360 environmental

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Prepared for

Mineral Resources Limited

September 2021

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Document Reference	Revision	Prepared by	Reviewed by	Admin Review	Submitted to Client	
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Disclaimer

Executive Summary

Mineral Resources Limited commissioned 360 Environmental Pty Ltd (360 Environmental) to undertake a flora and vegetation assessment to support the development of the Ashburton Infrastructure Project (AIP). The AIP Haul Road involves developing a fully sealed private haul road that will begin at the boundary of the approved Buckland mine (Bungaroo South), about 45 km southwest of Pannawonica, and continue for about 150 km westward towards Onslow. The Survey Area is approximately 30,238 hectares, comprising the proposed haul road alignment buffer and supporting infrastructure areas such as borrow pits. A portion of the Survey Area, comprising approximately 6663 ha was included in the desktop assessment but could not be surveyed because of access limitations. A 1397.27 ha southern section and a 2,021.20 ha northern section of the area that could not be accessed has been extrapolated to provide indicative vegetation mapping.

This report presents the background, methods, results, and discussion of the two-phase detailed flora and vegetation survey undertaken to support the Project. Three surveys were conducted during the dry season (June-Oct 2020), and four surveys were conducted during the post-wet season (Mar-May 2021). The surveys were undertaken by experienced Pilbara Botanists.

A desktop assessment identified 29 conservation significant taxa occurring within 50 km of the Survey Area. A pre-survey likelihood of occurrence assessment was undertaken and identified that of these, three had previously been recorded within the Survey Area, 12 had a high likelihood of occurrence, 14 had a medium likelihood of occurrence, and none had a low likelihood of occurrence.

The detailed flora and vegetation surveys recorded floristic composition and vegetation types from 228 flora sites (comprising 132 quadrats and 96 relevés), 286 mapping notes and opportunistic observations. A total of 455 native flora taxa were recorded from 55 families and 172 genera.

No Threatened flora taxa pursuant to the *Environment Protection and Biodiversity Conservation Act 1999* and/or gazetted as Threatened pursuant to the *Biodiversity Conservation Act 2016* were recorded during the survey.

Seven Department of Biodiversity, Conservation and Attractions (DBCA) listed Priority flora taxa were recorded within the Survey Area:

- *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
- *Euphorbia inappendiculata* var. *inappendiculata* (P2)
- *Eleocharis papillosa* (P3)
- *Eremophila forrestii* subsp. *viridis* (P3)
- *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)
- *Triodia pisoliticola* (P3)
- *Goodenia nuda* (P4)

The Priority 1 taxa *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) occurs in large numbers on the east and west banks of the Cane River. This species was not present during the dry surveys, however, became abundant during the post-wet surveys. It is likely that this species is more abundant than previously known, however is rarely encountered outside the optimal timing. The large numbers within the Survey Area and the continuation of the landform suggest that large numbers of this species also extend north and south along the Cane River, and then any realignment of the Survey Area that crosses this landform would also encounter the same issue.

The small gravel rises that support dense populations of *Eremophila forrestii* subsp. *viridis* (P3) are a unique micro landform among broader plains (PL19). While this species is a P3, and the landform itself is not a PEC or TEC, it is unique and very restricted among the Survey Area, and not seen outside the survey area during helicopter traverses. A further 15 non-listed taxa are considered range extensions. Eighteen introduced flora taxa were recorded during the survey; including **Prosopis pallida* and **Parkinsonia aculeata*, both listed as Weeds of National Significance by the Commonwealth Department Agriculture, Water and the Environment and Declared Pests by the State Department of Primary Industries and Regional Development.

Fifty-three vegetation types were described and mapped across five broad landforms (dunes and swales, claypans/tidal flats, plains, hills and mesas, and drainage) within the Survey Area. Vegetation in the Survey Area was mapped as per NVIS Level 5 and was representative of existing broad scale vegetation, and soil and land system mapping for the area.

No vegetation representative of any Commonwealth or State listed TECs was recorded within the Survey Area. One State listed PEC, the Tanpool Land System Priority 1 ecological community, identified by the DBCA database searches, was recorded within the Survey Area. Existing mapped patches of the PEC intersected the AIP, covering 214.56 ha, which is inclusive of the 500 m buffer applied to all PECs. Vegetation on this landform was mapped as unit PL01. No other instances of unit PL01 are considered analogous to the PEC, as the landform is only present in this area. Outside the AIP this PEC occurs in eight patches totaling 12,990.01 ha and extending ~22 km north of the AIP, of which 1.65% intersects with the AIP.

Vegetation condition in the Survey Area was ranked as per technical guidance and ranged from Excellent to Completely Degraded with the majority considered to be in Very Good to Good condition.

- Excellent (147.72 ha / 0.49%)
- Very Good (14,036.37 ha / 46.42%)
- Good (8000.22 ha / 26.46%)
- Poor (1209.06 ha / 4.00%).

Evidence of disturbance included historical clearing for roads, infrastructure and access tracks, cattle grazing, trampling and scats, weeds, frequent burning, and rubbish. Due to the location of the AIP across existing cattle stations, the vast majority of the vegetation was affected by long-term cattle impacts.

Table of Abbreviations

Abbreviation	Description
360 Environmental	360 Environmental Pty Ltd
AIP	Ashburton Infrastructure Project
BAM Act	*Biosecurity and Agriculture Management Act 2007*
BC Act	*Biodiversity Conservation Act 2016*
BoM	Bureau of Meteorology
DAWE	Department of Agriculture, Water, and the Environment
DBCA	Department of Biodiversity, Conservation and Attractions
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EP Act	*Environmental Protection Act 1986*
EPA	Environmental Protection Authority
EPBC Act	*Environment Protection Biodiversity and Conservation Act 1999*
GIS	Geographic Information System
ha	Hectare
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
km	Kilometres
m	Metres
mm	millimetres
MRL	Mineral Resources Limited
NMDS	Non-Metric Multi-Dimensional Scaling
NVIS	National Vegetation Information System
NWCH	North West Coastal Highway
P	Priority
PEC	Priority Ecological Community
PMST	Protected Matters Search Tool
Study Area	The database search area (varied according to each parameter)
Survey Area	The Ken's Bore to Onslow proposed haul road alignment and buffer, and associated borrow pit areas totalling approximately 30,238 ha
T	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
TPRF	Threatened and Priority Flora Report Form

Abbreviation	Description
WA	Western Australia
WAH	Western Australian Herbarium
WoNS	Weeds of National Significance

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1 Introduction

1.1 The Project

Mineral Resources Limited (MRL) commissioned 360 Environmental Pty Ltd (360 Environmental) to undertake a detailed flora and vegetation assessment to support the Ashburton Infrastructure Project (AIP, the Proposal). The AIP Haul Road involves developing a fully sealed private haul road that will begin at the boundary of the approved Buckland mine (Bungaroo South), about 45 km southwest of Pannawonica, and continue for about 150 km westward towards Onslow.

The Survey Area is approximately 30,238 hectares, comprising the proposed haul road, with a varying buffer (due to land tenure restrictions) and supporting infrastructure areas such as borrow pit areas, including a small area adjacent Wheatstone LNG (the Pilbara Ports Authority (PPA) area) (Figure 1).

A portion of the Survey Area, comprising approximately 6663 ha was included in the desktop assessment but could not be surveyed because of access limitations. A 1397.27 ha southern section and a 2,021.20 northern section of the area that could not been accessed has been extrapolated to provide indicative vegetation mapping.

1.2 Scope and Objectives

The purpose of the assessment was to identify key flora and vegetation values within the Survey Area to inform the Environmental Impact Assessment (EIA) process and approvals applications to develop the AIP.

The specific objectives of the assessment were to:

- Undertake a desktop assessment including relevant database searches and a literature review to compile and summarise existing records of flora and vegetation (including conservation significant flora and ecological communities) in the vicinity of the Survey Area
- Undertake two phases of sampling using quadrats and relevés to identify and describe the vegetation and flora occurring within the Survey Area
- Undertake targeted searching for flora of conservation significance within the Survey Area
- Compile an inventory of vascular flora based on the results of the field survey
- Produce vegetation and condition mapping based on the results of the field survey
- Extrapolate vegetation mapping to provide a map of indicative vegetation types within the area that could not be assessed
- Produce a flora and vegetation assessment report
- Supply a geospatial data package prepared in accordance with Index of Biodiversity Surveys for Assessments (IBSA) requirements.

This report presents the background, methods, results, and discussion of the two-phase detailed flora and vegetation assessment undertaken to support the above objectives. Guidance used for the completion of these objectives are listed in Section 2.1 below.

Legend

- Local Roads
- Weather Stations
- Survey Area

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2020
- OTHER DATA SOURCED LANDGATE 2020
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020
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360 environmental
a 10 Bermondsey St, West Leederville, 6007 WA
t (08) 9388 8360
f (08) 9381 2360
w www.360environmental.com.au

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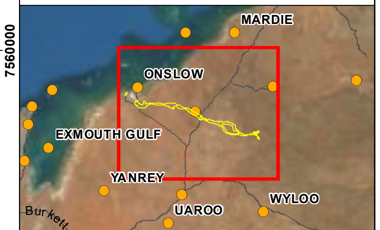
LOCALITY MAP



PROJECT ID	DATE
4441 007	01/09/2021

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GDA2020 MGA Zone 50

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LFV	MS	MS	03

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 1
Survey Area

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F01 Survey Area.mxd

2 Background

2.1 Protection of Flora and Vegetation

Western Australian (WA) flora and vegetation is protected formally and informally by legislative and non-legislative measures, which are as follows:

Legislative measures:

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

Non-legislative measures:

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

These protection mechanisms are supported by guidance documents published by the Environmental Protection Authority (EPA) and Department of Agriculture, Water, and the Environment (DAWE):

- Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (Environmental Protection Authority, 2016b)
- Matters of National Environmental Significance Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment, 2013).

Conservation codes used throughout this report are in accordance with Conservation Codes for WA Flora and Fauna (Department of Biodiversity Conservation and Attractions, 2020a) and Definitions, Categories and Criteria for Threatened and Priority Ecological Communities (Department of Environment and Conservation, 2013).

2.2 Biophysical Environment

2.2.1 Climate

Two Bureau of Meteorology (BoM) weather stations were consulted due to the large size of the Survey Area. The closest long-term BoM weather stations with a complete dataset are Onslow Airport (Station 5017) and Pannawonica Station (Station 5069), located approximately 9 km north of the western end of the Survey Area, and 45 km north of the eastern end of the Survey Area respectively (Figure 1).

The long-term mean minimum temperature for Onslow Airport ranged from 13.1˚C (July) to 25.1˚C (February) (1940 to 2021) and the long-term mean maximum temperature ranged from 25.5˚C (July) to 36.5˚C (January) (Figure 2) (Bureau of Meteorology, 2021).

The long-term mean minimum temperature for Pannawonica ranged from 12.6˚C (July) to 25.2˚C (January and February) (1971 to 2021) and the long-term mean maximum temperature ranged from 26.7˚C (July) to 41.0˚C (January) (Figure 2) (Bureau of Meteorology, 2021).

The long-term annual average rainfall for Onslow Airport is 307.7 millimetres (mm) (Bureau of Meteorology, 2021). In 2020, the Onslow Airport weather station recorded 77.4 mm of rainfall, which is 230.3 mm below the long-term average of 307.7 mm (Bureau of Meteorology, 2021). The station recorded 253.6 mm of rainfall in January to May 2021, which is 27.6 mm above the long-term average of 226.0 mm for the same period (Bureau of Meteorology, 2021).

The long-term annual average rainfall for Pannawonica is 403.1 millimetres (mm) (Bureau of Meteorology, 2021). In 2020, the Pannawonica weather station recorded 263.9 mm of rainfall, which is 139.2 mm below the long-term average of 403.1 mm (Bureau of Meteorology, 2021). The station recorded 386.6 mm of rainfall in January to May 2021, which is 80.9 mm above the long-term average of 305.7 mm for the same period (Bureau of Meteorology, 2021).

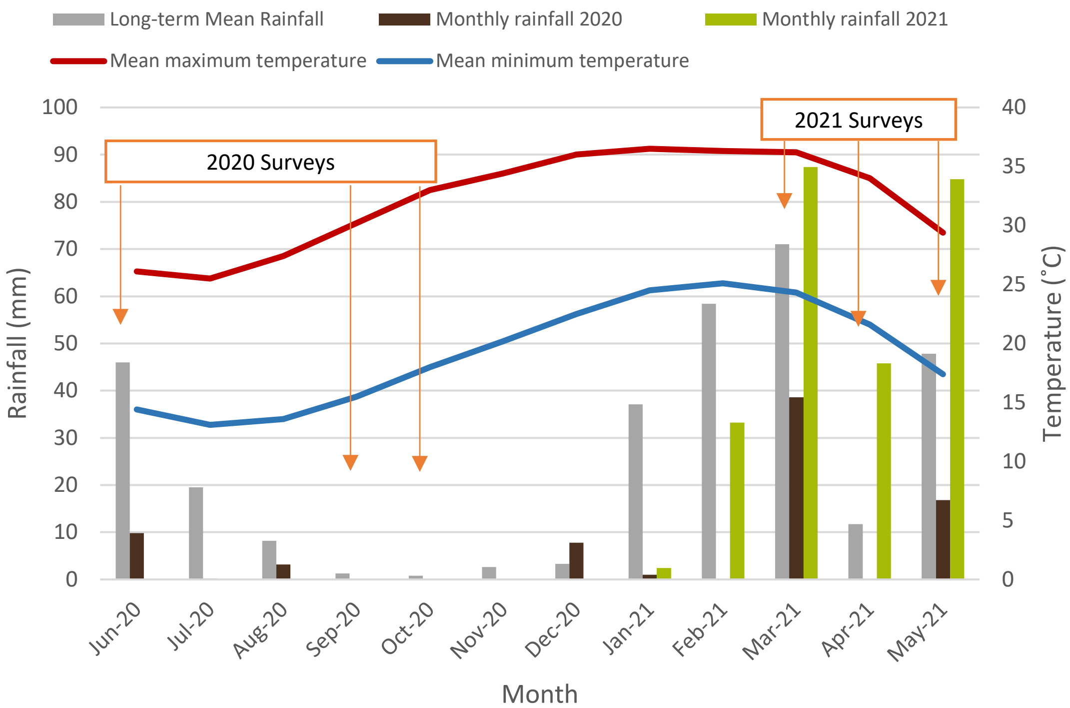


Figure 2: Long term and Monthly Total Rainfall, Maximum and Minimum Temperatures for Onslow Airport (5017) Weather Station (Bureau of Meteorology, 2021).

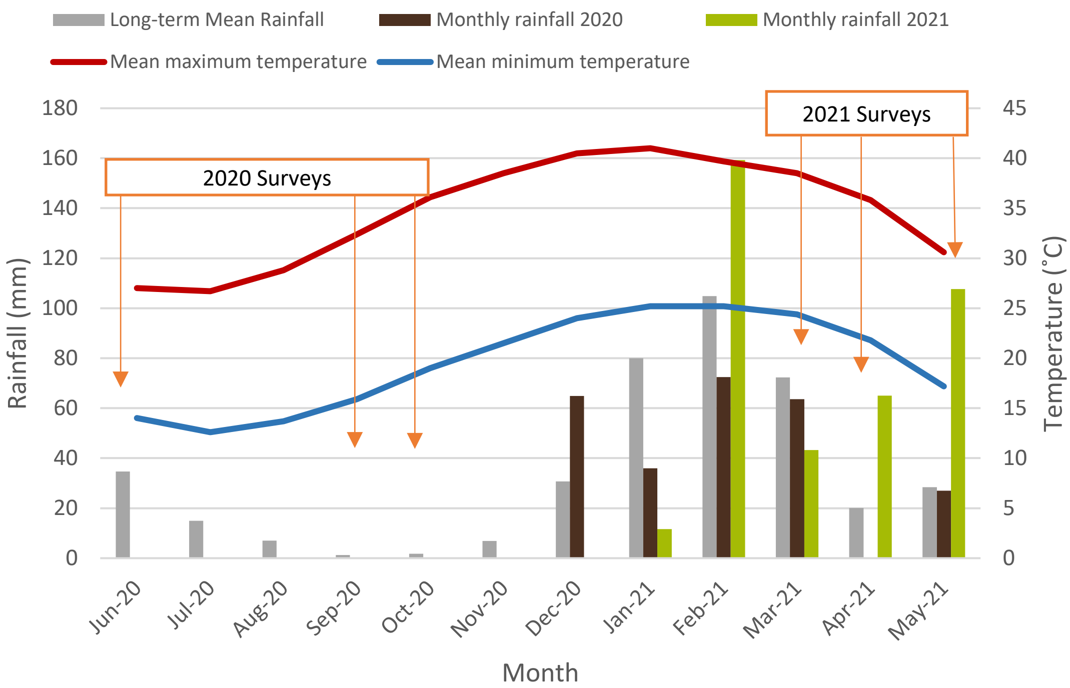


Figure 3: Long term and Monthly Total Rainfall, Maximum and Minimum Temperatures for Pannawonica (5069) Weather Station (Bureau of Meteorology, 2021).

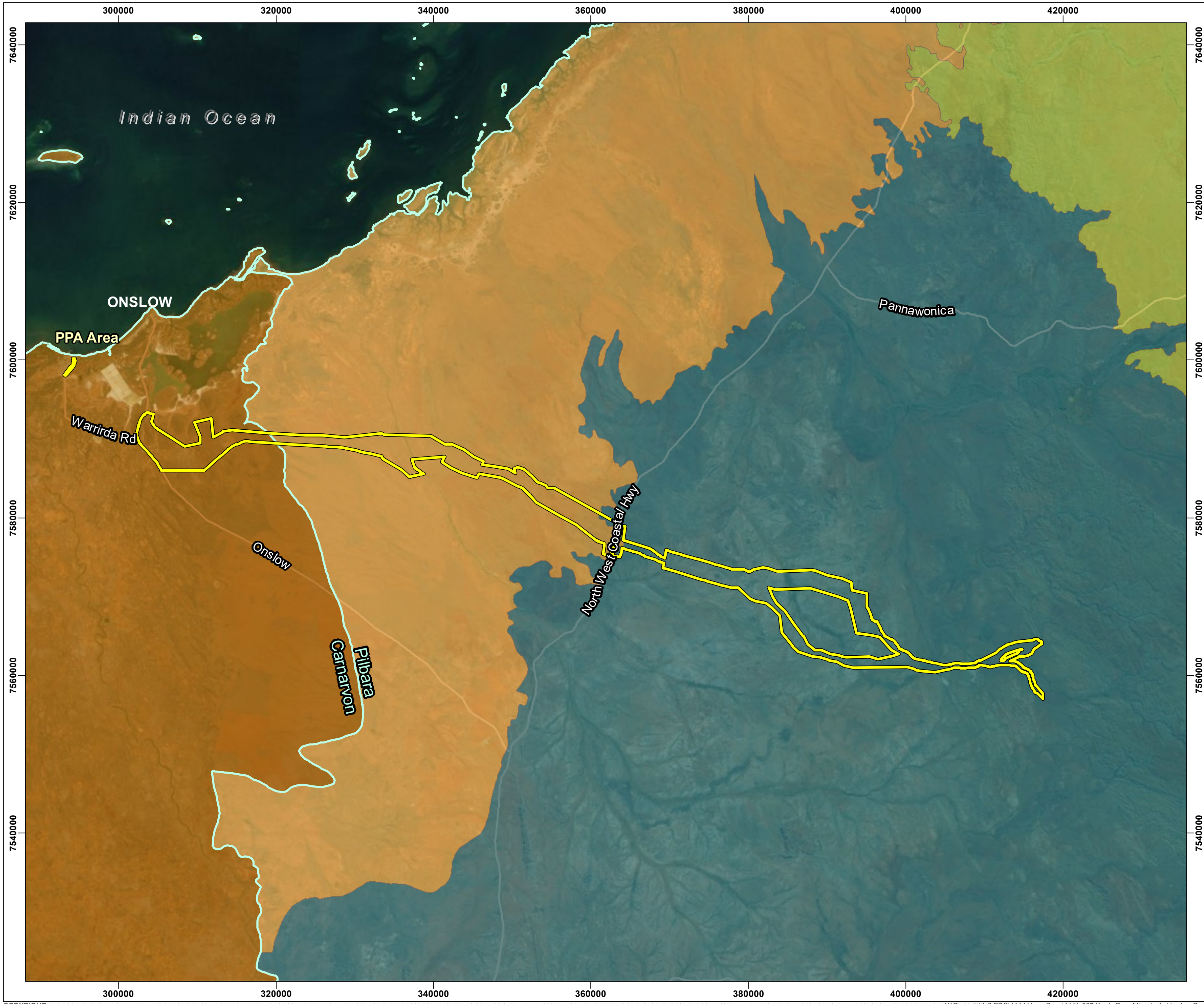
2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions were subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Survey Area spans two IBRA bioregions, and three IBRA subregions (Table 1; Figure 4).

Table 1: IBRA Regions and Subregions within the Survey Area

IBRA Region	Subregion (code)	Description
Carnarvon	Cape Range (CAR01)	"The Carnarvon bioregion is composed of quaternary alluvial, aeolian and marine sediments overlying Cretaceous strata. A mosaic of saline alluvial plains with samphire and saltbush low shrublands, Bowgada low woodland on sandy ridges and plains, Snakewood scrub on clay flats, and tree to shrub steppe over hummock grasslands on and between red sand dune fields. Limestone strata with *Acacia stuartii* or *A. bivenosa* shrubland outcrop in the north, where extensive tidal flats in sheltered embayments support mangal." (Kendrick and Mau, 2002).
Pilbara	Hamersley (PIL03)	"PIL3 is the Southern section of the Pilbara Craton. Mountainous area of Proterozoic sedimentary ranges and plateaux, dissected by gorges (basalt, shale, and dolerite). Mulga low woodland over bunch grasses on fine textured soils in valley floors, and *Eucalyptus leucophloia* over *Triodia brizoides* on skeletal soils of the ranges. The climate is Semi-desert tropical, average 300mm rainfall, usually in summer cyclonic or thunderstorm events.

IBRA Region	Subregion (code)	Description
		Winter rain is not uncommon. Drainage into either the Fortescue (to the north), the Ashburton to the south, or the Robe to the west. Subregional area is 6,215,092ha." (Kendrick, 2001).
	Roebourne (PIL04)	"Quaternary alluvial and older colluvial coastal and subcoastal plains with a grass savannah of mixed bunch and hummock grasses, and dwarf shrub steppe of *Acacia stellaticeps* or *A. pyrifolia* and *A. inaequilatera*. Uplands are dominated by *Triodia* hummock grasslands. Ephemeral drainage lines support *Eucalyptus victrix* or *Corymbia hamersleyana* woodlands. Samphire, *Sporobolus* and mangal occur on marine alluvial flats and river deltas. Resistant linear ranges of basalts occur across the coastal plains, with minor exposures of granite. Islands are either Quaternary sand accumulations, or composed of basalt or limestone, or combinations of any of these three. Climate is arid (semi-desert) tropical with highly variable rainfall, falling mainly in summer. Cyclonic activity is significant, with several systems affecting the coast and hinterland annually. Subregional area is 2,008,983ha." (Kendrick and Stanley, 2001).



Legend

- Survey Area
- Local Roads
- IBRA Regions

IBRA Subregions

- Cape Range
- Chichester
- Hamersley
- Roebourne

- NOTE THAT POSITION ERRORS CAN BE >5M IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2019
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a 10 Bermondsey St, West Leederville, 6007 WA
t (08) 9388 8360
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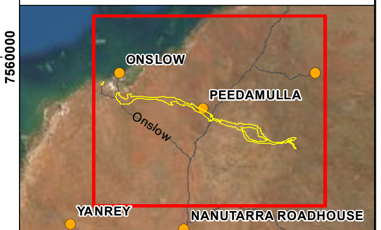

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Flora and Vegetation Assessment

Figure 4
IBRA Subregions

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2.2.3 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of WA described broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (Department of Agriculture and Food WA, 2012). The Survey Area intercepts 16 land systems (Table 2; Figure 5).

Table 2: Land systems within the Survey Area

Land System		Description (Department of Agriculture and Food WA, 2012)
Name	Code	
Cane System	202Cn	Alluvial plains and flood plains supporting snakewood shrublands, soft and hard spinifex grasslands and tussock grasslands.
Capricorn System	296Cp	Rugged sandstone hills, ridges, stony footslopes and interfluves supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs.
Dune System	201Du	Dune fields supporting soft spinifex and minor hard spinifex grasslands.
Giralia System	203Gi	Sandy plains with linear dunes and broad sandy swales supporting hummock grasslands of hard and soft spinifex with scattered acacia shrubs.
Houndstooth System	296Ht	Rough shale hills, stony plains and broad drainage floors supporting hard spinifex grasslands and sparse shrubs.
Littoral System	201Li	Bare coastal mudflats (unvegetated), samphire flats, sandy islands, coastal dunes, and beaches, supporting samphire low shrublands, sparse acacia shrublands and mangrove forests.
Nanutarra System	296Nn	Low mesas and hills of sedimentary rocks supporting soft and hard spinifex shrubby grasslands.
Newman System	285Ne	Rugged jaspilite plateaux, ridges and mountains supporting hard spinifex grasslands.
Onslow System	201On	Undulating sandplains, dunes and level clay plains supporting soft spinifex grasslands and minor tussock grasslands.
Peedamulla System	202Pe	Gravelly plains supporting hard spinifex grasslands and minor snakewood shrublands.
Robe System	296Ro	Low plateaux, mesas and buttes of limonite supporting soft spinifex and occasionally hard spinifex grasslands.
Sherlock System	296Sk	Stony alluvial plains supporting snakewood shrublands with patchy tussock grasses and spinifex grasslands.
Stuart System	296St	Gently undulating stony plains supporting hard and soft spinifex grasslands and snakewood shrublands.
Tanpool System	202Tp	Stony plains and low ridges of sandstone and other sedimentary rocks supporting hard spinifex grasslands and snakewood shrublands.

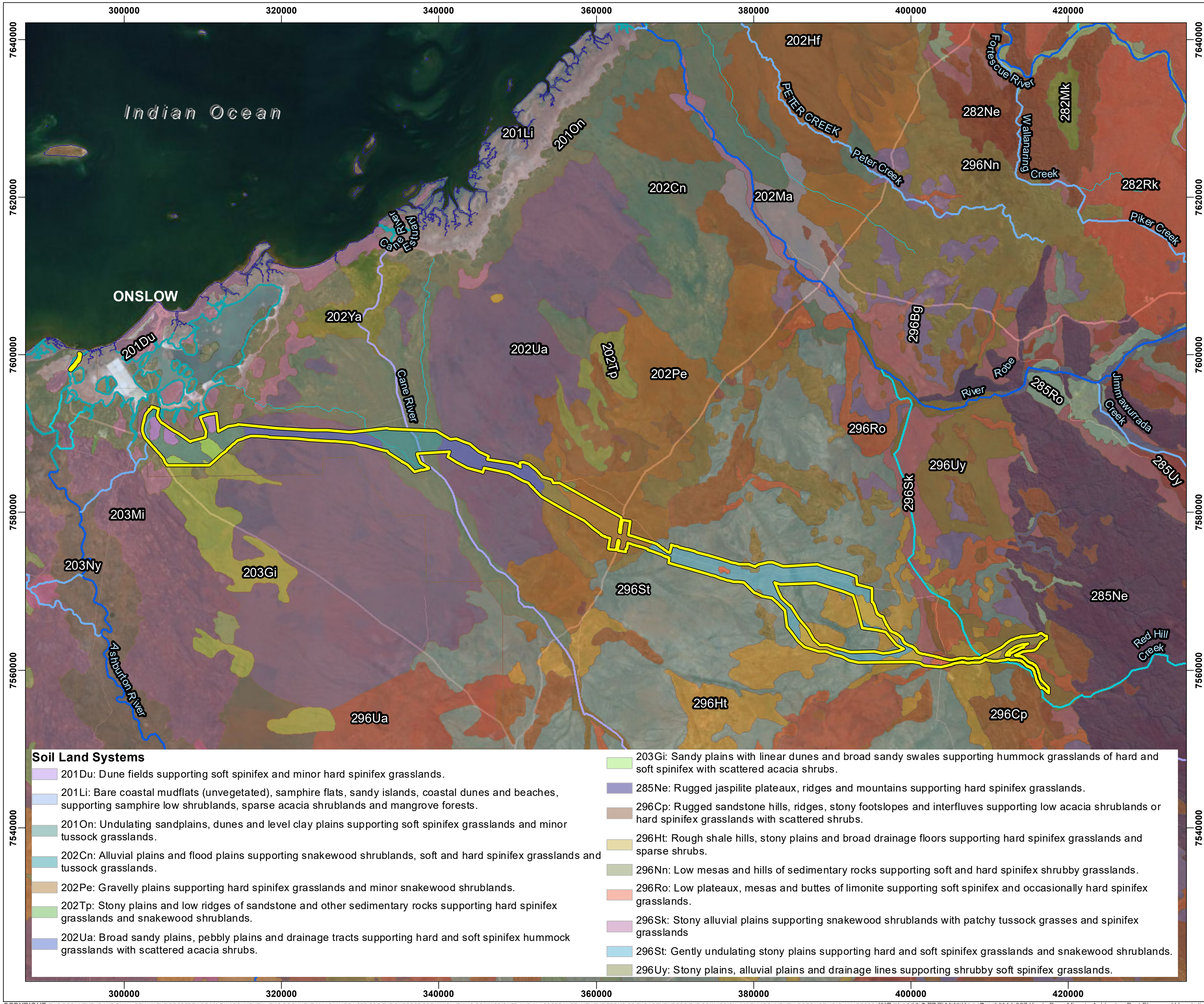
Land System		Description (Department of Agriculture and Food WA, 2012)
Name	Code	
Uaroo System	202Ua	Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs.
Urandy System	296Uy	Stony plains, alluvial plains and drainage lines supporting shrubby soft spinifex grasslands.

2.2.4 Hydrography

Hydrographic features intersecting and in the vicinity of the Survey Area are described in Table 3 and shown in Figure 5 (Department of Water and Environmental Regulation, 2016).

Table 3: Hydrographical Features in the Vicinity of the Survey Area

Hydrographical Feature	Description
Cane River	Major river flowing north-westerly from its source located west of the Hamersley Range, through the Cane River Conservation Park and the Onslow Coastal plain, before discharging into the Indian Ocean at Yardie Landing approximately 35 km northeast of Onslow.
Red Hill Creek	Major tributary merging with Mungarathoona Creek and joining the Robe River. The Red Hill Creek is 37.9 km long, and its elevation varies from 215 m to 116 m over its length.
Minor Tributary of the Cane River	A minor tributary that traverses the Survey Area and flows between the Cane River and the Onslow Estuarine Tidal Flat.
Minor Tributary of the Cane River	A minor tributary that traverses the Survey Area. The minor tributary flows parallel to the Cane River before joining it.
Significant Stream	A significant stream that traverses the western end of the Survey Area and flows into the Onslow estuarine tidal flat.
Onslow Estuarine Tidal Flat	Estuarine tidal flat subject to tidal inundation. The isolated north-western portion of the Survey Area, located within Pilbara Port Authority (PPA area) tenure (illustrated in Figure 1 above) is less than one kilometre south of the coastline within this hydrographic feature. Regular seasonal flooding is a natural part of the ecosystem in this location, triggered by the passage of tropical cyclones and storms within the region.



Legend

- Survey Area
- Roads

Hydrography

- Coastal Waterline
- Estuarine
- Mainstream
- Major River
- Minor River
- Significant Stream
- Major Tributary
- Minor Tributary

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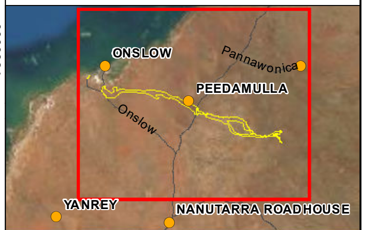

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Flora and Vegetation Assessment

Figure 5
Soil Land Systems and Hydrography

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2.3 Biological Environment

2.3.1 Broad Vegetation Associations

Mapping of pre-European broad vegetation within WA was completed on a broad scale (1:1,000,000) by Beard (1976). These vegetation types were later re-assessed by Shepherd *et al.* (2002), resulting in 819 vegetation associations within WA.

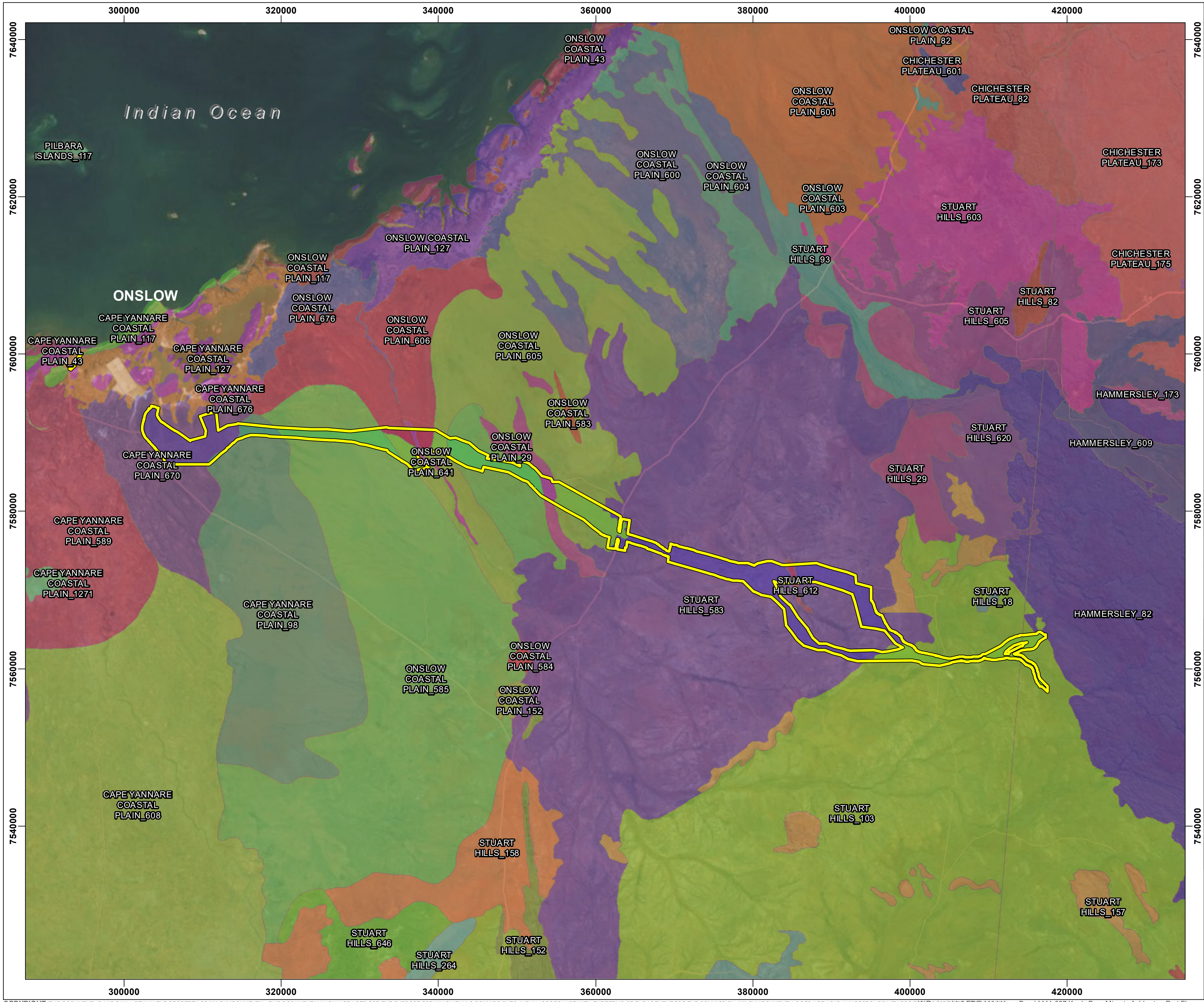
Thirteen vegetation systems associations are mapped within the Survey Area (Table 4, Figure 6). Descriptions of these vegetation systems associations and their representation on a sub-regional scale are provided in Table 4.

Table 4: Representation of Broad Vegetation Types within the relevant Subregion (Department of Biodiversity Conservation and Attractions, 2019a)

System and Vegetation Association	Description	Extent				
		Pre-European (ha)	Current (ha)	Remaining (%)	Current Extent Managed in DBCA Lands (%)*	Within Survey Area (ha)
Representation across the Cape Range (CAR01) sub-region						
Cape Yannare Coastal Plain 127	Tidal mud flat	100,987.52	99,790.74	98.81	0.42	39.88
Cape Yannare Coastal Plain 670	Shrub-steppe. Hummock grassland with scattered shrubs or mallee (*Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp.)	147,808.61	147,792.06	99.99	11.67	4717.37
Cape Yannare Coastal Plain 98	Shrub-steppe. Hummock grassland with scattered shrubs or mallee (*Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp.)	221,820.23	221,812.78	100.00	25.04	831.31
Cape Yannare Coastal Plain 676	Tecticornia spp. communities in saline areas	29,193.60	28,442.66	97.43	15.87	13.59
Representation across the Hamersley (PIL03) sub-region						
Hamersley 82	Hummock grassland with scattered bloodwoods and snappy gum (*Triodia* spp., *Corymbia dichromophloia*, *Eucalyptus leucophloia*)	2,177,573.90	2,165,224.21	99.43	13.57	3.40
Onslow Coastal Plain 605	Shrub-steppe. Hummock grassland with scattered shrubs or mallee (*Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp.)	26,057.99	26,057.99	100.00	0.01	4310.13
Stuart Hills 103	Shrub-steppe. Hummock grassland with scattered shrubs or mallee (*Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp.)	614,056.46	613,923.76	99.98	4.99	3094.31

System and Vegetation Association	Description	Extent				
		Pre-European (ha)	Current (ha)	Remaining (%)	Current Extent Managed in DBCA Lands (%)*	Within Survey Area (ha)
Stuart Hills 583	Sparse shrub-steppe. Hummock grassland with sparse shrubs (*Triodia* spp., *Acacia* spp.)	240,724.25	240,724.25	100.00	41.16	10624.14
Stuart Hills 612	Low woodland or open low woodland. Other acacia, banksia, peppermint, cypress pine, casuarina, York gum, *Acacia* spp., *Banksia* spp., *Agonis flexuosa*, *Callitris* spp., *Allocasuarina* spp., *Eucalyptus loxophleba*.	476.16	476.16	100.00	N/A	186.76
Representation across the Roebourne (PIL04) sub-region						
Onslow Coastal Plain 29	Low woodland, open low woodland, or sparse woodland. Mulga (*Acacia aneura*) and associated species	5,235.61	5,235.61	100.00	N/A	479.9
Onslow Coastal Plain 585	Scrub or very open scrub / Grass-steppe	144,781.51	144,769.91	99.99	62.89	4870.21
Onslow Coastal Plain 606	Shrub-steppe. Hummock grassland with scattered shrubs or mallee (*Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp.)	32,103.70	32,103.70	100.00	N/A	936.80
Onslow Coastal Plain 641	Woodland other. Wheatbelt; York gum, salmon gum etc. (*Eucalyptus loxophleba, E. salmonophloia*). Goldfields; gimlet, redwood etc. (*E. salubris, E. oleosa*). Riverine; rivergum (*E. camaldulensis*). Tropical; messmate, woolybush	2,117.88	2,117.83	100.00	10.23	130.49

*As a portion of the current extent



Legend

Survey Area

Broad Vegetation Types

- CAPE YANNARE COASTAL PLAIN_127: Tidal mud flat
- CAPE YANNARE COASTAL PLAIN_670: Shrub-steppe
- CAPE YANNARE COASTAL PLAIN_676: Samphire
- CAPE YANNARE COASTAL PLAIN_98: Shrub-steppe
- HAMMERSLEY_82: Low tree-steppe
- ONSLOW COASTAL PLAIN_29: Low woodland, open low woodland or sparse woodland
- ONSLOW COASTAL PLAIN_585: Scrub or very open scrub / Grass-steppe
- ONSLOW COASTAL PLAIN_605: Shrub-steppe
- ONSLOW COASTAL PLAIN_606: Shrub-steppe
- ONSLOW COASTAL PLAIN_641: Woodland other
- STUART HILLS_103: Shrub-steppe
- STUART HILLS_583: Sparse shrub-steppe
- STUART HILLS_612: Low woodland or open low woodland

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

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HORIZONTAL DATUM AND PROJECTION
GDA2020 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 6

Broad Vegetation Types

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F06 Broad Vegetation Types.mxd

2.3.2 Environmentally Sensitive 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 (Western Australian Government, 2005). ESAs are defined as:

(a) A declared World Heritage property as defined in section 13 of the Environment Protection and Biodiversity Conservation Act 1999 of the Commonwealth

(b) An area that is included on the Register of the National Estate, because of its natural heritage value, under the Australian Heritage Council Act 2003 of the Commonwealth

(c) A defined wetland and the area within 50 m of the wetland

(d) The area covered by vegetation within 50 m of rare flora, to the extent to which the vegetation is continuous with the vegetation in which the rare flora is located

(e) The area covered by a threatened ecological community

(f) A Bush Forever site listed in 'Bush Forever' Volumes 1 and 2 (2000), published by the Western Australia Planning Commission, except to the extent to which the site is approved to be developed by the Western Australia Planning Commission, as described in subclause (3)

(g) The areas covered by the following policies:

    (i) The Environmental Protection (Gnangara Mound Crown Land) Policy 1992

    (ii) The Environmental Protection (Western Swamp Tortoise) Policy 2002.

