
Soil type	Sand		Surface stone size classes		
Soil colour	Red		present		
	Condition			Habitat Features	
Quality	Very good		Water Source	Absent	
Fire History	Little or no fire evidence	ce (>5 years)	Microhabitats	Hummocks Leaf litter Peeling bark Woody debris	
Disturbance	Vehicle tracks		inition of habitato		
Introduced fauna	None observed		Ground Cover	76-100%	
		1	Vegetation		
Upper stratum	Low (<10 m)	Open woodland (0.25-20%)		Eucalyptus victrix	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	neathland (0.25-20%)	Acacia colei	
Ground stratum	Low (>0.5 m)	Hummock grassland (50-8	0%)	Triodia epactia	Fulcrum photo ID 85812315-bd62-428d-871f-6697e215792a

				675.0721	89-CAM-66			
Project:	675.072189							
Date	6-03-2024		Sample Type	Camera Trap				A CONTRACT OF A CONTRACT OF
Zone 50	Easting	704820		Northing	7741885.2			
	Landform and Soil			Rock		Cardina 21		
Landform	Outcrop/breakaway		Rock type/s	Granite				AL AL
Aspect	Negligible		Surface stone cover	75 - 100%		and the second second		A second s
Soil type	Peat Orange		Surface stone size classes	Boulders (>2 m), Big Rock	s (60 cm - 2 m), Rocks (20 - 60 cm), Pebbles	11 al and the second	The Provide	W
Soil colour			(<0.6 cm), Small Stones (0.6 - 2 cm), Small Rocks (6 - 20 cm), Stones (2 - 6 cm)			402	10/16	A case
	Condition		Habitat Features			6 61	1 Lenix	Alloy Ling Semigroup
Quality	Good		Water Source	Absent		CALL AND		
Fire History	Burnt (1-5 years)		Microbabitats	Vicrohabitats Caves, Exfoliating rock, Hummocks, Leaf litter, Rock crevices				
Disturbance	Vehicle tracks		Inici onabitats			A Contraction	H. There .	And a start of the start of the
Introduced fauna	None observed		Ground Cover	11-25%		the set	the Aller	
			Vegetation				C - Contraction	And the second s
Upper stratum	Absent						Part me-	
Mid stratum	Absent							
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	I (0.25-20%)	Triodia epactia		Fulcrum photo ID	2f8b118d-628f-427b-a65c-6	bef497c98c7

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				675.072 [°]	189-CAM-67		
Project:	675.072189						
Date	6-03-2024		Sample Type	Camera Trap		- and the second se	alter the second second
Zone 50	Easting	704691		Northing	7741038		
	Landform and Soil			Rock			
Landform	Outcrop/breakaway		Rock type/s	Granite			and a start of the
Aspect	East		Surface stone cover	75 - 100%		ST. ST. ST. ST. ST. ST.	and a section
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Small	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small	feet the state	
Soil colour	Red		present	Rocks (6 - 20 cm), Bould	ers (>2 m)	Harton	1 All and Contained
	Condition			Habitat Fea	tures	N SAL	1 Martin Constant
Quality	Good		Water Source	Absent		1 2 P 2 P 2	
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Microbabitate Exfoliating rock Hummocks Pock crevices		Som the State	
Disturbance	Infrastructure, Vehicle trac	ks	Wild Onabitats	Extending rock, namine		a state	The seal of the the
Introduced fauna	None observed		Ground Cover			and the second	1 A
			Vegetation			al and	a state of the
Upper stratum	Absent						A SHALL
Mid stratum	Absent						the production of
Ground stratum	Low (>0.5 m) Sparse hummock grassland (0.25-20%)		Triodia epactia		Fulcrum photo ID	34fa4921-e688-4e88-bdea-9e4f6569a9d6	

					675.072	189-HAB-68		
Project:		675.072189						
Date		1-03-2024		Sample Type	Habitat Assessment			
Zone	50	Easting	701356		Northing 7742084.8			a la companya de la c
		Landform and Soil			Rock	Rock		the system is the second second second
Landform		Plain		Rock type/s	Quartz			The state of the second second
Aspect		Negligible		Surface stone cover	5 - 25%		. · · · · · · · · · · · · · · · · · · ·	Car and a second and a second
Soil type		Sand		Surface stone size classes	urface stone size classes Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Sm		and the second	Water and and a second
Soil colour		Red		present	Rocks (6 - 20 cm), Rocks (20 - 60 cm)		and the second second	
	Condition Habitat Features		-					
Quality		Very good		Water Source	Absent			and the second
Fire History		Little or no fire evidence (>	∍5 years)	Microhabitats	Exfoliating rock		and the second	
Disturbance		None observed						LINE STATE OF COMPANY
Introduced fa	auna	None observed		Ground Cover			2.0	A CONTRACT OF A CONTRACT.
				Vegetation			and the second	
Upper stratu	IM	Absent					State In . A	Contraction of the second
Mid stratum		Low (0.5-1 m) Sparse shrubland and/or heathland (0.25-20%)		Acacia colei, and Acacia	Acacia colei, and Acacia ancistrocarpa			
Ground strat	tum	Low (>0.5 m)	Open hummock grassl	nd (20-50%)	Triodia epactia		Fulcrum photo ID	c50509c0-8cd5-4de2-af2e-6da2faa7e947

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				675.0721	89-HAB-69			
Project:	675.072189							
Date	1-03-2024		Sample Type	Habitat Assessment				
Zone 50	Easting	690832		Northing	7740789			
	Landform and Soil			Rock				17
Landform	Plain		Rock type/s	None		and some the second		1 - The said the said
Aspect	Negligible		Surface stone cover			California Stand	the second second	Star Frank
Soil type	Sand		Surface stone size classes			CTC In	and the same and the	
Soil colour	Red		present			TER AND	Carletter and a start of the	The fire way to be
	Condition			Habitat Featu	ures	Lotter to M. Carlo	and the second second	and the state of the state of the
Quality	Good		Water Source	Absent			a planta renar the	and have be with
Fire History	Unknown		Microhabitats	Hummocks Leaf litter		and a set of the	AL TON AND AND AND AND AND AND AND AND AND AN	A AND A AND A
Disturbance	Vehicle tracks		initio on abitats			Weller Miller	State of the	A CANADA -
Introduced fauna			Ground Cover				Allington Make A	
	1		Vegetation					机合成器 法监督社
Upper stratum	Absent					Constant Sta		
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or he	eathland (0.25-20%)	Acacia orthocarpa		- And	and the second	A PARTY A
Ground stratum	Low (>0.5 m)	Hummock grassland (50-80	%)	Triodia epactia		Fulcrum photo ID	ef75bb0c-759a-4764-95c7-25ccffca6	ofa7

				675.072	2189-HAB-70		
Project:	675.072189						
Date	3-03-2024		Sample Type	Habitat Assessment			
Zone 50	Easting	665218		Northing	7736221.6		
	Landform and Soil	•		Rock			
Landform	Plain		Rock type/s	None			Construction of the local division of the lo
Aspect	Negligible		Surface stone cover				the second second second second
Soil type	Sandy clay		Surface stone size classes				
Soil colour	Red		present			100 - 0	And an annual second
	Condition		Habitat Features				
Quality	Good		Water Source	Absent		Carles and the state of the	A CONTRACTOR OF THE OWNER OWNER OWNER OF THE OWNER OWNE
Fire History	Little or no fire evidence	(>5 years)	Microhabitats	Hummocks			An and a second s
Disturbance	Vehicle tracks					a star of the star has been	
Introduced fauna	None observed		Ground Cover	51-75%		100 CAS . 100 AV	the second se
			Vegetation			ARC ALLANCE STOLL	A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PRO
Upper stratum	Absent						
Mid stratum	Low (0.5-1 m)	Open shrubland and/or h	eathland (20-50%)	Acacia stellaticeps			
Ground stratum	Low (>0.5 m)	Open hummock grassland	1 (20-50%)	Triodia epactia		Fulcrum photo ID	07de4620-1d52-4e86-98b7-2accbf3dacd3



				675.07	2189-HAB-71			
Project:	675.072189							
Date	3-03-2024 Sample Type		Sample Type	Habitat Assessment	t			
Zone 50	Easting	661616	*	Northing	7736868			
	Landform and Soil			Roc	ck			
Landform	Plain		Rock type/s	None				
Aspect	Negligible		Surface stone cover					
Soil type	Sand		Surface stone size classes			And the other Designation of the other	the second s	de la
Soil colour	Red		present			San Asses		
	Condition			Habitat F	eatures			
Quality	Disturbed		Water Source	Absent	Absent			and a starting
Fire History	Burnt (1-5 years)		Microbabitats	/icrobabitate				
Disturbance	Vehicle tracks		Wild Ondortats					1000
Introduced fauna	None observed		Ground Cover			and the second second	and the second second second second	
			Vegetation			Strategies.		
Upper stratum	Absent							
Mid stratum	Absent							
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Acacia stellaticeps		Fulcrum photo ID	3f48a051-89d5-48e0-b71e-33b4c2afcb69.cecfda48-79b0-4	be5-a6c0-

				675.0	72189-HAB-72		
Project:	675.072189						
Date	3-03-2024		Sample Type	Habitat Assessme	nt		
Zone 50	Easting	667071		Northing 7736372.8			
	Landform and Soil			R	ock		
Landform	Plain		Rock type/s	None			71
Aspect	North		Surface stone cover	e cover			a ser a series and a series
Soil type	Sandy clay		Surface stone size classes	rface stone size classes			and the second
Soil colour	Red		present			the formation of the	
	Condition		Habitat Features	-			
Quality	Good		Water Source	Absent	Absent		
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litt	Hummacks Leaflitter Woody debris		and the state of the second
Disturbance	Vehicle tracks		inition of habitatio	Hummooks, Eeur itt		and the second second	
Introduced fauna	None observed		Ground Cover	51-75%		Contraction of the second	
	1	1	Vegetation	1			
Upper stratum	Absent					C. Lange M	
Mid stratum	Tall (>2 m)	Shrubland and/or heathlar	nd (50-80%)	Eucalyptus victrix ar	Eucalyptus victrix and Acacia colei		
Ground stratum	Mid (0.5-1 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	a247a3af-beb6-4d0c-99b1-8a09dce8cadb,89dab242-cff0-4f60-86eb

				675.072 [°]	189-HAB-73		
Project:	675.072189						
Date	3-03-2024		Sample Type	Habitat Assessment			
Zone 50	Easting	668481		Northing	7736896		
	Landform and Soil			Rock			and the second se
Landform	Plain		Rock type/s	None			
Aspect	Negligible		Surface stone cover				
Soil type	Sand		Surface stone size classes			10 mm - 100	and the state the termine
Soil colour	Red		present				
	Condition			Habitat Feat	ures		A REAL PROPERTY AND A REAL
Quality	Disturbed		Water Source	Absent		Sec. 1	
Fire History	Little or no fire evidence (>5	5 years)	Microhabitats	Hummocks Leaflitter W	loody debris		
Disturbance	Overgrazing, Vehicle tracks						
Introduced fauna	Cattle		Ground Cover	51-75%			
	1	r	Vegetation				
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Eucalyptus victrix			
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or he	eathland (0.25-20%)	Acacia stellaticeps			
Ground stratum	Low (>0.5 m)	Open hummock grassland ((20-50%)	Triodia epactia		Fulcrum photo ID	b6d8fe73-2ebd-46f2-8e68-3e9c88129d1a,f76312d8-eee6-4f22-8c06-

				675.072 [°]	189-HAB-74		
Project:	675.072189						
Date	3-03-2024		Sample Type	Habitat Assessment			
Zone 50	Easting	669140		Northing	7737612.4		
	Landform and Soil	•		Rock			
Landform	Plain		Rock type/s	None		anih a	
Aspect	Negligible		Surface stone cover			A ROAD	- Anna - the could all a
Soil type	Sand		Surface stone size classes			Eller a charter	ALCONTRACTOR OF THE STREET
Soil colour	Red, White		present				T I LI TIL B L
	Condition		Habitat Features			the state and the state	
Quality	Disturbed		Water Source	Absent			
Fire History	Burnt (1-5 years)		Microhabitats	Hummocks Woody debr	is	and the second second of	A DECEMBER OF THE REAL PROPERTY OF
Disturbance	Litter, Overgrazing, Vehicle	tracks			19	a all a sea of the	the state of the s
Introduced fauna	None observed		Ground Cover			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	the set when a set in the set
		1	Vegetation	1		e a Classon	at a state a state the base while and
Upper stratum	Mid (10-30 m)	Open woodland (0.25-20%)	Eucalyptus victrix		A Sea S	space of the state of the state
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or h	eathland (0.25-20%)	Eucalyptus sp.			
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	d0e91653-48e9-48dd-9fdc-336960fb95f8

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				675.07	2189-HAB-75	
Project:	675.072189					
Date	3-03-2024		Sample Type	Habitat Assessment	t	
Zone 50	Easting	666659		Northing	7735372	
	Landform and Soil			Roc	ck	W. I
Landform	Plain		Rock type/s	None		1 h
Aspect	Negligible		Surface stone cover			
Soil type	Sandy clay		Surface stone size classes			TAN MARKEN
Soil colour	Red		present			La ANY
	Condition			Habitat F	eatures	
Quality	Disturbed		Water Source	Absent		
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter	r Woody debris	a setting a set of the set of the set
Disturbance	Litter, Vehicle tracks		Wild Onabitats	Hummooks, Edu inter		A A A A A A A A A A A A A A A A A A A
Introduced fauna	None observed		Ground Cover	51-75%		
		-	Vegetation			1 million - the state of the
Upper stratum	Absent					
Mid stratum	Tall (>2 m)	Open shrubland and/or he	eathland (20-50%)	Acacia colei		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID e7b3cc6d-2a22-4db7-8442-7e977a24141e,fe44216f-a511-43a7-91b9

				675.07	2189-HAB-76	
Project:	675.072189					
Date	3-03-2024		Sample Type	Habitat Assessment		
Zone 50	Easting	666199		Northing	7735818.3	
	Landform and Soil			Roc	k	
Landform	Plain		Rock type/s	None		
Aspect	Negligible		Surface stone cover			
Soil type	Sand		Surface stone size classes			
Soil colour	Red		present			
	Condition		Habitat Features			
Quality	Very good		Water Source	Absent		
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Hummocks		
Disturbance	Vehicle tracks		0			
Introduced fauna	None observed		Ground Cover			
		1	vegetation			
Upper stratum	Absent					
Mid stratum	Mid (1-2 m)	Sparse shrubland and/c	r heathland (0.25-20%)	Acacia inaequilatera		
Ground stratum	Low (>0.5 m)	Open hummock grassla	nd (20-50%)	Triodia epactia		

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				675.0721	189-HAB-77		
Project:	675.072189						
Date	3-03-2024		Sample Type	Habitat Assessment			
Zone 50	Easting	665425	*	Northing	7736606		
	Landform and Soil			Rock			
Landform	Plain		Rock type/s	None		the support	A second and the second
Aspect	Negligible		Surface stone cover			Renter and the second	
Soil type	Sand		Surface stone size classes			and the second	the second water the second the second
Soil colour	Red		present			State of the	and the second second second second
	Condition			Habitat Feat	ures	HALF MONTON	and the second s
Quality	Very good		Water Source	Absent			A CONTRACTOR OF THE OWNER WAS A CONTRACTOR
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter		The second range of the	
Disturbance	Vehicle tracks		Which of labitatio	Hummooks, Edu inter		and the second s	
Introduced fauna	None observed		Ground Cover	76-100%			
	_		Vegetation	-		ALL ALL ALL	
Upper stratum	Absent						
Mid stratum	Mid (1-2 m)	Open shrubland and/or he	athland (20-50%)	Acacia Inaequilatera			
Ground stratum	Low (>0.5 m)	Hummock grassland (50-8	0%)	Triodia sp. and Acacia ste	ellaticeps	Fulcrum photo ID	99f98150-3f3a-4280-84c1-945d78d4c716,204ca89d-09a2-4423-be6

				675.072189-HAB-78	
Project:	675.072189				
Date	4-03-2024		Sample Type	Habitat Assessment	
Zone 50	Easting	718275		Northing 7752198.4	
	Landform and Soil			Rock	
Landform	Plain		Rock type/s	None	the section of the se
Aspect	Negligible		Surface stone cover		and the second sec
Soil type	Sandy loam		Surface stone size classes		
Soil colour	Orange		present		
	Condition		Habitat Features		
Quality	Disturbed		Water Source	Absent	
Fire History	Burnt (1-5 years)		Microhabitats	Hummocks Woody debris Leaf litter	
Disturbance	Overgrazing, Vehicle tracks, In	nfrastructure	Initial of a bit at 5	nummocks, woody debris, tear inter	
Introduced fauna	Cattle		Ground Cover	51-75%	
			Vegetation		
Upper stratum	Absent				
Mid stratum	Absent				
Ground stratum	Low (>0.5 m)	Hummock grassland (50-8	0%)	Triodia epactia and Acacia stellaticeps	Fulcrum photo ID 195f0c46-5f59-4828-b746-1620954b17e8

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				675.072	2189-HAB-79	
Project:	675.072189					
Date	4-03-2024		Sample Type	Habitat Assessment		
Zone 50	Easting	718832		Northing	7752593	
	Landform and Soil			Rock	<	
Landform	Plain		Rock type/s	None		
Aspect	Negligible		Surface stone cover			
Soil type	Sand		Surface stone size classes			
Soil colour	Red		present			A REAL PROPERTY OF THE OWNER AND A REAL PROPERTY OWNER AND A
	Condition			Habitat Fe	atures	THE PARTY OF THE P
Quality	Very good		Water Source	Absent		And a second
Fire History	Little or no fire evidence (>	⊳5 years)	Microhabitats	Hummocks Leaf litter		AND THE REAL PROPERTY AND A DESCRIPTION OF THE PARTY OF T
Disturbance	None observed		IVIICI ON abitats			The second statement of the second statement of the second statement of the
Introduced fauna	None observed		Ground Cover	76-100%		
			Vegetation	_		
Upper stratum	Absent					Real States and a second states of the
Mid stratum	Absent					
Ground stratum	Low (>0.5 m)	Hummock grassland (50-8	0%)	Triodia epactia and Aca	acia stellaticeps	Fulcrum photo ID ef609770-6009-4211-a976-92a3de6f130f,234034f5-7be2-43e4-9a