(h) The areas covered by the lakes to which the Environmental Protection (Swan Coastal Plain Lakes) Policy 1992 applies

(i) Protected wetlands as defined in the Environmental Protection (South West Agricultural Zone Wetlands) Policy 1998

(j) Areas of fringing native vegetation in the policy area as defined in the Environmental Protection (Swan and Canning Rivers) Policy 1998.

No ESAs occur within the Survey Area (Figure 7). The nearest ESAs are:

- A series of offshore islands, the closest being Ashburton Island, approximately 13 km north of the PPA portion of the Survey Area.
- A 96.9 km stretch of coastline on the eastern side of the Exmouth Gulf. The ESA is located approximately 30.0 km west of the western portion of the Survey Area, and 25.4 km southwest of the PPA portion of the Survey Area.
- A series of wetlands surrounding the Fortescue River, which are located approximately 97.8 km northeast of the eastern end of the Survey Area.
- A defined area north of Millstream Chichester National Park, which is located approximately 106.9 km northeast of the eastern end of the Survey Area.
- A defined area located 102.4 km south of the eastern end of the Survey Area.

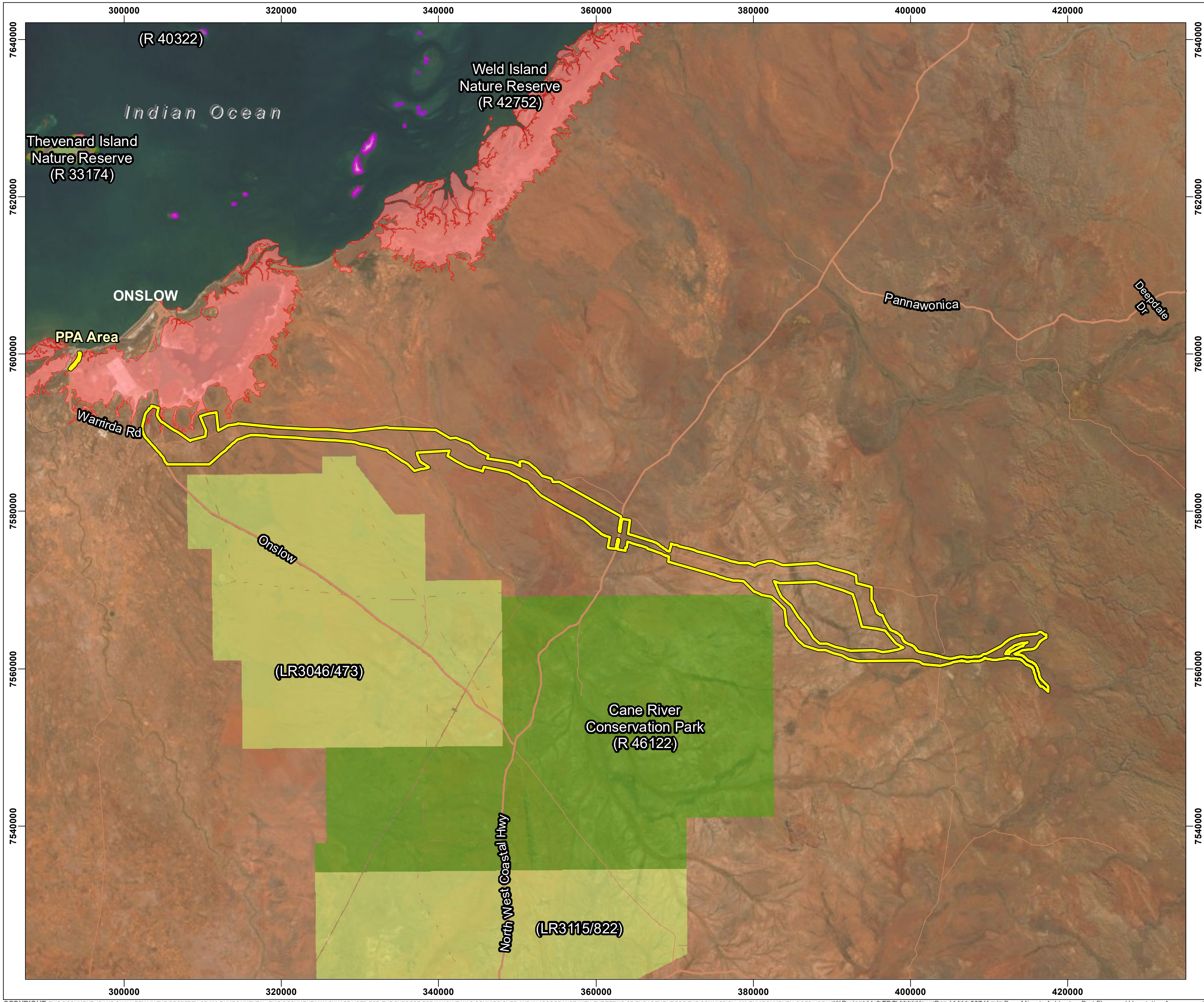
2.3.3 Conservation Areas

A small portion of the Survey Area (approximately 19 ha) overlaps the north-eastern portion of the Cane River Conservation Park, which is vested under the Conservation Commission of Western Australia (Figure 7).

Other conservation areas near the Survey Area are (Department of Biodiversity Conservation and Attractions, 2019b):

- Unallocated Crown Land (LR3046/473), vested under the department of Planning, Lands and Heritage – located approximately 1 km south of the Survey Area
- Unallocated Crown Land (LR3115/822), vested under the department of Planning, Lands and Heritage – located approximately 40 km south of the Survey Area
- Barlee Range Nature Reserve (R 26808), vested under the Conservation Commission of Western Australia – located 104 km south of the Survey Area
- Millstream Chichester National Park (R 30071), vested under the Conservation Commission of Western Australia – located 98 km northeast of the eastern end of the Survey Area.

In addition, the Onslow estuarine tidal flat, which overlaps the northwestern portion of the Survey Area, is listed in the EPA Redbook as a Recommended Conservation Reserve (Environmental Protection Authority, 2017).



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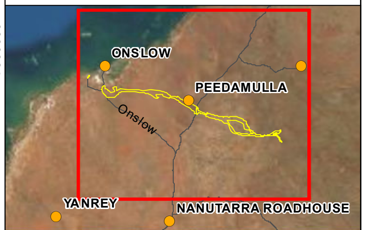

PROJECT ID	DATE
4441 007	01/09/2021

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GDA2020 MGA Zone 50

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment
Figure 7
Conservation and Environmentally Sensitive Areas

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3 Methods

The detailed flora and vegetation survey documented by this report was undertaken in accordance with relevant EPA (Environmental Protection Authority, 2016b) and DAWE guidelines (Department of the Environment, 2013) (see Section 2.1).

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Survey Area and surrounds was compiled prior to the field survey (see Sections 2.2 and 2.3). Historical vegetation mapping conducted by Beard (1976) and Shepherd *et al.* (2002), land systems mapping (Department of Agriculture and Food WA, 2012), and the IBRA classification system (Kendrick, 2001; Kendrick and Stanley, 2001; Kendrick and Mau, 2002) were consulted to provide broad contextual knowledge of the vegetation units likely to be encountered within the Survey Area.

The literature review also considered a selection of biological reports detailing assessments undertaken in the region, that were either publicly available or provided by MRL:

- West Pilbara Project Ashburton East Rail Route Flora and Vegetation Scoping Study (Astron Environmental Services, 2008a)
- West Pilbara Project Onslow Rail Route Flora and Vegetation Survey (Astron Environmental Services, 2008b)
- Flora and Vegetation of the CS2 – Tubridgi – Wheatstone Gas Pipeline Project Area (Mattiske Consulting Pty Ltd, 2013)
- Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)
- Detailed flora and vegetation survey for the Pilbara Waste Management Facility (Phoenix Environmental Sciences, 2018)
- Flora, Vegetation and Fauna Habitat Assessment at Bourne Highway (Rio Tinto Iron Ore, 2018)
- Eliwana and Flying Fish Level 2 Flora and Vegetation Survey (Phase 2) (Ecoscape (Australia) Pty Ltd, 2015).

3.1.2 Database Searches

Database searches were undertaken to compile a list of potential flora and identify potential conservation significant flora and ecological communities within or surrounding the Survey Area (Table 5). The search area for each parameter was varied to reflect distances recommended by DBCA. The search areas are herein referred to collectively as the Study Area.

Currently listed Priority Ecological Communities (PEC) and TECs that occur within the Pilbara and Carnarvon bioregions were examined to determine if any corresponded with the Survey Area (Department of Biodiversity Conservation and Attractions, 2018; Department of Biodiversity Conservation and Attractions and DBCA, 2020). In addition, an EPBC Protected Matters Search

(PMST) was undertaken to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Survey Area (Department of Agriculture Water and the Environment, 2020a).

Table 5: Database Searches

Database Name	Date Received	Search Target	Search Area
Threatened and Priority Ecological Communities database search (Department of Biodiversity Conservation and Attractions, 2020c) – DBCA Reference 12-0620EC	12 June 2020	TECs and PECs	50 km buffer around the Survey Area
Threatened and Priority Flora List (TPFL) database search (Department of Biodiversity Conservation and Attractions, 2020d) – DBCA Reference 33-0520FL	25 May 2020	Threatened and Priority Flora	50 km buffer around the Survey Area
Western Australian Herbarium flora database search (Department of Biodiversity Conservation and Attractions, 2020e) – DBCA Reference 33-0520FL	25 May 2020		50 km buffer around the Survey Area
NatureMap (Department of Biodiversity Conservation and Attractions, 2020b)	3 June 2020	Threatened and Priority Flora and inventory of potential flora	20 km buffer around the Survey Area
Protected Matters Search Tool (Department of Agriculture Water and the Environment, 2020a)	3 June 2020	Commonwealth listed Threatened flora and TECs	50 km buffer around the Survey Area

3.1.3 Likelihood of Occurrence

Conservation significant flora taxa identified by the desktop assessment were examined to determine their likelihood of occurrence within the Survey Area, both prior and post field survey. The assessment was completed based on the criteria presented in Table 6.

Table 6: Likelihood of Occurrence Criteria

Rank	Criteria
Previously Recorded	The taxon has been previously recorded in the Survey Area
High (Likely to occur)	• There are existing records of the taxon in close proximity to the Survey Area (within 20 km): ○ The taxon is strongly linked to a specific habitat, which is present in the Survey Area; or ○ The taxon has more general habitat preferences, and suitable habitat is present.
Medium (May potentially occur)	• There are existing records of the taxon from the locality (within 50 km), however: ○ The taxon is strongly linked to a specific habitat, of which only a small amount is present in the Survey Area; or

Rank	Criteria
	○ The taxon has more general habitat preferences, but only some suitable habitat is present. • There is suitable habitat in the Survey Area, but the taxon is recorded infrequently in the locality.
Low (Unlikely to occur)	• The taxon is linked to a specific habitat, which is absent from the Survey Area; or • Suitable habitat is present, however there are no existing records of the taxon from the locality despite reasonable previous search effort in suitable habitat; or • There is some suitable habitat in the Survey Area, however the taxon is very infrequently recorded in the locality.

3.2 Field Surveys

The field surveys were undertaken across seven field trips to collect data from the Survey Area (Table 7). The survey effort is demonstrated in Figure 8. Trips 3 and 5 are not included in this report as they were terrestrial vertebrate fauna surveys.

Table 7: Field Trips

Phase	Trip	Scope	Date	Personnel	Person Field Days
1 (Dry)	1	Establishment of flora sites within the proposed Haul Road alignment on Peedamulla Station.	5 – 15 June 2020	Megan Stone Ben Eckermann Colleen McDonald Lukas Geidans	36
	2	Establishment of flora sites within the proposed Haul Road alignment on Red Hill Station (eastern portion only). Establishment of flora sites within proposed borrow pit areas occurring between Onslow Road and the North West coastal Highway (NWCH) and proposed borrow pit areas adjacent east of NWCH. Establishment of infill flora sites on Peedamulla Station. Targeted Searching on Peedamulla Station and eastern portion of Red Hill Station.	22 Sep - 2 Oct 2020	Megan Stone Simon Colwill Colleen McDonald Bridget Duncan	36
	4	Establishment of flora sites within proposed borrow pit areas occurring east of NWCH, on Peedamulla Station.	27 -30 Oct 2020	Megan Stone Simon Colwill	4

Phase	Trip	Scope	Date	Personnel	Person Field Days
2 (Post Wet)	6	Establishment and sampling of flora sites in proposed Haul Road connecter at the eastern end of the proposed Haul Road Resampling of flora sites established in 2020 Targeted Searching for conservation significant flora	17-24 Mar 2021	Simon Colwill Ben Eckermann Bridget Duncan Grant Buller	24
	7	Resampling of flora sites established in 2020 Targeted Searching with a focus on Priority 1 taxon *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61) and taxa that would not have been present at the time of the 2020 surveys due to low rainfall prior to the surveys)	9 – 16 Apr 2021	Simon Colwill Bridget Duncan Grant Buller Scott Walker	24
	8	Resampling of flora sites established in 2020 Targeted Searching with a focus on taxa that would not have been present at the time of the 2020 surveys due to low rainfall prior to the surveys) Establishment of flora sites and targeted searching within the Pilbara Port Authority portion of the Survey Area	27 Apr – 4 May 2021	Simon Colwill Ben Eckermann Bridget Duncan Grant Buller	24
	9	Establishment of flora sites and targeted searching in additional Survey Area added to the Project April 2021	19 – 24 May 2021	Ben Eckermann Bridget Duncan	8

Legend

- Roads
- Survey Area
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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

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GDA 1994 MGA Zone 50			
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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8a
Survey Effort

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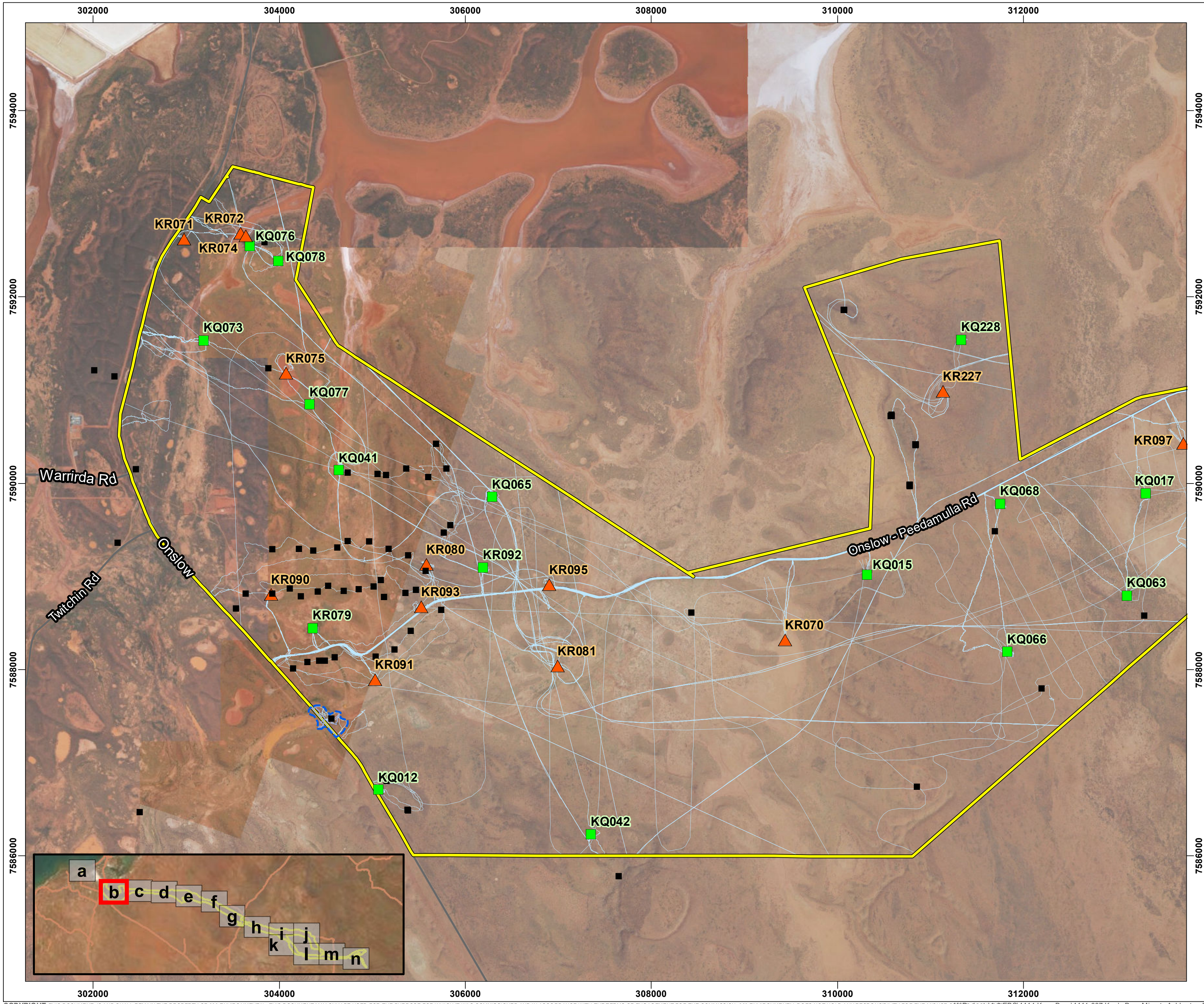

Legend

Roads

Survey Area

Eleocharis papillosa Targeted Search Area

GPS Tracks

GPS Tracks - Targeted Search

Sample Sites

Quadrat

Releve

Mapping Notes

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LOCALITY MAP

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GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8b
Survey Effort

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Legend

- Roads
- Survey Area
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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LOCALITY MAP

PROJECT ID	DATE
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GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8c
Survey Effort

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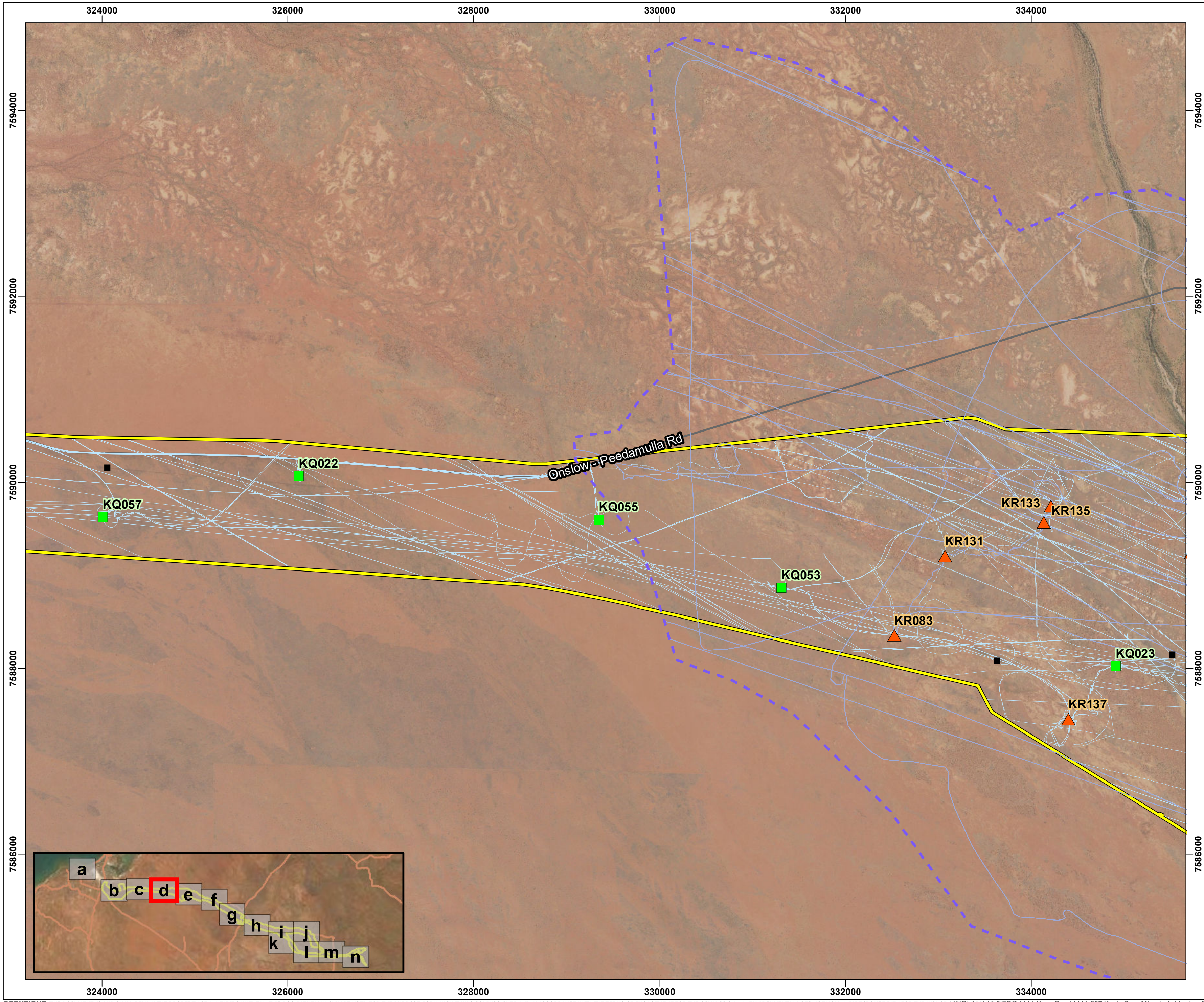

Legend

- Roads
- Survey Area
- *Abutilon* sp. Targeted Search Area
- GPS Tracks
- GPS Tracks - Targeted Search

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8d
Survey Effort

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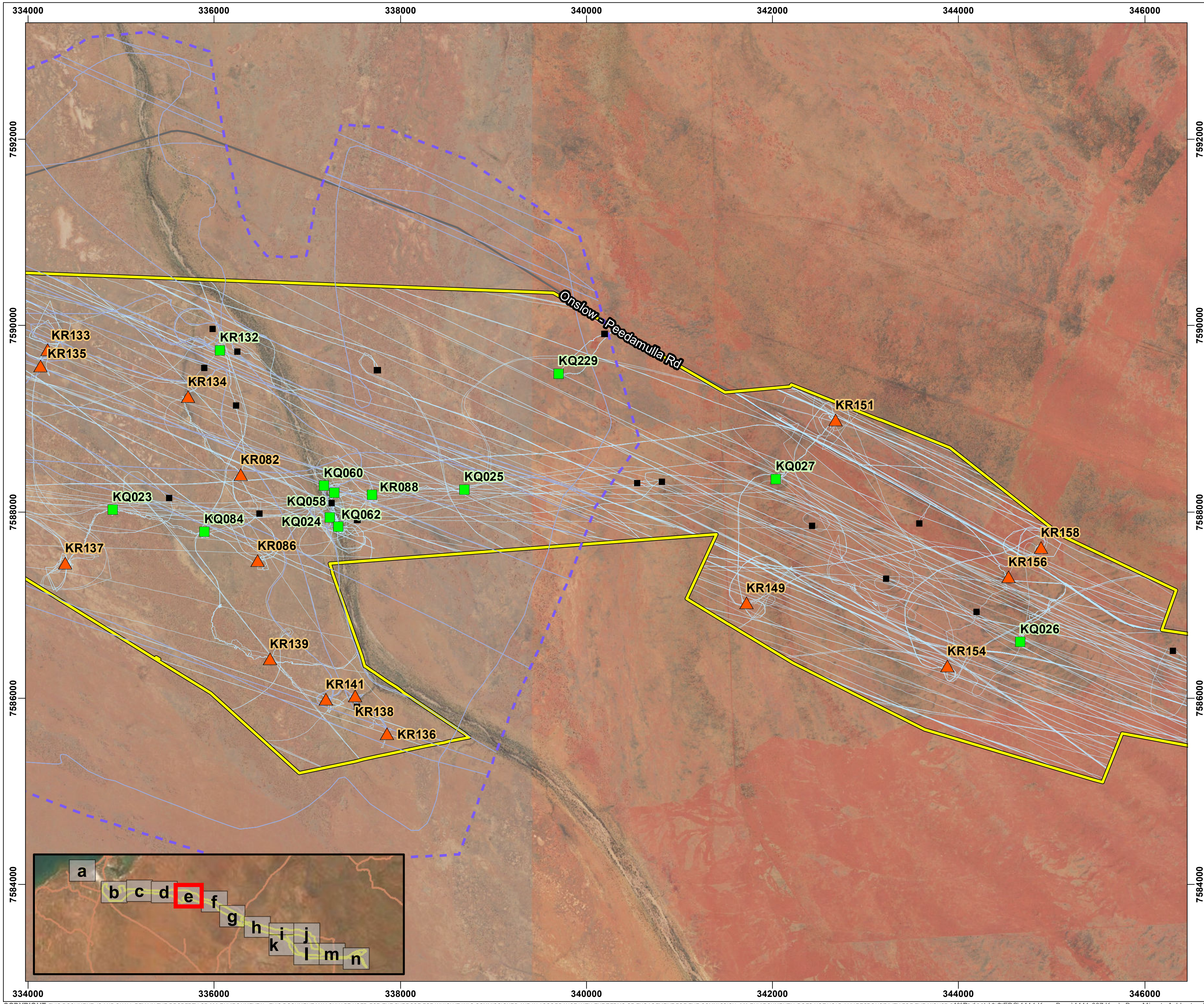

Legend

- Roads
- Survey Area
- *Abutilon* sp. Targeted Search Area
- GPS Tracks
- GPS Tracks - Targeted Search

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8e
Survey Effort

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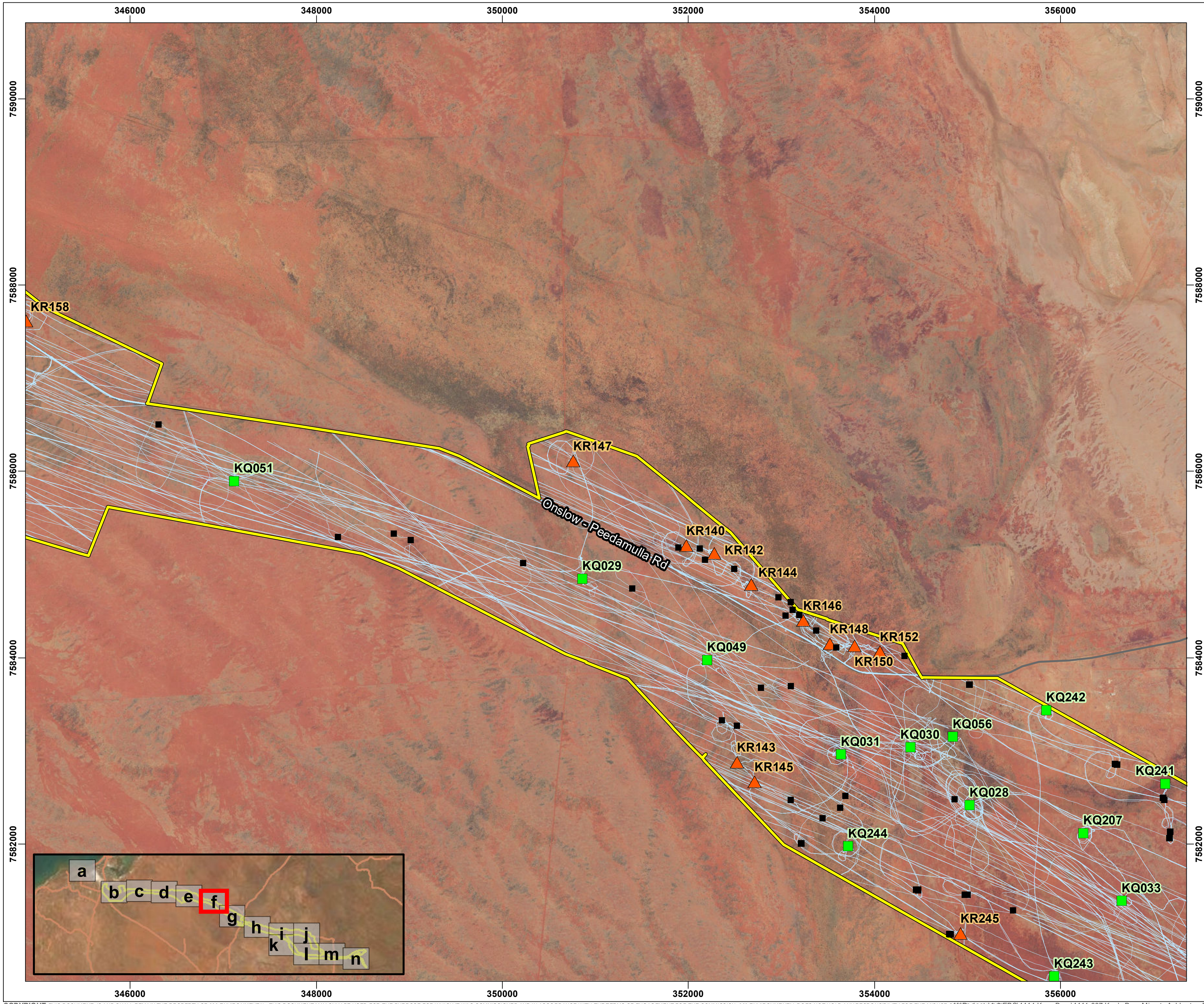

Legend

- Roads
- Survey Area
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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LOCALITY MAP

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Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8f
Survey Effort

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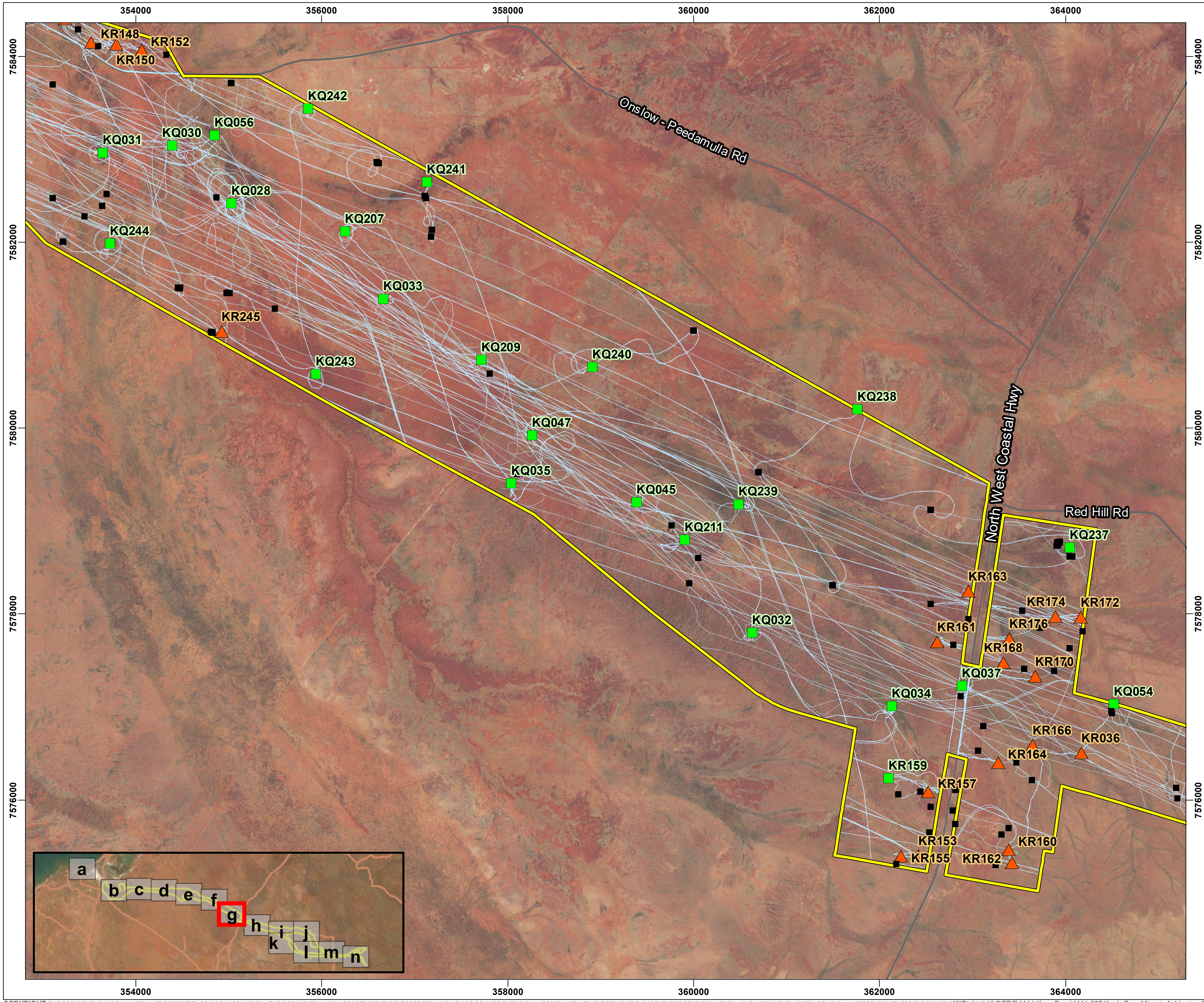

Legend

Roads
Survey
GPS Tracks

Sample Sites

Quadrat
Releve
Mapping Notes

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LOCALITY MAP

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GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8g
Survey Effort

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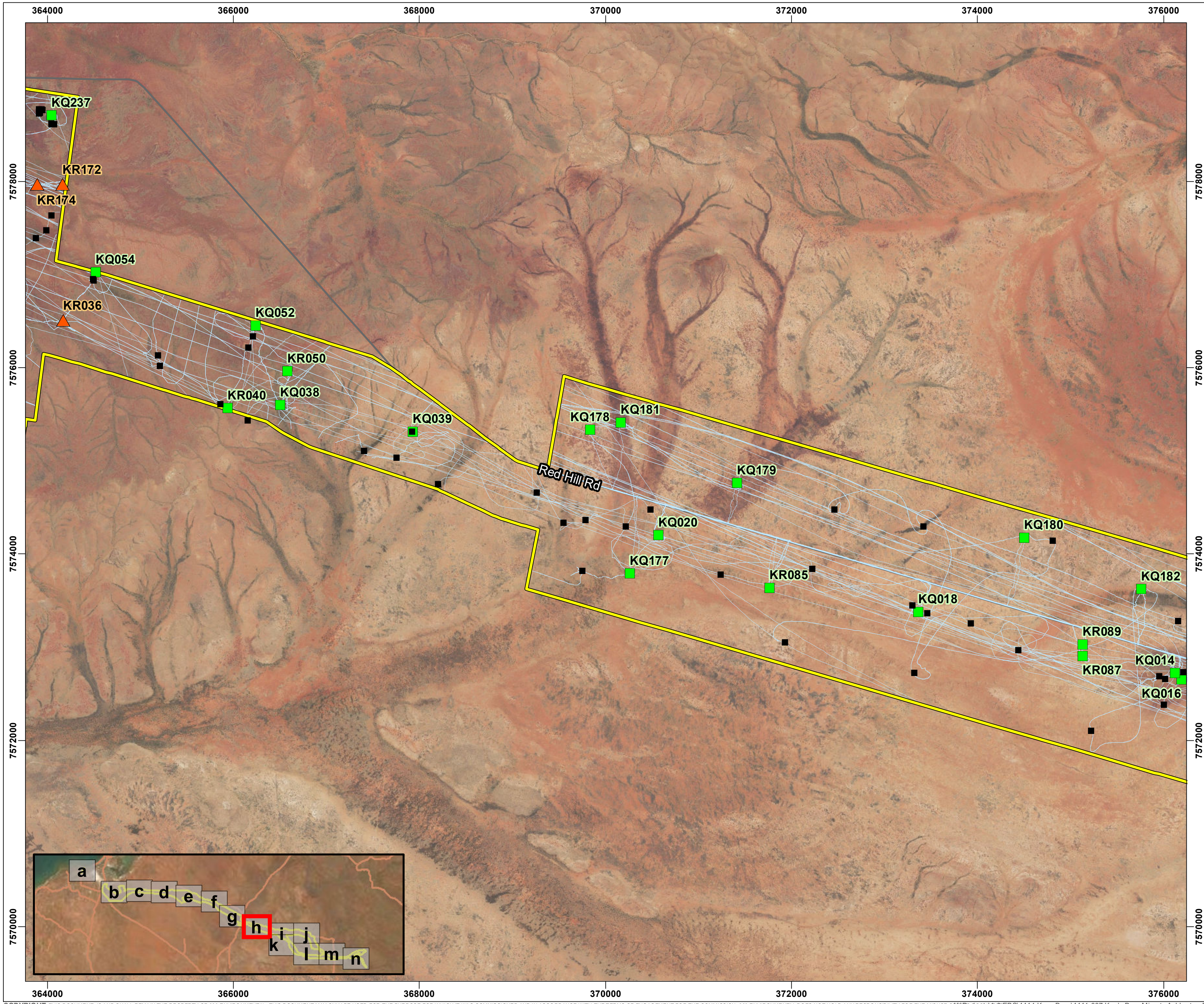

Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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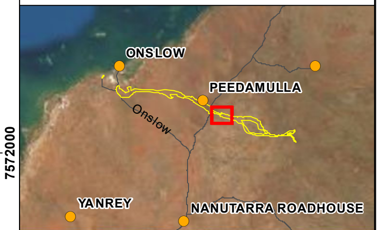

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8h
Survey Effort

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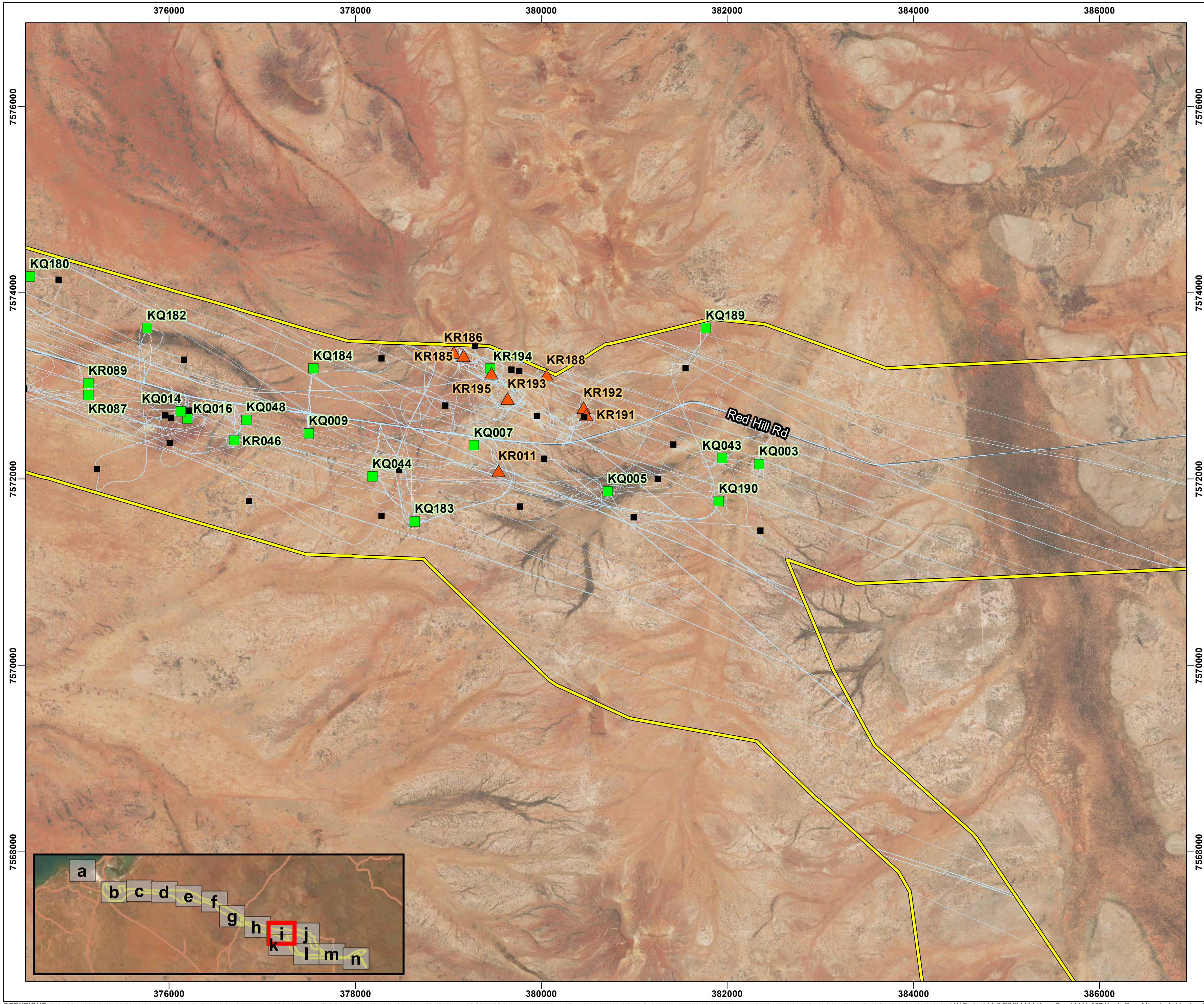

Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2020
- OTHER DATA SOURCED LANDGATE 2020
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020
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4441 007	19/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8i
Survey Effort

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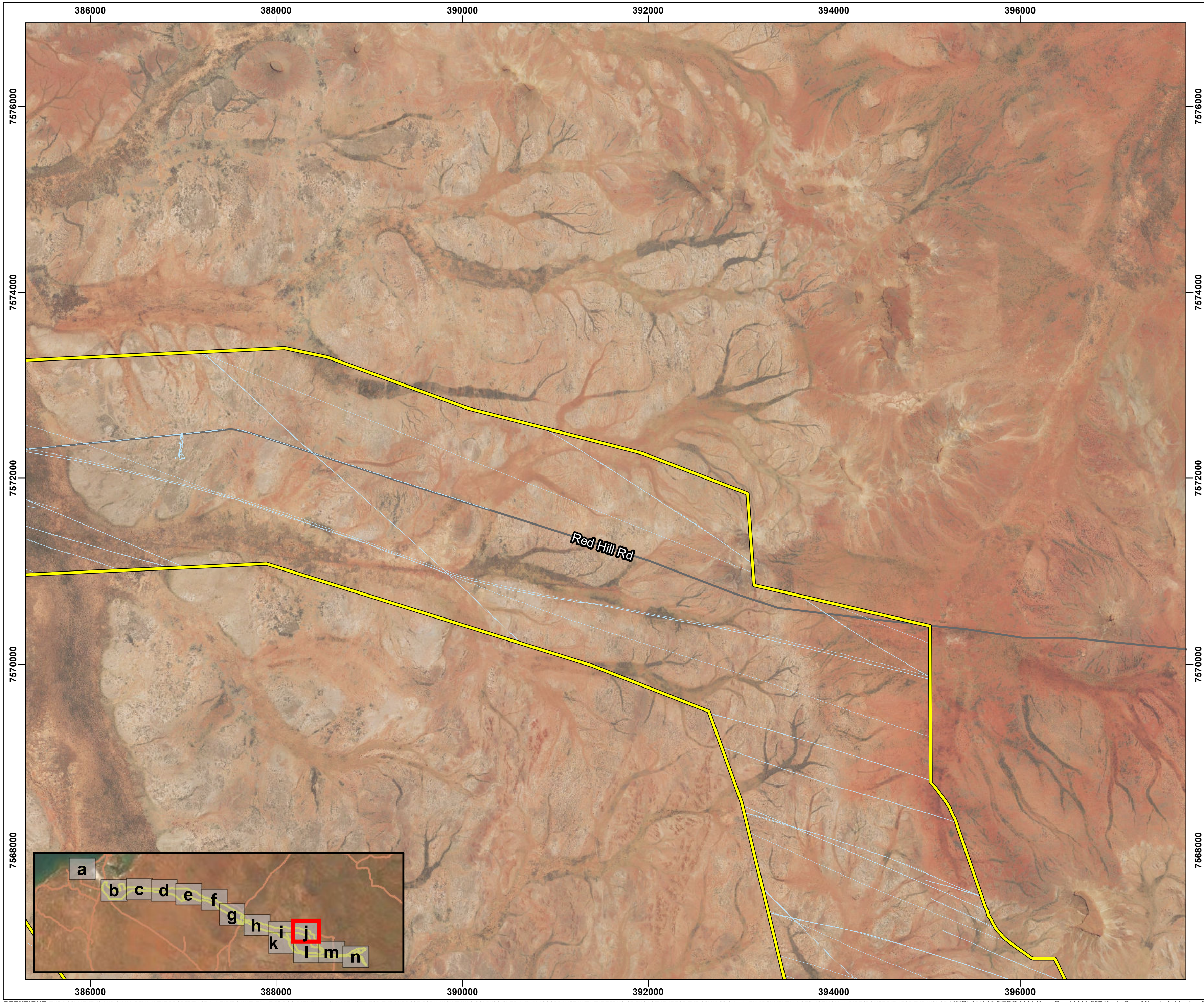

Legend

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LOCALITY MAP

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Flora and Vegetation Assessment

Figure 8j
Survey Effort

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Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

- Quadrat
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LOCALITY MAP

PROJECT ID	DATE
4441 007	19/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Flora and Vegetation Assessment

Figure 8k
Survey Effort

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Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

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LOCALITY MAP

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GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Flora and Vegetation Assessment

Figure 8l
Survey Effort

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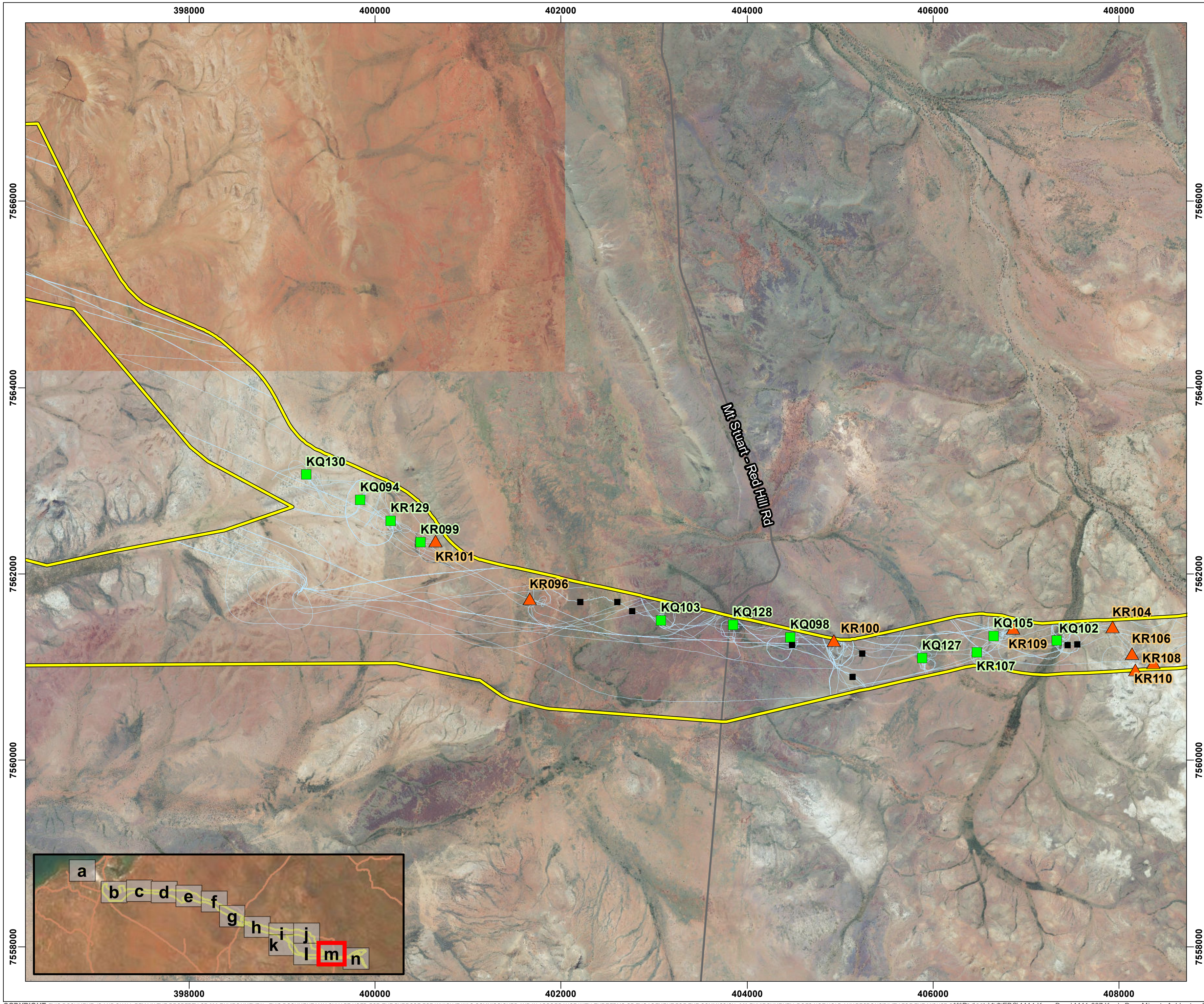

Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

- Quadrat
- Releve
- Mapping Notes

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Flora and Vegetation Assessment

Figure 8m
Survey Effort

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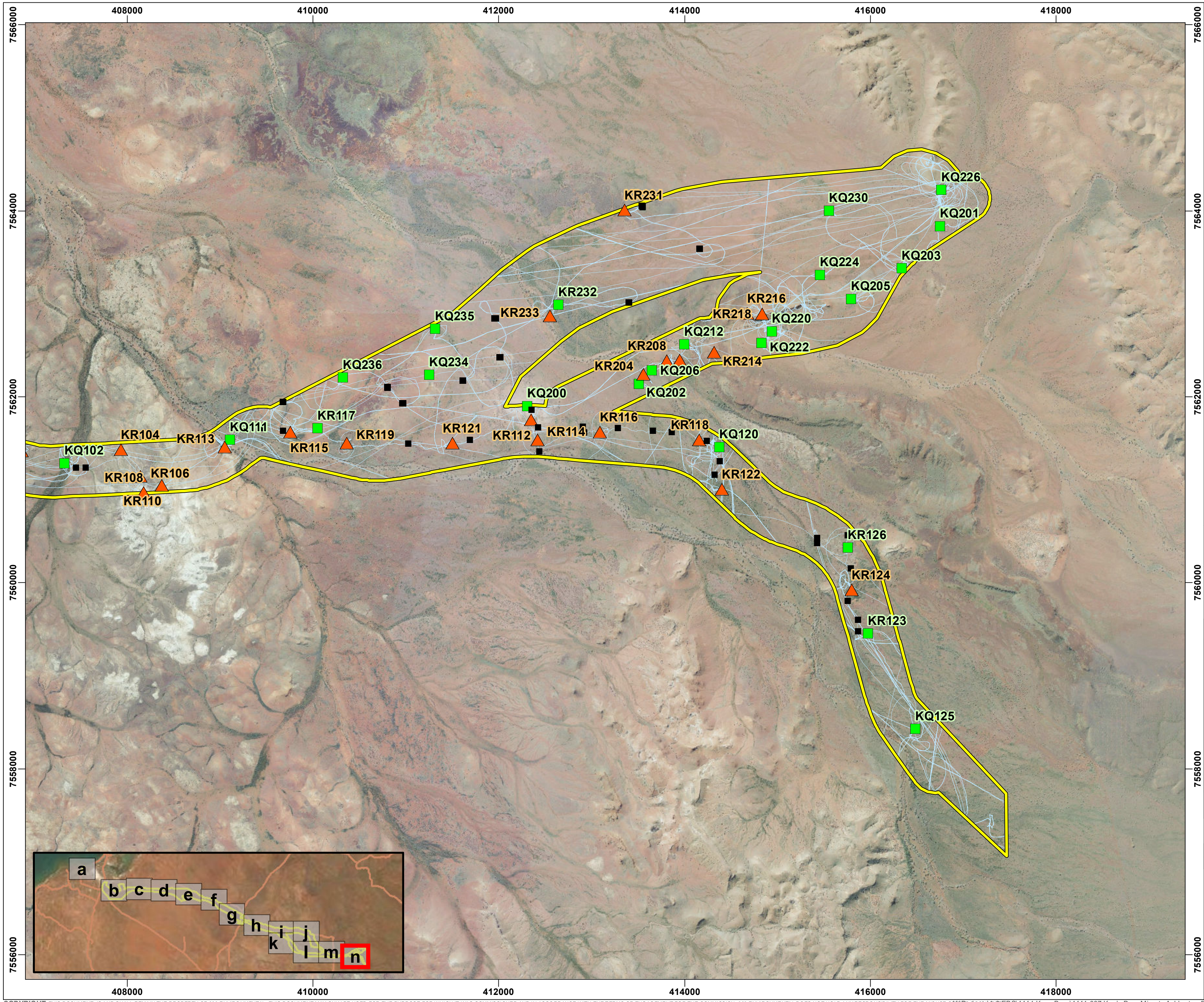

Legend

- Roads
- Survey
- GPS Tracks

Sample Sites

- Quadrat
- Releve
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GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 8n

Survey Effort

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3.2.1 Field Personnel

The flora and vegetation surveys were led by Principal Botanist Megan Stone. Megan has 10 years' experience conducting surveys of similar scope throughout Western Australia. Megan was supported by Pilbara specialists Ben Eckermann and Simon Colwill, and ecologists Colleen McDonald, Bridget Duncan, Lukas Geidans, Grant Buller, and Scott Walker.

Table 8: Field Personnel

Personnel	Flora Licence	Role	Trips
Megan Stone	FB62000253	Technical Lead	1, 2, 4
Ben Eckermann	FB62000262	Team Lead, taxonomy	1, 6, 8, 9
Simon Colwill	FB62000037	Team Lead, specimen management, taxonomy	2, 4, 6, 7, 8
Colleen McDonald	FB62000148	Field Support, data management, reporting	1, 2
Bridget Duncan	FB62000272	Field Support, data management, reporting	2, 6, 7, 8, 9
Lukas Geidans	N/A	Field Support	1
Grant Buller	FB62000321	Field Support, data management	6, 7, 8
Scott Walker	FB62000149	Field Support	7

3.2.2 Establishment of Flora Sites

Indicative flora sites were identified prior to each field survey using aerial photography to estimate broad vegetation patterns within the Survey Area. The location and number of flora sites completed were adjusted on site to achieve sites most representative of the vegetation.

At least three flora sites were sampled in each vegetation type observed within the Survey Area, where possible. Some vegetation types that were not large enough to accommodate three flora sites, or had limited unburnt vegetation, had only one or two sites sampled.

Quadrats were 50 x 50 m, typically with corners aligned to northwest, northeast, southeast and southwest, and accurately measured using measuring tapes. As a minimum, the north west corner of each quadrat was permanently demarcated with an steel fence dropper, and where possible a fence dropper was also installed in the south east corner. Relevés comprised unbounded sites of approximately 50 x 50 m where possible, or alternate configurations approximately equating to 2500 m^2. A comprehensive record of the flora present at the time of sampling was recorded for both quadrat and relevé sites, the primary difference between the two being that relevés were not permanently marked.

Flora site location was recorded using a handheld GPS unit, with points recorded at each corner of a quadrat, the start and finish point of linear relevés, and the central point of circular relevés.

At each flora site, the following was recorded using a Fulcrum mobile data collection device:

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

- Relevant site descriptors including slope, aspect, and fire history
- Inventory of vascular flora including the approximate average height and percentage foliar cover for each taxon recorded
- Vegetation description in accordance with National Vegetation Information System (NVIS), Level 6 'sub-association', whereby the dominant growth form, height, cover, and species (up to five 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 (Environmental Protection Authority, 2016b), and evidence of disturbance (for example clearing, rubbish, feral animals, weed incursion and evidence of feral animals) where present
- Photograph of the vegetation.

In 2020, 180 flora sites were established within the Survey Area. In 2021 an additional 48 flora sites were established as either infill sites or to account for increases to the Survey Area, totalling 228 sites overall (comprising 132 quadrats and 96 relevés). Furthermore, in 2021, 179 out of 180 sites established in 2020 were resampled.

In addition to flora sites, 286 mapping notes were undertaken to aid vegetation mapping and delineation.

3.2.3 Opportunistic Flora

Additional flora taxa observed opportunistically adjacent to flora sites or while traversing on foot within the Survey Area were also recorded. Where populations of conservation significant flora taxa, Declared Pests (DPs) or WoNS were encountered, a GPS location and a count of the individuals present was recorded.

3.2.4 Targeted Searching

Prior to the survey a list of conservation significant flora 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.

The entire Survey Area was not systematically searched. Rather, targeted searching focussed on habitat suitable for Threatened flora and Priority 1 and Priority 2 flora.

Personnel also actively searched for potential conservation significant flora taxa in and around flora sites, while traversing on foot within the Survey Area and in known locations or preferred habitat encountered in the field.

Where Threatened or Priority flora were encountered in the field a GPS location and a count of individuals was recorded, followed by a search in areas adjacent to determine population extent. Specimens of any potential conservation significant flora that could not be identified in the field were collected for identification and lodgement at the Western Australian Herbarium (WAH).

In the case of a single species (*Abutilon* sp. Onslow (F. Smith s.n. 10/9/61)), targeted searches were conducted outside of the Survey Area at the request of MRL. These searches were conducted on foot with long linear transects, as well as using a helicopter as personnel were not permitted outside of the Survey Area boundaries. At numerous points on these searches, estimated counts of the species per 2500 m^2 (equivalent to a 50x50 m quadrat) were made, which was then used to create an estimate density map of the area.

3.2.5 Taxonomy and Nomenclature

Where identification of plant taxa was not possible in the field, specimens were collected for identification using resources at the WAH. Identification of flora collections was completed by experienced taxonomists Pierre-Louis De-Kock, Ben Eckermann, Simon Colwill and Megan Stone at the WAH. Any difficult specimens were submitted to WAH specialists for formal identification.

The finalised species list was checked against FloraBase (Western Australian Herbarium, 2021) for taxonomic currency, and to determine the conservation status and known distribution of each taxon. Introduced species were checked against the current BAM Act Declared Plants list and the WoNS list to determine their status (Department of Agriculture Water and the Environment, 2021; Department of Primary Industries and Regional Development, 2021).

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

3.2.6 Floristic Analyses

Statistical analysis of flora site data was undertaken in accordance with EPA guidelines (2016b) for a detailed flora and vegetation survey.

3.2.6.1 Multivariate Analysis

The vegetation composition of each flora site was compared using absence presence values of species recorded from quadrat data and analysed using multivariate analysis tools in Primer v6. Absence presence values were tested for similarity using the Bray-Curtis coefficients and vegetation units were defined based on approximately 40-100% similarity and distinguished visually in a dendrogram and Non-Metric Dimensional Scaling (NMDS) cluster analysis. The analysis was undertaken on a data matrix comprising 242 vascular flora taxa and 227 flora sites. Relevés were included in the analysis as they were undertaken with a high level of accuracy for this survey, and the only difference from the quadrats was that they were not permanently marked.

Singletons (flora taxa recorded at only one site), were excluded from the analysis as due to the properties of the Bray-Curtis coefficient singletons are seen as 'indicators' for grouping and therefore bias results. Annual taxa were removed as their presence can be variable across such an extensive Survey Area as the result of both temporal and spatial rainfall patterns. Unidentified or partially identified flora taxa were also removed based on their ambiguity.

One flora site, PPR01 was not included in the analysis because it comprised only two species, a singleton and a partially identified flora taxon, which were both excluded from the analysis for the reasons described above.

3.2.6.2 Species Accumulation Curve

Species accumulation curves were plotted using Primer v6 to determine the adequacy of the survey. The treatments comprised Sobs (Mao Tao), to reflect the number of species observed (based on a given total of species recorded), and richness estimators Chao 1, Chao 2, Jacknife 1, Bootstrap and Michaelis-Menton to predict the total number of flora taxa that could potentially be recorded. Species accumulation curves were calculated using data collected from flora sites. All flora taxa, both annual and perennial, within each flora site were used in generating the species accumulation curve, except for unknown flora taxa that could only be tentatively identified.

3.2.7 Vegetation Unit and Condition Mapping

Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:5,000. Broad vegetation units were refined based on taxonomic identification of flora collections, analysis of data collected from quadrats and relevés, and mapping notes made 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.

3.2.8 Extrapolated Vegetation Unit Mapping

In areas where field surveys were not conducted due to access constraints and vegetation mapping was extrapolated, boundaries were delineated over aerial photography at a scale of 1:5,000. Information gathered from the accessible portions of the Survey Area during field surveys (including flora site data, mapping notes, vegetation mapping) was used in conjunction with background information such as broad scale vegetation and land systems mapping to estimate vegetation types present with the Extrapolation Area. Finalised polygons were digitised and produced as electronic mapping data using GIS software.

3.3 Limitations

Limitations and constraints of the flora and vegetation assessment are detailed in Table 9.

Table 9: Survey Limitations

Variable	Constraint (Yes/Partial/No)	Potential Constraints on Survey Outcomes
Survey Scope	No	The detailed flora and vegetation surveys were undertaken in accordance with EPA Technical Guidance: Flora and vegetation surveys for environmental impact assessment (Environmental Protection Authority, 2016b), and are appropriate to support approvals applications. Targeted searching for flora of conservation significance was undertaken, however as per standard practice in the Pilbara systematic searches were not feasible. Rather, targeted searching focussed on habitat suitable for Threatened flora and P1 and P2 flora within the proposed development footprint.
Availability of data and information	No	All data required to complete the scope of works including regional and local contextual information was available.
Site Access	Yes	Most of the Survey Area was accessed by helicopter, vehicle and on foot. One section of the Survey Area could not be accessed due to pastoral leaseholder restrictions. This area was included in the background information and desktop assessment compiled for this report, but no field surveys or associated results have been assessed as part of this report. A 1397.27 ha southern section and a 2,021.20 ha northern section of the area that could not been accessed has been extrapolated to provide indicative vegetation mapping.
Survey Intensity and resources	No	228 flora sites (comprising quadrats and relevés) were sampled across the Survey Area. An additional 286 mapping notes were undertaken to aid vegetation mapping and delineation. Given the size of the Survey Area it was not feasible to systematically survey the Survey Area. Additional flora taxa, and populations of conservation significant flora taxa and weed taxa would likely be recorded with additional survey effort. Sufficient time was allocated to the flora and vegetation surveys, given the size and complexity of the Survey Area, the expected level of survey intensity and that a portion of the Survey Area could not be accessed. The survey effort was considered adequate to assess the flora and vegetation values of the Survey Area and provide the information required to support approvals applications.

Variable	Constraint (Yes/Partial/No)	Potential Constraints on Survey Outcomes
Experience	No	The flora and vegetation surveys were led by Principal Botanist Megan Stone. Megan has over 10 years' experience conducting surveys of similar scope throughout Western Australia and is a specialist in the Pilbara region. Megan was supported by Pilbara specialists Ben Eckermann and Simon Colwill, and ecologists, Bridget Duncan, Grant Buller, Colleen McDonald, Lukas Geidans and Scott Walker. Identification of flora collections was completed by experienced Pilbara taxonomists Pierre-Louis de Kock, Ben Eckermann, Simon Colwill, Frank Obbens and Megan Stone at the WAH. Relevant WAH specialists were consulted for difficult specimens, and any specimens with novel characteristics were submitted to the WAH for formal identification.
Timing, weather, season	No	Seven flora and vegetation field surveys were undertaken across the broader Survey Area during 2020 and 2021. These included surveys undertaken during the recommended primary survey period for the Eremaean Botanical Province as per the EPA Technical Guidance, i.e., 6-8 weeks post wet season (March to June), and surveys undertaken during the dry season.
Life forms sampled	Partial	The Survey Area was traversed on foot and representative sites of all remnant vegetation was sampled. All flora taxa encountered within the Survey Area were recorded. A total of 455 vascular flora taxa were recorded from the Survey Area, comprising 96.0% native flora taxa and 4.0% introduced flora taxa. Of these, seven were identified to species level but not to variant or subspecies level, including *Eremophila forrestii* subsp. *?viridis* (P3, if confirmed). An additional 92 taxa could not be identified to species level because they were sterile at the time of the survey. None of the unconfirmed flora were considered likely to be analogous to any of the conservation significant flora species identified with a medium, high, or confirmed likelihood of occurrence by the database searches.
Mapping reliability	No	Vegetation types were described and mapped based on field observations, quadrat and relevé data and additional mapping notes taken during the field survey. High resolution aerial mapping current at the time of the survey was used to differentiate all vegetation greater than 1 ha in size. Mapping reliability within the accessible portion of the Survey Area ranged from very high, in areas where flora sites and mapping notes were completed within intact vegetation, to moderate or low in areas that were severely burnt, or water stressed. Mapping in the Extrapolation area is indicative only and reliability is low as the area has not been ground truthed by a

Variable	Constraint (Yes/Partial/No)	Potential Constraints on Survey Outcomes
		field survey. Most of the Extrapolation Area is not adjacent to areas mapped and ground truthed within the surveyed portion of the Survey Area. It is possible there are vegetation types within the Extrapolation Area that did not occur within the surveyed portion of the Survey Area
Disturbances (fire, flood etc.)	No	No disturbances occurred during any of the surveys. Areas of disturbance associated with old borrow pits, access tracks, cattle grazing, and trampling, weeds and frequent fire were recorded but were not a constraint on the results of the survey.
Completeness	No	Given the size of the Survey Area, it was not systematically surveyed. Rather, where possible, three representative flora sites were sampled in each vegetation type, except in those not large enough to accommodate three sample sites. All vegetation types were surveyed and delineated within the Survey Area.

4 Results

4.1 Desktop Assessment

4.1.1 Database Searches

Database searches identified 29 conservation significant flora taxa occurring within 50 km of the Survey Area[1] (Figure 9; Appendix B), comprising:

- No Threatened taxa
- Four Priority 1 taxa: *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61), *Bothriochloa decipiens* var*. cloncurrensis, Helichrysum oligochaetum,* and *Triodia mallota*
- Two Priority 2 taxa: *Dicladanthera glabra*, and *Paspalidium retiglume*
- Eighteen Priority 3 taxa: *Abutilon* sp. Pritzelianum (S. van Leeuwen 5095), *Carpobrotus* sp. Thevenard Island (M. White 050), *Cyanthillium gracile, Eleocharis papillosa, Eragrostis surreyana, Eremophila forrestii* subsp*. viridis, Euphorbia australis* var*. glabra, Glycine falcata, Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301), *Owenia acidula, Sida* sp. Barlee Range (S. van Leeuwen 1642), *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415), *Stackhousia clementii, Stylidium weeliwolli, Terminalia supranitifolia, Themeda* sp. Hamersley Station (M.E. Trudgen 11431), *Triodia pisoliticola,* and *Triumfetta echinata*
- Five Priority 4 taxa: *Acacia bromilowiana, Goodenia nuda, Livistona alfredii, Ptilotus mollis,* and *Rhynchosia bungarensis.*

No State or Commonwealth listed TECs were identified by the database searches. Six State listed PECs occur within 30 km of the Survey Area (Department of Biodiversity Conservation and Attractions, 2020c) (Figure 9):

- Tanpool Land System (Priority 1) – partly overlaps with the central portion of the Survey Area
- Robe Valley Mesas (Priority 1) - occurs 16.3 km north of the eastern end of the Survey Area
- *Triodia pisoliticola* (previously *Triodia* sp. Robe River) assemblages of mesas of the West Pilbara – occurs 18.9 km north of the eastern end of the Survey Area
- Peedamulla Swamp Community (Priority category has not been evaluated) - occurs 19.4 km north of the Survey Area
- Robe Valley Pisolitic Hills (Priority 1) - occurs 21.5 km north of the Survey Area
- Sand Sheet vegetation (Robe Valley) (Priority 1) - occurs 27.8 km north of the Survey Area.

[1] One taxon identified by NatureMap was excluded as it considered to be an erroneous record. The taxon *Isotropis forrestii* was not identified by the DBCA database searches and when check against the florabase distribution map was not shown to occur in the location identified by NatureMap.

4.1.2 Literature Review

The key findings of the literature review are summarised in Appendix A.

An additional 20 taxa were identified by the literature review that were not identified in the database searches:

- One Threatened taxa: *Thryptomene wittweri*
- One Priority 1 taxa: *Calotis squamigera*
- Three Priority 2 taxa: *Ipomoea racemigera*, *Scaevola* sp. Hamersley Range basalts (S. van Leeuwen 3675), and *Tetratheca fordiana*
- Thirteen Priority 3 taxa: *Acacia daweana, Acacia subtiliformis, Atriplex flabelliformis*, *Eragrostis crateriformis*, *Eremophila magnifica* subsp. *velutina*, *Geijera salicifolia*, *Grevillea subterlineata, Indigofera gilesii, Pilbara trudgenii, Rhagodia* sp. Hamersley (M. Trudgen 17794), *Rostellularia adscendens* var. *latifolia*, *Sida* sp. Hamersley Range (K. Newbey 10692), and *Triodia* sp. Mt Ella (M.E. Trudgen 12739)
- Two Priority 4 taxa: *Eremophila magnifica* subsp. *magnifica*, and *Lepidium catapycnon.*

These taxa were not included in the flora likelihood assessment as all were considered highly unlikely to occur within the Survey Area, due to distance from the Survey Area (identified during database searches from distant reviewed literature) and their known habitat.

4.1.3 Pre-Survey Likelihood of Occurrence Assessment

The pre-survey likelihood of occurrence assessment identified that of the 29 conservation significant flora taxa identified by the database searches:

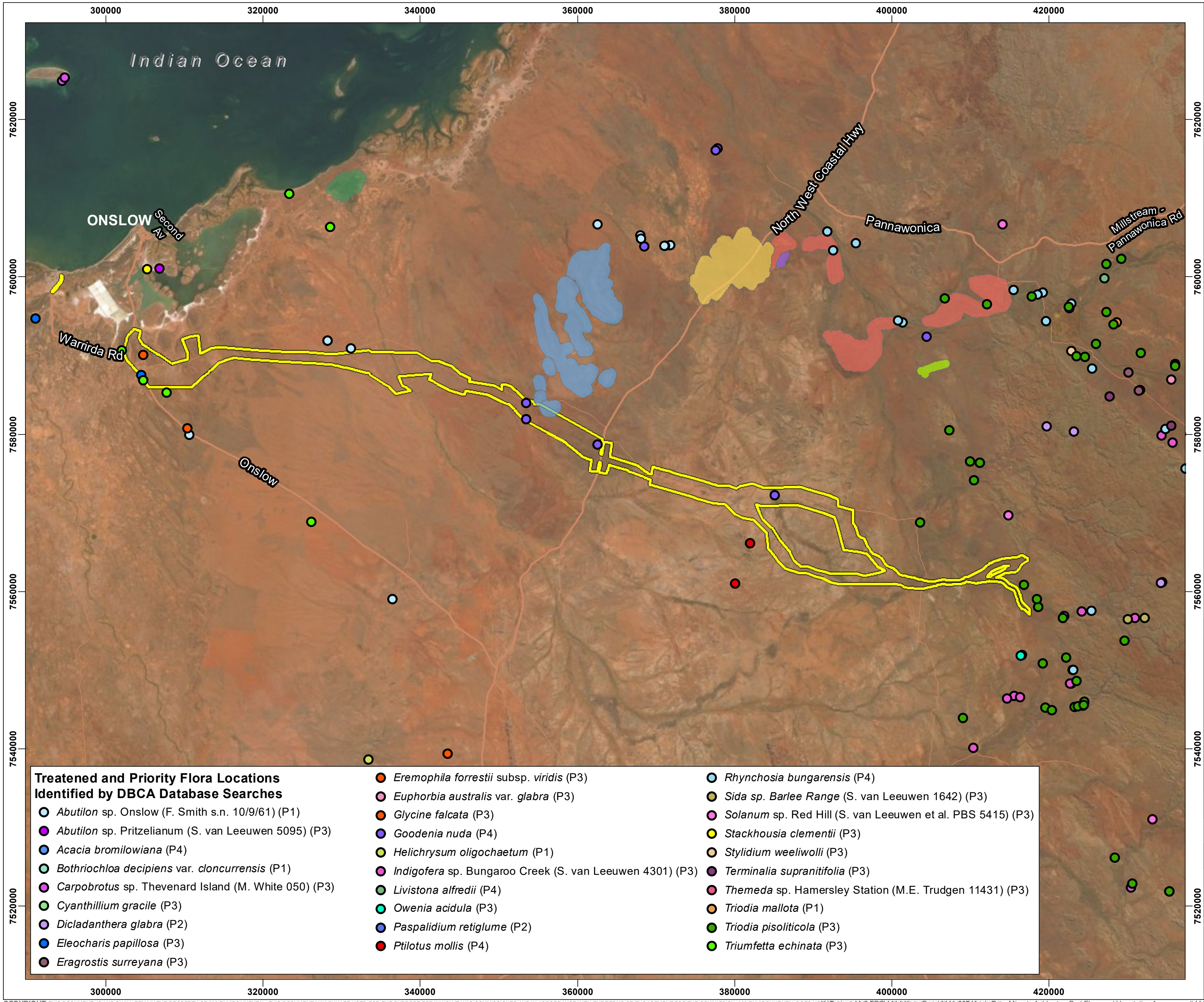
- Three had previously been recorded within the Survey Area
- Twelve were considered to have a high likelihood of occurrence
- Fourteen were considered to have a medium likelihood of occurrence
- None were considered to have a low likelihood of occurrence.

The twelve taxa considered to have a high likelihood of occurrence prior to the survey are listed below, along with rationale:

- *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61) (P1): This species has been recorded less than 1 km from the Survey Area, on a landform continuing into the Survey Area. The leaf and fruit of this species is distinctive for identification, however, may not be present in poor conditions.
- *Dicladanthera glabra* (P2): A distinctive low shrub that occurs in deep incised gullies with high water flow. This species was recorded 16.9 km away, with potential for habitat to exist within the Survey Area.
- *Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) (P3): A low shrub occurring on sandy plains, recorded 8.3 km away. This species has a distinctive leaf and fruit, however, may not be present in poor conditions.

- *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3): A distinctive erect mid to tall shrub that is relatively common through drainage areas of the Pilbara. This species is easily distinguishable from the more common *Indigofera monophylla* due to its appressed hairs and is likely to occur throughout the Survey Area.
- *Owenia acidula* (P3): This species is a tree, with a record 5.2 km south of the Survey Area. The habitat that the species is previously recorded in may extend into the Survey Area. This species is easily distinguishable in the field due to its size and leaf structure.
- *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P3): A small grey shrub that is readily distinguished from similar species due to its indumentum and leaf shape. This species is found on the high ridges of large rocky gullies that may be present in the Survey Area.
- *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3): This species is a low green shrub, with sticky glandular indumentum. This species can appear similar to other glandular *Solanum* spp. and will be collected heavily if encountered. It grows in the high rocky ridges of large gullies which may be present in the Survey Area.
- *Stackhousia clementii* (P3): Recorded 7.7 km from the Survey Area, this species grows in skeletal soils, and sands that are present throughout the entire Survey Area. This species will be difficult to spot, and identify in the field, so any individuals of *Stackhousia* encountered will be collected heavily to confirm.
- *Triodia pisoliticola* (P3): This species occurs on the rocky hills to the east of the Survey Area in relatively high numbers (dominant stratum), through the western Hamersley ranges. This species can be readily separated from other common *Triodia* in the Survey Area due to its long wooly basal hairs and distinct glumes.
- *Triumfetta echinata* (P3): This species of *Triumfetta* has very distinct long spikey fruit and was recorded <1 km from the Survey Area. This species is likely to occur within the Survey Area and will be targeted near to existing locations. If material is sterile this may be difficult to identify, so any fruiting material will be targeted for collections.
- *Ptilotus mollis* (P4): This low shrub occurs high in the rocky mountainous landscape and has been recorded 2.1 km from the Survey Area. It is readily distinguishable from other *Ptilotus* spp. due to its compact leaf and flower shape. This habitat may occur within the Survey Area, so any habitat will be targeted.
- *Rhynchosia bungarensis* (P4): This species occurs commonly throughout large gullies associated with major ridges, also continuing to grow along these drainages outside of the ridge habitat. It is readily distinguishable from the more common *Rhynchosia minima* with its sticky brown glandular hairs.

The pre-survey and post-survey likelihood of occurrence assessment is provided in Appendix C.



Treatened and Priority Flora Locations Identified by DBCA Database Searches

- *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61) (P1)
- *Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) (P3)
- *Acacia bromilowiana* (P4)
- *Bothriochloa decipiens* var. *cloncurrensis* (P1)
- *Carpobrotus* sp. Thevenard Island (M. White 050) (P3)
- *Cyanthillium gracile* (P3)
- *Dicladanthera glabra* (P2)
- *Eleocharis papillosa* (P3)
- *Eragrostis surreyana* (P3)
- *Eremophila forrestii* subsp. *viridis* (P3)
- *Euphorbia australis* var. *glabra* (P3)
- *Glycine falcata* (P3)
- *Goodenia nuda* (P4)
- *Helichrysum oligochaetum* (P1)
- *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)
- *Livistona alfredii* (P4)
- *Owenia acidula* (P3)
- *Paspalidium retiglume* (P2)
- *Ptilotus mollis* (P4)
- *Rhynchosia bungarensis* (P4)
- *Sida sp. Barlee Range* (S. van Leeuwen 1642) (P3)
- *Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3)
- *Stackhousia clementii* (P3)
- *Stylidium weeliwolli* (P3)
- *Terminalia supranitifolia* (P3)
- *Themeda* sp. Hamersley Station (M.E. Trudgen 11431) (P3)
- *Triodia mallota* (P1)
- *Triodia pisoliticola* (P3)
- *Triumfetta echinata* (P3)

Legend

- State Road
- Local Roads
- Survey Area

DBCA Threatened and Priority Ecological Communities

- Peedamulla (Cane River) Swamp Community
- Sand Sheet vegetation (Robe Valley)
- Subterranean invertebrate communities of mesas in the Robe Valley region
- Subterranean invertebrate community of pisolitic hills in the Pilbara
- Tanpool Land System
- *Triodia pisoliticola* (previously *Triodia* sp. Robe River) assemblages of mesas of the West Pilbara

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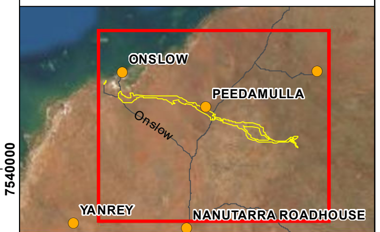

PROJECT ID	DATE
4441 007	19/07/2021

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GDA2020 MGA Zone 50			
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LFV	MS	MS	0

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Flora and Vegetation Assessment

Figure 9a

DBCA Threatened and Priority Flora and Communities

Legend

- State Road
- Local Roads
- Survey Area

Literature Review Locations

- Astron (2008a)
- Astron (2008b)
- Ecoscape (2015)
- Mattiske (2013)
- Phoenix (2017)
- Phoenix (2018)
- RPS Australia West Pty Ltd (2019)
- Rio Tinto (2018)

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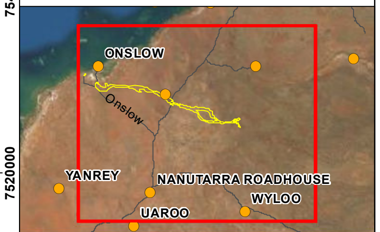


PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA2020 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited
Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 9b

Ashburton Infrastructure Project
Desktop Assessment Results

4.2 Field Survey

4.2.1 Survey Effort

A portion of the Survey Area on Red Hill Station could not be accessed due to the landholder not granting access for field surveys. Therefore, no flora sites were established, and targeted searching and field vegetation mapping was not undertaken in this area. A portion of this area was mapped using extrapolation from existing nearby units and aerial imagery and is detailed in Section 4.3 below.

A total of 228 flora sites were sampled within Survey Area, equating to approximately 0.01 sites per hectare (excluding the portion of the Survey Area that could not be accessed). This was adequate to ensure three flora sites were sampled in each vegetation type where possible and that spatial coverage across the accessible portions of the Survey Area was sufficient.

Furthermore, 179 of the 180 flora sites established in 2020 were resampled in 2021, providing two phases of sampling across most of the Survey Area.

The species accumulation curve for the combined Survey Areas produced a smooth Sobs curve steadily increasing towards asymptote (Appendix D).

Estimated species richness for the Survey Area ranged from 427 to 516, with an observed value of 450 taxa (Table 10). Richness estimators indicated the survey was approximately 87% (Jacknife 1) to 105% (Michaelis-Menton) adequate in recording the full complement of vascular flora taxa within the Survey Area (Table 10).