				675.072189-H	AB-80		
Project:	675.072189						
Date	4-03-2024		Sample Type	Habitat Assessment			AN AUNT I
Zone 50	Easting	710356		Northing 774603	38.1	X	
	Landform and Soil			Rock		an Rossian I	AND IN Y
Landform	Plain		Rock type/s	None		ALC ON	
Aspect	Negligible		Surface stone cover				
Soil type	Sand		Surface stone size classes				
Soil colour	Red		present			and the second second	Tall I have been set
	Condition		Habitat Features			Sec Stiff	
Quality	Disturbed		Water Source	Present			
Fire History	Recently burnt (<1 year)		Microhabitats	Hummocks			
Disturbance	None observed						
Introduced fauna	None observed		Ground Cover	11-25%			
			Vegetation			A state of the state of	
Upper stratum	Absent					r de pr	
Mid stratum	Mid (1-2 m)	Open shrubland and/or he	athland (20-50%)	Acacia colei			
Ground stratum	Low (>0.5 m)	Sparse hummock grasslan	d (0.25-20%)	Triodia epactia and Acacia stellatice	eps	Fulcrum photo ID	611ef857-d727-424d-a700-26128af248d3,79a8c89e-68ba-40d3-adcc-

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				675.07	2189-HAB-81				
Project:	675.072189								
Date	4-03-2024		Sample Type	Habitat Assessment					1 to the Mine
Zone 50	Easting	705537		Northing	7742821	Ser.			
	Landform and Soil			Roc	k		Balance Walnut	all the defend	
Landform	Drainage line		Rock type/s			NU - UN	K Man Wind	and the second	
Aspect	Negligible		Surface stone cover	0 - 5%		A CAR	E Part All	2 Contraction	1
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm)			AT ANY AN	1 The second	AN A M
Soil colour	Red		present				V. Lev		
	Condition			Habitat Fe	eatures	1 - Pare	P P P P		Start Start
Quality	Disturbed	Disturbed Water Source		Absent				L'entre	
Fire History	Little or no fire evidence	e (>5 years)	Microhabitats	Hollows - logs Hollow	Hollows - Jons Hollows - trees Leaf litter Woody debris				
Disturbance	Vehicle tracks		initio on abitato			- Bar			
Introduced fauna	Cattle		Ground Cover	26-50%		The the	the state		- 2 B.
			Vegetation	1		and the second	Real The	THE	
Upper stratum	Mid (10-30 m)	Woodland (20-50%)		Eucalyprtus camaldule	ensis or Eucalyptus victrix			- 1010	14
Mid stratum	Tall (>2 m)	Open shrubland and/or he	athland (20-50%)	Acacia sp.					
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	d (0.25-20%)	Triodia epactia		Fulcrum photo ID	1b92d4e6-66cd-409f-8c	lec-f08a1eab90f3,0(d1ed0b0-d8f7-4830-bac0

				675.072189-HAB-82					
Project:	675.072189					A second s			
Date	4-03-2024		Sample Type	Habitat Assessment					
Zone 50	Easting	705422		Northing 7742554.8	A CONTRACTOR OF				
	Landform and Soil			Rock					
Landform	Plain	Rock type/s		Granite		and the second			
Aspect	Negligible		Surface stone cover	75 - 100%	With State States	The state of the s			
Soil type	Rock		Surface stone size classes	Peoples (<0.6 cm) Small Stones (0.6 - 2 cm) Stones (2 - 6 cm)	and the second second second	and the second state of th			
Soil colour	Red		present		The second second	and the second			
	Condition Habitat Features					and the second s			
Quality	Disturbed		Water Source	Absent	and the second				
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaflitter	and the second	and after the species of the state of the state			
Disturbance	Overgrazing, Vehicle tracks		Wild Onabitats		set - The to	AS IN MARKED THE REAL PROPERTY OF			
Introduced fauna	Cattle		Ground Cover		and the second				
	-	-	Vegetation		and the second				
Upper stratum	Absent				1 the	A CARLES AND A CARLES			
Mid stratum	Absent								
Ground stratum	Low (>0.5 m)	Sparse hummock grassland	I (0.25-20%)	Triodia sp.	Fulcrum photo ID	b7032231-71ca-4a0e-865f-9a336edd1e68			



				675.07	2189-HAB-83			
Project:	675.072189							
Date	5-03-2024		Sample Type	Habitat Assessment			and the second second	
Zone 50	Easting	691697		Northing	7741118			
	Landform and Sc	il		Roc	:k			
Landform	Plain		Rock type/s	None		A STATE OF THE OWNER	and the second s	
Aspect	Negligible		Surface stone cover					
Soil type	Clay loam		Surface stone size classes				and the second sec	
Soil colour	Orange		present			A Providence of the set	the state of the s	
	Condition			Habitat F	eatures	the Contraction	and the second sec	
Quality	Very good		Water Source	Absent			The second s	
Fire History	Little or no fire evider	nce (>5 years)	Microhabitats	Termite mounds, Woody debris, Peeling bark, Logs > 10 cm,				
Disturbance	Vehicle tracks			Hummocks, Burrows				
Introduced fauna	None observed		Ground Cover	26-50%				
		I	Vegetation	1				
Upper stratum	Low (<10 m)	Isolated trees (<0.25%)		Eucalyptus sp.			Providence Contraction	
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or I	neathland (0.25-20%)	Acacia sp.				
Ground stratum	Absent	Open hummock grassland	(20-50%)	Triodia epactia and A	cacia stellaticeps	Fulcrum photo ID	4134a2fe-344e-4d09-808c-aac01b61eb87	

				675.072 ⁻	189-HAB-84				
Project:	675.072189								
Date	5-03-2024		Sample Type	Habitat Assessment					
Zone 50	Easting	691642		Northing	7741041.5				
	Landform and Soil			Rock			and the second second		
Landform	Plain		Rock type/s	None		and the second sectors in	ALC: NO		
Aspect	Negligible		Surface stone cover			Will Taken U.			
Soil type	Sand		Surface stone size classes			A Alexandra da			
Soil colour	Red		present				The air a man in the second second second		
	Condition		Habitat Features			and the second s	the second se		
Quality	Good		Water Source	Absent					
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter					
Disturbance	Vehicle tracks								
Introduced fauna	None observed		Ground Cover	26-50%		Contraction of the			
			Vegetation						
Upper stratum	Absent						A CARLENDER AND A CARLENDER		
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or he	eathland (0.25-20%)	Acacia sp.					
Ground stratum	Mid (0.5-1 m)	Open hummock grassland ((20-50%)	Triodia epactia and Acac	ia stellaticeps	Fulcrum photo ID	37c81848-687d-4378-94be-50fd47d021bb		

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				675.072	2189-HAB-85			
Project:	675.072189							
Date	5-03-2024		Sample Type	Habitat Assessment			100	and the second second
Zone 50	Easting	705117		Northing	7742798			
	Landform and Soil			Rock	< Comparison of the second sec		and the second second	
Landform	Plain		Rock type/s	Granite				the state of the state of the
Aspect	Negligible		Surface stone cover	0 - 5%			and the second s	and the second sec
Soil type	Sand		Surface stone size classes	Stopes (2 - 6 cm) Smal	Stance (2, (am) Small Deales ((, 20 am)		North Contraction	and the second s
Soil colour	Red		present	Stories (2 - 0 cm), smar			STREET, STREET	and the second se
	Condition			Habitat Fe	atures		Contraction of the second	and the second s
Quality	Very good		Water Source	rce Present			No YOS MAN	A PART OF THE PART
Fire History	Little or no fire evidence ((>5 years)	Microhabitats	Hummocks Rock crevi	res		Same Planty	the same of the second s
Disturbance	None observed		Which of labitats					Canada and a state of the second state of the
Introduced fauna	None observed		Ground Cover	26-50%				
		<u>.</u>	Vegetation				a state	AND REAL PROPERTY AND
Upper stratum	Absent						and the second	Part of the second
Mid stratum	Mid (1-2 m)	Sparse shrubland and/or	heathland (0.25-20%)	Acacia Inaequilatera			1 and the second	
Ground stratum	Low (>0.5 m)	Open hummock grassland	1 (20-50%)	Triodia secunda			Fulcrum photo ID	0a608e4d-4291-4c1f-9b20-83715219d02b,ff897837-e14a-4972-902a

				675.072189-HAB-86	
Project:	675.072189				
Date	5-03-2024		Sample Type	Habitat Assessment	
Zone 50	Easting	705211		Northing 7742135.1	
	Landform and Soil			Rock	
Landform	Outcrop/breakaway		Rock type/s	Granite	
Aspect	Negligible		Surface stone cover	75 - 100%	
Soil type	Sandy clay Surface store		Surface stone size classes	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small Rocks (6 - 20 cm), Rocks (20 - 60 cm), Big Rocks (60 cm - 2 m),	and the second second
Soil colour	Red	present		Boulders (>2 m)	and the second s
Condition Habitat Features			Habitat Features		and the state of the state of the state of the state
Quality	Very good		Water Source	Absent	
Fire History	Little or no fire evidence (>	5 years)	Microhabitats	Exfoliating rock Hummocks Rock crevices	
Disturbance	None observed		Wher of abitats		
Introduced fauna	None observed		Ground Cover	11-25%	
			Vegetation		
Upper stratum	Absent				
Mid stratum	Mid (1-2 m)	/id (1-2 m) Sparse shrubland and/or heathland (0.25-20%)		Acacia Inaequilatera	
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia	Fulcrum photo ID cac9779f-3811-4ec8-af64-3172769c40bb,7fbb166e-dd1e-4bdf-8e0

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				675.07	72189-HAB-87	
Project:	675.072189					
Date	5-03-2024		Sample Type	Habitat Assessmen	ıt	
Zone 50	Easting	704953	*	Northing	7740478	
	Landform and Soil			Ro	ock	
Landform	Plain		Rock type/s	None		
Aspect	Negligible		Surface stone cover			
Soil type	Sand		Surface stone size classes			
Soil colour	Red		present			the first a set of the
	Condition			Habitat I	Features	
Quality	Good		Water Source	Present		
Fire History	Unknown		Microhabitats	Hummocks		
Disturbance	Vehicle tracks					
Introduced fauna	None observed		Ground Cover	51-75%		
			Vegetation			
Upper stratum	Absent					
Mid stratum	Mid (1-2 m)	Open shrubland and/or he	athland (20-50%)	Acacia Inaequilatera		
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID 34cd996e-aee1-4dde-841e-f06e1997b8e0,2a0032c7-b59d-471e-b5

				675.072 ⁻	189-HAB-88		
Project:	675.072189					100 C	
Date	5-03-2024		Sample Type	Habitat Assessment		and the second se	And a second
Zone 50	Easting	675117		Northing	7738072.3	- the state of	and the second second
	Landform and Soil	·		Rock			and the second se
Landform	Plain		Rock type/s	None			
Aspect	Negligible		Surface stone cover				
Soil type	Sand		Surface stone size classes			THE REAL OF	
Soil colour	Red		present				The second states and the
	Condition		Habitat Features	-		Rent II Land	the second second second
Quality	Very good		Water Source	Present		and the second	
Fire History	Unknown		Microhabitats	Hummocks Leaf litter		and the second second second	A SAMA STRAIGHT DU AND
Disturbance	None observed						
Introduced fauna	None observed		Ground Cover	51-75%	AND A REPORT OF THE PROPERTY OF THE PROPERTY OF		
		-	Vegetation				
Upper stratum	Absent					NOR -	
Mid stratum	Tall (>2 m)	Open shrubland and/or he	athland (20-50%)	Eucalyptus sp.			
Ground stratum	Low (>0.5 m)	Hummock grassland (50-8	0%)	Triodia epactia and Acac	sia stellaticeps	Fulcrum photo ID	7060878e-b139-4f8b-a60a-bc28c44f1e23,4c7dd966-0377-4479-a76

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				675.072 [°]	189-HAB-89				
Project:	675.072189							and the second second	
Date	6-03-2024 Sample Type		Habitat Assessment		and the second				
Zone 50	Easting	704362		Northing	7742751	and the second sec	12 - A		
	Landform and Soil			Rock		A COMPANY			
Landform	Undulating plain		Rock type/s	Granite, Quartz		100			
Aspect	Negligible		Surface stone cover	75 - 100%			and the second second		
Soil type	Sand		Surface stone size classes	Pebbles (<0.6 cm), Small	Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small				3
Soil colour	Red		present	Rocks (6 - 20 cm)		Martine	and a start of the second	a colonge	any in the bar
	Condition			Habitat Feat	ures	AND SHOULD REPORT	All The second second	ALCONTRACTOR	The states
Quality	Good		Water Source	Present		「高端」を、「高	Near States In	State State and	Starp St. Heller
Fire History	Burnt (1-5 years)		Microhabitats	Hummocks. Termite mounds					and the second
Disturbance	Vehicle tracks					1211日本 1240	and the second	Present The	
Introduced fauna	None observed		Ground Cover	11-25%				and the state	CONTRACT STATE
		1	Vegetation	1					The Salar
Upper stratum	Absent					and the		A Land	
Mid stratum	Low (0.5-1 m)	Sparse shrubland and/or	neathland (0.25-20%)	Acacia Inaequilatera			17 L. 18		
Ground stratum	Low (>0.5 m)	Sparse hummock grasslar	nd (0.25-20%)	Triodia epactia		Fulcrum photo ID	834a9930-49b9-499c-aaf	1-bb053e9db2d9,a4c	77984-9b15-4a74-a41

					675.072	189-HAB-90		
Project: 675.072189								
Date		6-03-2024		Sample Type	Habitat Assessment		1000 C	
Zone 5	50	Easting	679404		Northing	7739440.1	the second	
Landform and Soil				Rock			a series in theme in the	
Landform		Plain		Rock type/s	Limestone, Quartz		South A Carl	
Aspect Negligible		Surface stone cover	75 - 100%					
Soil type	Soil type Sand		Surface stone size classes	Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm), Small			A LARD AND A MARKEN AND AREA IN	
Soil colour Red		Red		present		Rocks (6 - 20 cm)		and the second s
		Condition		Habitat Features	Habitat Features			A DESCRIPTION OF THE OWNER OF THE OWNER OF THE
Quality		Good		Water Source	Absent			
Fire History	e History Little or no fire evidence (>5 years)		Microhabitats	Microhabitats Hummocks		A State of the second		
Disturbance	Vehicle tracks					AS BEAR AS CAUSE		
Introduced fau	Introduced fauna None observed		Ground Cover	51-75%		Care and the second	PROVIDE AN	
				Vegetation			State State	
Upper stratum	I	Absent						
Mid stratum		Mid (1-2 m) Sparse shrubland and/or heathland (0.25-20%)		Acacia Inaequilatera				
Ground stratun	m	Low (>0.5 m) Open hummock grassland (20-50%)		Triodia epactia		Fulcrum photo ID	5b7b119e-1d32-4d8a-91db-bad4e76792b3,3ba5136a-8e32-4406-	

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				675.07	2189-HAB-91		
Project:	675.072189			- fair			
Date	6-03-2024		Sample Type	Habitat Assessment			
Zone 50	Easting	677145		Northing	7738837		
	Landform and Soil	•		Roc	k	10 A	and the second se
Landform	Drainage line	ainage line					
Aspect	Aspect Negligible		Surface stone cover	0 - 5%			A.
Soil type	Sand		Surface stone size classes				A Bardel
Soil colour	Soil colour Red		present	nt Pebbles (<0.6 cm), Small Stones (0.6 - 2 cm), Stones (2 - 6 cm)		the second	A AND A AND A
	Condition		Habitat Features			A TA	A ST A STATE OF A STATE OF A
Quality	Very good		Water Source	Absent		And the second	AND THE AND THE AND
Fire History	ry Little or no fire evidence (>5 years)		Microbabitats	Hummocks, Leaf litter			La fair and the state of the state
Disturbance	ice None observed		Wild Ondonatio			the state of the s	and the second se
Introduced fauna	Introduced fauna None observed		Ground Cover	51-75%		- A Development of the	
	1	1	Vegetation	1		A STATE OF THE STATE OF	and the state of the second second second
Upper stratum	Low (<10 m) Open woodland (0.25-20%)		6)	Eucalyptus victrix		Set .	
Mid stratum	Mid (1-2 m) Sparse shrubland and/or heathland (0.25-20%)		Eucalyptus sp.		The fit is		
Ground stratum	m Mid (0.5-1 m) Hummock grassland (50-80%)		Triodia epactia		Fulcrum photo ID	c3a16e9e-7c1b-4dbf-bc6b-de14f56f4f25,ced3c877-84ea-45e7-9429-	

				675.072	189-HAB-92		
Project:	675.072189			and the second			
Date 8-03-2024		Sample Type	e Habitat Assessment		and the second second	and the second second	
Zone 50	Easting	685527		Northing	7740034.9		and the second se
	Landform and Soil			Rock		the second	and the second
Landform Plain		Rock type/s	None				
Aspect	Negligible		Surface stone cover				
Soil type	Sand		Surface stone size classes		- All de	and the second	
Soil colour	Red		present			Prove States	and the second se
Condition			Habitat Features			a state	
Quality	Very good		Water Source	Absent		A MARCEL	A DATE OF A
Fire History	Little or no fire evidence (>5 years)		Microbabitats	Hummocks Leaf litter	ummocks Loof littor		A DESCRIPTION OF TAXABLE AND DESCRIPANTE AND DESCRIPTION OF TAXABLE AND DES
Disturbance	None observed		numinous, Lear Itter			as for the second	
Introduced fauna	a None observed		Ground Cover	26-50%			
		-	Vegetation	-		B. Call	
Upper stratum	Jpper stratum Absent					and the second the second	
Mid stratum	Mid (1-2 m)	Open shrubland and/or heathland (20-50%)		Acacia inaequilatera, and Acacia colei			
Ground stratum	Low (>0.5 m) Open hummock grassland (20-50%)		Triodia epactia and Acac	cia stellaticeps	Fulcrum photo ID	0b422a7b-016e-4cd4-a1ff-bb7d066ae838,2ab5d530-c840-4c56-8ec2	
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					675.072	189-HAB-93		
Project:		675.072189						
Date		9-03-2024		Sample Type	Habitat Assessment			
Zone 5	i0	Easting	672963		Northing	7737657		
		Landform and Soil			Rock		and the set	and the second state of the second state of
Landform		Plain		Rock type/s	None		100. 1995. No.	A REAL PROPERTY OF A REAL PROPERTY OF
Aspect		Negligible		Surface stone cover				
Soil type		Sand		Surface stone size classes			All and the second second	and the second sec
Soil colour		Red		present			ALL SALES	The Party of the Party of the Party of the
		Condition			Habitat Fea	tures	State State Man	and the second s
Quality		Very good		Water Source	Absent		ALL AND THE ALL AND A	CO WHAT I GREAT CARRIED
Fire History		Little or no fire evidence (>	5 years)	Microhabitats	Hummocks Leaf litter		AL	The state of the state of the state
Disturbance		None observed		Micronabitats	Hummoeks, Eeur inter		A STATE OF	AND A REAL PROPERTY AND A
Introduced fau	na	None observed		Ground Cover	51-75%		Statistics of	
				Vegetation	-			
Upper stratum		Low (<10 m)	Open woodland (0.25-20%))	Corymbia candida		and the second	the state of the
Mid stratum		Tall (>2 m)	Shrubland and/or heathlan	d (50-80%)	Acaica colei			A MAR - WI
Ground stratur	n	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia, Eulalia s	sp.	Fulcrum photo ID	9ede5cf7-3991-448c-af54-15bb8bea5c0d,76baa306-8dc5-40bb-9d7f