Table 10: Species Richness Indicators

Treatment	Expected Species Richness	Percentage Adequate
Chao 1	493	91
Chao 2	493	91
Jacknife 1	516	87
Bootstrap	484	93
Michaelis-Menton	427	105

The data used to produce the species accumulation curve was conservative because opportunistic species and unconfirmed flora were not included.

4.2.2 Flora Composition

A total of 455 taxa from 55 families across 172 genera were recorded during the survey[2] (Appendix E). The dominant families were Fabaceae (81 taxa), Poaceae (74 taxa) and Malvaceae (55 taxa). The dominant genera were *Acacia* (31 taxa), *Ptilotus* (15 taxa) and *Hibiscus* (11 taxa).

[2] One unknown family, 14 unconfirmed genera and 92 flora that could not be confirmed to species have been excluded from the counts as they may represent duplicates.

4.2.3 Flora of Conservation Significance

4.2.3.1 Threatened and Priority Flora

No Threatened flora taxa pursuant to the EPBC Act 1999 and/or gazetted as Threatened Flora pursuant to the BC Act 2016 were recorded during the surveys.

Six DBCA listed Priority flora taxa were recorded within the Survey Area. The counts and general locations of all the recorded Priority flora are summarised in Table 11, locations are presented in Figure 11 below, and detailed in Appendix E. Five of these had been identified by the database searches as having a high likelihood of occurrence, and one *Euphorbia inappendiculata* var. *inappendiculata* (P2), had not been identified by the database searches. The individuals and general locations of all the recorded Priority flora are summarised in Table 11, and described in detail below. One taxon *Eleocharis papillosa* was recorded just outside the Survey Area and therefore is not included in the results and is discussed in Section 5.1.1 below.

Threatened and Priority Flora Report forms for the populations recorded are provided in Appendix F.

Table 11: Flora of Conservation Significance in the Survey Area

Taxon (status)	Number of Individuals	Habitat within the Survey Area (Flora site)
Confirmed		
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	9092^	Plains (KQ017, KQ023, KQ025, KQ053, KQ084, KQ088, KR086, KR131, KR133, KQ229), dunes (KR227), drainage (KR134), claypans (KR081, KR135, KR137), major creeks (KQ062), flood out of major creeks (KQ024, KQ058), open plains and broad drainage (opportunistic)
Euphorbia inappendiculata var. *inappendiculata* (P2)	2	Crabhole clay plains (KQ030), creeks (KR245)
Eremophila forrestii subsp. *viridis* (P3)	1061	Dunes (KQ065), dune swales (KR092), small rocky/gravelly mounds that occurred on the plains (opportunistic)
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)	13	Drainage (KR113, KR155)
Triodia pisoliticola (P3)	118	Mesas at the eastern end of the Survey Area (opportunistic)
Goodenia nuda (P4)	136	Plains (KQ029, KQ085), drainages and semi drainages (KR134, KR142), claypans (KR135), plains, low hills, and mesas, previously cleared areas (opportunistic)

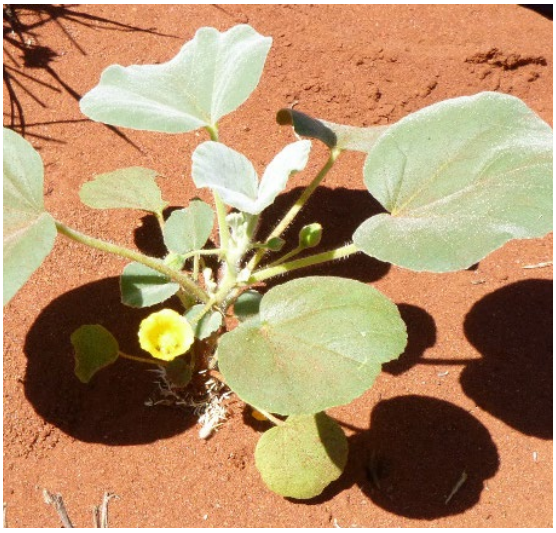
^ Including individuals recorded outside of the Survey Area during targeted searches for local contextual occurrences

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1) is a shrub, 0.1 m high that flowers August to October. *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61) (P1) typically occurs on flat stony plains in the Shire of Ashburton (Chevron, 2015; Western Australian Herbarium, 2021) (Plate 1). The WAH has 12 specimens lodged with records limited to a small area on the border of the Pilbara and Carnarvon regions (Western Australian Herbarium, 2021). Database searches for this taxon returned 12 locations, dating back to 1996, noting that the abundance was sometimes very high, with 'in excess of 1,000 plants recorded with numerous juveniles and seedlings noted following the above average rainfall', mirroring the results of this survey.

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1) was recorded within the Survey Area during Trip 6 and confirmed by Taxonomist Michael Hislop at the Western Australian Herbarium. Additional collections of this species were made during Trips 7 and 8 following increased targeted searching effort inside and outside the Survey Area. Large numbers of this species (9092 individuals) were recorded to map its distribution across the Survey Area as the high rainfall received prior to the survey had promoted the growth of a very large population of the species in the vicinity of the Cane River. Following these targeted searches and aerial estimates, an estimated map of the density of individuals was created for within the Survey Area and the searched surrounds, including known DBCA database records (Figure 10).

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1) was recorded in the Survey Area from plains, dunes, drainage, claypans, major creeks, open plains, and broad drainage. The species was growing in vegetation types DS01, CT02, PL05, PL08, PL14, PL16, PL19, PL23 and DR03 in association with *Tecticornia* shrublands, and *Acacia* shrublands over *Triodia* hummock grasslands.



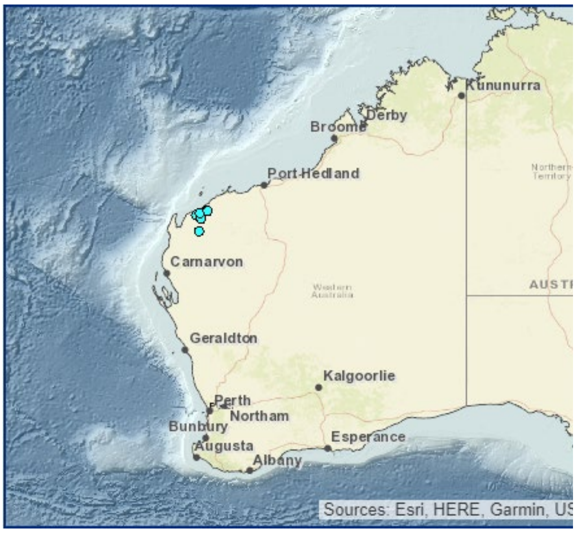
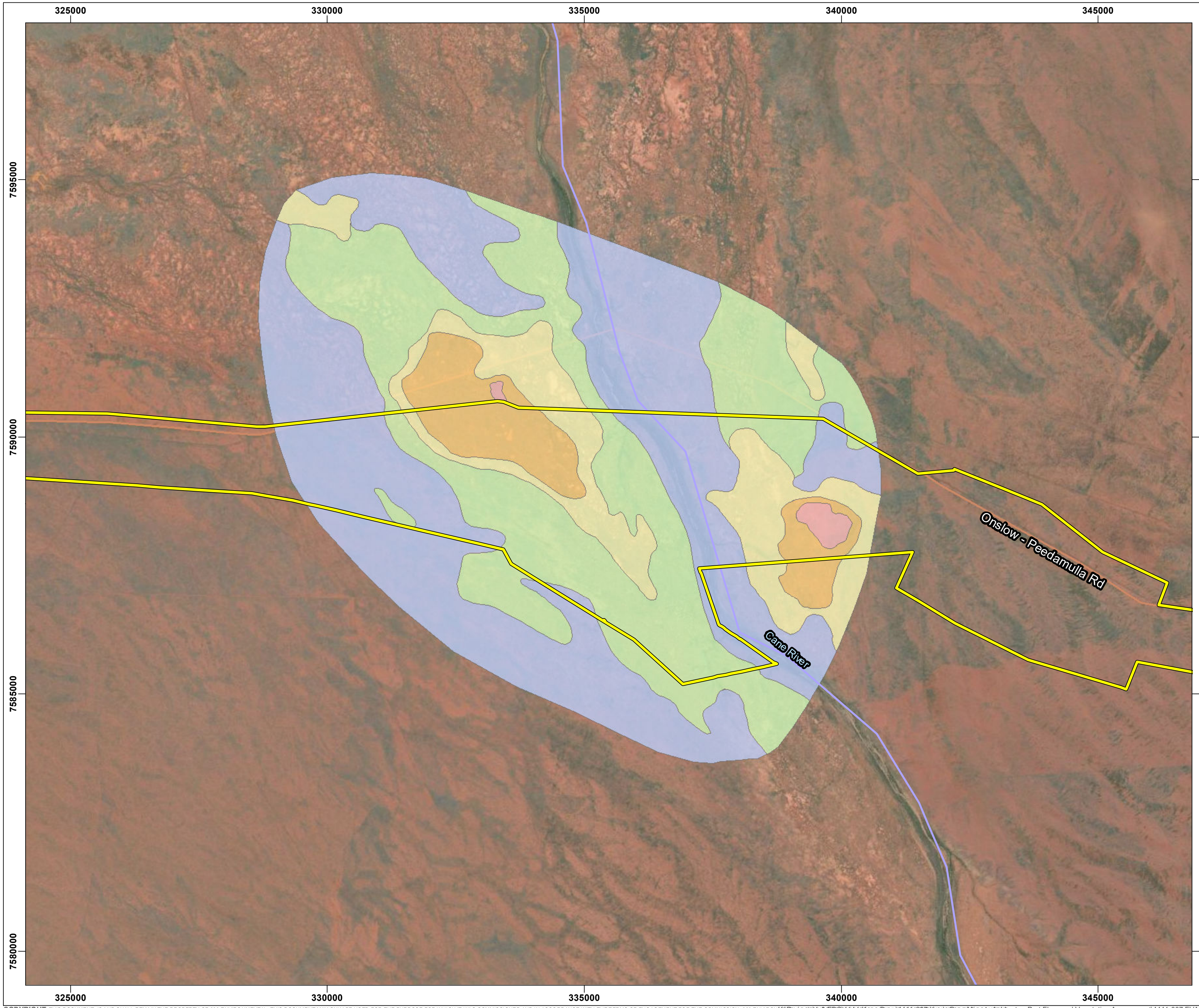


Plate 1: Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1) - (Source: photographs by 360 Environmental, 2021, distribution by Department of Biodiversity Conservation and Attractions, 2021)



Legend

Survey Area

Roads

Abutilon Density Map (per 2500m²)

- 0-10
- 11-50
- 51-200
- 201-500
- 501-1000

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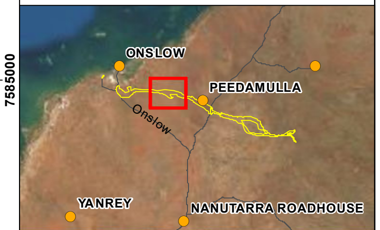

PROJECT ID			DATE
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GDA2020 MGA Zone 50			
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LFV	MS	MS	03

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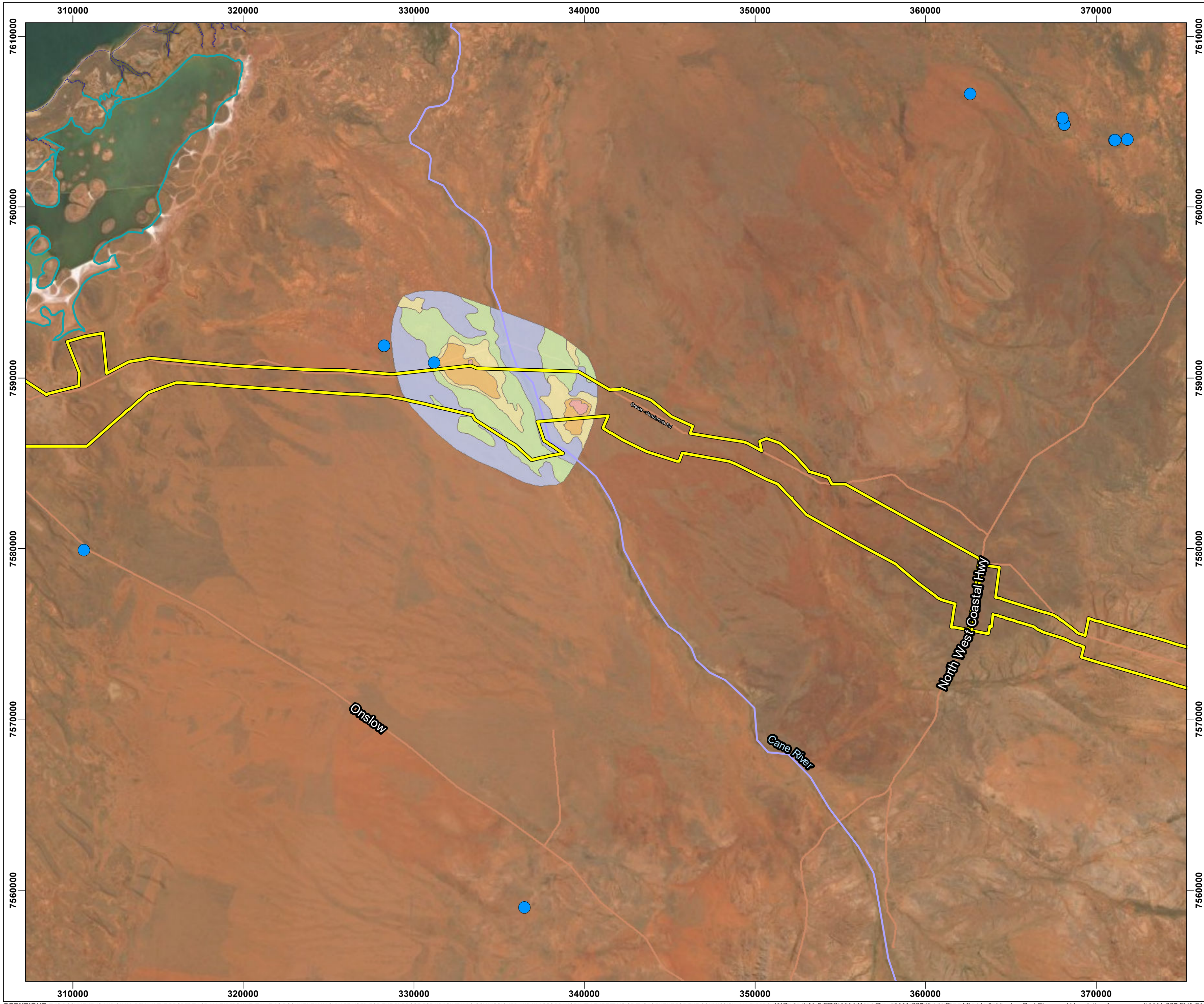
Flora and Vegetation Assessment

Figure 10a

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)

Estimated Density Map

K:\Projects\1 0 EBS\4441 Ken's Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10a Abutilon sp. Onslow F. Smith s n 10-9-61 P1 Estimated Density Map.mxd



Legend

Survey Area

Roads

DBCA Database Search Records of *Abutilon* sp. Onslow (F. Smith s.n. 10/9/61)

Abutilon Density Map (per 2500m²)

- 0-10
- 11-50
- 51-200
- 201-500
- 501-1000

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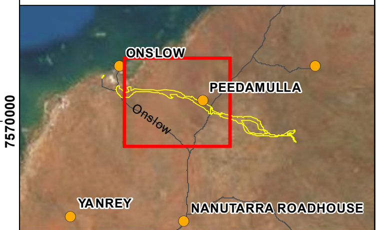
LOCALITY MAP



PROJECT ID			DATE
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CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

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Flora and Vegetation Assessment

Figure 10b

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)
Estimated Density Map

***Euphorbia inappendiculata* var. *inappendiculata* (P2)**

Euphorbia inappendiculata var. *inappendiculata* (P2) is a prostrate herb with milky sap. It has typically been recorded in cracking clay, and clay loam plains (Western Australian Herbarium, 2021). The WAH has 11 specimens lodged with records from the Pilbara and Gascoyne regions (Western Australian Herbarium, 2021) (Plate 2).

Two individuals of *Euphorbia inappendiculata* var. *inappendiculata* (P2) were recorded from separate locations within the Survey Area in crabhole clay plain and creek drainage. The species was growing in vegetation types PL21 and DR06 in association with *Acacia ancistrocarpa* and *Triodia epactia.*

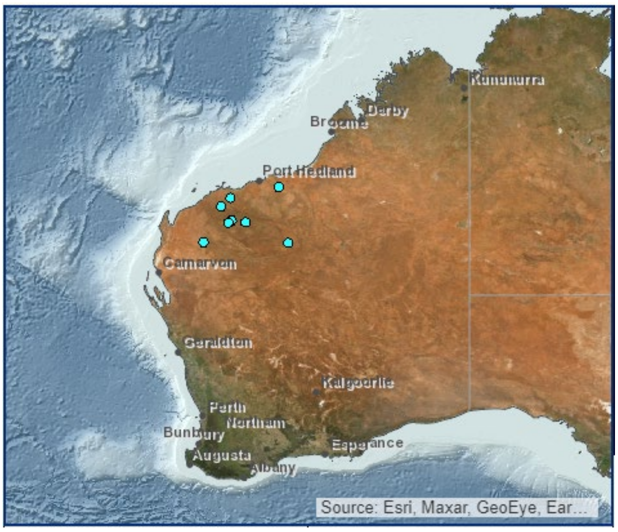


Plate 2: Euphorbia inappendiculata var. inappendiculata (P2) - (Source: distribution by Department of Biodiversity Conservation and Attractions, 2021)

***Eremophila forrestii* subsp. *viridis* (P3)**

Eremophila forrestii subsp. *viridis* (P3) is a multi-branched shrub, 1 m high that flowers in August (Plate 3). *Eremophila forrestii* subsp. *viridis* (P3) typically occurs in red sand and rocky gullies (Western Australian Herbarium, 2021). The WAH has five specimens lodged, with records distributed in the Pilbara, Carnarvon and Great Sandy Desert regions (Western Australian Herbarium, 2021). Two of the records of *Eremophila forrestii* subsp. *viridis* (P3) are from the nearby Cane River Conservation Park, one record is from within the northwestern portion of the Survey Area, and another is located 3 km west of the western boundary of the Survey Area.

Approximately 1061 individuals of *Eremophila forrestii* subsp. *viridis* (P3) were recorded in the Survey Area from dunes, dune swales, and small rocky mounds that occurred on the plains. A further 176 individuals were recorded of an *Eremophila forrestii* subsp. ?*viridis* that was tentatively identified based on sterile material, these are excluded from the numbers of the confirmed species in Table 11, however should be considered to be the taxon until definitive material can be collected. The species was growing in vegetation types DS01, PL24, PL13, PL19 and DR01, in association with *Acacia stellaticeps*, *Hakea stenophylla* subsp. *stenophylla*, *A. sclerosperma* subsp. *sclerosperma*, *A. synchronicia*, *A. bivenosa*, *A. ancistrocarpa* and *A.*

inaequilatera shrubs, and *Triodia epactia*, *T. avenoides* and *T. glabra* hummock grasses. Where the species occurred in small rocky mounds (in vegetation type PL19, Figure 11e), it was present as a dominant shrub (sometimes monotypic) on small 20-50 m wide gentle gravel rises among otherwise flat plains, each mound supporting numerous individuals (Plate 3). Eleven of these gravel rises were visited for records, while others may exist in the area but were not able to be visited.

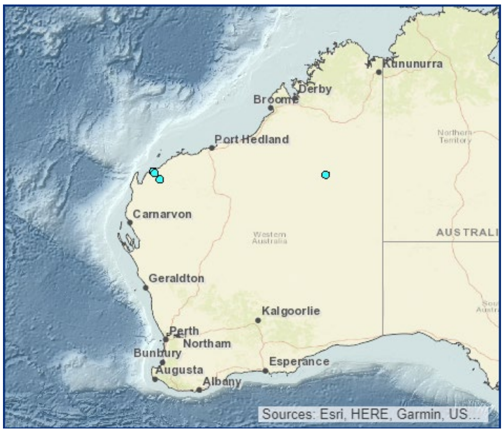


Plate 3*: Eremophila forrestii* subsp. *viridis* (P4), photo of population on small gravel mound, and distribution - (Source: photograph by 360 Environmental; distribution by Department of Biodiversity Conservation and Attractions, 2021)

Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)

Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3) is an erect shrub that flowers in May, June, and July. *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3) typically occurs in drainage lines in association with red-brown sandy clay loam soils (Western Australian Herbarium, 2021) (Plate 4). The WAH has 50 specimens lodged, with records restricted to the Pilbara region (Western Australian Herbarium, 2021). None of the known records of this species occur in conservation areas.

Within the Survey Area *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3) was recorded from two locations in drainage lines with red-brown sandy clay loam soil. It was recorded growing in vegetation types DR06 and DR07, in association with *Eucalyptus camaldulensis*, *Eucalyptus victrix*, *Corymbia hamersleyana*, *Acacia colei* var. *colei*, *Gossypium robinsonii*, *Triodia epactia* and *T. wiseana*.

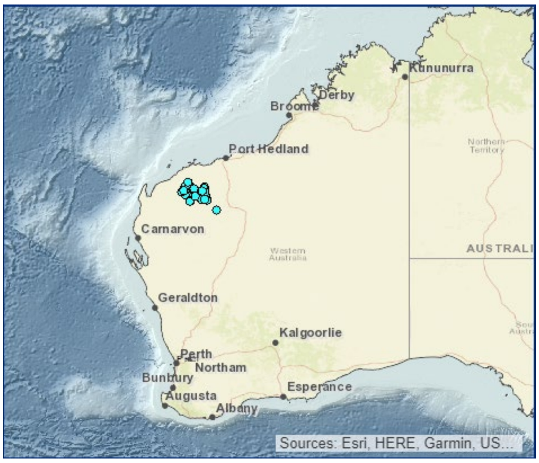
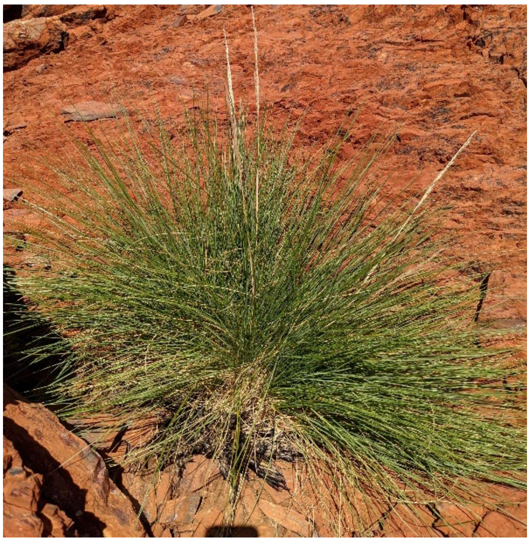


Plate 4: *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3) - (Source: photograph by 360 Environmental; distribution by Department of Biodiversity Conservation and Attractions, 2021)

Triodia pisoliticola (P3)

Triodia pisoliticola (P3) is a perennial hummock grass to 0.6 m (Western Australian Herbarium, 2021) (Plate 5). It typically occurs on ironstone mesas, slopes and gullies or occasionally flat loam (Western Australian Herbarium, 2021). The WAH has 59 specimens lodged, with records restricted to Pilbara region (Western Australian Herbarium, 2021).

Approximately 118 individuals of *Triodia pisoliticola* (P3) were recorded opportunistically from mesas at the eastern end of the Survey Area. It was recorded growing in vegetation type HM01 in association with *Triodia wiseana* and scattered *Senna* species.



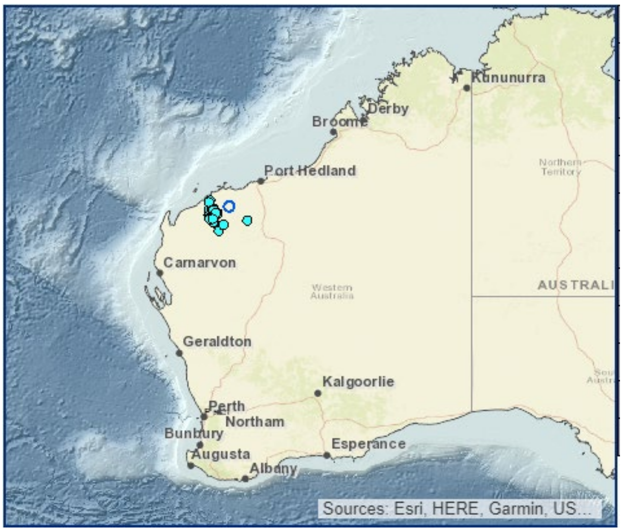


Plate 5: *Triodia pisoliticola* - (Source: photograph by 360 Environmental; distribution by Department of Biodiversity Conservation and Attractions, 2021)

***Goodenia nuda* (P4)**

Goodenia nuda (P4) is an erect herb to 0.5 m high that flowers April to August (Plate 6). *Goodenia nuda* (P4) typically occurs in seasonally inundated clay soils and drainage lines, and sand scoured riverbeds and hill sides (Western Australian Herbarium, 2021). The WAH has 107 specimens lodged, with records widely distributed throughout the Pilbara region, including in conservation tenure (Western Australian Herbarium, 2021).

Approximately 136 individuals of *Goodenia nuda* (P4) were recorded from the Survey Area across a variety of habitats including drainage, low hills and mesas and cleared areas. It was recorded growing in vegetation types PL03, PL23, DR01, DR05 and HM05 growing in association with various *Triodia* and *Acacia* species. *Goodenia nuda* (P4) is known to be a disturbance opportunistic, with many records on Florabase referencing degraded areas such as roadsides. The highest abundance of the species in one location within the Survey Area was 45 individuals recorded from a cleared trackside.

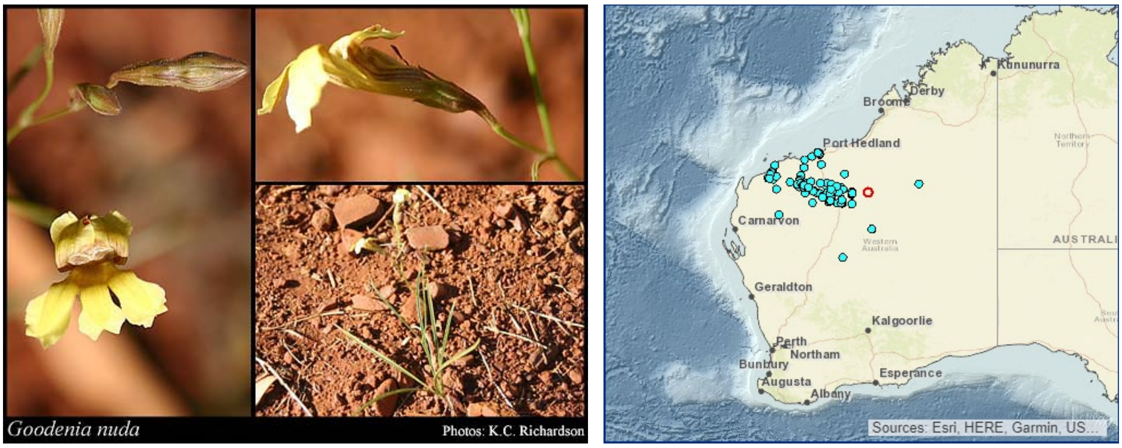


Plate 6: *Goodenia nuda* (P4) - (Source: photograph by Western Australian Herbarium, 2020 and distribution by Department of Biodiversity Conservation and Attractions, 2021)

Nine Priority flora that were identified by the pre-survey likelihood of occurrence assessment as having a high likelihood of occurrence were not recorded within the Survey Area during the surveys. Of these, two maintained a high likelihood of occurrence due to being ephemeral taxa or occurring in habitat broadly present within the Survey Area, which was not systematically searched. Four were downgraded to medium likelihood of occurrence, and one was downgraded to low likelihood of occurrence based on availability of suitable habitat. The remaining 14 taxa identified by the database searches were considered to have medium or low likelihood of occurrence following the survey (Appendix C).

4.2.3.2 Flora of Other Conservation Significance

Flora may be considered of other conservation significance if it represents a range extension, novel taxon, taxa that play a keystone role in a community, has relic status, is locally endemic, or represents the extent of a taxons range. Fifteen taxa recorded from the Survey Area may be considered flora of other conservation significance (Table 12).

All potential flora of other significance will be vouchered with the WAH.

Table 12: Flora of Other Conservation Significance in the Survey Area

Taxon	Reason for other significance	Habitat within the Survey Area
Abutilon macrum	Range extension (most western record) – the nearest known population occurs approximately 60 km south-southwest of the nearest record within the Survey Area.	Drainage plain (KQ179)
Acacia cowleana	Range extension (most western record on mainland) – the nearest known population occurs approximately 98 km northeast of the nearest record within the Survey Area.	Drainage (KR122, KR124)
Acacia marramamba	Range extension (most northern record) – the nearest known population occurs approximately 140 km southeast of the nearest record within the Survey Area.	Sandy plain (KQ027), plain (KR151, KR154)
Amphipogon sericeus	Range extension (most western record) – the nearest known population occurs approximately 120 km east-southeast of the nearest record within the Survey Area.	Mesa top (KR185)
Aristida inaequiglumis	Range extension (most western record) – the nearest known population occurs approximately 162 km east of the nearest record within the Survey Area.	Stony plain (KQ049), floodplain (KR113)
Bulbostylis turbinata	Range extension (most western record) – the nearest known population occurs approximately 117 km east-northeast of the nearest record within the Survey Area.	Plain (KQ028, KR131, KR150), broad drainage (KQ031), claypan (KR135), creek (KQ245)
Cucumis ?picrocarpus	Range extension – if confirmed, this population would represent the most western record. The nearest known population occurs approximately 146 km east-northeast of the nearest record within the Survey Area.	Crabhole plain (KQ056), major creek / flood out (KQ058, KQ060)
Euphorbia inappendiculata var. inappendiculata (P2)	Range extension (most western record) – the nearest known population occurs approximately 114 km east-northeast of the nearest record within the Survey Area	Crabhole clay plain (KQ030), creek (KR245)
Hibiscus verdcourtii	Range extension (most western record) – the nearest known population occurs approximately 119 km northeast of the nearest record within the Survey Area	Crabhole clay plain (KQ243), creek (KR245)

Taxon	Reason for other significance	Habitat within the Survey Area
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)	Range extension (most western record) – the nearest known population occurs approximately 56 km east of the nearest record within the Survey Area	Drainage / floodplain (KR113, KR155)
Ipomoea coptica	Range extension (most western record) – the nearest known population occurs approximately 84 km north-northwest of the nearest record within the Survey Area	Flat drainage (KQ078), claypan (KR081)
Lepidium pholidogynum	Range extension (most western record) – the nearest known population occurs approximately 61 km east of the nearest record within the Survey Area	Claypan (KQ069, KR097)
Maireana platycarpa	Range extension (most northern record) – the nearest known population occurs approximately 207 km southeast of the nearest record within the Survey Area	Stony plain (KQ207, KQ209, KQ211)
Minuria integerrima	Range extension (most western record) – the nearest known population occurs approximately 246 km east of the nearest record within the Survey Area	Cracking claypan (KR075)
Paranotis pterospora	Range extension (most western record) – the nearest known population occurs approximately 519 km east of the nearest record within the Survey Area	Sand dune (KR227)
Sclerolaena recurvicuspis	Range extension (most northern record) – the nearest known population occurs approximately 115 km southwest of the nearest record within the Survey Area	Drainage (KR074, KQ078)
Tephrosia aff. *remotiflora*	Range extension – if confirmed this population would represent the most western record. The nearest known population occurs approximately 180 km east of the nearest record within the Survey Area	Plain (KR096, KR144), gravelly crabhole clay plain (KQ241)

4.2.4 Introduced Flora

Eighteen introduced flora taxa were recorded in the Survey Area, representing 4.0% of the total taxa recorded (Table 13; Figure 11; Appendix E). Two of these, **Prosopis pallida* and **Parkinsonia aculeata*, are listed as Declared Pests under the BAM Act (Department of Primary Industries and Regional Development, 2018) and WoNS (Department of Agriculture Water and the Environment, 2020b).

Table 13: Introduced Flora Species in the Survey Area

Species	Common Name	Status under BAM Act	WoNS
**Aerva javanica*	Kapok Bush	Permitted – s11	No
**Bidens bipinnata*	Bipinnate Beggartick	Permitted – s11	No
**Cenchrus ciliaris*	Buffel Grass	Permitted – s11	No
**Cenchrus setiger*	Birdwood Grass	Permitted – s11	No
**Citrullus amarus*	-	Unlisted – s14	No
**Citrullus colocynthis*	-	Permitted – s11	No
**Echinochloa colona*	Awnless Barnyard Grass	Permitted – s11	No
**Euphorbia hirta*	Asthma Plant	Unlisted – s14	No
**Flaveria trinervia*	Speedy Weed	Unlisted – s14	No
**Malvastrum americanum*	Spiked Malvastrum	Permitted – s11	No
**Parkinsonia aculeata*	Parkinsonia	Declared Pest - s22(2)	Yes
**Passiflora foetida* var. *hispida*	Stinking Passion Flower	Permitted – s11	No
**Portulaca pilosa*	Djanggara	Permitted – s11	No
**Prosopis pallida*	Mesquite	Declared Pest, Prohibited - s12	Yes
**Setaria verticillata*	Whorled Pigeon Grass	Permitted – s11	No
**Sonchus oleraceus*	Common Sowthistle	Permitted – s11	No
**Tribulus terrestris*	Caltrop	Permitted – s11	No
**Vachellia farnesiana*	Mimosa Bush	Permitted – s11	No

4.2.5 Unconfirmed Flora

Ninety-two flora could not be identified to species level because the plants observed were sterile at the time of the survey. Seventy-eight of these have been tentatively identified to species level or assigned a confirmed genus.

An additional seven taxa were identified to species level but not to variant or subspecies level, including *Eremophila forrestii* subsp. *?viridis* (potential P3).

It is likely that some of the unconfirmed flora taxa are duplicates of taxa confirmed within the Survey Area.

4.2.6 Vegetation Types

Fifty-three vegetation types were described and mapped across five broad landforms (claypans/tidal flats, dunes and swales, plains, low hills and mesas, and drainage) within the Survey Area (Table 14; Figure 11).

Cleared areas comprising roads, access tracks and infrastructure, and water were also mapped (Table 14; Figure 11).

Detailed site sheets for each flora site are provided in Appendix G.

4.2.7 Floristic Analysis

Due to the size of the data set, results from the floristic analysis are most easily displayed in an NMDS, however an output dendrogram and a rationalised species list for Primer input is also provided in Appendix D. For the NMDS analysis, a single site (PPQ02) was removed as an extreme outlier (contained only one species), however it still broadly grouped with the other claypan/tidal flats sites.

Drainage sites, dunes and swales, and low hills and mesa sites formed distinct groups in the NMDS plot, while Plains sites were spread broadly and did not group together. This is due to the greater number of plains sites, and the more varying vegetation types among them, and each sharing similarities with other broad landform vegetation units. The Claypan/tidal flats sites grouped heavily to one axis of the NMDS plot, however due to the sometimes monotypic nature of the species at each site, did not group together strongly (Appendix D).

Thirteen sites did not form floristic groups with other sites:

- KQ003: A higher cover of *Acacia wanyu* separated this site during the analysis, which as a single site defined vegetation type PL07. None of the dominant species in this vegetation type are of significance, however *A. wanyu* is not commonly a dominant species, often appearing sparsely through other vegetation types across the Pilbara. This quadrat and vegetation type may be explained by a single patch of denser *A. wanyu* being captured during the survey.
- KQ007: This quadrat may have been placed in a more open area of the vegetation type PL06 and did not demonstrate the mid to low shrubland typical of the vegetation type, and so did not group despite the dominant *A. bivenosa* and *T. wiseana.*
- KQ22: This site grouped broadly with the two other sites in PL02, which were not strongly grouped due to the somewhat variable nature of the *Acacia* mid-storey.
- KQ067: This was the only one site representing vegetation type PL09, and as such did not form a group with any other sites. This was due to the dominant presence of *Scaevola spinescens* and *Trianthema turgidifolium* which were not dominant in any other sites.
- KQ079: This site was placed broadly into vegetation type CT07, on clay pan. This vegetation type displayed a variable dominance of Fabaceae mid to tall shrubs that are common around wetter areas where cattle presence is higher. Site KQ079 was

considered in Poor condition, with 12% **Vachellia farnesiana* cover which separated it from the other sites in the vegetation type.

- KQ098: This site separated from all other sites in vegetation type PL05, due to the much higher number of species within the quadrat, and higher density of smaller herbaceous spp. such as *Cynodon prostratus* and *Trianthema triquetrum*. It still retained the basic dominant species and was placed into vegetation type PL05.
- KQ103: This site was the only site placed into vegetation type PL10, displaying two dominant *Acacia* spp. (*A. atkinsiana* and *A. bivenosa*), as well as two dominant *Triodia* spp. (*T. epactia* and *T. wiseana*). This site may have been placed on what could be considered a broad ecotonal area, however, was large enough to be considered a distinct vegetation type.
- KR138: This site grouped broadly with the drainage sites of vegetation type DR03 due to the presence of drainage species such as *Eucalyptus camaldulensis* and *Melaleuca glomerata*, however was the only site that contained *M. linophylla*. This site also grouped broadly with vegetation type DR04.
- KQ237: While this site grouped broadly with the other sites in vegetation type DR02, it contained a much higher presence of *A. tumida* var. *pilbarensis*, and *Eriachne mucronata*.
- Sites KR072, PPQ02, PPQ03, PPR09 all contained varying levels of *Tecticornia auriculata, T. halocnemoides,* or sterile *Tecticornia* spp., without any additional species. Due to the variability of these species and cover, these sites were all broadly grouped within vegetation type CT05.

Flora sites were assigned to vegetation types based on statistical analysis results, dominant flora taxa, vegetation structure and composition, landform, and field observations. Multivariate analysis results grouped most quadrats in a way that typically reflected data collected and field observations. Where there was a discrepancy between statistical grouping and field observations, flora sites were grouped with the most appropriate vegetation type based on dominant flora taxa, vegetation structure and composition, landform, and field observations.

4.2.8 Vegetation Condition

Vegetation condition within the Survey Area was ranked as per technical guidance and ranged from Excellent to Completely Degraded, with the majority considered to be in Very Good or Good condition (Figure 12).

- Excellent (147.72 ha / 0.49%)
- Very Good (14,036.37 ha / 46.42%)
- Good (8000.22 ha / 26.46%)
- Poor (1209.06 ha / 4.00%).

The remainder of the Survey Area comprised previously cleared areas that were Completely Degraded (176.99 ha / 0.59%), and the areas that were either water or not assessed (6667.74 ha / 22.05%).

Evidence of disturbance included historical clearing for roads, infrastructure and access tracks, cattle grazing, trampling and scats, weeds, frequent burning, and rubbish. Cattle disturbance was abundant through almost all of the Survey Area due to its use as a cattle station, weeds were prevalent through drainage and heavy cattle use areas.