				675.072	189-HAB-94		
Project:	675.072189						
Date	0-01-1900		Sample Type	Habitat Assessment			
Zone 50	Easting	700338		Northing	7740919.7		
	Landform and Soil			Rock		Rent and a second	and the first billion and the second of
Landform	Plain		Rock type/s	None		the stille	the second s
Aspect	Negligible		Surface stone cover				and the second of the second sec
Soil type	Sand		Surface stone size classes				
Soil colour	Red		present			The second in the second in	and the state of t
	Condition		Habitat Features			the second s	the start of the second second
Quality	lity Very good		Water Source	Absent			THE R. BOARD
Fire History	Little or no fire evidence (>5 years)	Microhabitats	Hummocks		CARLER & CARLER	the second second second
Disturbance	None observed						The side in the stars
Introduced fauna	None observed		Ground Cover	51-75%			A CALLER CARE
		-	Vegetation			A COMPANY	HAR AND
Upper stratum	Absent					CALCULATION OF	
Mid stratum	Low (0.5-1 m)	Isolated shrubs and/or he	ath shrubs (<0.25%)	Acacia Inaequilatera			
Ground stratum	Low (>0.5 m)	Open hummock grassland	(20-50%)	Triodia epactia		Fulcrum photo ID	cff17ceb-7bc8-4bbb-ae8d-dd119bd8296c



Appendix J Fauna Recorded During the Survey

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024



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

			Conser Stat	Conservation Status		Method							
Family	Scientific Name	Common Name	State	Federal	Call	Sighting	Scat	Tracks	Remains	Mound	ARU	Camera Trap	
Aves													
Accipitridae	Aquila audax	Wedge-tailed Eagle				1							
Alaudidae	Mirafra javanica	Horsfield's Bush Lark				1						1	
Alcedinidae	Todiramphus sanctus	Sacred Kingfisher		MA		1							
Artamidae	Gymnorhina tibicen	Australian Magpie				1							
Artamidae	Artamus cinereus	Black-faced Woodswallow				3	1						
Artamidae	Cracticus nigrogularis	Pied Butcherbird				1							
Cacatuidae	Eolophus roseicapilla	Galah				4							
Cacatuidae	Cacatua sanguinea	Little Corella				2							
Cacatuidae	Cacatua galerita	Sulphur-crested Cockatoo				1							
Campephagidae	Coracina novaehollandiae	Black-faced Cuckooshrike		MA		4						1	
Casuariidae	Dromaius novaehollandiae	Emu						1					
Columbidae	Ocyphaps lophotes	Crested Pigeon				6						1	
Columbidae	Geophaps plumifera	Spinifex Pigeon				7						4	
Columbidae	Geopelia cuneata	Diamond Dove				1						6	
Corvidae	Corvus orru	Torresian Crow			1	3						4	
Estrildidae	Taeniopygia castanotis	Australian Zebra Finch			4	6						3	
Falconidae	Falco berigora	Brown Falcon				3							
Falconidae	Falco cenchroides	Nankeen Kestral		MA		4							
Maluridae	Malurus leucopterus	White-winged Fairywren		MA		2							
Meliphagidae	Gavicalis virescens	Singing Honeyeater			1	4							
Meliphagidae	Lichmera indistincta	Brown Honeyeater				1							
Meliphagidae	Ptilotula penicillata	White-plumed Honeyeater				1							
Meliphagidae	Manorina flavigula	Yellow-throated Miner										2	
Meropidae	Merops ornatus	Rainbow Bee-eater		MA	1	4							
Monarchidae	Grallina cyanoleuca	Magpie-lark		MA		1						2	
Motacillidae	Anthus australis	Australian Pipit		MA		3							
Otididae	Ardeotis australis	Australian Bustard				1			1				
Podicipedidae	Tachybaptus novaehollandiae	Australasian Grebe, Black- throated Grebe				1							

			Conse Sta	rvation itus				Me	ethod	I		
Family	Scientific Name	Scientific Name Common Name		Federal	Call	Sighting	Scat	Tracks	Remains	Mound	ARU	Camera Trap
Psittaculidae	Barnardius zonarius	Australian Ringneck				1						
Rhipiduridae	Rhipidura leucophrys	Willie Wagtail			3							
Mammalia												
Bovidae	Bos primigenius taurus	European Cattle				3	9	3	1			2
Dasyuridae	Sminthopsis macroura	Stripe-faced Dunnart										2
Felidae	Felis catus	Cat				1		2				1
Macropodidae	Osphranter rufus	Red Kangaroo, Marlu				4						2
Macropodidae	Osphranter robustus	Common Wallaroo										2
Molossidae	Chaerephon jobensis colonicus	Greater Northern Free-tailed Bat									23	
Muridae	Pseudomys chapmani	Western Pebble-mound Mouse	P4							6		
Rhinonycteridae	Rhinonicteris aurantia Pilbrara Form	Pilbara Leaf-nosed Bat	VU	VU							7	
Vespertilionidae	Chalinolobus gouldii	Gould's Wattled Bat									29	
Vespertilionidae	Scotorepens greyii	Little Broad-nosed Bat									14	
Vespertilionidae	Vespadelus finlaysoni	Finlayson's Cave Bat									23	
Reptilia												
Agamidae	Gowidon longirostris	Long-nosed Dragon										1
Agamidae	Ctenophorus caudicinctus	Western Ring-tailed Dragon				3						2
Agamidae	Ctenophorus isolepis	Central Military Dragon										1
Elapidae	Pseudonaja mengdeni	Western Brown Snake										2
Scincidae	Ctenotus saxatilis	Rock Ctenotus										29
Scincidae	Egernia epsisolus	Eastern Pilbara Spiny-tailed Skink	iny-tailed									5
Scincidae	Tiliqua multifasciata	Central Blue-tongue	1 1									1
Scincidae	Morethia ruficauda	Lined Fire-tailed Skink										1
Varanidae	Varanus gouldii	Bungarra Or Sand Goanna				1						4
Varanidae	Varanus panoptes	Argus Monitor										3
Varanidae	Varanus acanthurus	Spiny-tailed Goanna										9



Appendix K Significant Fauna Likelihood of Occurrence

Atlas Ridley Magnetite Project Connection

Flora and Fauna Survey Technical Report

Horizon Power

SLR Project No.: 675.072189.00001

29 July 2024



		Conser	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
Birds						
Accipitridae	Erythrotriorchis radiatus			Tropical and subtropical open- forests and woodlands		Low
	Red Goshawk	VU	EN	dominated by eucalypts and paperbarks along streams and near wetlands (Menkhorst et al., 2017).	No nearby records identified from the database searches or literature.	No nearby records.
	Apus pacificus				The DBCA database identified six records within 50 km of the	Medium
Apodidae	Pacific Swift, Fork- tailed Swift	MI	MI, MA	Low to very high airspace over varied habitat (Pizzey and Knight, 2012).	Survey Area, including one record 3.5 km east in 2007 and two records approximately 38 km south in 2022 (DBCA, 2024d).	Multiple historic records. Taxon may utilise airspace over the Survey Area.
	Charadrius Ieschenaultii			Wide, sandy, or shelly beaches; sandspits, tidal mudflats, reefs	The DBCA database	Low
Charadriidae	e Greater Sand Plover	VU	VU, MI, MA	sand cays, mangroves, saltmarsh, dune wilderness, bare paddocks; seldom far inland (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.

		Conser	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Charadrius mongolus			Tidal mudflats and sandflats; gently sloping sandy and		Low
Charadriidae	Lesser Sand Plover	EN	EN, MI, MA	shelly beaches; saltmarsh, estuaries, atolls, reefs, mangroves, airfield. Occasionally inland on freshwater lakes, swamps, bore drains (Pizzey and Knight, 2012).	identified 34 records within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Charadrius veredus			Open plains; bare, rolling country, often far from water:		High
Charadriidae	Oriental Plover	MI	MI, MA	ploughed land; muddy or sandy wastes near inland swamps or tidal flats; bare claypans; margins of coastal marshes; grassy airfields, sports fields, lawns (Pizzey and Knight, 2012).	The DBCA database identified 18 records within 50 km of the Survey Area, including two records 14 km north in 2015 and 2016 (DBCA, 2024d).	Nearby records, and suitable habitat within the Survey Area.

		Consei	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Pluvialis fulva			Estuaries, mudflats, saltmarshes, mangroves: rocky		Low
Charadriidae	Pacific Golden Plover	MI	MI, MA	reefs and stranded seaweed on ocean shores; margins of shallow open inland swamps; sewage ponds, short-grass paddocks, sportsground, airfield, ploughed land (Pizzey and Knight, 2012).	The DBCA database identified 24 records within 50 km of Survey Area, including two records 15 km north in 2016 and 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Pluvialis squatarola			Mudflats, saltmarsh; tidal reefs and	The DBCA database identified 30 records within 50 km of the	Low
Charadriidae	Grey Plover	MI	VU, MI, MA	estuaries, rarely inland (Pizzey and Knight, 2012).	Survey Area, including two records 15 km north in 2016 and 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
Cuculidae	Cuculus saturatus optatus			Monsoon forest, rainforest edges; leafy trees in paddocks;	No nearby records	Low
	Horsfield's Cuckoo	MI	MI, MA	river flats, roadsides, mangroves, islands (Pizzey and Knight, 2012).	identified from the database searches or literature.	No nearby records.

		Consei	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Falco hypoleucos	The DBCA databas		The DBCA database identified nine records	High	
Falconidae	Grey Falcon	VU	VU	Open plains with treed watercourses in arid inland (Menkhorst et al., 2017).	within 50 km of the Survey Area, including 2.9 km north in 2016 and 9 km southwest in 2018 (DBCA, 2024d).	Nearby records, and suitable treed waterourses in arid inland habitat within the Survey Area
	Falco peregrinus			Most environments with suitable nest	The DBCA database	High
Falconidae	Peregrine Falcon	OS	_	sites: cliff faces preferred, including man-made ones, commonly uses stick nests built by other species (Menkhorst et al., 2017).	identified seven records within 50 km of the Survey Area, including two records 2.5 and 3 km west in 2012 (DBCA, 2024d).	Nearby Records, and suitable habitat within the Survey Area. May use Survey Area for Hunting.
	Fregata ariel				The DBCA database identified 17 records	Low
Fregatidae	Lesser Frigatebird	MI	MI, MA	Oceanic, breed on islands (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 13 and 15 km north in 2016 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Fregata minor			Oceanic. breed on	No nearby records	Low
Fregatidae	Greater Frigatebird	MI	MI, MA	islands (Pizzey and Knight, 2012).	Identified from the database searches or literature.	No nearby records and no suitable habitat within the Survey Area.

		Consei	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Glareola maldivarum			Plains; shallow wet	The DBCA database identified 29 records within 50 km of the	Previously Recorded
Glareolidae	Oriental Pratincole	MI	MI, MA	and dry edges of open bare wetlands; tidal mudflats, beaches (Pizzey and Knight, 2012).	Survey Area, including one record within the Survey Area in 2004 and 0.2 km from the Survey area in 2013 (DBCA, 2024d).	Recorded within the Survey Area in 2004 and limited suitable open plains and seasonal wetland habitat within the Survey Area.
	Hirundo rustica			Open country;	The DBCA database	High
Hirundinidae	Barn Swallow	MI	MI, MA	agricultural land, especially near water; railyards, towns, overhead wires (Pizzey and Knight).	within 50 km of the Survey Area, including 14 km north in 2015 and 8 km north in 2014 (DBCA, 2024d).	Nearby records, and suitable open country and seasonal wetland habitat within the Survey Area.
	Anous stolidus			Oceanic; cays, reefs,	No nearby records	Low
Laridae	Common Noddy, Brown Noddy	MI	MI, MA	buoys and piles (Pizzey and Knight, 2012).	identified from the database searches or literature.	No nearby records and no suitable habitat within the Survey Area.
Laridae	Chlidonias leucopterus			Large coastal and	The DBCA database identified 44 records	Medium
	White-winged Black Tern	MI	MI, MA	saltfields, sewage ponds, estuaries, coastal waters (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 15 km north in 2016 and 3 km north in 2010 (DBCA, 2024d).	Nearby records and limited seasonal wetland habitat within the Survey Area.

		Consei	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Gelochelidon nilotica			Coastal, offshore waters; beaches,	The DBCA database identified 45 records	Medium
Laridae	Gull-billed Tern	MI	MI, MA	mudflats, estuaries, larger rivers, reserviors, lakes (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 0.7 km south in 2004 and 15 km north in 2017 (DBCA, 2024d).	Limited major drainage habitat within the Survey Area.
	Hydroprogne caspia			Coastal, offshore waters; beaches,	The DBCA database	Medium
Laridae	Caspian Tern	MI	MI, MA	mudflats, estuaries, larger rivers, reservoirs, lakes. Sometimes found inland (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 3 km north in 2007 and 15 km north in 2017 (DBCA, 2024d).	Limited major drainage habitat within the Survey Area.
	Onychoprion anaethetus				The DBCA database identified two records	Low
Laridae	Bridled Tern	MI	MI, MA	Oceanic, rarely coastal (Pizzey and Knight, 2012).	within 50 km of the Survey Area, 11.3 km north in 1995 and 13.1 km north in 1995 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Sterna dougallii			Offshore waters,	The DBCA database identified one record	Low
Laridae	MI Roseate Tern		MI, MA	islands, coral reefs, sand cays, beaches, tidal inlets (Pizzey and Knight).	within 50 km of the Survey Area, including 18 km north in 2015 and 12 km north in 2014 (DBCA, 2024d).	No suitable habitat within the Survey Area.

		Conser	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Sterna hirundo			Offshore waters, beaches, reefs, bays,	The DBCA database identified 12 records	Medium
Laridae	Common Tern	MI	MI, MA	estuaries, sandflats, saltfields, sewage ponds, freshwater wetlands (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 12.3 km north in 2014 and 12.7 km north in 2004 (DBCA, 2024d).	Limited seasonal wetland habitat within the Survey Area.
	Sternula albifrons			Coastal waters, bays, inlets, saline or	The DBCA database identified 28 records	Low
Laridae	Little Tern	MI	MI, MA	brackish lakes, saltfields, sewage ponds near coast (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Sternula nereis nereis			Coastal have inlets	The DBCA database identified two records	Low
Laridae	Fairy Tern	VU	VU, MA	beaches, salt ponds and lakes (Morcombe, 2003).	within 50 km of the Survey Area, including 11.3 km north in 1995 and 12.6 km north in 2008 (DBCA, 2024d).	No suitable habitat within the Survey Area.
	Thalasseus bergii			Coastal, offshore	The DBCA database identified 37 records	Low
Laridae	Greater Crested Tern, Crested Tern	MI	MI, MA	bays, inlets, tidal rivers, salt swamps, lakes, larger rivers (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017, and 3 km east in 2007 (DBCA, 2024d).	No suitable habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Amytornis whitei whitei			Spinifex associated with mallee, acacias,		Medium
Maluridae	Rufous Grasswren	P4	_	dense spinifex hummocks; rocky slopes, and ridges; <i>A.</i> <i>whitei whitei</i> also inhabit coastal shrubs (Pizzey and Knight, 2012; Menkhorst et al. 2017).	Two NatureMap records were identified (DBCA, 2024b).	Two records within desktop study area. Suitable habitat present within the Survey Area.
	Motacilla cinerea	MI	MI, MA	Running water near disused quarries;	No nearby records identified from the database searches or literature.	Low
Motacillidae	Grey Wagtail			sandy, rocky streams in escarpments; sewage ponds, ploughed fields, airfields (Pizzey and Knight 2012).		Limited seasonal damp grassland habitat within the Survey Area but no recent record.
Motacillidae	Motacilla tschutschensis	MI	MI, MA	Short grass and bare ground; swamp	The DBCA databse	Low
	Eastern Yellow Wagtail			margins, sewage ponds, saltmarshes, ploughed fields, airfields, lawns (Pizzey and Knight, 2012).	within 50 km of the Survey Area, both 13.7 km north in 1982 (DBCA, 2024d).	Limited seasonal damp grassland habitat within the Survey Area but no recent record.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
P Pandionidae C	Pandion haliaetus			Coasts, estuaries, bays, inlets; islands	The DBCA database identified 87 records	High
	Osprey	MI	MI, MA	waters; coral atolls, reefs, lagoons, rock cliffs, stacks; larger rivers (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 15 km north in 2017 and 5.0 km north in 2013 (DBCA, 2024d).	Nearby and recent records and suitable major drainage line habitat within the Survey Area.
Psittaculidae	Pezoporus occidentalis			Seeding spinifex on stony rises, breakaway country sandy		Low
	Night Parrot	CR	EN	lowlands; shrubby glasswort, chenopods; succulents on flats around salt lakes; flooded claypans, saltbush, bluebush, bassia associations (Pizzey and Knight, 2012).	No nearby records identified from the database searches or literature.	No suitable habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Actitis hypoleucos			Shallow, pebbly, muddy, or sandy		Medium
Scolopacidae	Common Sandpiper	MI	MI, MA	sedges of rivers and streams, coastal to far inland; dams, lakes, sewage ponds; margins of tidal rivers; waterways in mangroves or saltmarsh; mudflats; rocky or sandy beaches; causeways, riverside lawns, drains, street gutters (Pizzey and Knight, 2012).	The DBCA database identified 90 records within 50 km of the Survey Area, including two records 15 km north in 2017 and 3 km north in 2014 (DBCA, 2024d).	Nearby records and limited seasonal wetland habitat within the Survey Area.
	Arenaria interpres			Tidal reefs and pools; weed-covered rocks;		Low
Scolopacidae	Ruddy Turnstone	MI	VU, MI, MA	sandy shores with stranded seaweed; mudflats; occasionally inland on shallow waters; sewage ponds, commercial saltflats, open or ploughed ground (Pizzey and Knight, 2012).	The DBCA database identified 104 records within 50 km of the Survey Area, including two records 3 km north in 2010 and 15 km north in 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.