Legend

Survey Area

Sample Sites

Quadrat

Releve

Introduced Flora Locations

**Aerva javanica*

**Cenchrus ciliaris*

**Prosopis pallida*

360 environmental
a 10 Bermondsey St, West Leederville, 6007 WA
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300 0 300 600
Meters
1:25,000 @ A4

LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

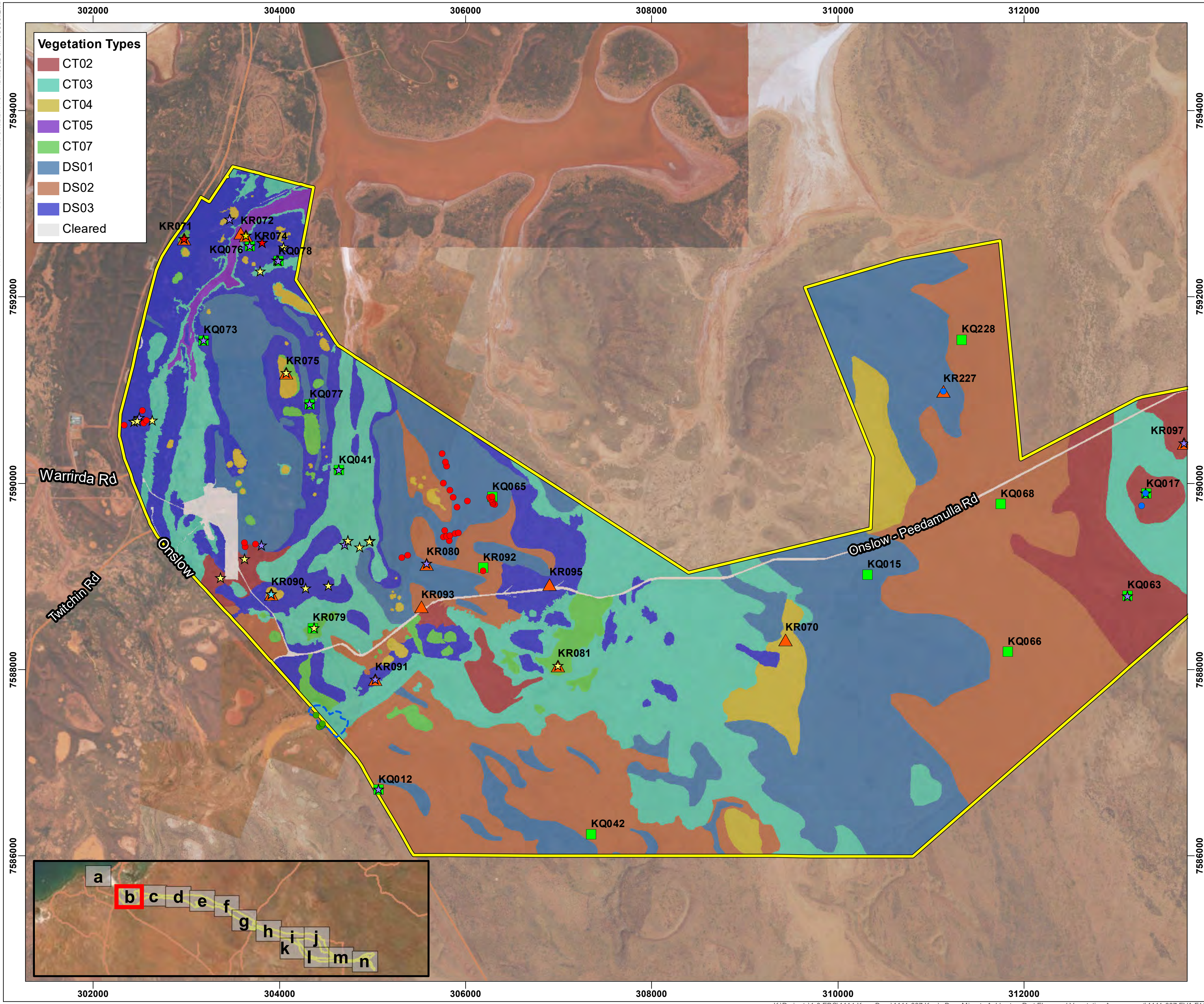
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11a

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads
Survey Area
Eleocharis papillosa Targeted Search Area

Sample Sites
Quadrat
Releve

Conservation Significant flora
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)
Eleocharis papillosa (P3)
Eremophila forrestii subsp. *viridis* (P3)

Introduced Flora Locations
**Aerva javanica*
**Cenchrus ciliaris*
**Cenchrus setiger*
**Flaveria trinervia*
**Prosopis pallida*
**Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11b

Vegetation Types, Conservation Significant Flora and Introduced Flora

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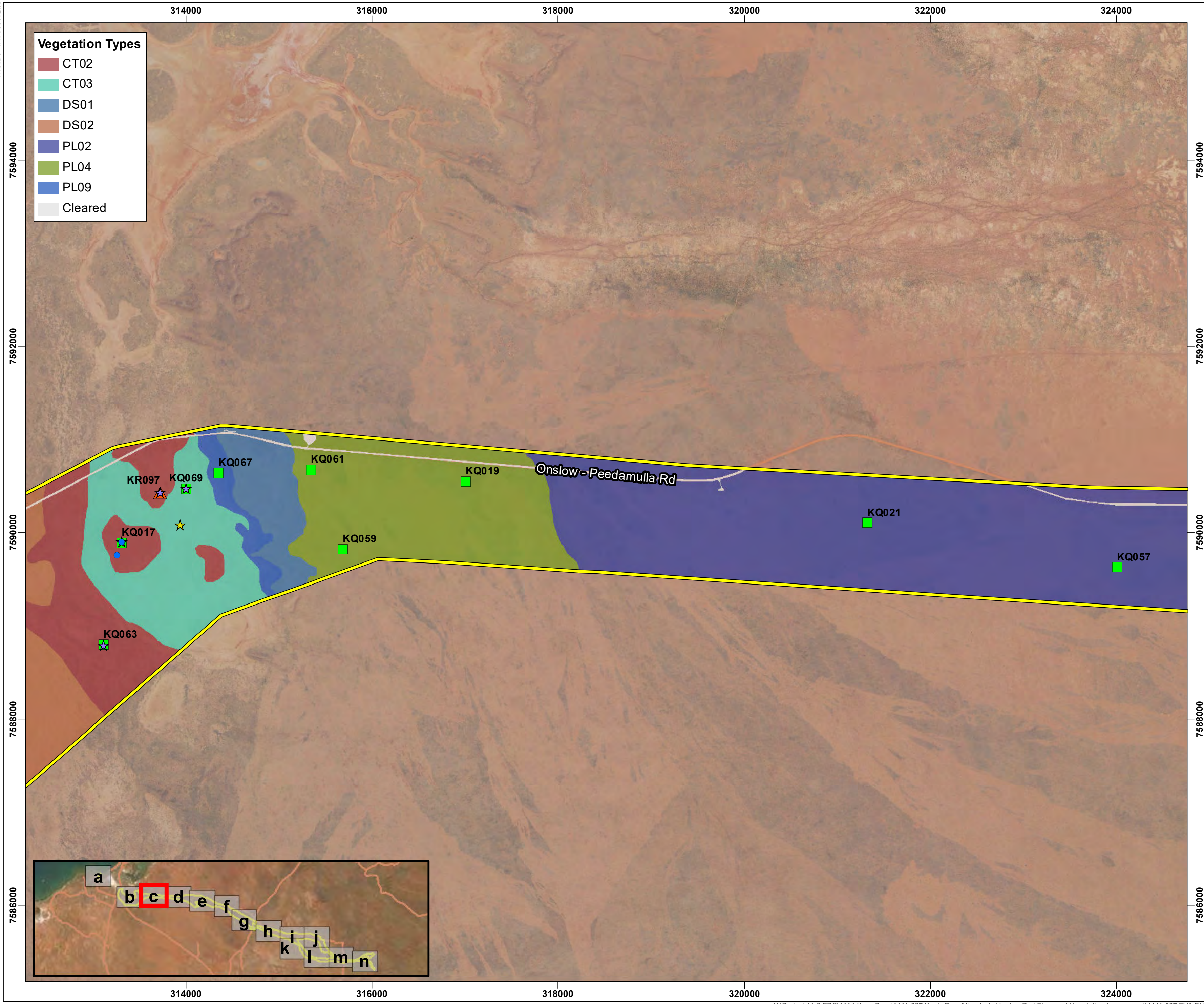

Legend

Roads
Survey Area

Sample Sites

Quadrat
Releve

Conservation Significant flora

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)

Introduced Flora Locations

**Cenchrus ciliaris*
**Flaveria trinervia*

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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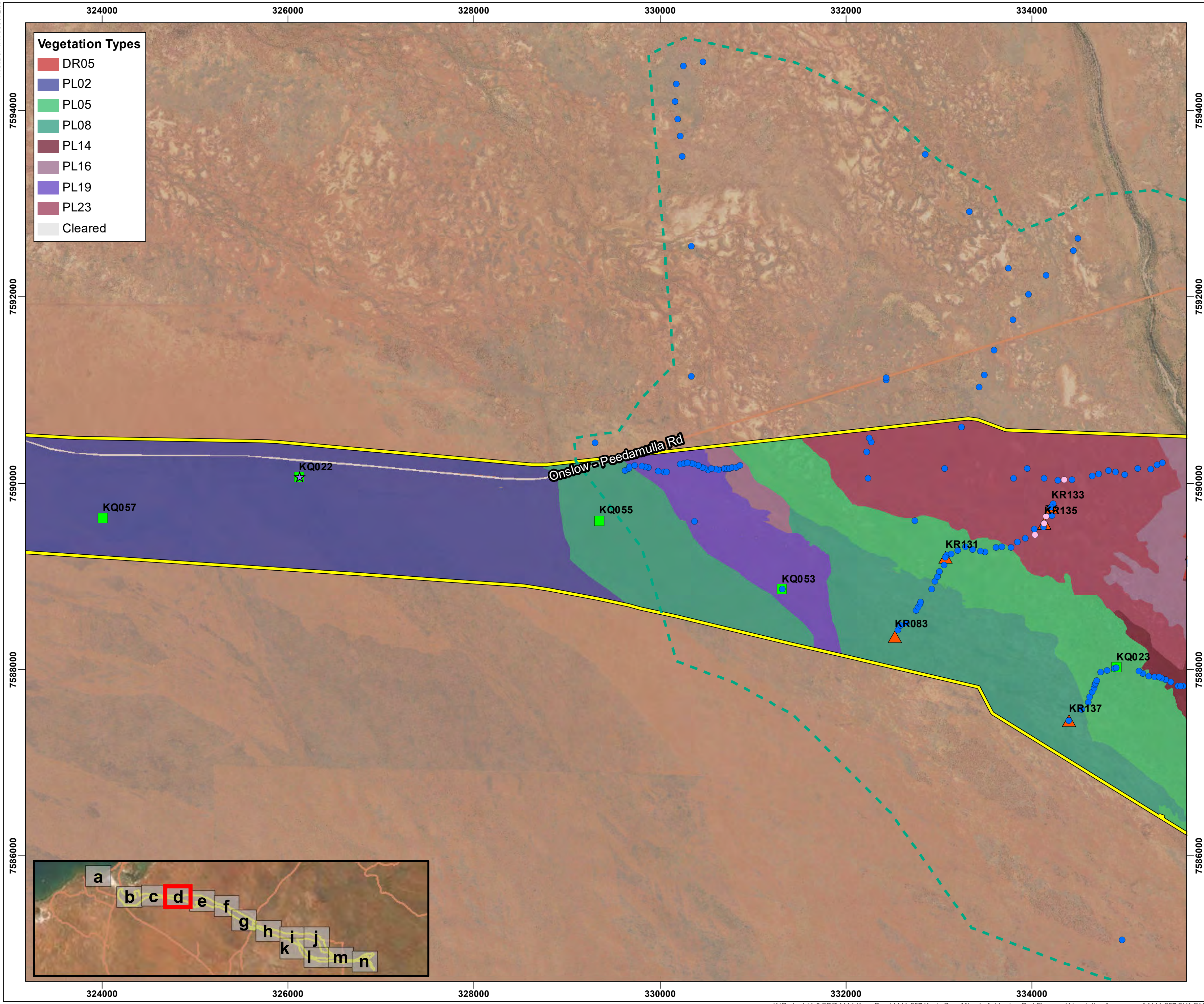
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11c

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads
Survey Area
Abutilon sp. Targeted Search Area

Sample Sites

Quadrat
Releve

Conservation Significant flora

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)
Goodenia nuda (P4)

Introduced Flora Locations

**Cenchrus ciliaris*

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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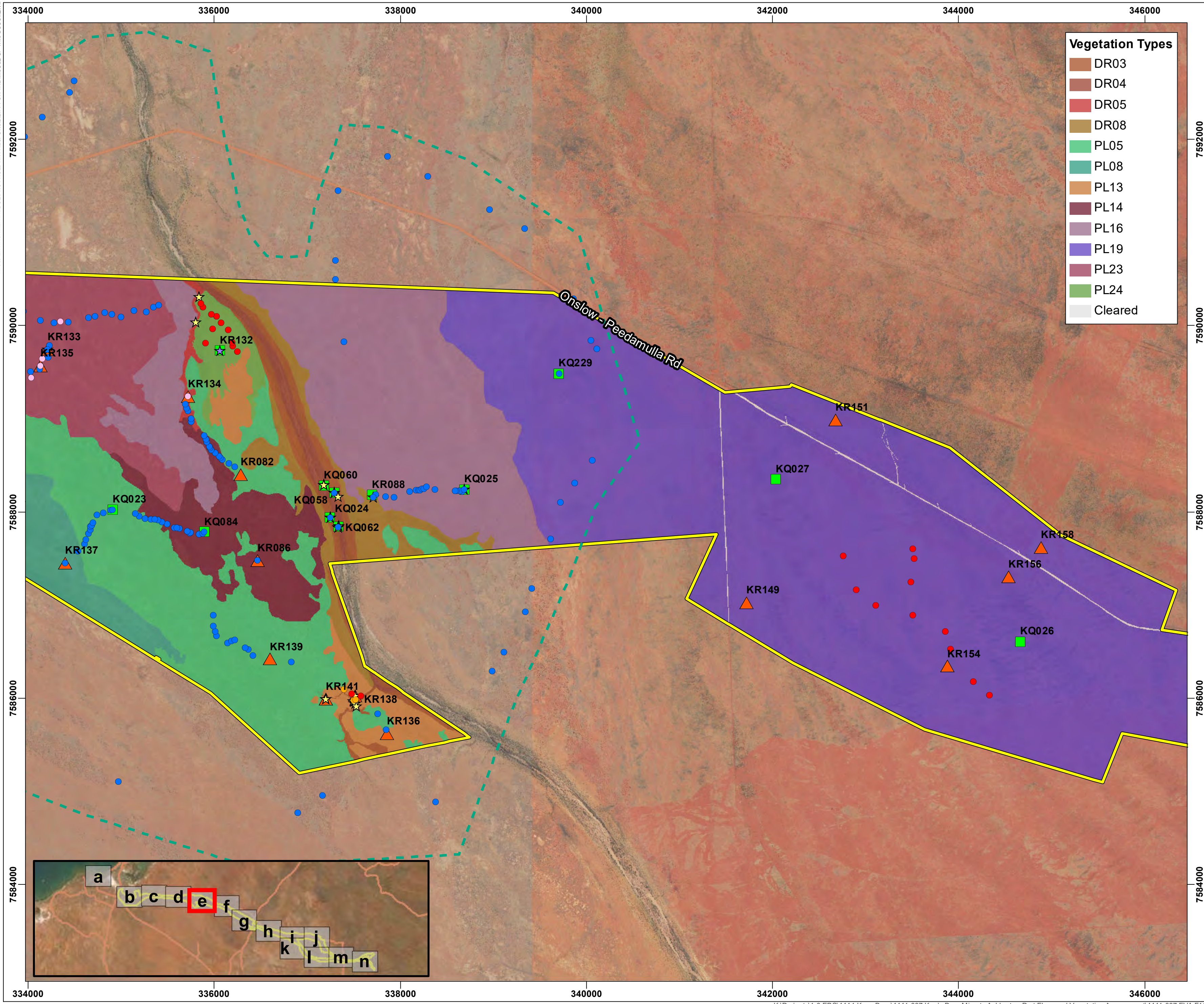
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11d

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads

Survey Area

Abutilon sp. Targeted Search Area

Sample Sites

Quadrat

Releve

Conservation Significant flora

Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)

Eremophila forrestii subsp. *viridis* (P3)

Eremophila forrestii subsp. *? viridis* (P3)

Goodenia nuda (P4)

Introduced Flora Locations

**Cenchrus ciliaris*

**Cenchrus setiger*

**Citrullus amarus*

**Echinochloa colona*

**Euphorbia hirta*

**Flaveria trinervia*

**Malvastrum americanum*

**Setaria verticillata*

**Sonchus oleraceus*

**Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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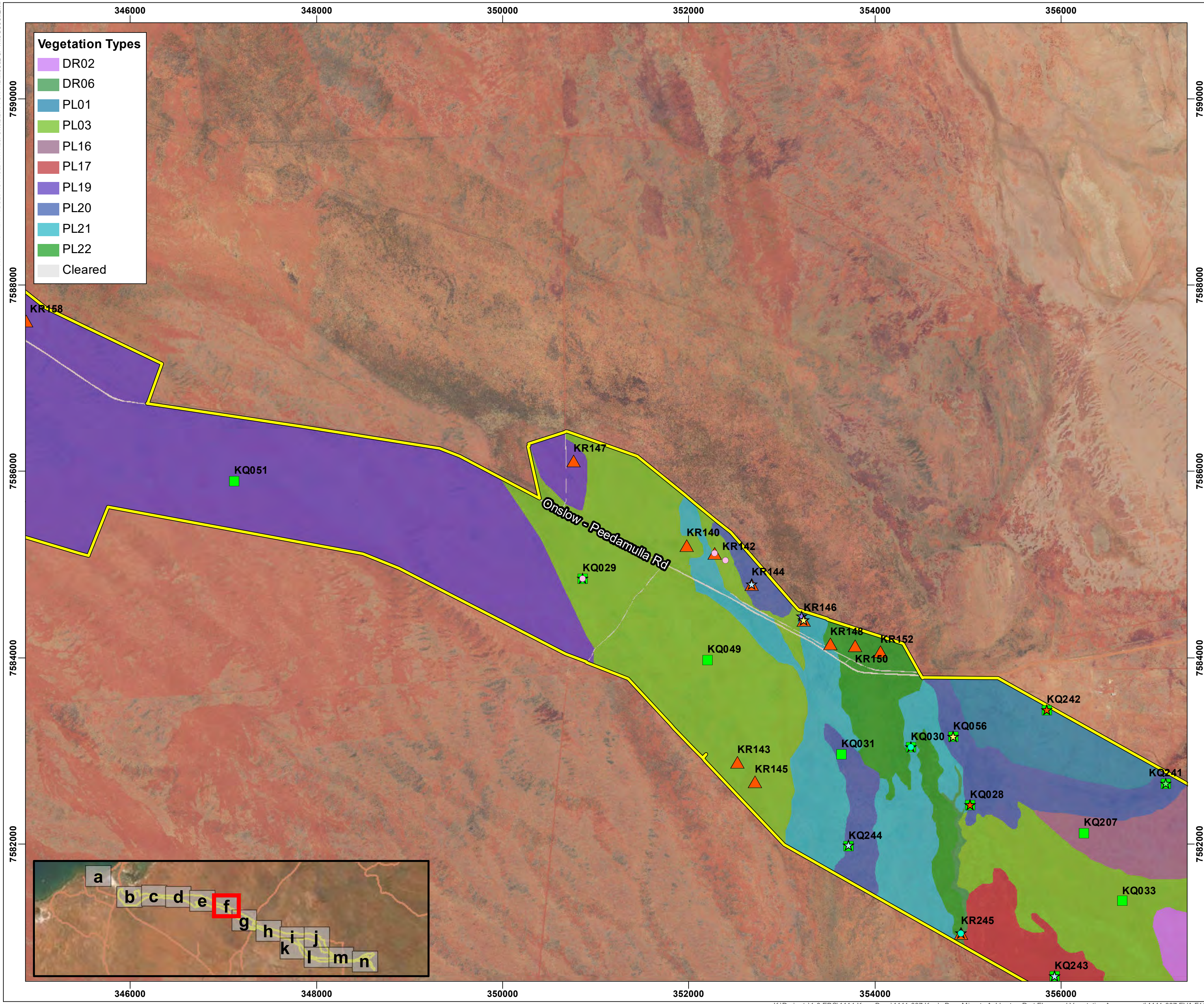
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11e

Vegetation Types, Conservation Significant Flora and Introduced Flora



Legend

Roads

Survey Area

Sample Sites

Quadrat

Releve

Conservation Significant flora

Euphorbia inappendiculata var. *inappendiculata* (P3)

Goodenia nuda (P4)

Introduced Flora Locations

**Bidens bipinnata*

**Cenchrus ciliaris*

**Citrullus amarus*

**Citrullus colocynthis*

**Echinochloa colona*

**Malvastrum americanum*

**Parkinsonia aculeata*

**Prosopis pallida*

**Setaria verticillata*

**Vachellia farnesiana*

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LOCALITY MAP

ONSLOW

PEEDAMULLA

Onslow

YANREY

NANUTARRA ROADHOUSE

PROJECT ID		DATE	
4441 007		22/07/2021	
HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11f

Vegetation Types, Conservation Significant Flora and Introduced Flora

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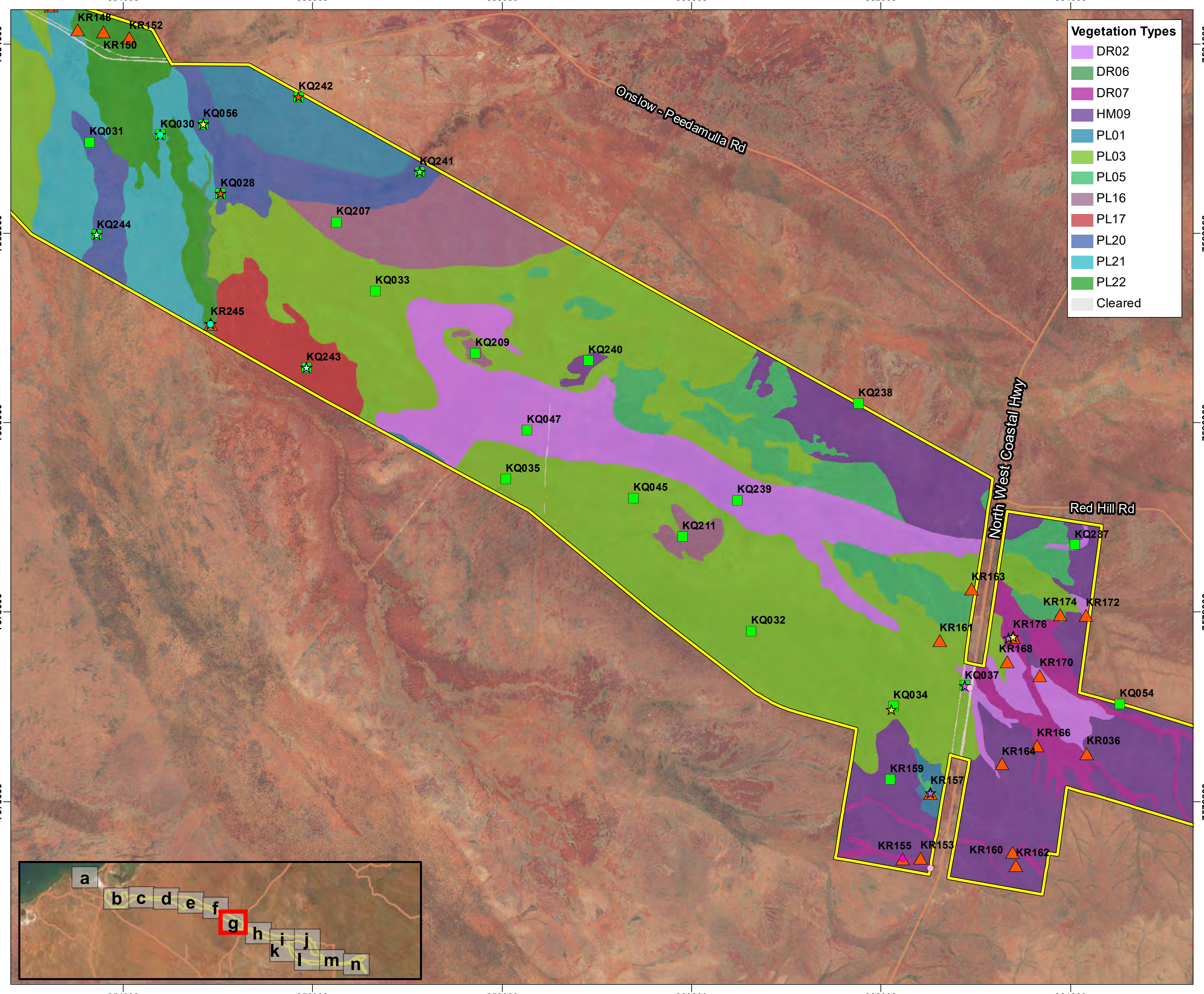

Legend

Roads

Survey Area

Sample Sites

Quadrat

Releve

Conservation Significant flora

Euphorbia inappendiculata var. *inappendiculata* (P3)

Goodenia nuda (P4)

Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)

Introduced Flora Locations

**Bidens bipinnata*

**Cenchrus ciliaris*

**Citrullus amarus*

**Citrullus colocynthis*

**Echinochloa colona*

**Flaveria trinervia*

**Malvastrum americanum*

**Parkinsonia aculeata*

**Passiflora foetida* var. *hispida*

**Prosopis pallida*

**Setaria verticillata*

**Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11g

Vegetation Types, Conservation Significant Flora and Introduced Flora

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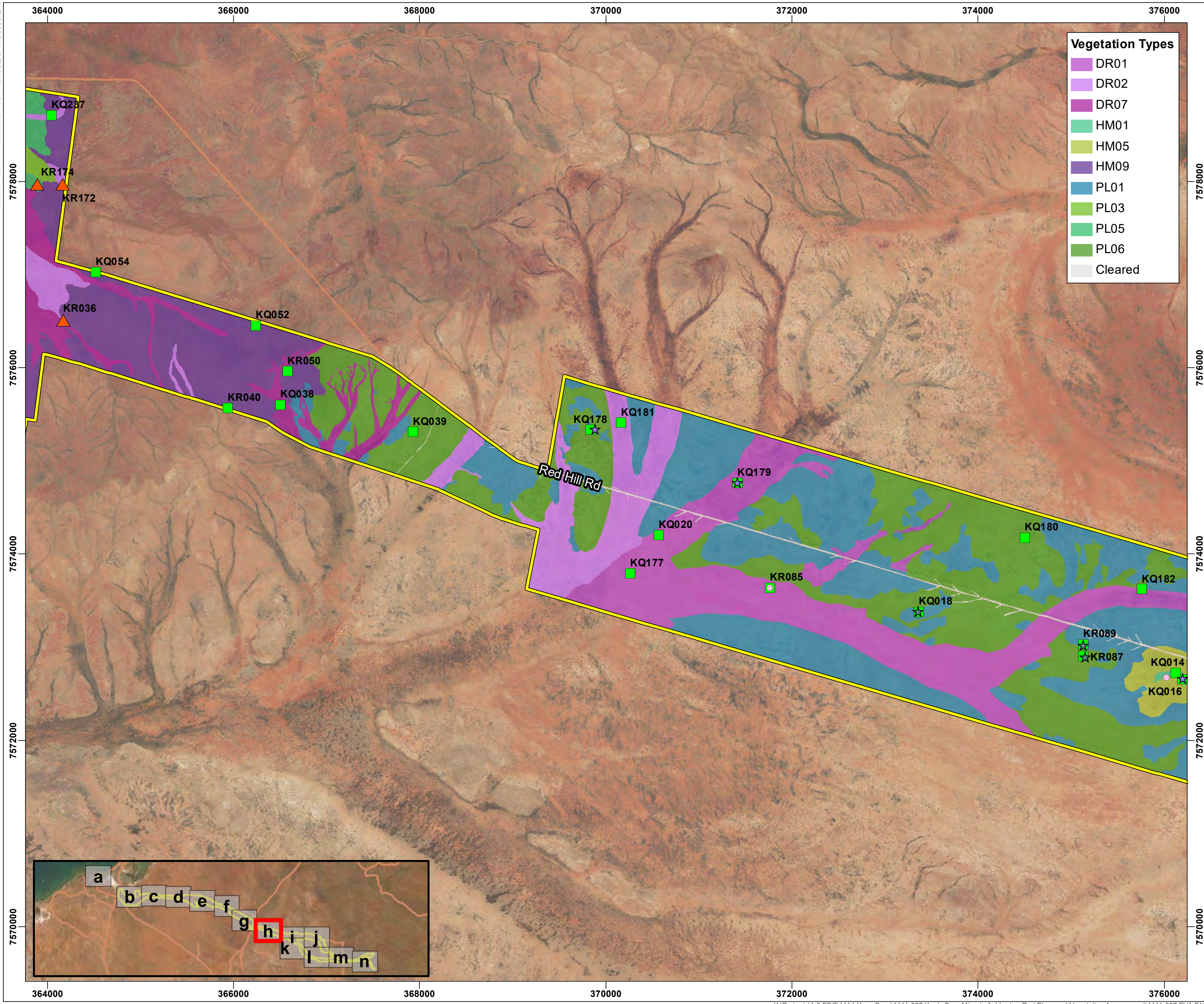

Legend

Roads

Survey Area

Sample Sites

Quadrat

Releve

Conservation Significant flora

Goodenia nuda (P4)

Introduced Flora Locations

**Cenchrus ciliaris*

**Portulaca pilosa*

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited

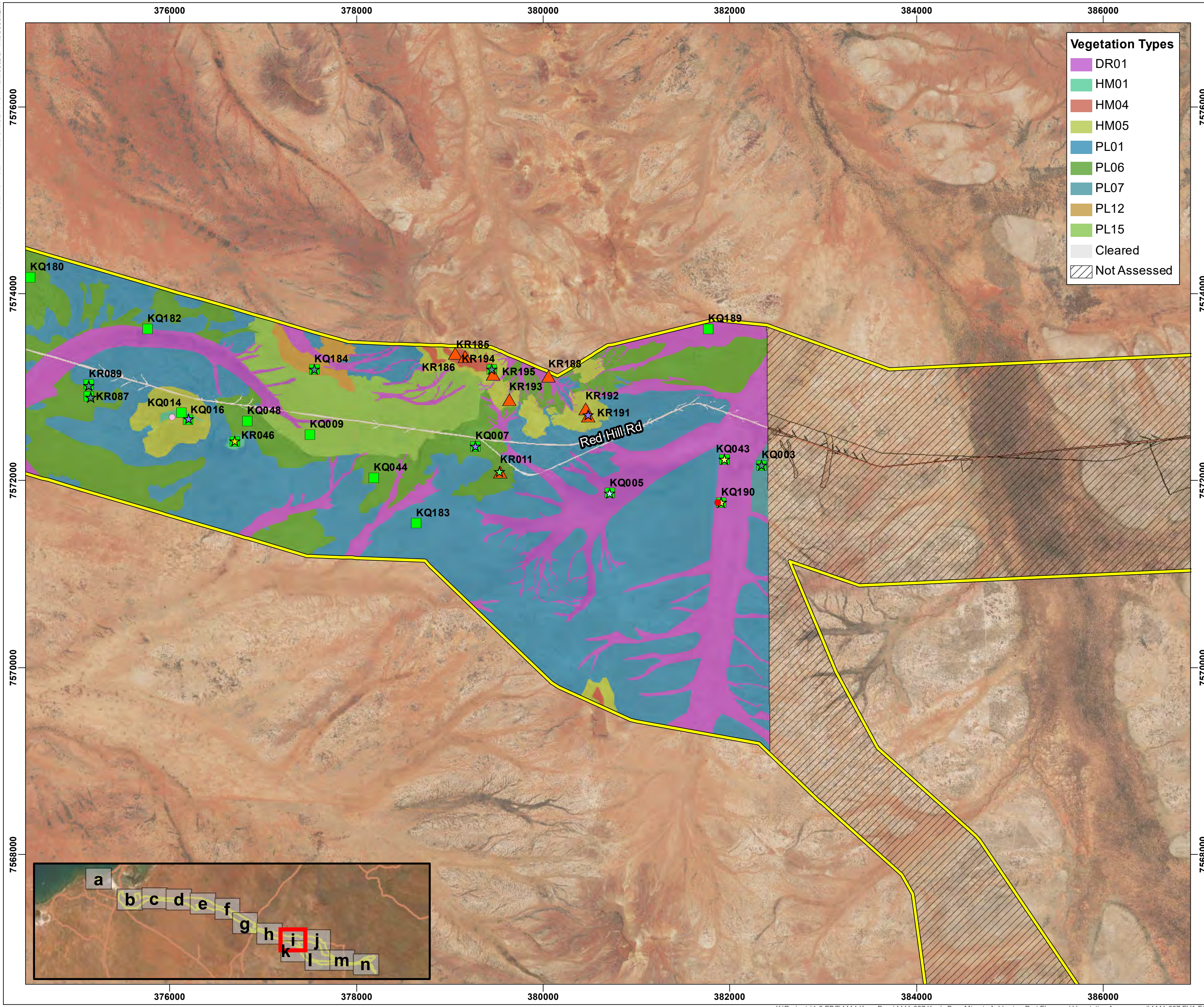
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11h

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads
Survey Area

Sample Sites
Quadrat
Releve

Conservation Significant flora
Eremophila forrestii subsp. *viridis* (P3)
Goodenia nuda (P4)

Introduced Flora Locations
**Bidens bipinnata*
**Cenchrus ciliaris*
**Cenchrus setiger*
**Flaveria trinervia*
**Malvastrum americanum*
**Passiflora foetida* var. *hispida*
**Portulaca pilosa*
**Setaria verticillata*
**Vachellia farnesiana*

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a 10 Bermondsey St, West Leederville, 6007 WA
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650 0 650 1,300
Meters
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LOCALITY MAP

ONSLOW
PEEDAMULLA
Onslow
YANREY
NANUTARRA ROADHOUSE

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

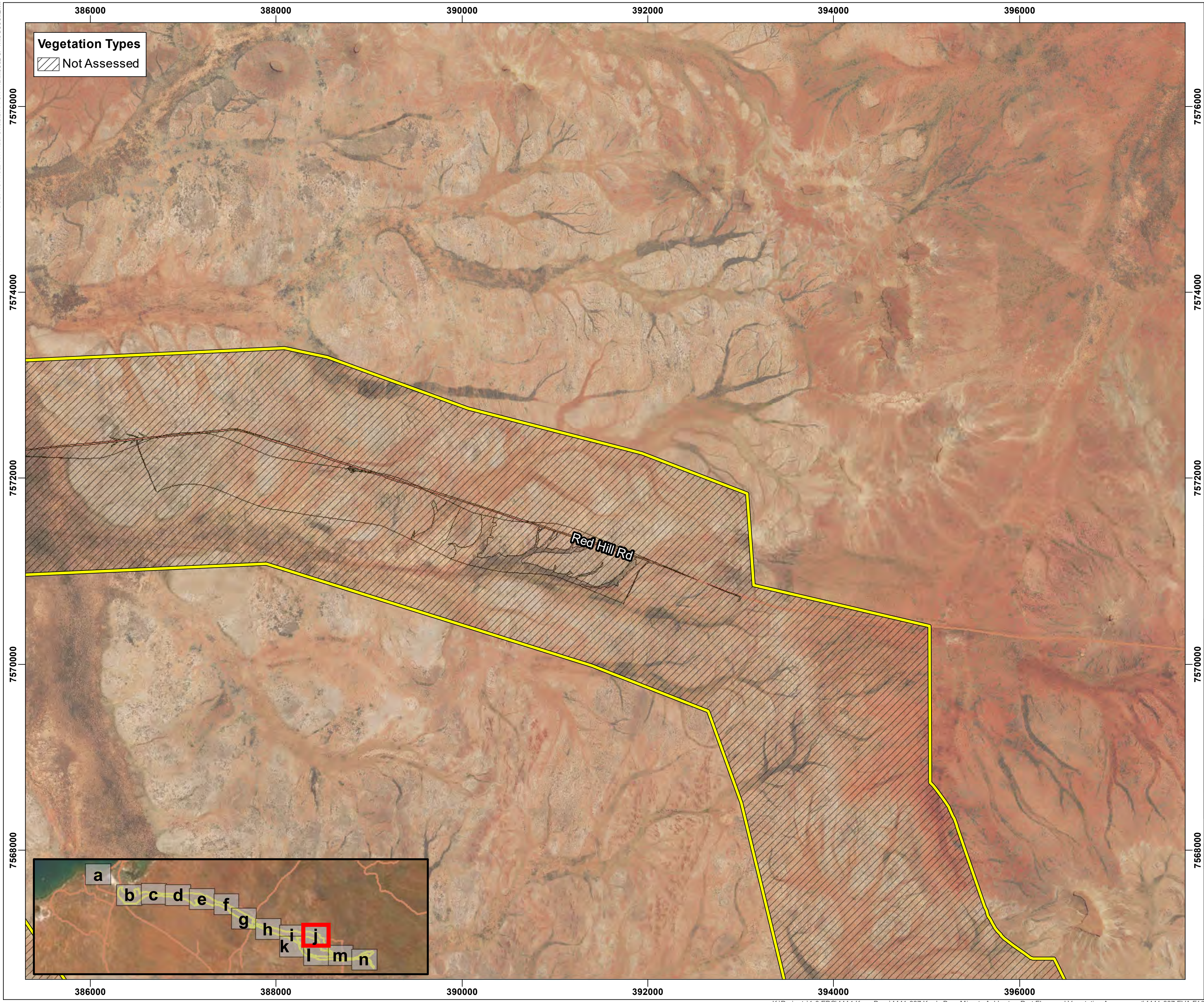
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11i

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads

Survey Area

360 environmental

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t (08) 9388 8360

f (08) 9381 2360

w www.360environmental.com.au

650 0 650 1,300

Meters

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited

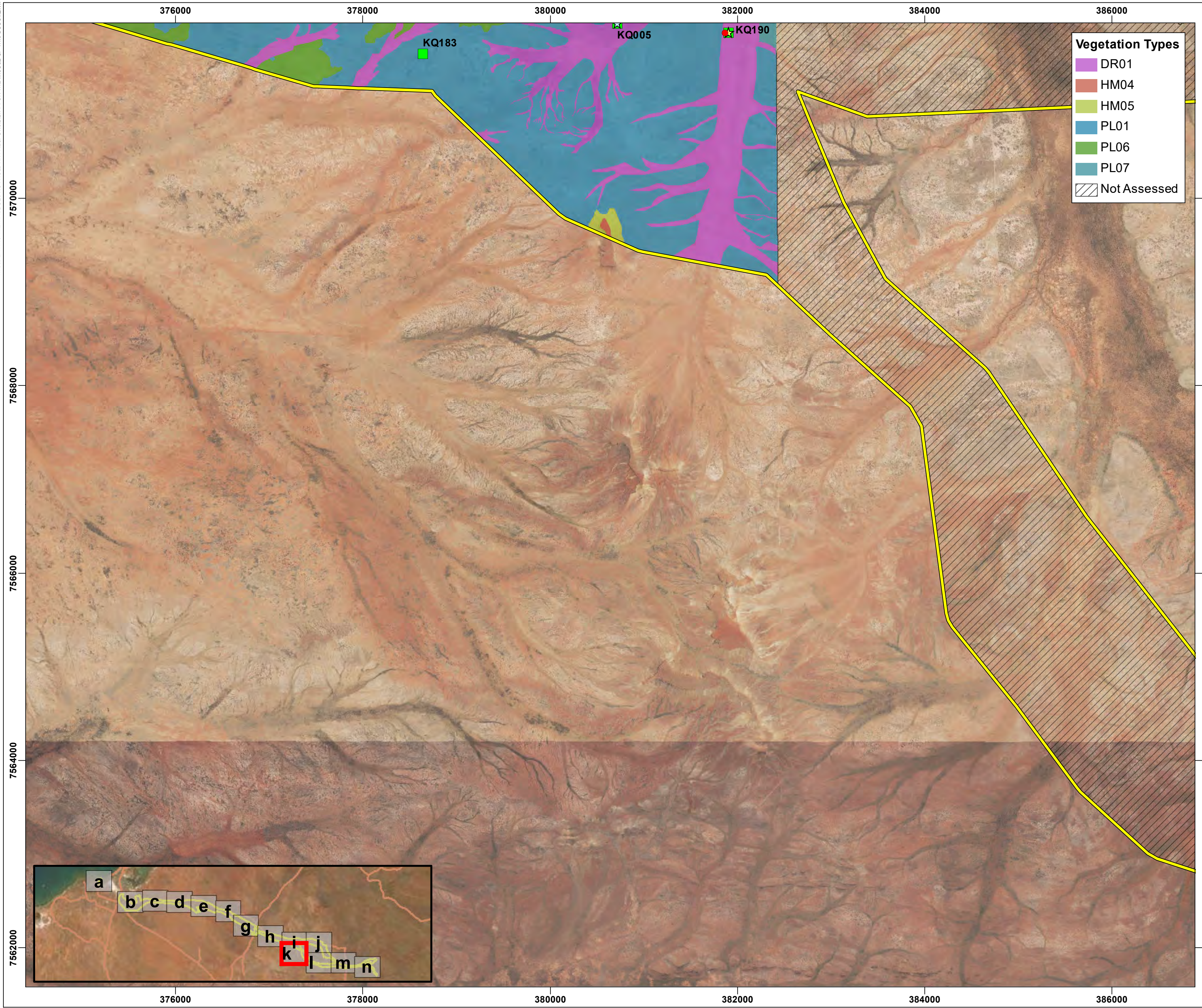
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11j

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Survey Area

Sample Sites

Quadrat

Conservation Significant flora

Eremophila forrestii subsp. *viridis* (P3)

Introduced Flora Locations

**Cenchrus ciliaris*

**Cenchrus setiger*

**Malvastrum americanum*

**Setaria verticillata*

**Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

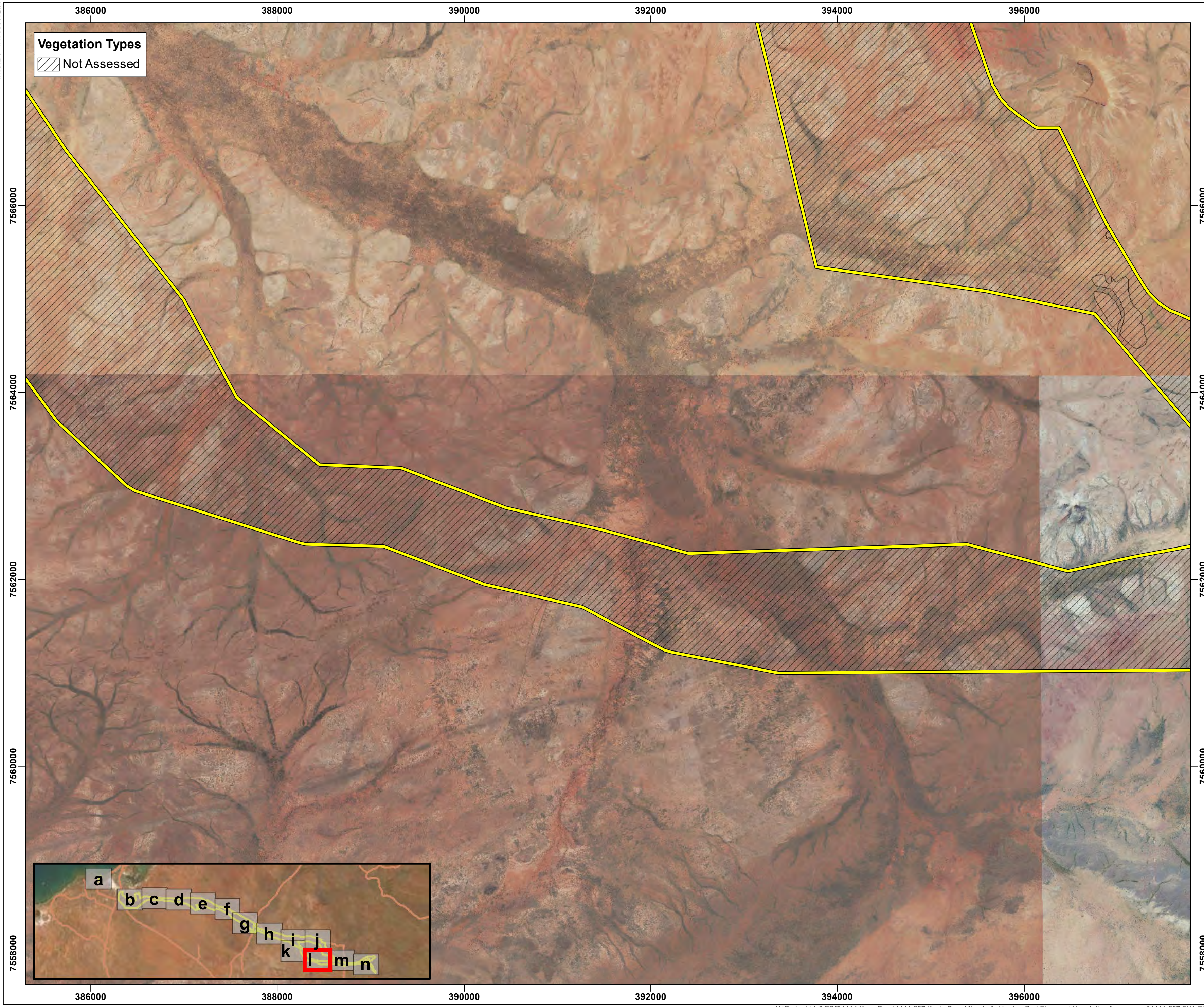
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11k

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Survey Area

360 environmental

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

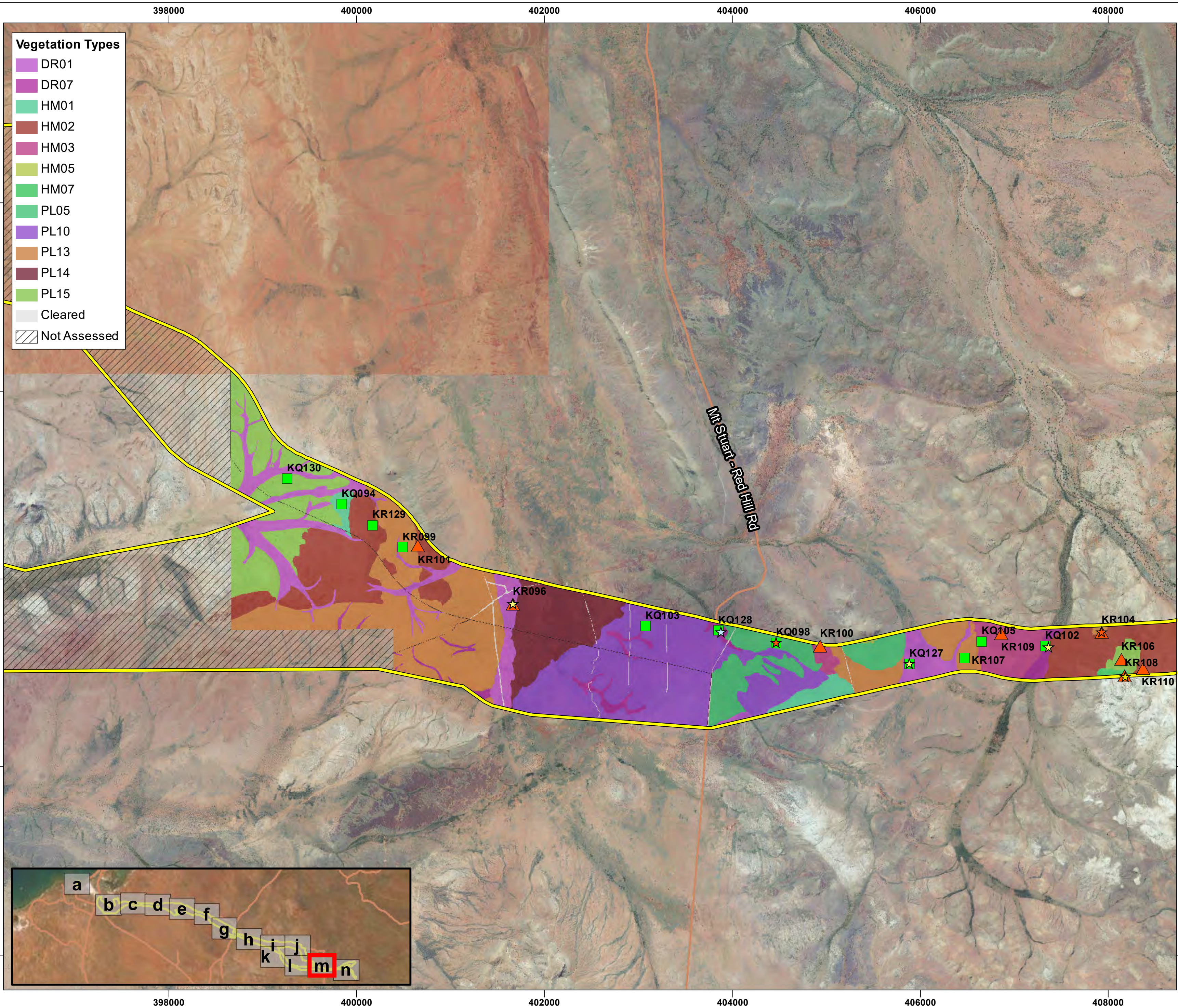
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11l

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Roads
Survey Area

Sample Sites

Quadrat
Releve

Introduced Flora Locations

**Echinochloa colona*
**Euphorbia hirta*
**Flaveria trinervia*
**Malvastrum americanum*
**Setaria verticillata*
**Tribulus terrestris*
**Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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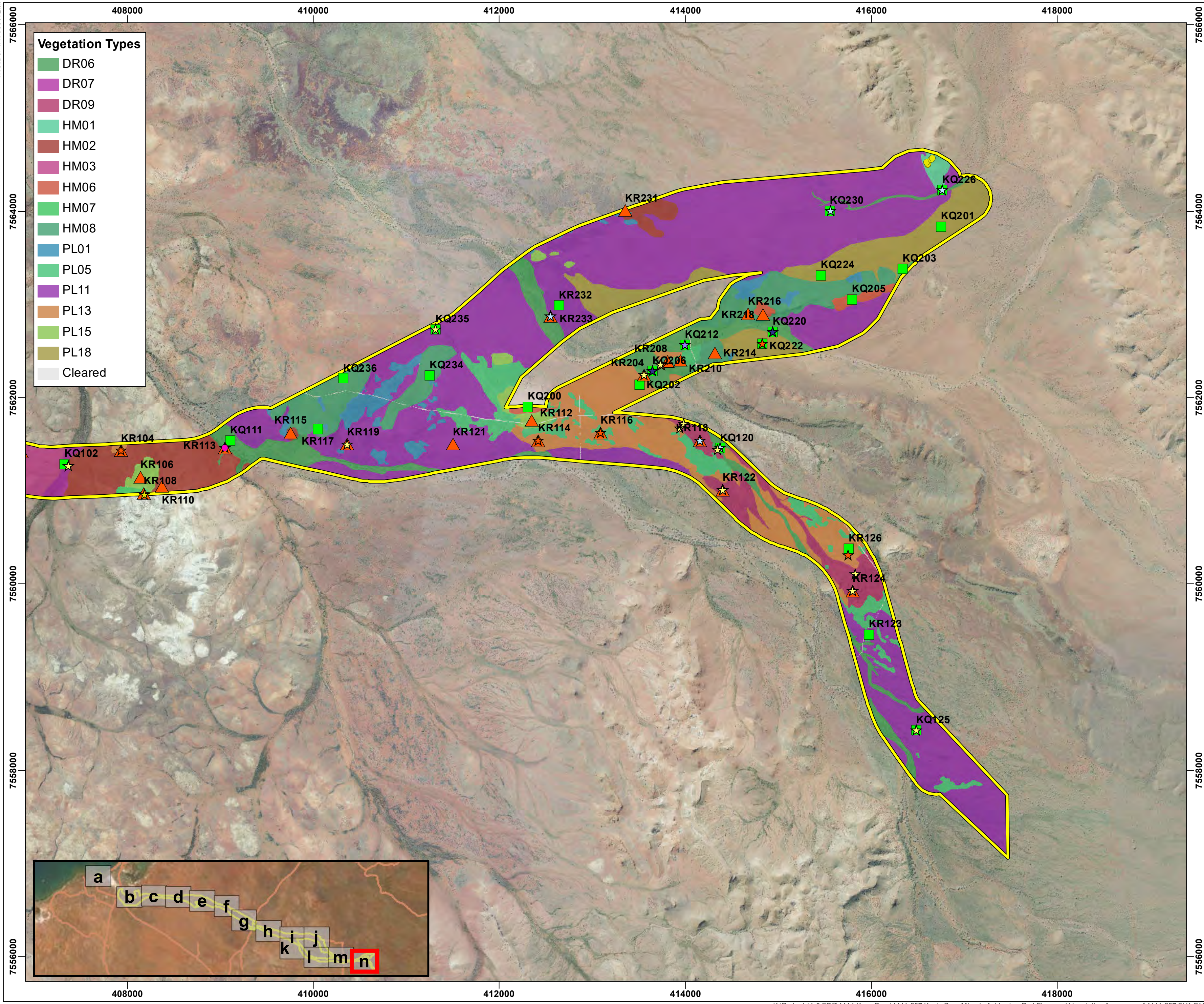
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11m

Vegetation Types, Conservation Significant Flora and Introduced Flora

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F10 Vegetation Types Conservation Significant Flora and Introduced Flora.mxd



Legend

Survey Area

Sample Sites

- Quadrat
- Releve

Conservation Significant flora

- *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)
- *Triodia pisoliticola* (P3)

Introduced Flora Locations

- **Aerva javanica*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Euphorbia hirta*
- **Flaveria trinervia*
- **Malvastrum americanum*
- **Setaria verticillata*
- **Tribulus terrestris*
- **Vachellia farnesiana*

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LOCALITY MAP

PROJECT ID	DATE
4441 007	22/07/2021

HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 11n

Vegetation Types, Conservation Significant Flora and Introduced Flora

Legend

- Roads
- Survey Area

Vegetation Condition

- Excellent (E)
- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)
- Not Assessed (N/A)

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2020
- OTHER DATA SOURCED LANDGATE 2020
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2020
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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

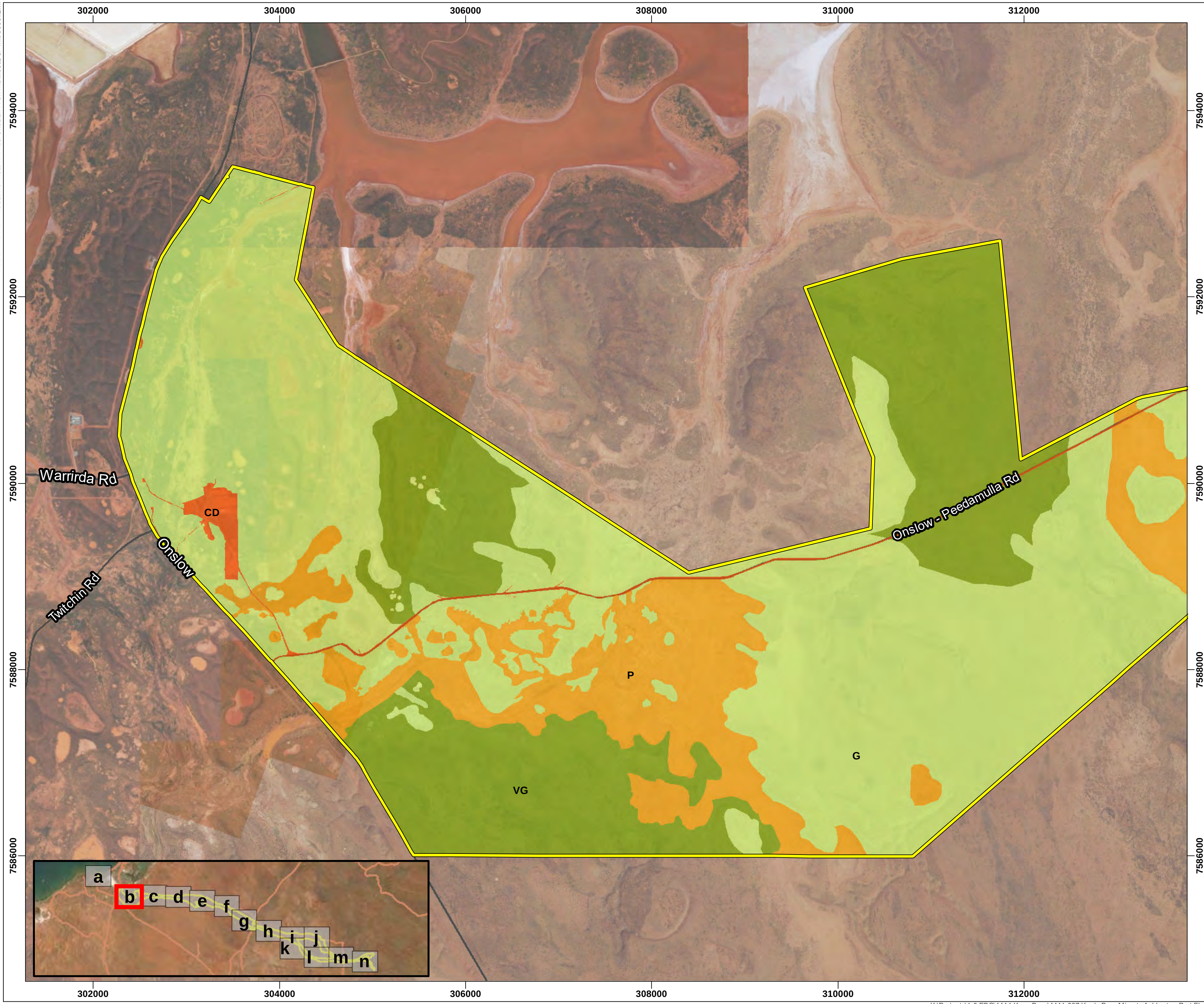
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12a

Vegetation Condition

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F11 Vegetation Condition.mxd



Legend

- Roads
- Survey Area

Vegetation Condition

- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12b

Vegetation Condition

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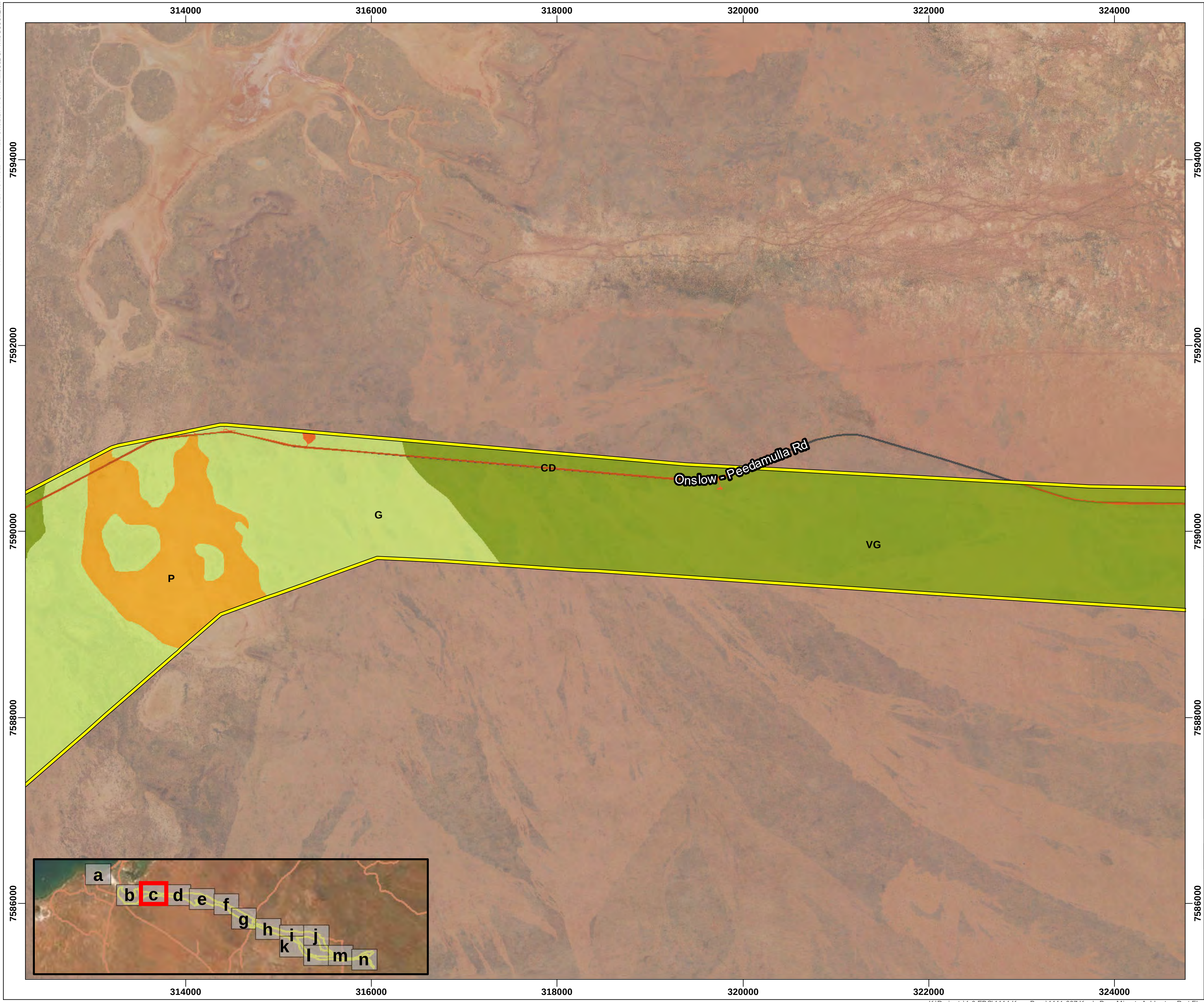

Legend

Roads

Survey Area

Vegetation Condition

Very Good (VG)

Good (G)

Poor (P)

Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited

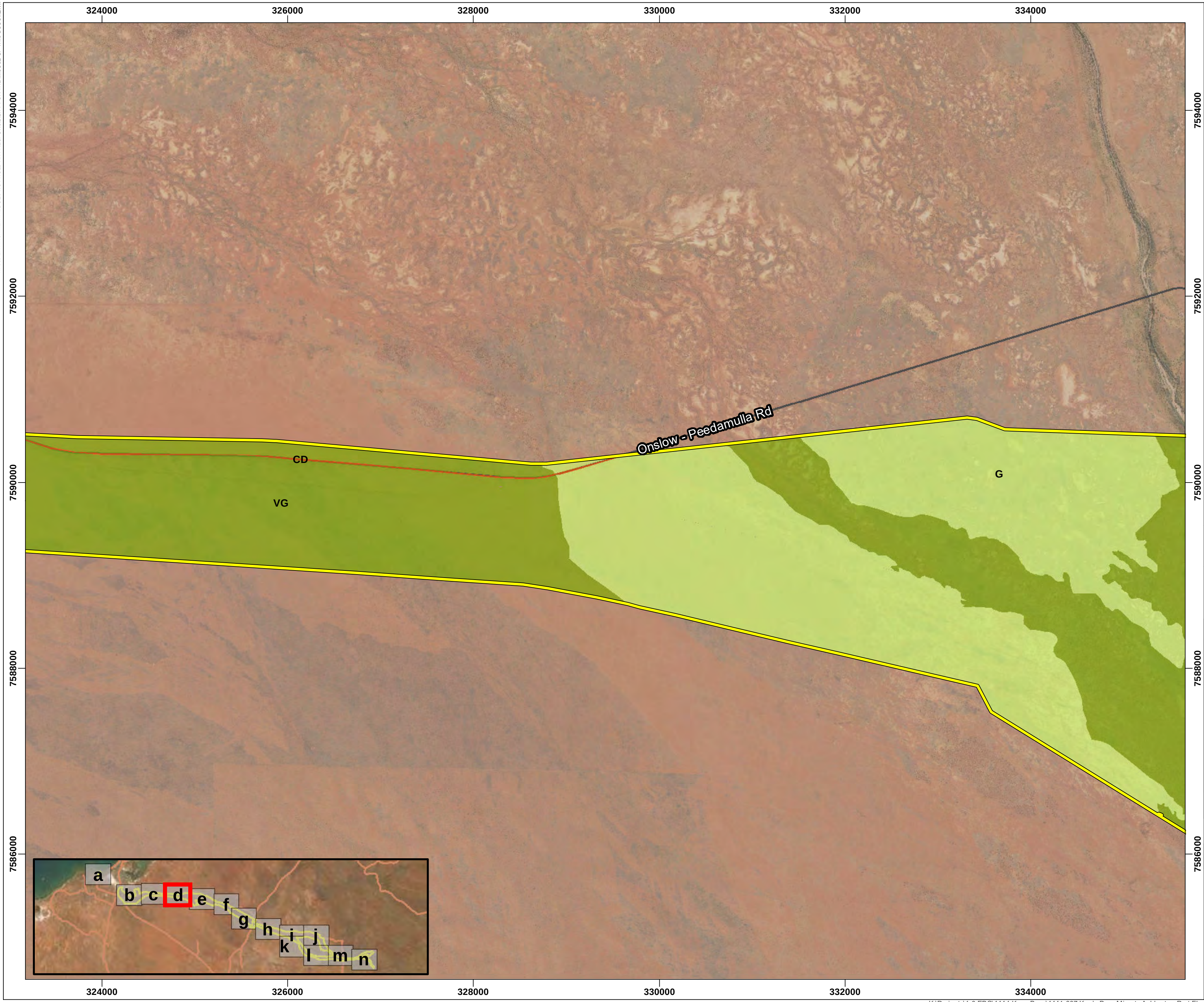
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12c

Vegetation Condition

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F11 Vegetation Condition.mxd



Legend

Roads

Survey Area

Vegetation Condition

Very Good (VG)

Good (G)

Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

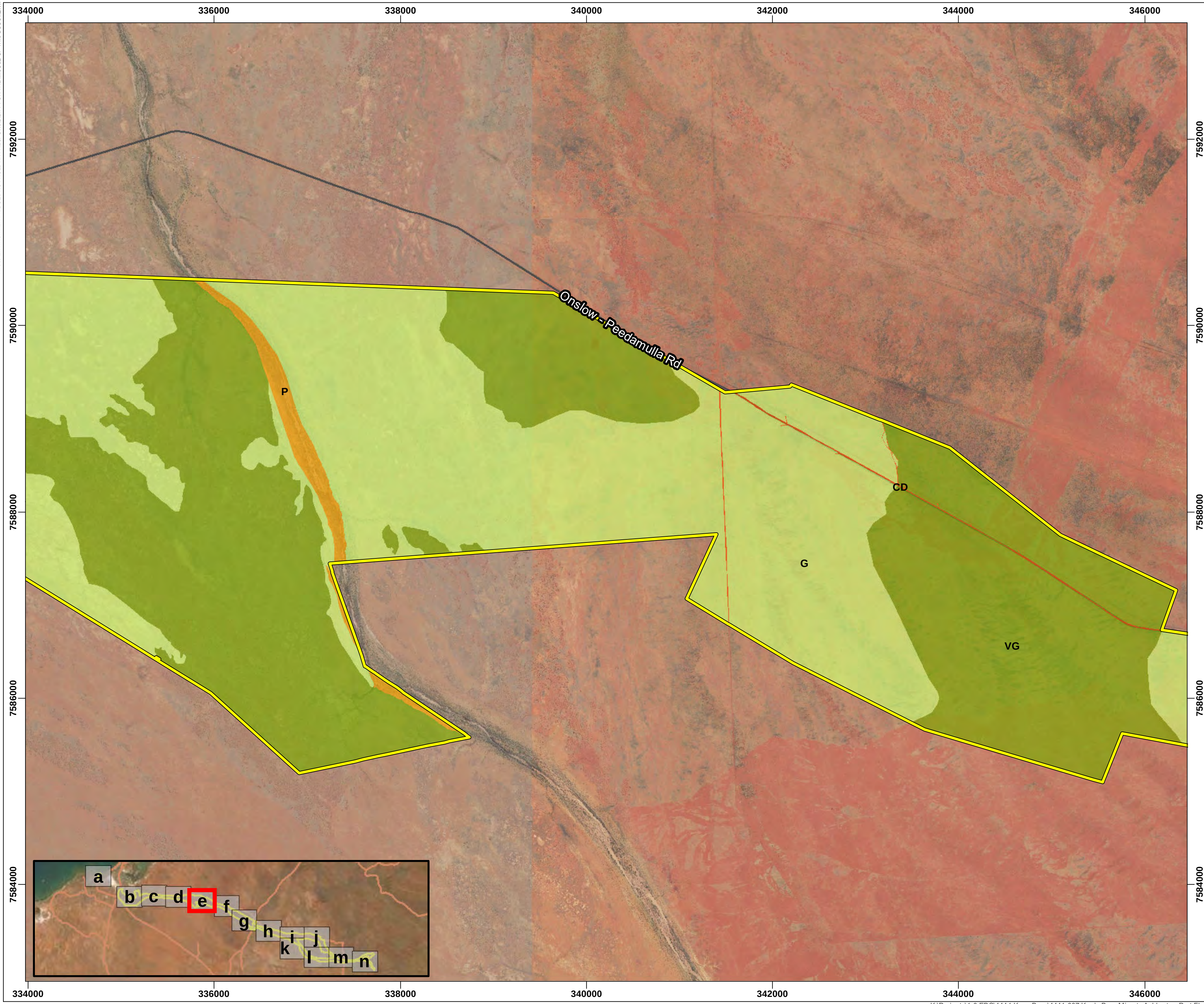
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12d

Vegetation Condition

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F11 Vegetation Condition.mxd



Legend

- Roads
- Survey Area

Vegetation Condition

- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

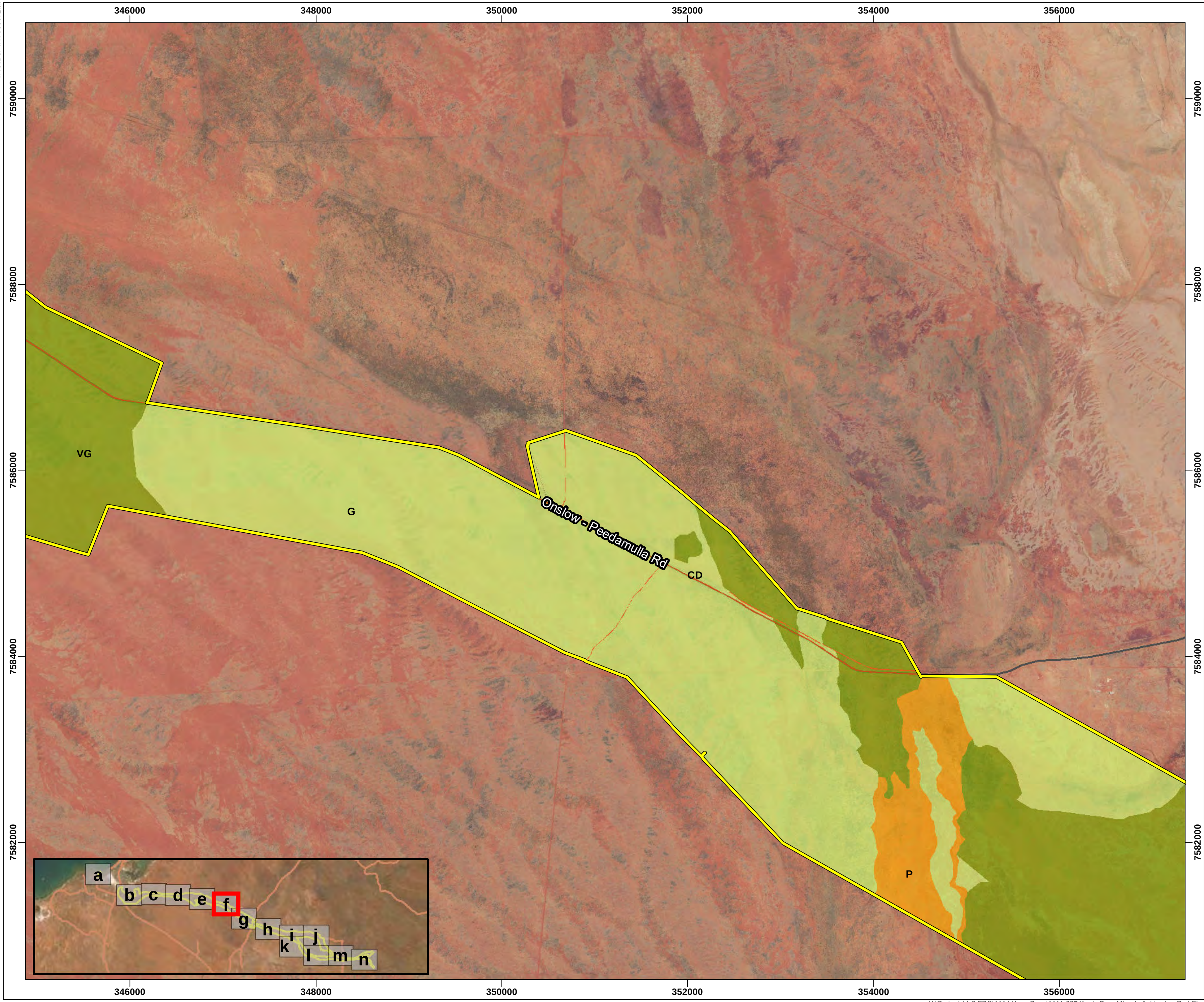
CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12e

Vegetation Condition



Legend

Roads

Survey Area

Vegetation Condition

- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)

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LOCALITY MAP

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GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12f

Vegetation Condition

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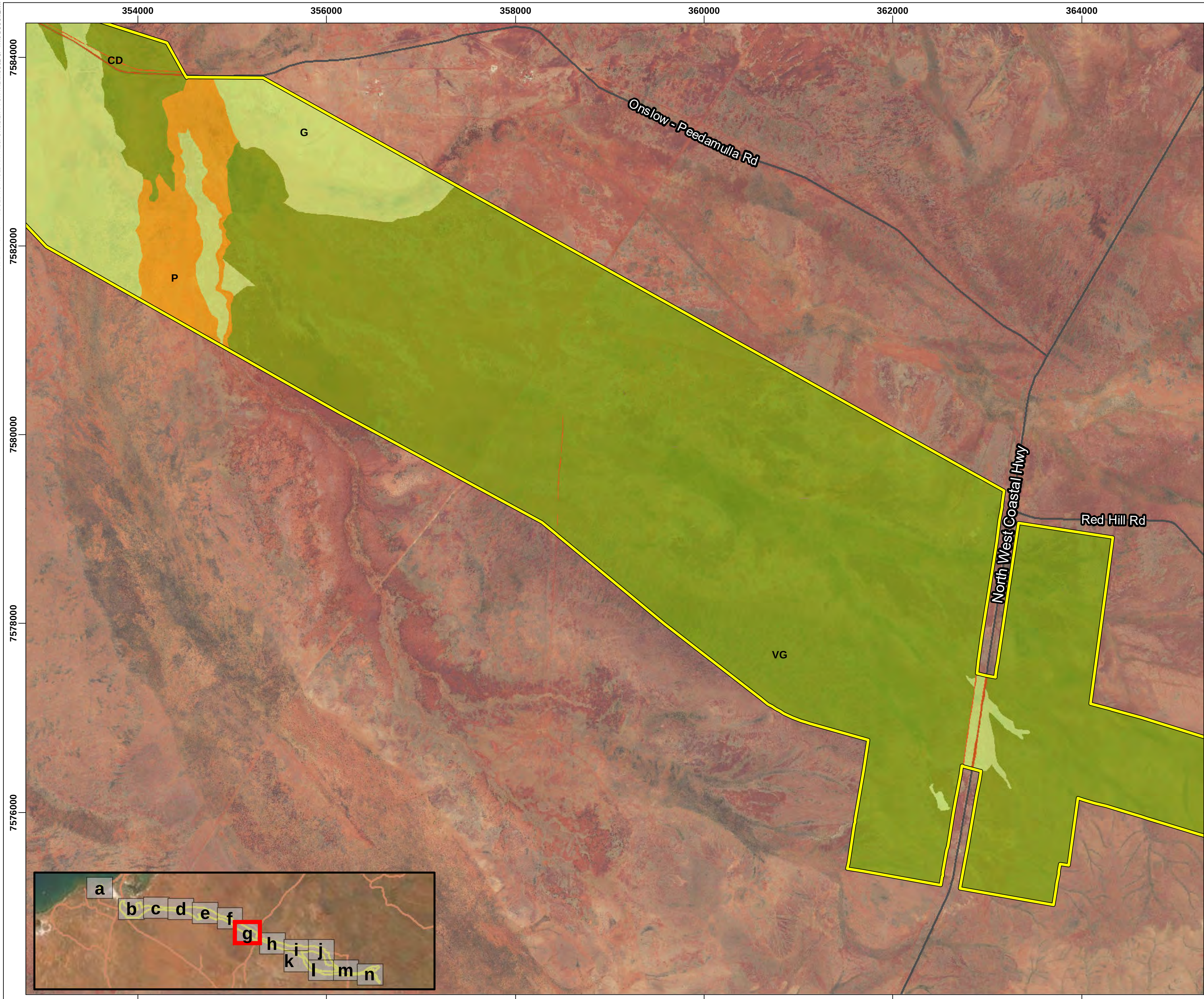

Legend

- Roads
- Survey Area

Vegetation Condition

- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)

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LOCALITY MAP

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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12g

Vegetation Condition

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F11 Vegetation Condition.mxd

Legend

- Roads
- Survey Area

Vegetation Condition

- Excellent (E)
- Very Good (VG)
- Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12h

Vegetation Condition

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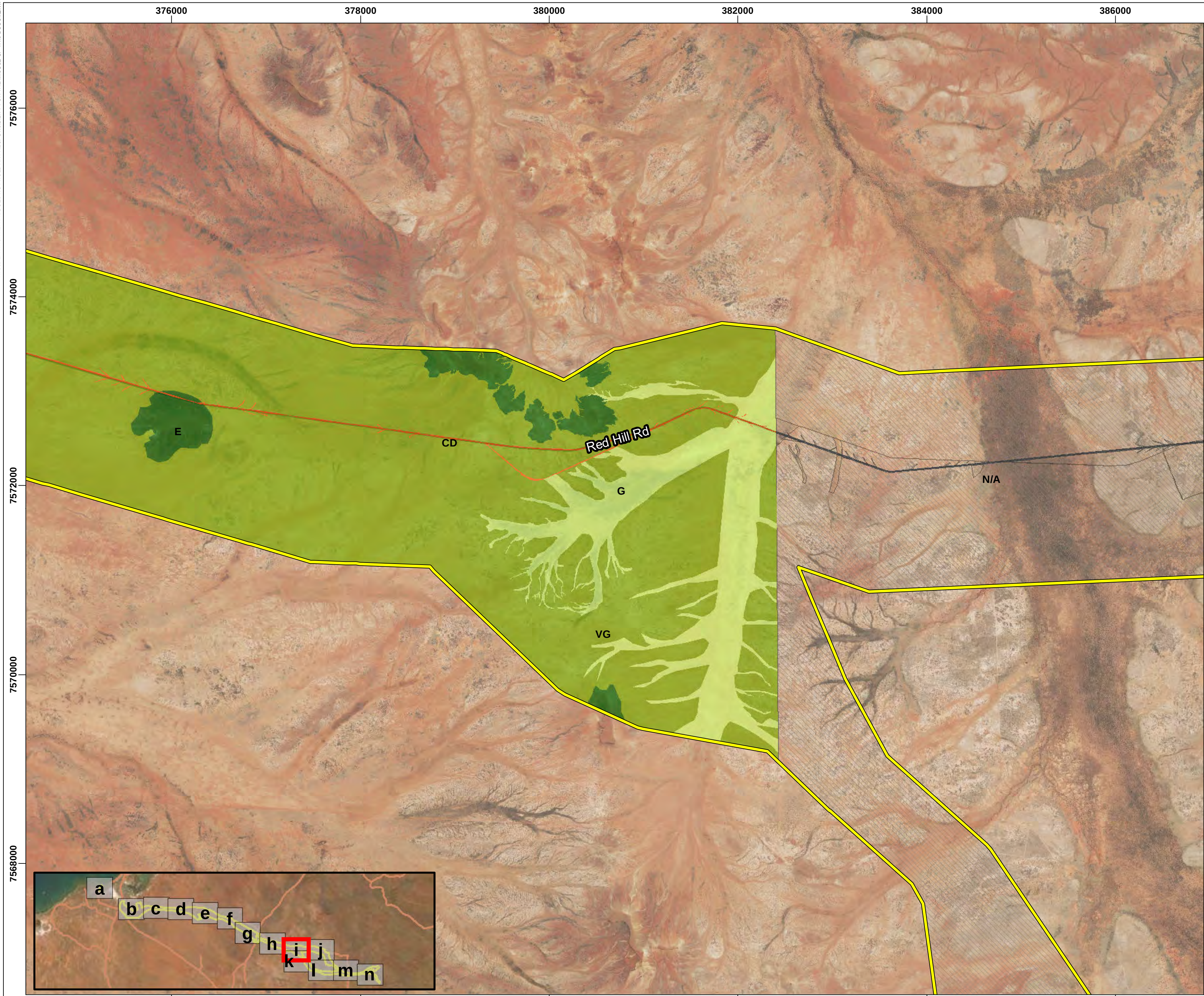

Legend

Roads

Survey Area

Vegetation Condition

Excellent (E)

Very Good (VG)

Good (G)

Completely Degraded (CD)

Not Assessed (N/A)

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LOCALITY MAP

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HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12i