		Consei	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Calidris acuminata	MI		Tidal mudflats, saltmarshes, mangroves; shallow fresh, brackish or saline inland wetlands; muddy edges of lagoons, swamps, lakes, floodwaters, dams, irrigated patures and crops; sewage ponds, saltfields (Morcombe, 2003; Pizzey and Knight, 2012).		Medium
Scolopacidae	Sharp-tailed Sandpiper		VU, MI, MA		The DBCA database identified 48 records within 50 km of the Survey Area, including two records 3 km north in 2014, and 15 km north in 2017 (DBCA, 2024d).	Nearby records and limited suitable habitat present within the Survey Area.
	Calidris alba			Broad ocean beaches	The DBCA database	Previously Recorded
Scolopacidae	Sanderling	MI	MI, MA	seaweed; often near river mouths; also, inlets, tidal mudflats, coastal lagoons (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including one record within the Survey Area in 1981 and 15 km north in 2017 (DBCA, 2024d).	One historic record inside the Survey Area and nearby recent records. Suitable tidal mudflat habitats 10 km north have connectivity to the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
Scolopacidae	Calidris canutus		VU, MI, MA	Tidal mudflats, sandflats, beaches, saltmarshes, flooded pastures, ploughed lands (Pizzey and Knight, 2012).	The DBCA database identified 20 records within 50 km of the Survey Area, including three records 13 km north in 2014 and 15 km north in 2016 (DBCA, 2024d).	Medium
	Red Knot	EN				Limited seasonal floodwater habitat within the Survey Area.
Scolopacidae	Calidris falcinellus			Tidal mudflats, estuaries, reefs, saltmarsh, freshwater wetlands and lakes, near-coastal salt lakes; sewage ponds; favours muddy ooze (Morcombe, 2003; Pizzey and Knight, 2012).	The DBCA database identified 24 records within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017(DBCA, 2024d).	Medium
	Broad-billed Sandpiper	MI	MI, MA			Limited seasonal wetland habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Calidris ferruginea			Inter-tidal mudflats of estuaries, lagoons,		Medium
Scolopacidae	Curlew Sandpiper	CR	CR, MI, MA	saltmarsh, saltfields; fresh, brackish, or saline wetlands; flooded saltbush surrounds of inland lakes; dams, floodwaters, sewage ponds (Morcombe, 2003; Pizzey and Knight, 2012).	The DBCA database identified 47 records within 50 km of the Survey Area, including two records 3 km north in 2010, and two records 15 km north in 2016 and 2017 (DBCA, 2024d).	Nearby records and limited seasonal floodwater habitat within the Survey Area.
	Calidris melanotos	MI	MI, MA	Shallow fresh waters, often with low grass or other herbage; swamp margins, flooded pastures, sewage ponds; occasionally tidal areas, saltmarshes (Pizzey and Knight, 2012).	The DBCA database identified two records within 50 km of the Survey Area, including 7.5 km north in 2014 and 17.2 km north in 1988 (DBCA, 2024d).	Medium
Scolopacidae	Pectoral Sandpiper					Nearby record and limited seasonal floodwater habitat within the Survey Area.
	Calidris pugnax			Fresh brackish and	The DBCA database	Medium
Scolopacidae	Ruff	МІ	MI, MA	saline wetlands; tidal mudflats, saltfields, sewage farms (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 5.5 km south in 1979 and 15.0 km north in 2017 (DBCA, 2024d).	Limited seasonal wetland habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Calidris ruficollis			Tidal mudflats,	The DBCA database identified 84 records	Medium
Scolopacidae	:olopacidae Red-necked Stint	MI	MI, MA	shelly beaches; salidy of shelly beaches; saline and freshwater wetlands, salt fields, sewage ponds (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 3 km north in 2014 and two records 15 km north in 2016 and 2017 (DBCA, 2024d).	Nearby record and limited seasonal wetland habitat within the Survey Area.
Scolopacidae	Calidris subminuta	MI	MI, MA	Tussocky, weedy margins of shallow wetlands, coastal and inland; sewage ponds, weed on tideline, tidal mudflats (Pizzey and Knight, 2012).	The DBCA database identified 13 records within 50 km of the Survey Area, including two records 3 km north in 2010 and one record 15 km north in 2015 (DBCA, 2024d).	Medium
	Long-toed Stint					Nearby record and limited seasonal wetland habitat within the Survey Area.
	Calidris tenuirostris	CR	VU, MI, MA	Tidal mudflats; sandy ocean and bay shores; estuaries; shallow saline and freshwater wetlands (Pizzey and Knight, 2012).	The DBCA database identified 38 records	Medium
Scolopacidae	Great Knot				within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017, and one record 12 km north in 2014 (DBCA, 2024d).	Limited seasonal wetland habitat within the Survey Area.
Scolopacidae	Gallinago megala		MI, MA	Wet grassy ground; edges of reedy swamps (Pizzey and Knight, 2012).	The DBCA database identified one record	Low
	Swinhoe's Snipe	MI			within 50 km of the Survey Area, 43.0 km east in 1977 (DBCA, 2024d).	No suitable habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Gallinago stenura			Boggy edges of vegetated wetlands;	The DBCA database	Medium
Scolopacidae	Jae MI MI, M/ Pin-tailed Snipe	MI, MA	MI, MA MI, MA MI, MA shrubs, pastures (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 6.8 km north in 2014 and 13.7 km north in 1976 (DBCA, 2024d).	Limited seasonal floodwater habitat within the Survey Area.	
Scolopacidae	Limnodromus semipalmatus		VU, MI, MA	Beaches, mudflats,	The DBCA database identified 15 records	Low
	Asian Dowitcher	MI		commercial saltfields, and sewage ponds (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 12.8 km north in 1994 and 15.0 km north in 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
Scolopacidae	Limosa lapponica	MI	MI, MA	Tidal mudflats, estuaries, sewage ponds, shallow river margins, brackish or saline inland lakes, flooded pastures, airfields (Pizzey and Knight, 2012).	The DBCA database identified 71 records within 50 km of the	Medium
	Bar-tailed Godwit				Survey Area, including two records 12 km north in 2014, and two records 15 km north in 2016 and 2017 (DBCA, 2024d).	Limited seasonal flooded paddock and river margin habitat within the Survey Area.

		Conser	vation Status			
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
<i>Limosa limosa</i> Scolopacidae Black-tailed G	Limosa limosa			Tidal mudflats, estuaries, sandspits,	The DBCA database	Medium
	Black-tailed Godwit	MI	EN, MI, MA	shallow river margins, sewage ponds; inland on large shallow fresh or brackish waters (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 15 km north in 2013 and 2016 (DBCA, 2024d).	Nearby records, and seasonal wetland habitat within the Survey Area.
Scolopacidae	Numenius madagascariensis		CR, MI, MA	Estuaries, tidal mudflats, sandspits, saltmarshes, mangroves; occasionally fresh or brackish lakes; bare grasslands near water (Pizzey and Knight, 2012).	The DBCA database	Low
	Far Eastern Curlew, Eastern Curlew	CR			within 50 km of the Survey Area, including 12 km north in 2014 and 13 km north in 2017 (DBCA, 2024d).	No suitable habitat within the Survey Area.
Scolopacidae	Numenius minutus		MI, MA	Dry grasslands, floodplains, margins of	The DBCA database identified 30 records	High
	Little Curlew	MI		drying swamps; tidal mudflats, airfields, playing fields, crops, commercial saltfields, sewage ponds (Pizzey and Knight, 2012).	Survey Area, including two records 3 km north in 2010, and one record 14 km north in 2016 (DBCA, 2024d).	Nearby records, and suitable dry grassland plains within the Survey Area

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Numenius phaeopus			Estuaries, mangroves, tidal flats, coral cays,	The DBCA database	Medium
Scolopacidae	Scolopacidae Whimbrel	МІ	MI, MA	paddocks, sewage ponds, bare grasslands, sport grounds, lawns (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including 12 km north in 2015 and 13 km north in 2017 (DBCA, 2024d).	Limited seasonal flooded paddock habitat within the Survey Area.
Scolopacidae	Phalaropus lobatus	MI	MI, MA	Shallow pools, tidal mudflats, beaches, saltmarshes, freshwater wetlands; commercial saltfields (Pizzey and Knight, 2012).	The DBCA database identified 11 records	Previously Recorded
	Red-necked Phalarope				Survey Area, including four records within the Survey Area in 1981 and 15 km north in 2017 (DBCA, 2024d).	Limited seasonal wetland habitat within the Survey Area.
Scolopacidae	Tringa brevipes	MI, P4	MI, MA	Estuaries, tidal	The DBCA database identified 74 records	Medium
	Grey-tailed Tattler			wave-washed rocks and reefs; shallow margins of coastal or inland rivers (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including two records 15 km north in 2016 and 2017, and one record 11 km north in 2014 (DBCA, 2024d).	Limited minor and major drainage habitats within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Tringa glareola			Muddy margins of wetlands with emergent sedges and	The DBCA database	Medium
Scolopacidae	Wood Sandpiper	MI	MI, MA	taller fringing vegetation; tidal mangroves; margins of tidal mudflats; saltmarshes, sewage pond (Pizzey and Knight, 2012; Menkhorst et al., 2017).	identified 37 records within 50 km of the Survey Area, including one record 3 km north and four records 8 km north in 2014 (DBCA, 2024d).	Nearby records and limited seasonal wetland habitat within the Survey Area.
Scolopacidae	Tringa nebularia			Mudflats, estuaries, saltmarshes, swamps, margins of lakes,	The DBCA database identified 92 records within 50 km of the Survey Area, including two records 3 km north in 2010, and two records15 km north in 2016 and 2017 (DBCA, 2024d).	High
	Common Greenshank	MI	EN, MI, MA	muddy snallows of lagoons; permanent and temporary wetlands, claypans; commercial saltfield, irrigated crops, sewage ponds (Morcombe, 2003; Pizzey and Knight, 2012).		Nearby records and suitable habitat within the Survey Area.