Vegetation Condition

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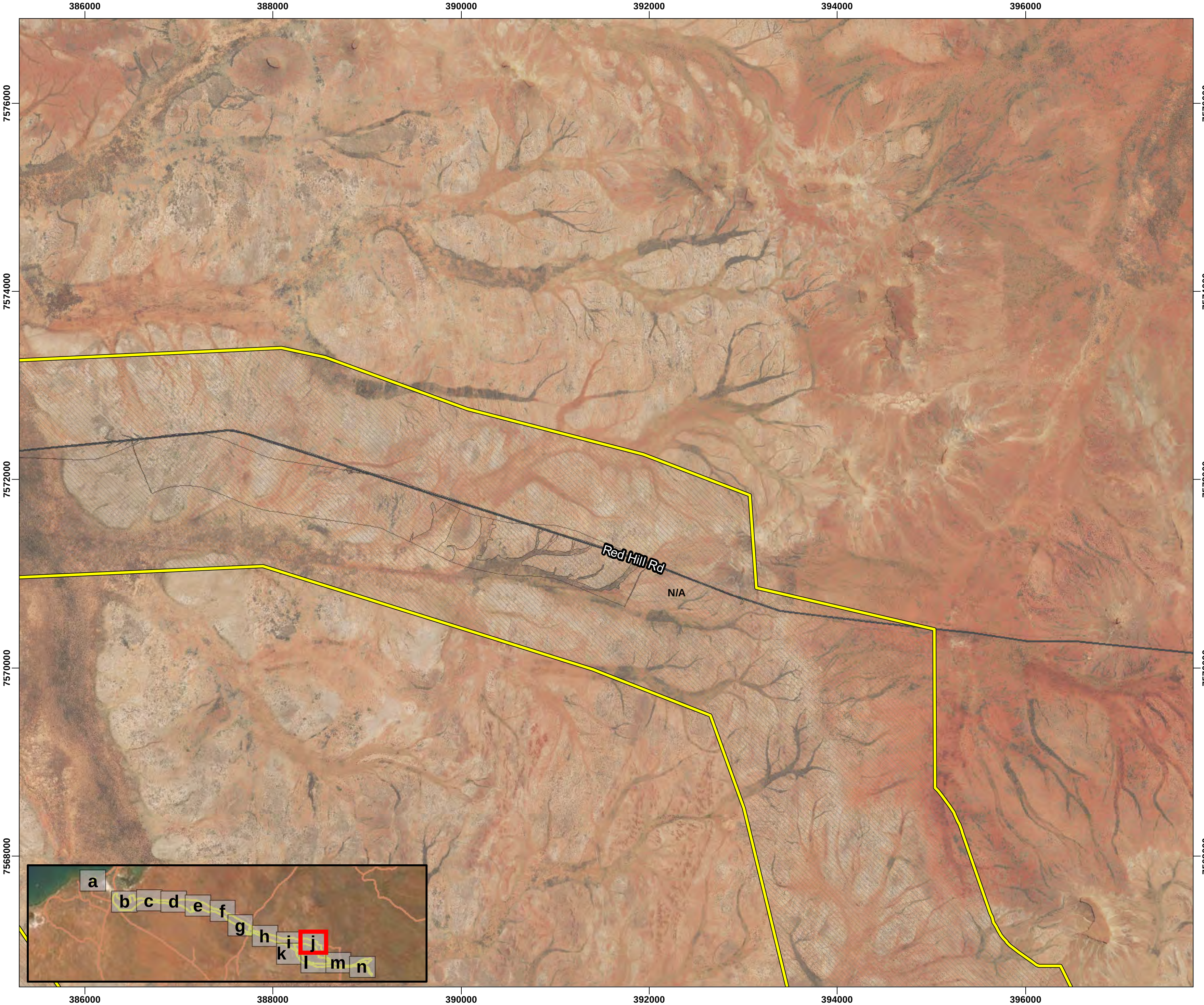

Legend

- Roads
- Survey Area

Vegetation Condition

- Not Assessed (N/A)

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12j

Vegetation Condition

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F11 Vegetation Condition.mxd

Legend

Survey Area

Vegetation Condition

Excellent (E)
Very Good (VG)
Good (G)
Not Assessed (N/A)

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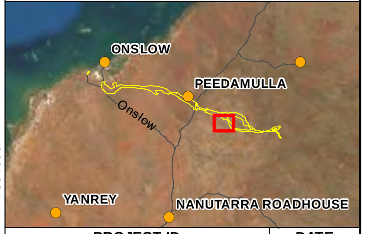
LOCALITY MAP



PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Flora and Vegetation Assessment

Figure 12k

Vegetation Condition

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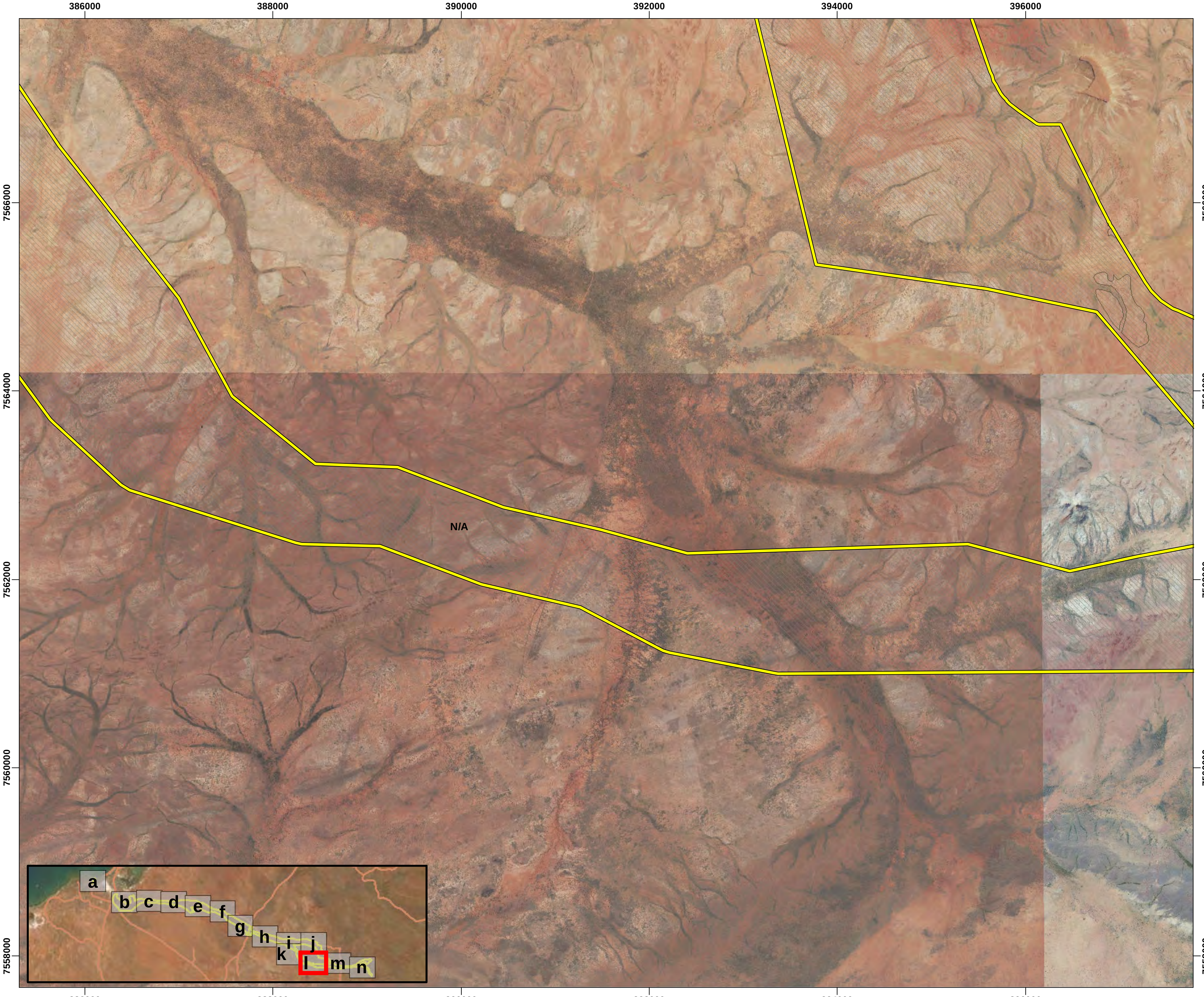

Legend

Survey Area

Vegetation Condition

Not Assessed (N/A)

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Flora and Vegetation Assessment

Figure 12l

Vegetation Condition

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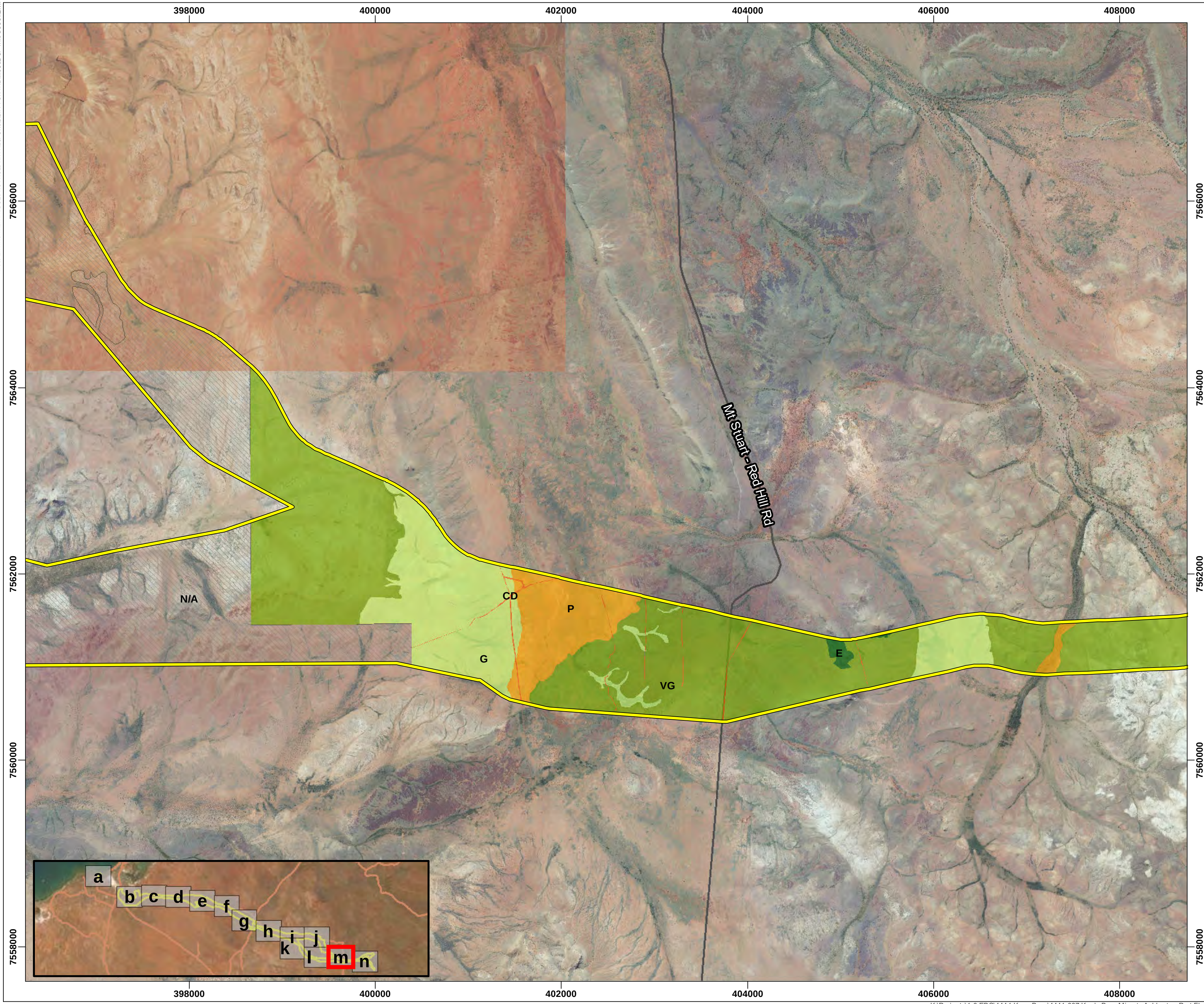

Legend

- Roads
- Survey Area

Vegetation Condition

- Excellent (E)
- Very Good (VG)
- Good (G)
- Poor (P)
- Completely Degraded (CD)
- Not Assessed (N/A)

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12m

Vegetation Condition

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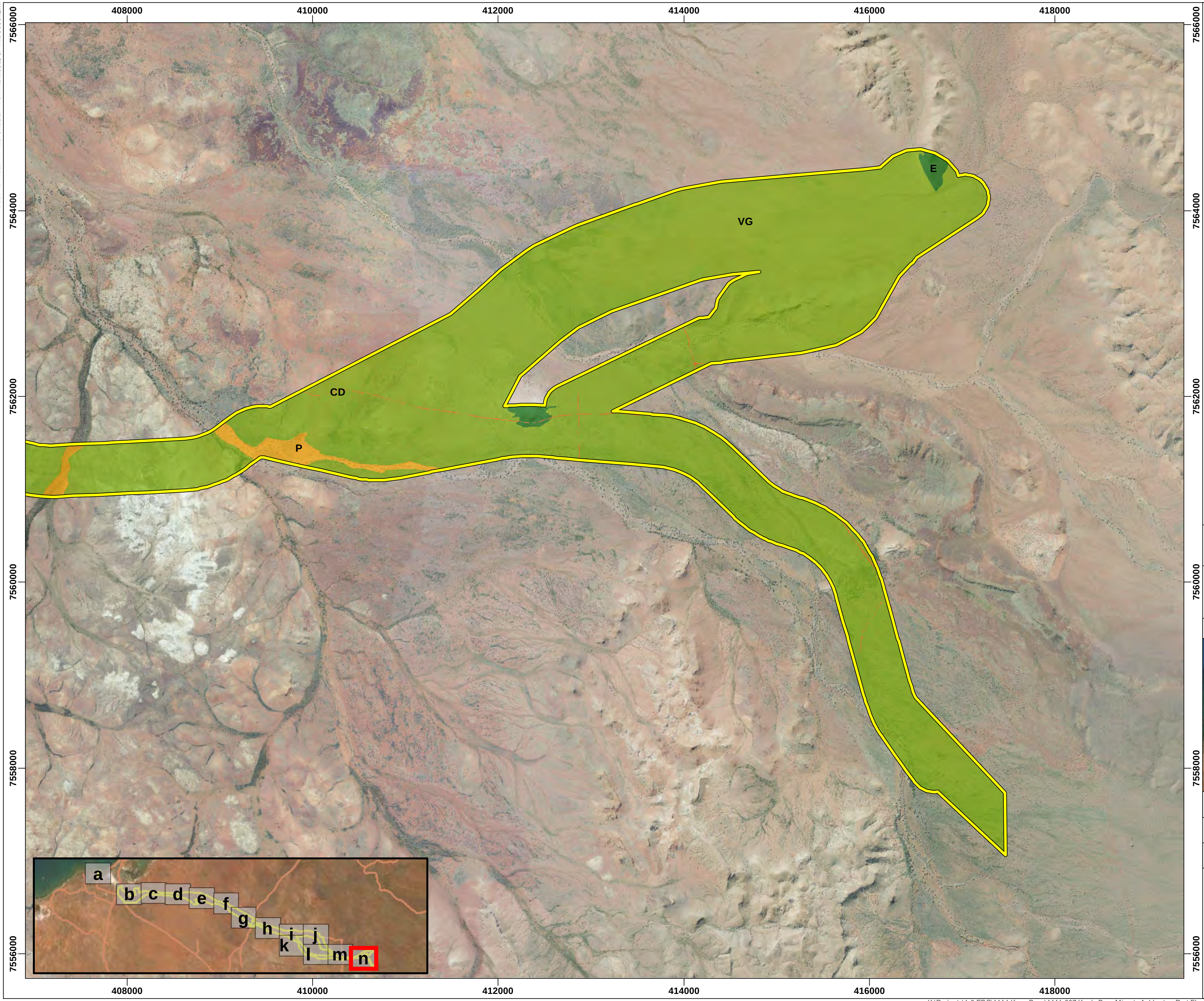

Legend

Survey Area

Vegetation Condition

- Excellent (E)
- Very Good (VG)
- Poor (P)
- Completely Degraded (CD)

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

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LFV	MS	MS	0

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 12n

Vegetation Condition

4.2.9 Vegetation of Conservation Significance

4.2.9.1 Threatened and Priority Ecological Communities

No vegetation representative of any Commonwealth or State listed TECs was recorded within the Survey Area.

One State listed PEC; the Tanpool Land System Priority 1 ecological community has been identified by DBCA within the Survey Area (Figure 13). This PEC is identified by the broad longitudinal geology, which is expressed much more prominently north of the survey area. The mapped patches of this PEC cover not only the geology, but also a ~500 m buffer surrounding it. The patches mapped cover 214.56 ha, of which 77.61 ha would be considered the landform associated with the PEC. The PEC is located around the centre of the AIP (Figure 12f, 12g).

The vegetation covering the landform is mapped as unit PL01: *Acacia xiphophylla* tall open shrubland over *Triodia wisean*a and/or *T. longiceps* (*T. epactia*) low open hummock grassland. Other instances of vegetation unit PL01 are not analogous to the PEC, as the land system is only present in this single instance. The buffer of the PEC also covers vegetation units PL03 (1.48 ha, PL16 (16.69 ha, and PL20 (75.17 ha).

No other State listed PECs, or vegetation considered analogous to State listed PECs was recorded within the Survey Area.

4.2.9.2 Vegetation of Other Conservation Significance

Vegetation may be of significance for a range of reasons, other than a listing as a TEC or a PEC, including (Environmental Protection Authority, 2016a):

- Vegetation extent being below a threshold level
- Scarcity
- Unusual species
- Novel combinations of species
- A role as a refuge
- A role as a key habitat for threatened taxa or large populations representing a significant proportion of the local to regional total population of a taxon
- Being representative of the range of a unit (particularly a good local and/or regional example of a unit in 'prime' habitat, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range)
- A restricted distribution.

Of the 53 vegetation types defined across the Survey Area, 31 vegetation units could be considered locally significant as they support Priority flora species or species of other conservation significance (Table 15; Figure 13). There were also records of a population of *Eremophila forrestii* subsp. *?viridis* (P3) and a population of *Goodenia nuda* (P4) in cleared areas. Although cleared areas are not considered locally significant it is important to highlight that some priority flora species are disturbance opportunists and can occur in cleared sites.

Table 15: Locally Significant Vegetation Units in the Survey Area

Vegetation Unit	Survey Area Coverage*		Reason
	ha	%	
CT02	303.25	1.00	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), a population of *Eremophila forrestii* subsp. *viridis* (P3) and a population of *Lepidium pholidogynum*
CT03	1149.82	3.80	Supports a population of *Ipomoea coptica* and a population of *Lepidium pholidogynum*
CT07	82.72	0.27	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), a population of *Ipomoea coptica* and a population of *Minuria integerrima*
DS01	1365.31	4.52	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1) and a population of *Eremophila forrestii* subsp. *viridis* (P3)
DS02	1205.16	3.99	Supports a population of *Eremophila forrestii* subsp. *viridis* (P3)
DS03	570.79	1.89	Supports a population of *Eremophila forrestii* subsp. *viridis* (P3)
PL03	1900.60	6.29	Supports two populations of *Goodenia nuda* (P4) and a population of *Aristida inaequiglumis*
PL05	1133.69	3.75	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1) and a population of *Bulbostylis turbinata*
PL07	10.99	0.04	Supports a population of *Acacia cuthbertsonii* subsp. *cuthbertsonii*
PL08	595.96	1.97	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
PL11	799.49	2.64	Supports two populations of *Abutilon macrum*
PL13	466.42	1.54	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), a population of *Eremophila forrestii* subsp. *viridis* (P3) and a population of *Eremophila forrestii* subsp. *?viridis* (P3)
PL14	255.55	0.85	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
PL16	831.94	2.75	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
PL17	107.61	0.36	Supports a population of *Hibiscus verdcourtii*
PL19	2646.50	8.75	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), 11 visited populations of *Eremophila forrestii* subsp. *viridis* (P3) and three populations of *Acacia marramamba*

Vegetation Unit	Survey Area Coverage*		Reason
	ha	%	
PL20	212.72	0.70	Supports two populations of *Bulbostylis turbinata* and a population of *Cucumis ?picrocarpus*
PL21	296.18	0.98	Supports a population of *Euphorbia inappendiculata* var. *inappendiculata* (P2) and a population of *Goodenia triodiophila*
PL22	145.02	0.48	Supports a population of *Bulbostylis turbinata*
PL23	473.38	1.57	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), a population of *Goodenia nuda* (P4) and a population of *Bulbostylis turbinata*
PL24	51.90	0.17	Supports a population of *Eremophila forrestii* subsp. *viridis* (P3)
HM01	34.90	0.12	Supports a population of *Triodia pisoliticola* (P3) and a population of *Goodenia nuda* (P4)
HM04	11.30	0.04	Supports a population of *Amphipogon sericeus*
DR01	986.47	3.26	Supports a population of *Eremophila forrestii* subsp. *viridis* (P3), a population of *Goodenia nuda* (P4), a population of *Abutilon* macrum, a population of *Aristida ingrata* and a population of *Goodenia triodiophila*
DR03	66.52	0.22	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1), a population of *Eremophila forrestii* subsp. *?viridis* (P3) and a population of *Cucumis ?picrocarpus*
DR04	34.98	0.12	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1) and a population of *Cucumis ?picrocarpus*
DR05	11.15	0.04	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1) and a population of *Goodenia nuda* (P4)
DR06	138.65	0.46	Supports a population of *Euphorbia inappendiculata* var. *inappendiculata* (P2), a population of *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3), a population of *Aristida inaequiglumis* and a population of *Hibiscus verdcourtii*
DR07	202.38	0.67	Supports a population of *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3), two populations of *Abutilon macrum* and a population of *Goodenia triodiophila*
DR08	113.86	0.38	Supports a population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
DR09	59.74	0.20	Supports a population of *Abutilon macrum* and two populations of *Acacia cowleana*

*Values are rounded to one decimal place.

Four vegetation units identified in the Survey Area could be considered locally restricted in distribution as each is represented by less than 10 ha within the Survey Area, however aerial imagery indicates that all are well represented in the local area beyond the Survey Area (Table 16; Figure 13).

Table 16: Vegetation Units with Restricted Distribution in the Survey Area

Vegetation Unit	Survey Area Coverage		Comments
	ha	%	
CT01	0.37	<0.01	CT01 comprises Mangrove shrubland along tidal channels in the PPA portion of the Survey Area. Although there is limited representation of this vegetation type within the Survey Area it extends outside the Survey Area fringing the channels of the Onslow Estuarine Tidal Flat.
CT06	0.60	<0.01	CT06 comprises *Tecticornia* shrubland in claypans and tidal flats of the PPA portion of the Survey Area. This vegetation type does not extend far directly adjacent to the Survey Area as it is bounded by the existing port facility and associated roads to the west and inundated tidal areas to the east, however aerial imagery indicates this vegetation type is likely well represented to the west of the existing port facility.
DS04	6.36	0.02	This vegetation type occurs on very low dunes in the PPA portion of the Survey Area. This vegetation type does not extend far directly adjacent to the Survey Area as it is bounded by the existing port facility and associated roads to the west and inundated tidal areas to the east, however aerial imagery indicates this vegetation type is likely well represented to the west of the existing port facility.
HM07	2.61	0.01	This vegetation type occurs on low hills and mesas. Aerial imagery indicates that HM07 extends approximately 100 ha adjacent to the Survey Area therefore is not considered to be locally restricted.

4.2.10 Groundwater Dependent Vegetation

Groundwater dependant vegetation is wholly or partially dependant on permanent or intermittent access to groundwater to meet their water requirements. Groundwater dependant vegetation in the semi-arid and arid bioregions is typically associated with riparian and floodplain vegetation that includes facultative phreatophytes (e.g. *Eucalyptus camaldulensis*, *Eucalyptus victrix*), which are partially dependant on groundwater and/or obligative phreatophytes (e.g. *Melaleuca argentea*), which are wholly dependent on groundwater. Eight vegetation types within the Survey Area are considered to be potential groundwater dependent vegetation (Table 17; Figure 13).

Table 17: Potential Groundwater Dependant Vegetation in the Survey Area

Vegetation Type	Indicator species
DR03	*Eucalyptus camaldulensis, Eucalyptus victrix, Melaleuca argentea*
DR04	*Eucalyptus camaldulensis, Eucalyptus victrix, Melaleuca argentea*
DR06	*Eucalyptus camaldulensis, Eucalyptus victrix*
DR07	*Eucalyptus victrix*
DR08	*Eucalyptus victrix*
PL03	*Eucalyptus victrix*
PL20	*Eucalyptus victrix*
PL21	*Eucalyptus victrix*

Two vegetation units may be considered potential sheet flow dependent vegetation units due to the dominant presence of Mulga species (*Acacia aptaneura*). These units are only present in one section, near the centre of the Survey Area (Figure 11f, 11g), south of the Tanpool Landsystem (P1) PEC as described in Section 4.2.9 above. The Tanpool Landsystem PEC is a raised landform that may contribute water runoff to the Mulga dominated vegetation.

Legend

Survey Area

Conservation Significance

Restricted Distribution within Survey Area

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LOCALITY MAP

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

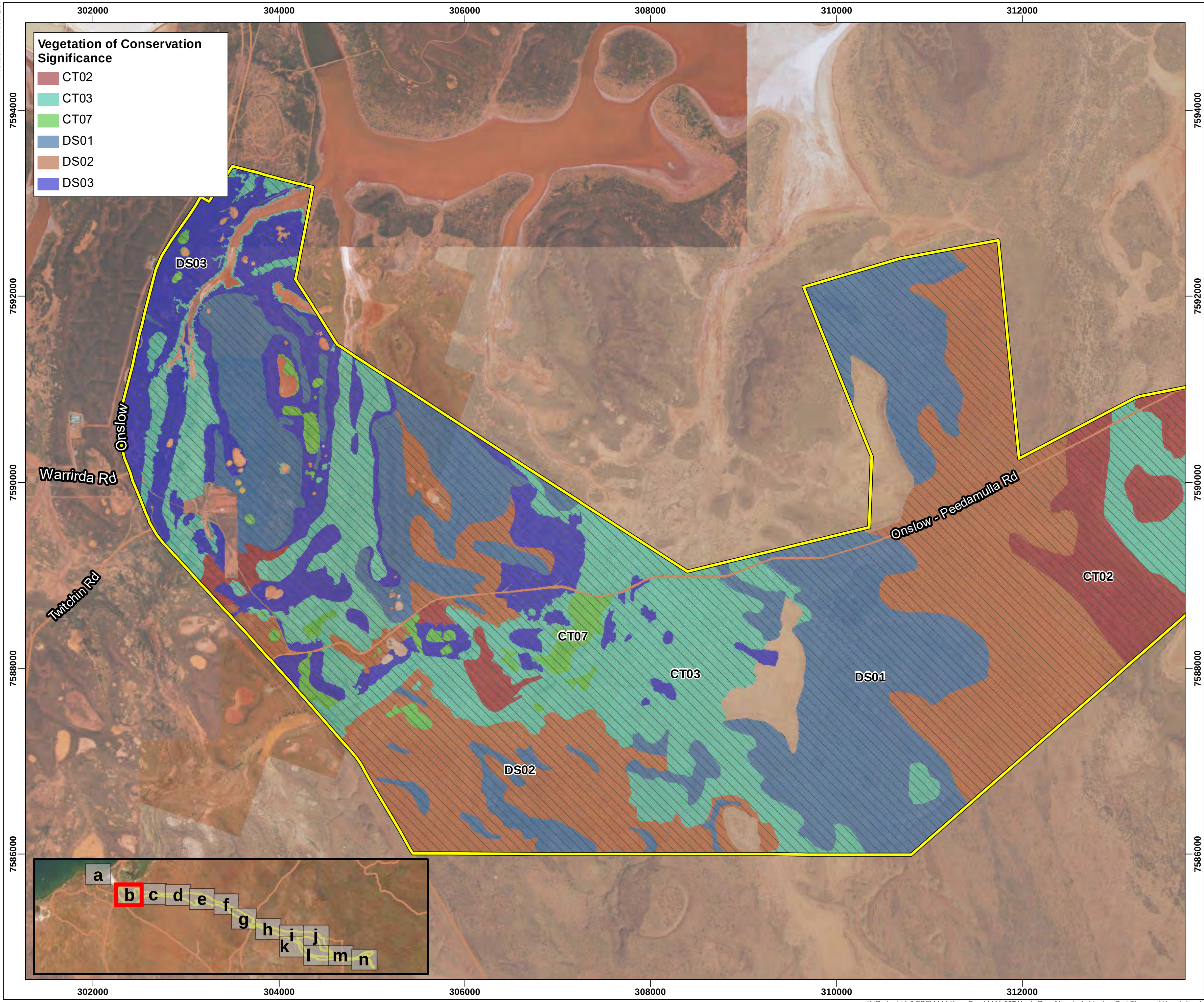
Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13a

Vegetation of Conservation Significance

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F12 Vegetation of Conservation Significance.mxd



Legend

Roads

Survey Area

Conservation Significance

Locally Significant

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13b

Vegetation of Conservation Significance

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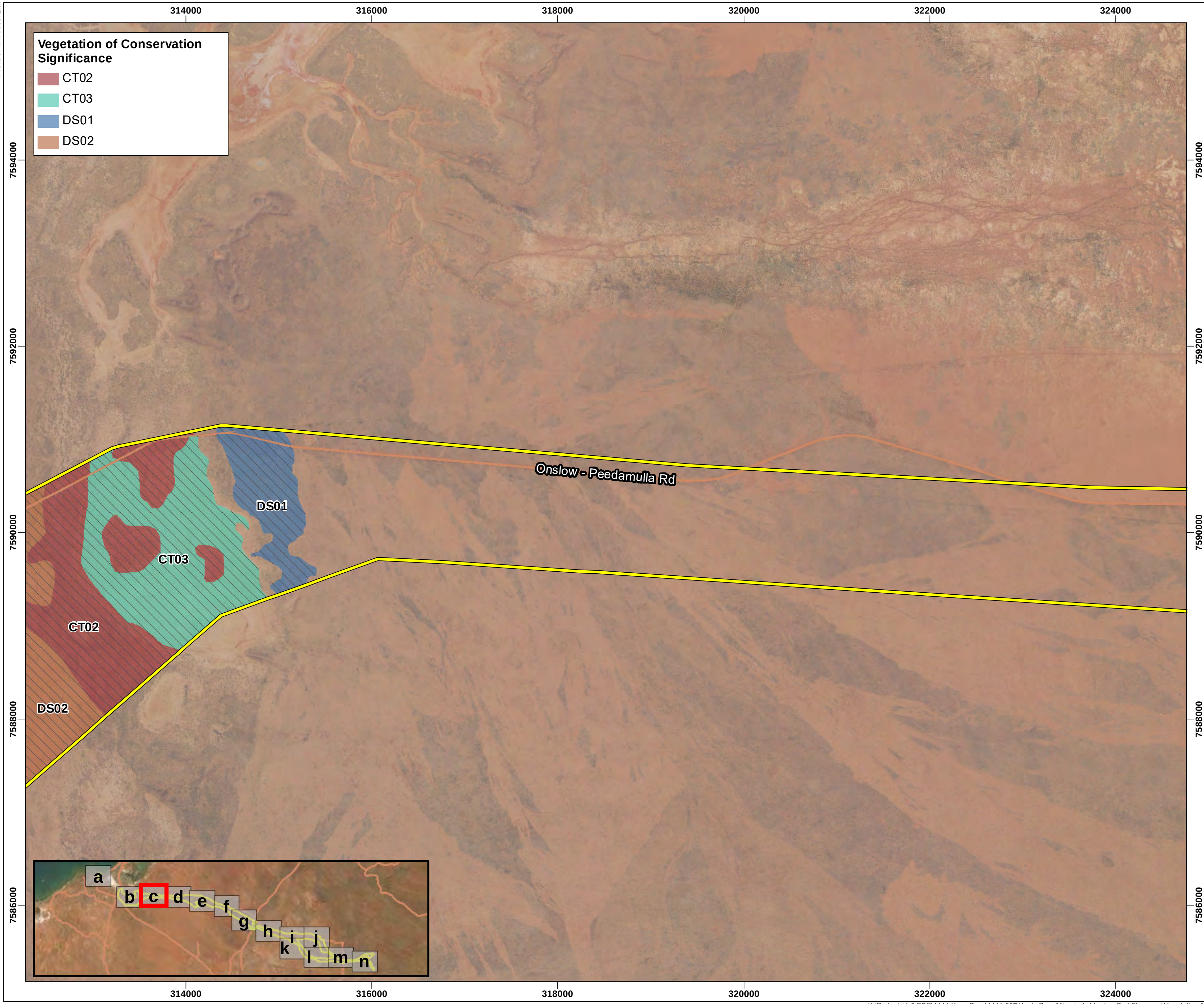

Legend

Roads

Survey Area

Conservation Significance

Locally Significant

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LOCALITY MAP

ONSLOW

PEEDAMULLA

Onslow

YANREY

NANUTARRA ROADHOUSE

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
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Flora and Vegetation Assessment

Figure 13c
Vegetation of Conservation Significance

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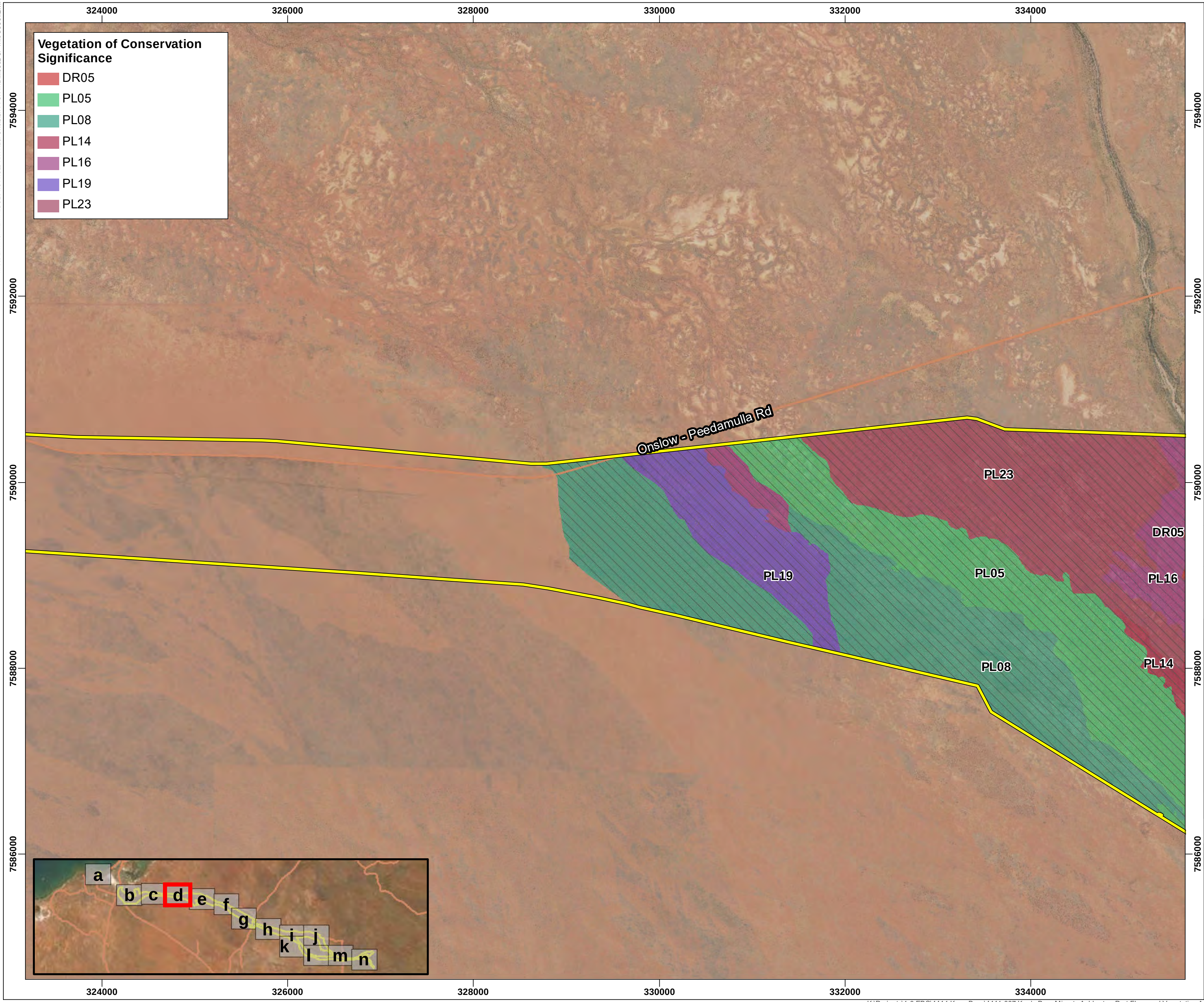

Legend

Roads

Survey Area

Conservation Significance

Locally Significant

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LOCALITY MAP

PROJECT ID			DATE
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HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13d
Vegetation of Conservation Significance

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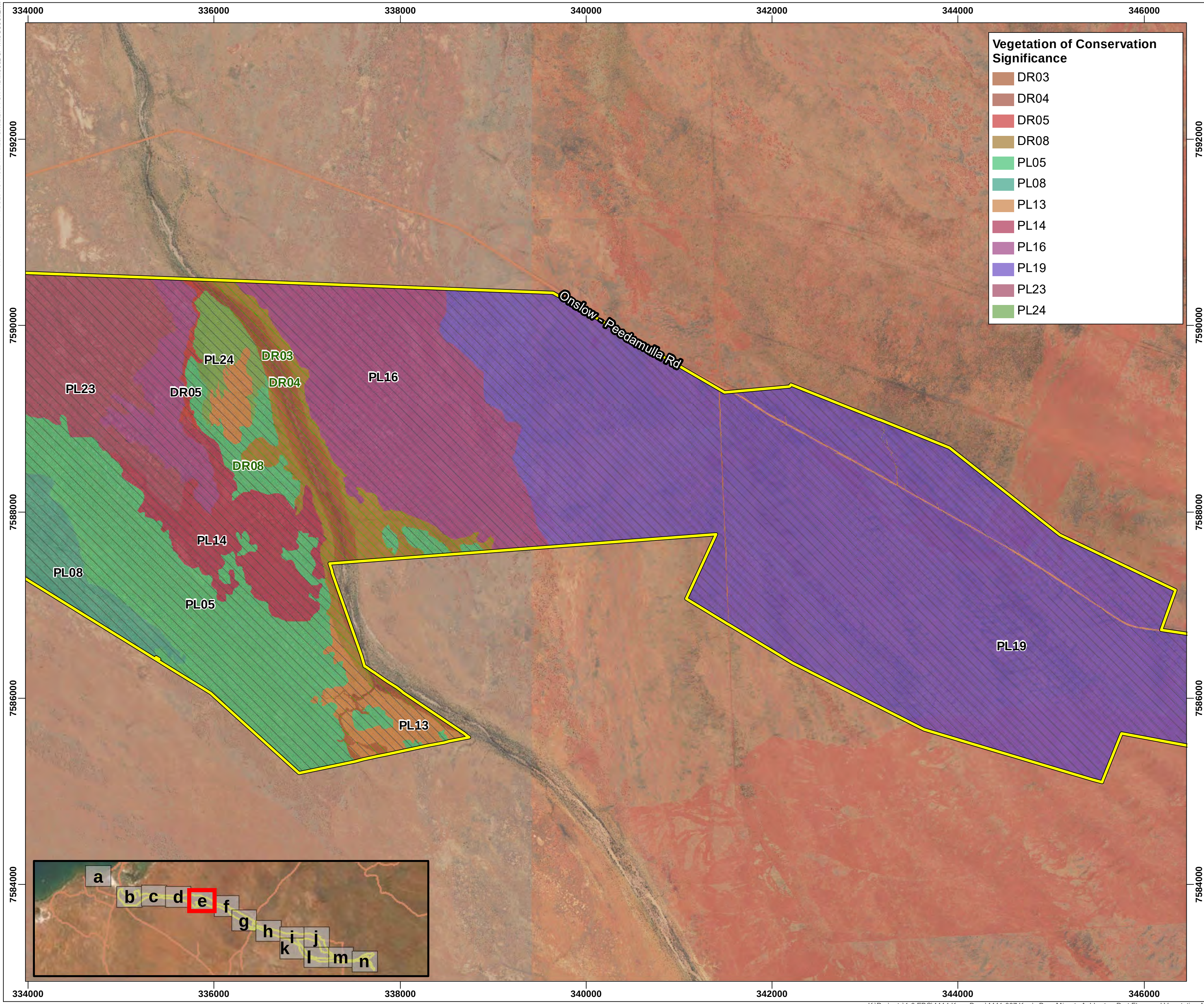

Legend

Roads

Survey Area

Conservation Significance

Locally Significant

Locally Significant and Potential Groundwater Dependant Vegetation

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LOCALITY MAP

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GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13e
Vegetation of Conservation Significance