		Conservation Status				
Family	Scientific Name	State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Tringa stagnatilis			Fresh, brackish, and saline wetlands;	The DBCA database identified 35 records	Previously Recorded
Scolopacidae	Scolopacidae Marsh Sandpiper	MI	MI, MA	commercial saltfields, bore drains, mangroves, tidal mudflats, estuaries (Pizzey and Knight, 2012).	within 50 km of the Survey Area, including one record within the Survey Area in 1981 and 12 km north in 2014 (DBCA, 2024d).	Limited seasonal wetland habitat within the Survey Area.
	Xenus cinereus	MI	VU, MI, MA	Tidal mudflats, estuaries; shores and reefs of islands; coastal swamps, commercial saltfields (Pizzey and Knight, 2012).	The DBCA database identified 32 records within 50 km of the Survey Area, including 13 km north in 2015 and 15 km north in 2017 (DBCA, 2024d).	Low
Scolopacidae	Terek Sandpiper					No suitable habitat within the Survey Area.
	Sula leucogaster			Nests on islands. Barely on shoreline	The DBCA database identified two records	Low
Sulidae	Brown Booby	MI	MI, MA	only to perch on pylons/piers (Menkhorst et al., 2017).	within 50 km of the Survey Area, including 19.2 km north in 1979 and 45.5 km north in 1984 (DBCA, 2024d).	No suitable habitat within the Survey Area.

	Scientific Name	Conservation Status				
Family		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
Threskiornithidae	Plegadis falcinellus			Well-vegetated wetlands, wet	The DBCA database	Medium
	Glossy Ibis	MI	MI, MA	flooded waters, floodplains; brackish or occasionally saline wetlands, mangroves, mudflats, occasionally dry grasslands (Pizzey and Knight, 2012).	identified 13 records within 50 km of the Survey Area, including 14 km north in 2013 and 15 km east in 2011 (DBCA, 2024d).	Nearby records, and seasonal wetland and dry grassland habitat within the Survey Area.
Mammals						
	Dasycercus blythi		-	Hummock grasslands (e.g. <i>Triodia</i> spp.) and shrublands on sandy soils (Menkhorst and Knight, 2010).	The DBCA database identified 287 records within 50 km of the Survey Area, including 15 records within the Survey Area in 2012 (DBCA, 2024d).	Previously Recorded
Dasyuridae	Brush-tailed Mulgara, Ampurta	P4				Recorded within the Survey Area in 2012, and suitable habitat within the Survey Area.
Dasyuridae	Dasycercus cristicauda					Low
	Crest-tailed Mulgara	P4	_	Outside the distribution of the species.	The DBCA database identified three records within 50 km of the Survey Area in 2009 (DBCA, 2024d).	The records are most likely the result of misidentification, as the Survey Area is well outside of the species' historical and extant distribution.

	Scientific Name	Conservation Status				
Family		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
Dasyuridae	Dasyurus hallucatus		EN	Dissected rocky escarpments; eucalypt forest and woodland; human settlements; occasionally in rainforest patches or on beaches (Van Dyck, Gynther and Baker, 2013).	The DBCA database identified 1282 records within 50 km of the Survey Area, including nine records within the Survey Area in 2012 and 2014 (DBCA, 2024d).	Previously Recorded
	Northern Quoll	EN				Recorded within the Survey Area in 2012, and suitable habitat within the Survey Area.
Macropodidae	Lagostrophus fasciatus fasciatus	VU	VU	Dense thickets of Acacia and Alectryon scrub on the sandplains, and Diplolaena and Acacia on the dunes (Van Dyck, Gynther and Baker, 2013).	The DBCA database identified one historical record 8.5 km north of the Survey Area (DBCA, 2024d).	Low
	Banded Hare- wallaby					No recent records, outside known distribution.
Megadermatidae	Macroderma gigas		Deep caves and mines, and	The DPCA detabase	High	
	Ghost Bat	VU	VU	fissures and boulder piles occurring within a widespread but patchy distribution across northern Australia from the arid Pilbara to the lush rainforests of north Queensland (Baker and Gynther, 2023).	identified 65 records within 50 km of the Survey Area, including 38 km south in 2022, 3 km south in 2017, and 63 records less than 4.0 km south in 2009 (DBCA, 2024d).	Recent and nearby records. Suitable rock fissures and boulder piles within the Survey Area.

Family	Scientific Name	Conservation Status				
		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Ozimops cobourgianus		_	Mangroves, monsoon and paperbark forests, eucalypt forests and woodland. Use hollows and crevices in mangroves as nesting sits (Van Dyck, Gynther and Baker, 2013). Restricted to mangrove habitat in north-west coastal WA (McKenzie, Bullen and Gibson, 2020).	The DBCA database identified seven records within 50 km of the Survey Area, including two records 13 km north in 2008 and 2009 (DBCA, 2024d).	Low
Molossidae	Northern Coastal Free-tailed Bat	P1 stal tt				No suitable habitats within the Survey Area.
Muridae	Leggadina Iakedownensis			Monsoon tropical coast to semiarid areas in spinifex and tussock grasslands, samphire, sedgelands, Acacia shrublands, tropical eucalypt and Melaleuca woodlands and stony ranges (Van Dyck, Gynther and Baker, 2013).	The DBCA database	Medium
	Short-tailed Mouse	Ρ4	_		identified 10 records within 50 km of the Survey Area, including two records 30.4 km east in 2006 (DBCA, 2024d).	Multiple historic records. Suitable habitats present within the Survey Area.

Family	Scientific Name	Conservation Status				
		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Pseudomys chapmani			Gentler slopes of rocky ranges covered	The DBCA database identified 93 records within 50 km of the Survey Area, including 27 records within 36 km in 2022, and 4 records 3 km south in 2009 (DBCA, 2024d).	Recorded
Muridae	Western Pebble- mound Mouse	Ρ4	_	by stony mulch and hard spinifex, often with a sparse overstorey of eucalypts and scattered shrubs (Van Dyck, Gynther and Baker, 2013).		Recorded during the field survey.
Rhinonycteridae	Rhinonicteris aurantia Pilbara form			Most easily observed foraging in gorges and gullies, often over pools, also spinifex hummock grasslands. Roosts in relatively deep, warm, and humid caves and mine adits (Van Dyck, Gynther and Baker, 2013).	The DBCA database identified 12 records within 50 km of the Survey Area, including 3 records 3 km south in 2009, and one record 35 km south in 2019 (DBCA, 2024d).	Recorded
	Pilbara Leaf-nosed Bat	VU	VU			Recorded during the field survey.

Family	Scientific Name	Conservation Status				
		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
	Macrotis lagotis			Mitchell grass and stony downs country of cracking clays, desert sandplains and dune fields sometimes containing laterite, hummock grassland and massive red earths with <i>Acacia</i> shrubland (Van Dyck, Gynther and Baker, 2013).	A total of 95 DBCA records were identified. These include 3 records within 2 km of the Survey Area from 2018 to 2019; 4 records within 10 km of the Survey Area from 2010 to 2019, and a further 19 records within 50 km of the Survey Area from 2021 to 2022 (DBCA, 2024d).	Previously Recorded
Thylacomyidae		VU	VU			Previous records identified from the literature review occur inside the Survey Area. Suitable habitat is present.
Reptiles						
Pythonidae	Liasis olivaceus barroni			Associated with open water, watercourses,	The DBCA database identified five records within 50 km of the Survey Area, including 1.5 km east in 2013 and 3.5 km east in 2007 (DBCA, 2024d).	High
	Pilbara Olive Python	VU	VU	especially those close to rocky areas. Often found in rocky hills, escarpments, and plains dominated by dense grassy vegetation such as <i>Triodia</i> (Wilson and Swan, 2021).		Nearby records, and limited watercourses close to rocky areas within the Survey Area. May travel through the Survey Area along Drainage Line habitats.

Family	Scientific Name	Conservation Status				
		State	Commonwealth	Habitat	Previous Records	Likelihood of Occurrence
Scincidae	Ctenotus angusticeps			Mainland population inhabits coastal mudflats vegetated with samphire, sometimes sheltering in crab holes on intertidal zone (Wilson and Swan, 2021).	The DBCA database identified 16 records within 50 km of the Survey Area, including two records 7.8 km north in 2012 (DBCA, 2024d).	Low
	Northwestern Coastal Ctenotus	Р3	_			No suitable habitat within the Survey Area.
Scincidae	Notoscincus butleri		_	Arid, rocky, near coastal Pilbara. Associated with spinifex-dominated areas near creek and river margins (Wilson and Swan, 2021).	One record from literature, 100 km west of the Survey Area in 2014 (Phoenix Environmental Sciences, 2014).	Low
	Lined Soil-crevice Skink	P4				No nearby records, and limited spinifex- dominated areas near river margin habitat within the Survey Area.



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