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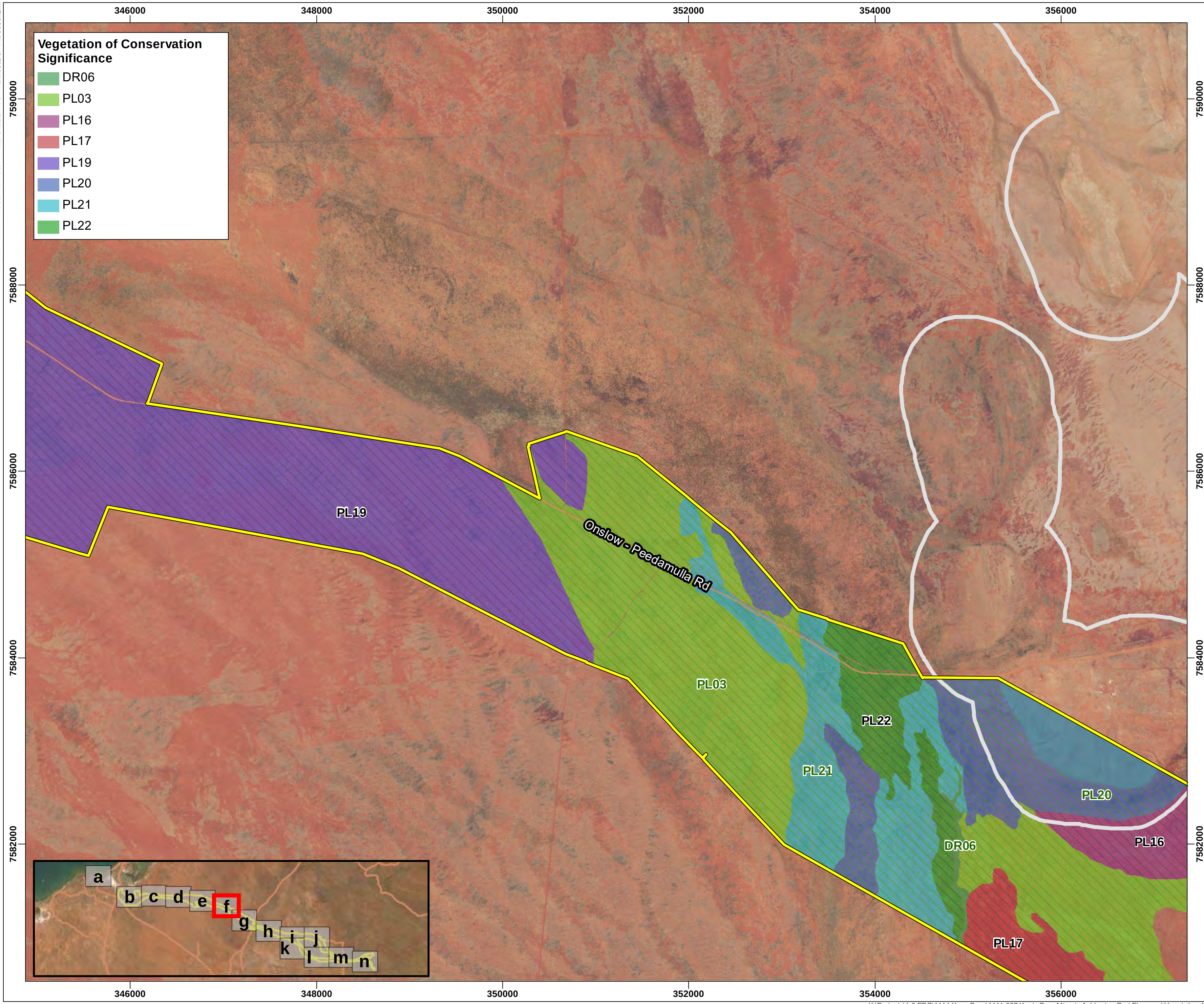

Legend

- Roads
- Survey Area
- Tanpool Land System - PEC

Conservation Significance

- Locally Significant
- Locally Significant and Potential Groundwater Dependant Vegetation

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LOCALITY MAP

PROJECT ID	DATE
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GDA 1994 MGA Zone 50

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Flora and Vegetation Assessment

Figure 13f
Vegetation of Conservation Significance

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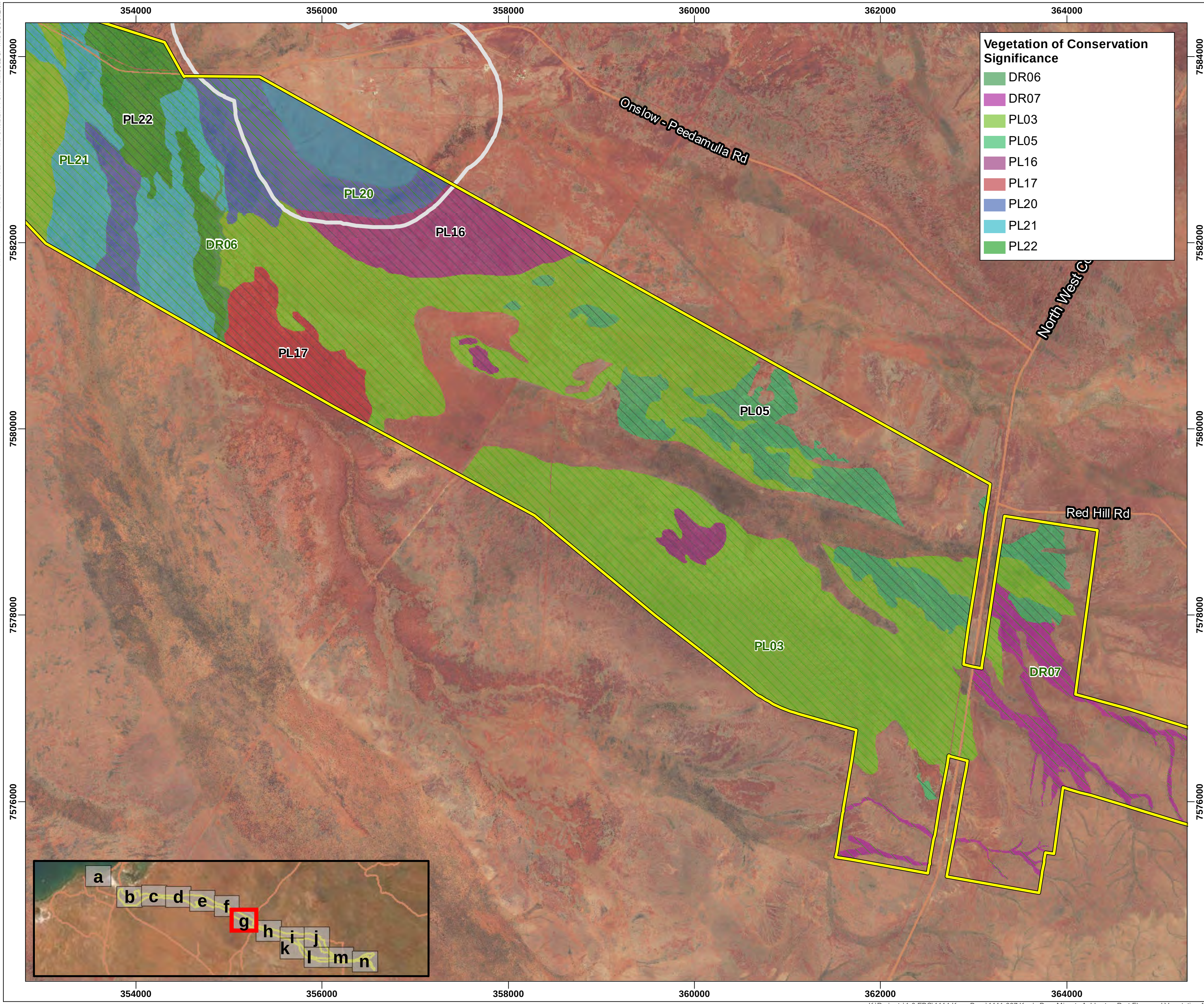

Legend

- Roads
- Survey Area
- Tanpool Land System - PEC

Conservation Significance

- Locally Significant
- Locally Significant and Potential Groundwater Dependant Vegetation

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LOCALITY MAP

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GDA 1994 MGA Zone 50

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Flora and Vegetation Assessment

Figure 13g
Vegetation of Conservation Significance

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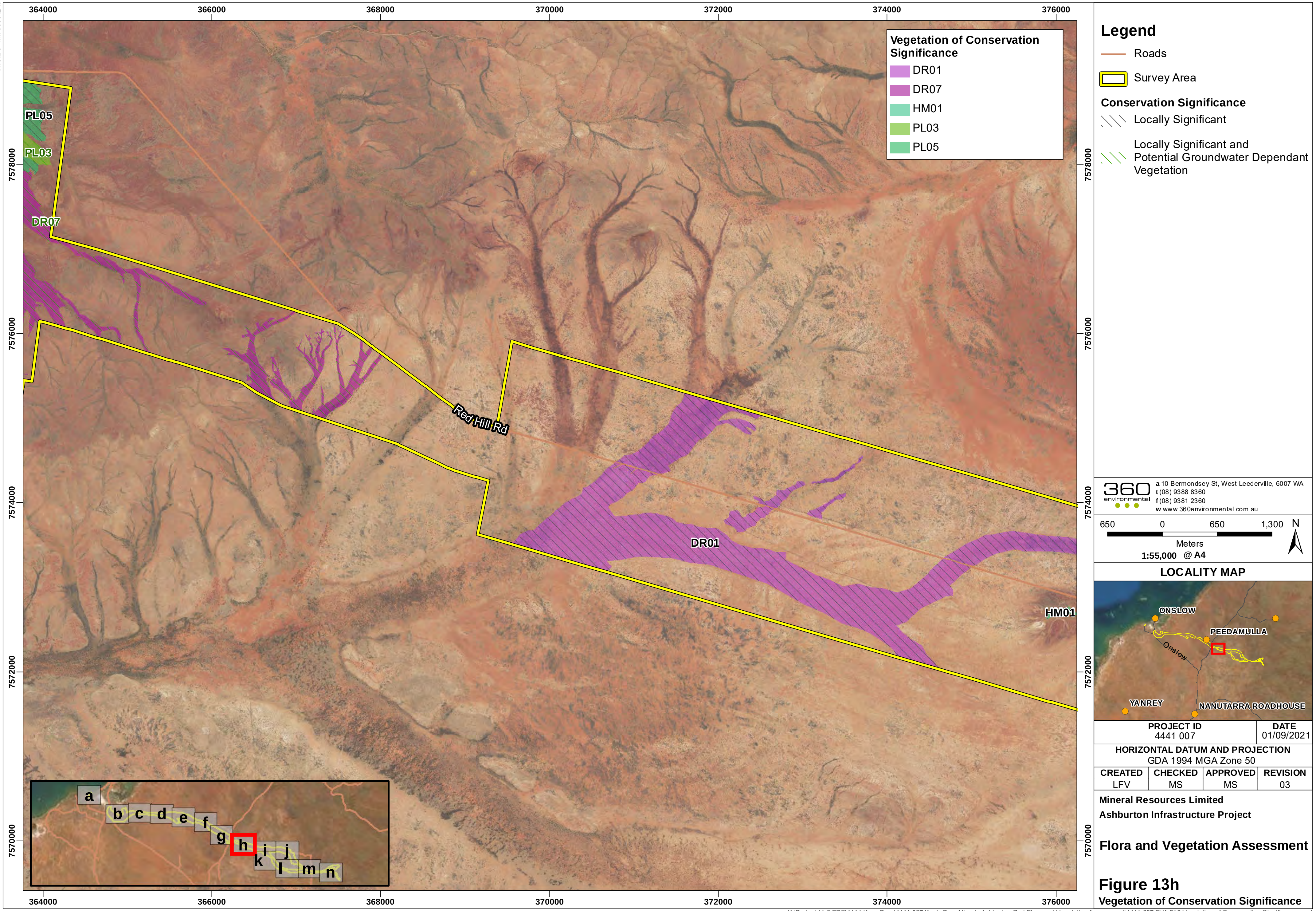

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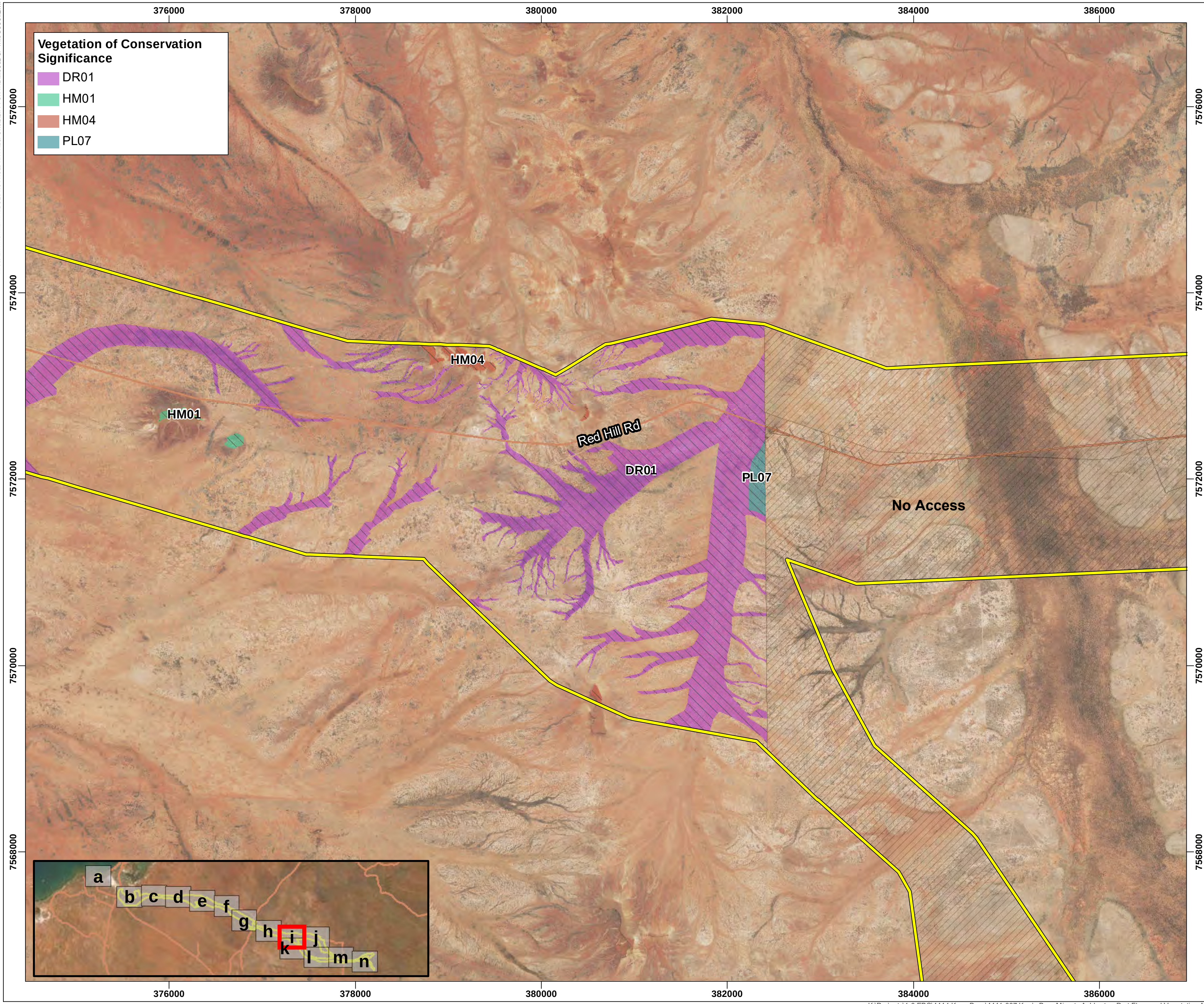

Legend

Roads

Survey Area

Conservation Significance

Locally Significant

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13i
Vegetation of Conservation Significance

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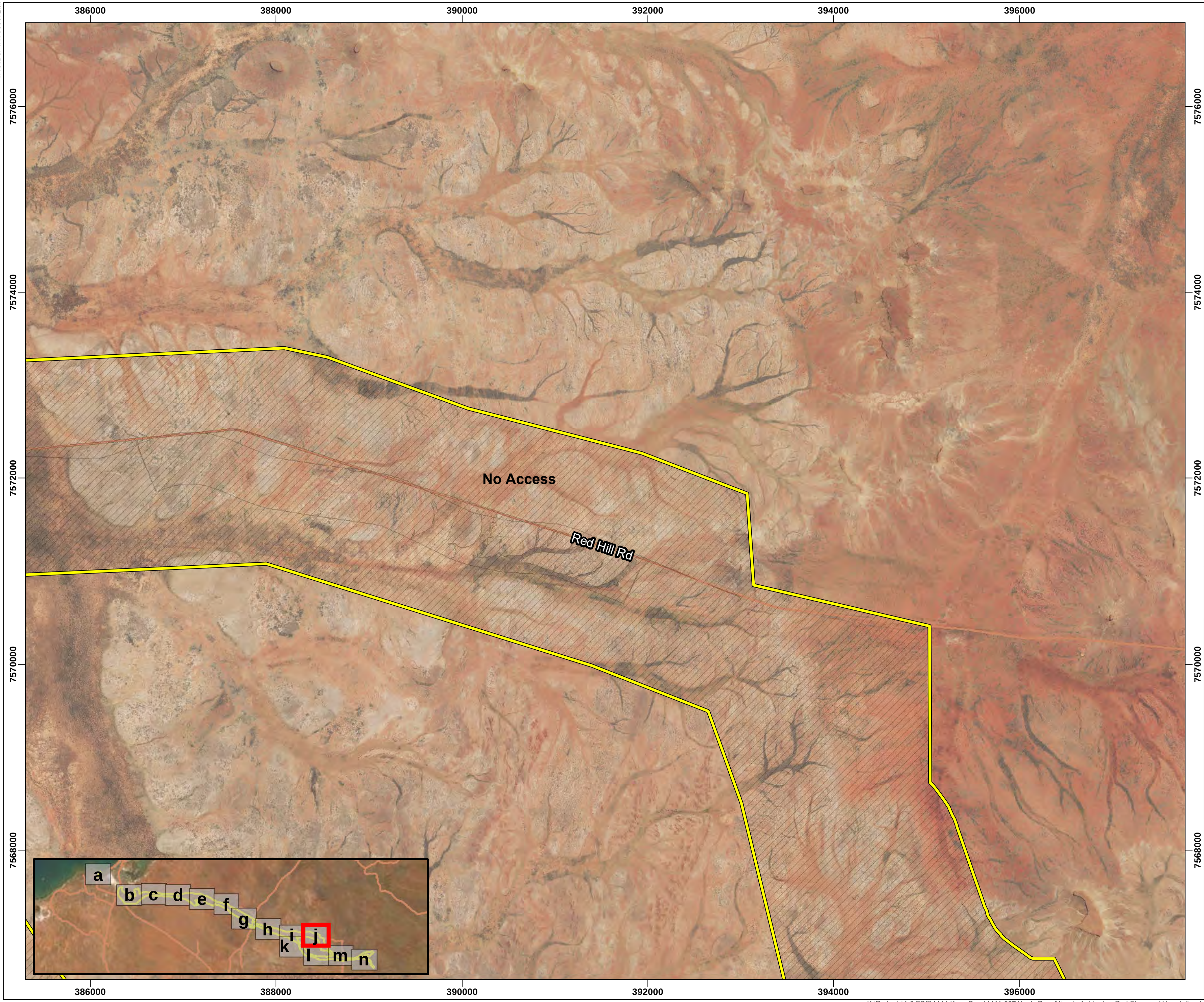

Legend

- Roads
- Survey Area

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13j
Vegetation of Conservation Significance

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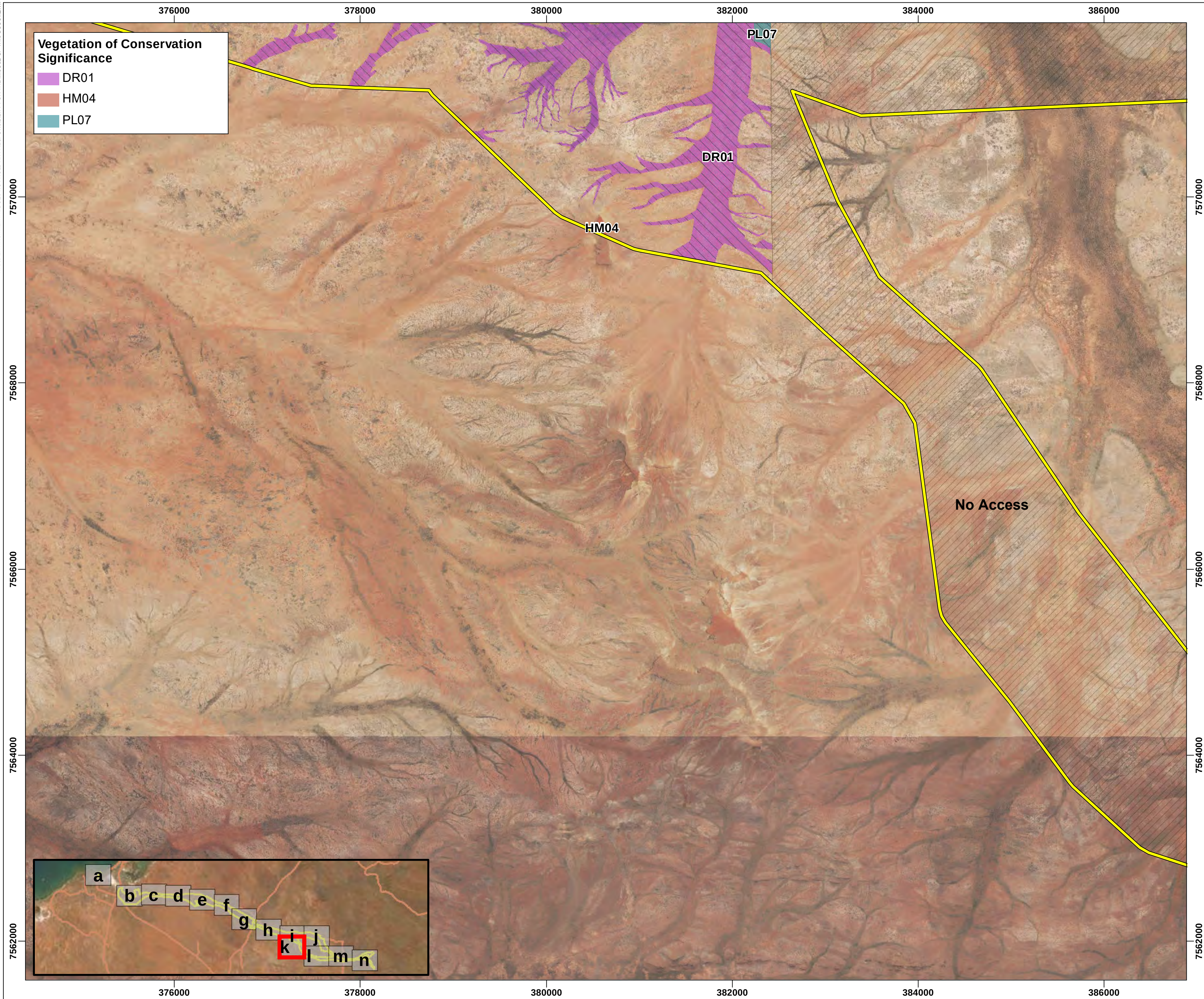

Legend

Survey Area

Conservation Significance

Locally Significant

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13k
Vegetation of Conservation Significance

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F12 Vegetation of Conservation Significance.mxd

Legend

Survey Area

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LOCALITY MAP

PROJECT ID	DATE
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HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13l
Vegetation of Conservation Significance

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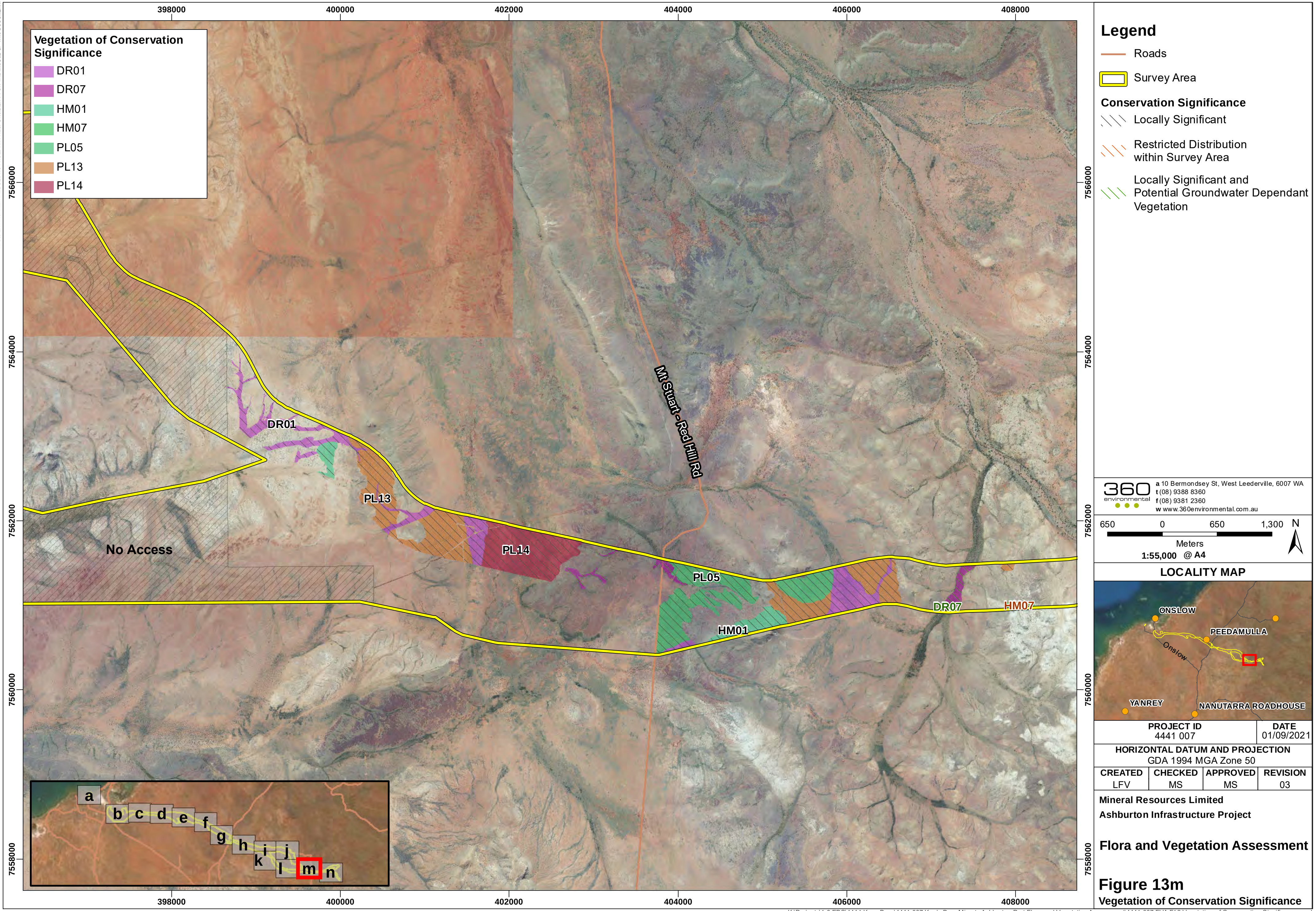

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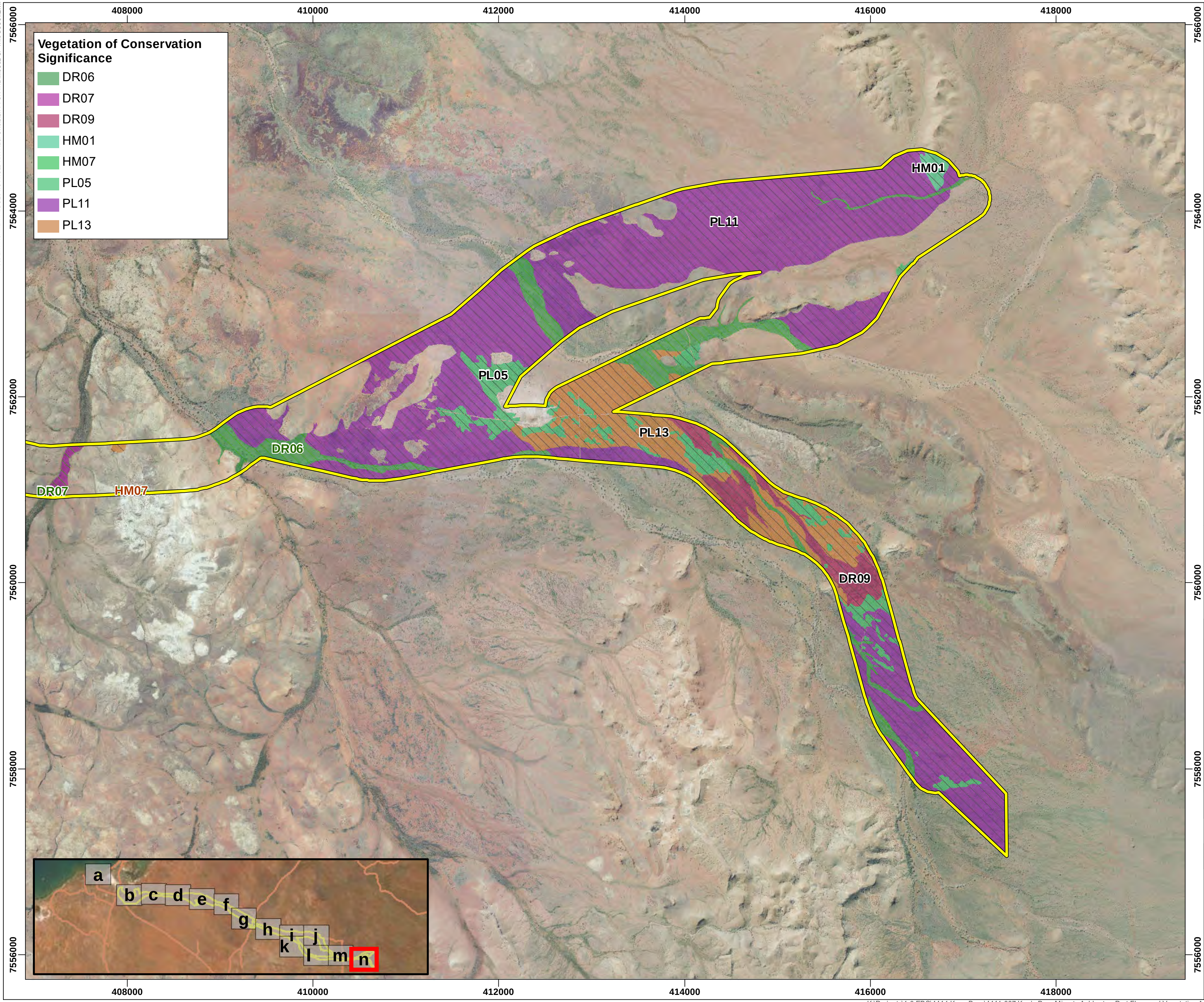

Legend

Survey Area

Conservation Significance

Locally Significant

Restricted Distribution within Survey Area

Locally Significant and Potential Groundwater Dependant Vegetation

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LOCALITY MAP

ONSLOW
PEEDAMULLA
Onslow
YANREY
NANUTARRA ROADHOUSE

PROJECT ID	DATE
4441 007	01/09/2021

HORIZONTAL DATUM AND PROJECTION

GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 13n

Vegetation of Conservation Significance

K:\Projects\1.0 EBS\4441 Kens Bore\4441 007 Ken's Bore Mine to Ashburton Port Flora and Vegetation Assessment\4441 007 FVA F12 Vegetation of Conservation Significance.mxd

4.3 Extrapolation Area

A portion of the Survey Area, comprising approximately 6,663 ha was included in the desktop but could not be surveys because of access limitations. A 1,397.27 ha (Southern Extrapolation Area) and a 2,021.20 ha (Northern Extrapolation Area) have been extrapolated to provide indicative vegetation types and mapping.

Fourteen indicative vegetation types were mapped within the Southern Extrapolation Area, across three broad landforms comprising plains, hills, and drainage (Table 18; Figure 14).

Table 18: Indicative Vegetation Types within the Southern Extrapolation Area

Indicative Vegetation Type	Total Area, Proportion of the Extrapolation Area*
PL01: *Acacia xiphophylla* tall open shrubland over *Triodia wiseana* and/or *Triodia longiceps* (*Triodia epactia*) low open hummock grassland	161.87 ha, 11.58%
PL03: *Acacia atkinsiana* (+/- *Acacia ancistrocarpa*, *Acacia bivenosa* and *Acacia inaequilatera*) tall to mid open shrubland over *Triodia glabra* and/or *Triodia epactia* low open hummock grassland	79.82 ha, 5.71%
PL05: *Acacia xiphophylla* (*Acacia synchronicia*) tall to mid open shrubland over *Triodia epactia* (+/- *Triodia glabra*) low hummock grassland to open hummock grassland	28.32 ha, 2.03%
PL06: *Acacia bivenosa* tall to mid open shrubland over *Senna* spp. (+/- *Eremophila cuneifolia*) mid to low isolated shrubs over *Triodia wiseana* (+/- *Triodia longiceps*) low hummock grassland to sparse hummock grassland	303.91 ha, 21.75%
PL07: *Acacia bivenosa* and *Acacia wanyu* tall open shrubland over *Triodia longiceps* and *Triodia wiseana* low open hummock grassland	27.05 ha, 1.94%
PL13: *Acacia synchronicia* and *Acacia bivenosa* mid sparse shrubland over *Triodia epactia* low hummock grassland	167.96 ha, 12.02%
PL15: *Acacia xiphophylla* tall sparse shrubland over *Acacia bivenosa* and *Acacia synchronicia* mid to low sparse shrubland over *Triodia wiseana* low open hummock grassland	31.36 ha, 2.24%
PL16: Acacia xiphophylla (Acacia synchronicia) tall to mid shrubland over Triodia glabra (+/- Triodia epactia) low open to sparse hummock grassland	13.56 ha, 0.97%
PL20: *Acacia aptaneura* tall shrubland (over *Triodia epactia* low sparse hummock grassland)	158.69 ha, 11.36%
PL22: *Acacia aptaneura, Acacia synchronicia* and *Acacia xiphophylla* tall to mid open to sparse shrubland over *Triodia epactia* low closed to sparse hummock grassland	18.51 ha, 1.32%
HM02: *Acacia inaequilatera* tall, isolated shrubs over *Triodia wiseana* low open hummock grassland	157.83 ha, 11.30%
DR01: (+/- *Corymbia candida* subsp. *candida* low isolated trees over) *Acacia ancistrocarpa* and *Acacia bivenosa* tall to mid open shrubland to isolated shrubs over *Triodia epactia* (+/- *Triodia longiceps*) low to	221.08 ha, 15.82%

Indicative Vegetation Type	Total Area, Proportion of the Extrapolation Area*
tall open hummock grassland (+/- *Chrysopogon fallax* low to tall sparse tussock grassland)	
DR02: *Acacia atkinsiana* and *Acacia ancistrocarpa* tall shrubland to open shrubland over *Triodia epactia* low closed to open hummock grassland	15.72 ha, 1.12%
DR07: *Corymbia hamersleyana* low open woodland over *Acacia colei* var. *colei* (or *Acacia tumida* var. *pilbarensis*) tall to mid closed to sparse shrubland over *Triodia epactia* (*Triodia wiseana*) hummock grassland	11.58 ha, 0.83%

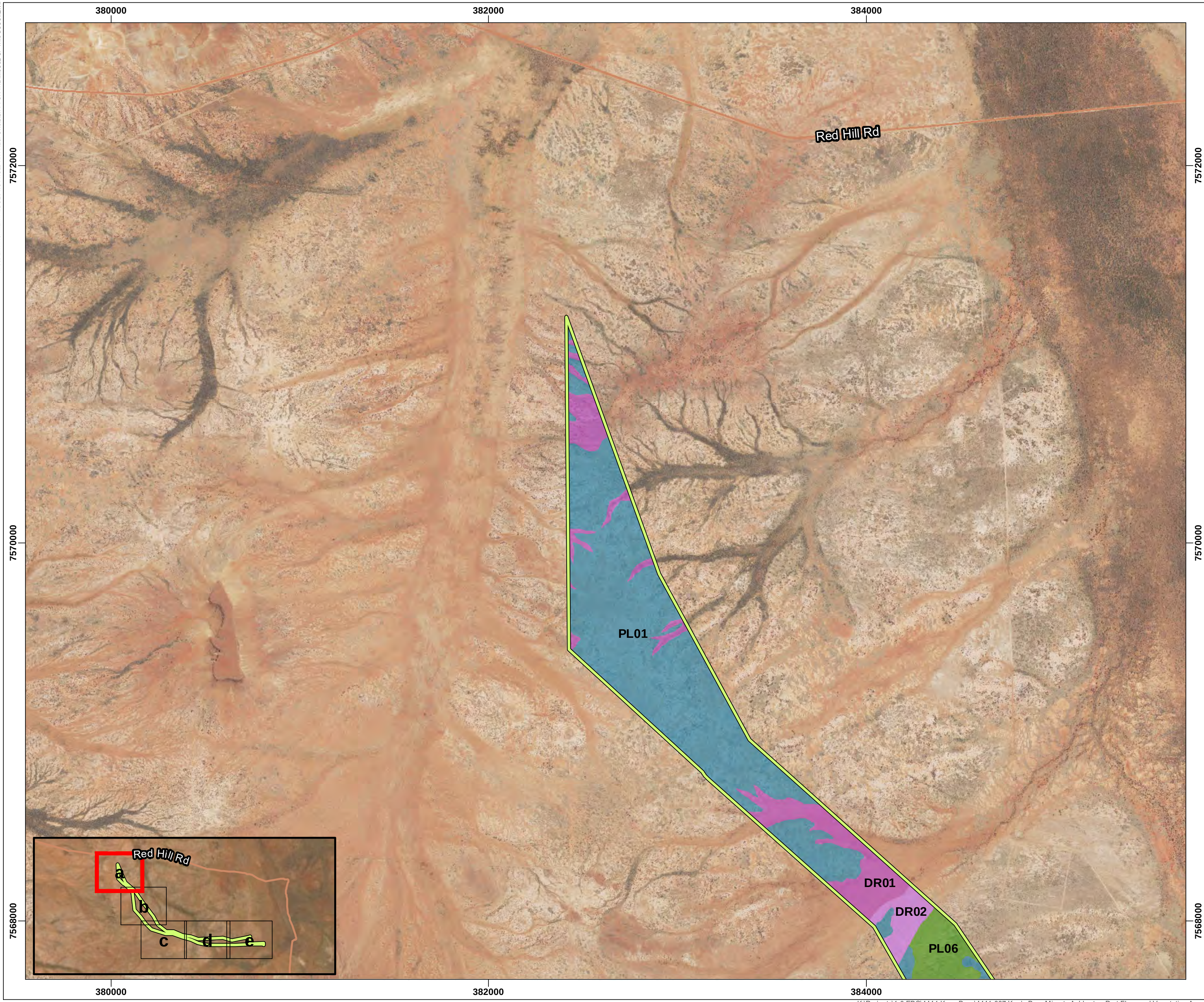
*Rounded to two decimal places

Six indicative vegetation types were mapped within the Northern Extrapolation Area, across three broad landforms comprising plains, hills, and drainage (Table 19;Figure 15).

Table 19: Indicative Vegetation Types within the Northern Extrapolation Area

Indicative Vegetation Type	Total Area, Proportion of the Northern Route Extrapolation Area*
PL01: *Acacia xiphophylla* tall open shrubland over *Triodia wiseana* and/or *Triodia longiceps* (*Triodia epactia*) low open hummock grassland	660.79 ha, 32.69%
PL05: *Acacia xiphophylla* (*Acacia synchronicia*) tall to mid open shrubland over *Triodia epactia* (+/- *Triodia glabra*) low hummock grassland to open hummock grassland	77.85 ha, 3.85%
PL06: *Acacia bivenosa* tall to mid open shrubland over *Senna* spp. (+/- *Eremophila cuneifolia*) mid to low isolated shrubs over *Triodia wiseana* (+/- *Triodia longiceps*) low hummock grassland to sparse hummock grassland	299.93 ha, 14.84%
PL15: *Acacia xiphophylla* tall sparse shrubland over *Acacia bivenosa* and *Acacia synchronicia* mid to low sparse shrubland over *Triodia wiseana* low open hummock grassland	147.65 ha, 7.30%
HM02: *Acacia inaequilatera* tall isolated shrubs over *Triodia wiseana* low open hummock grassland	193.88 ha, 9.59%
DR01: (+/- *Corymbia candida* subsp. *candida* low isolated trees over) *Acacia ancistrocarpa* and *Acacia bivenosa* tall to mid open shrubland to isolated shrubs over *Triodia epactia* (+/- *Triodia longiceps*) low to tall open hummock grassland (+/- *Chrysopogon fallax* low to tall sparse tussock grassland)	616.15 ha, 30.48%
Cleared: Existing cleared vegetation for infrastructure such as roads.	25.00 ha, 1.24%

*Rounded to two decimal places



Legend

Roads

Red Hill Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- DR02
- PL01
- PL06

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
- OTHER DATA SOURCED LANDGATE 2021
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2021 (© Western Australian Land Information Authority 2021)

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LOCALITY MAP

PROJECT ID	DATE
4441 019	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

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Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 14a Southern Extrapolated Vegetation Mapping

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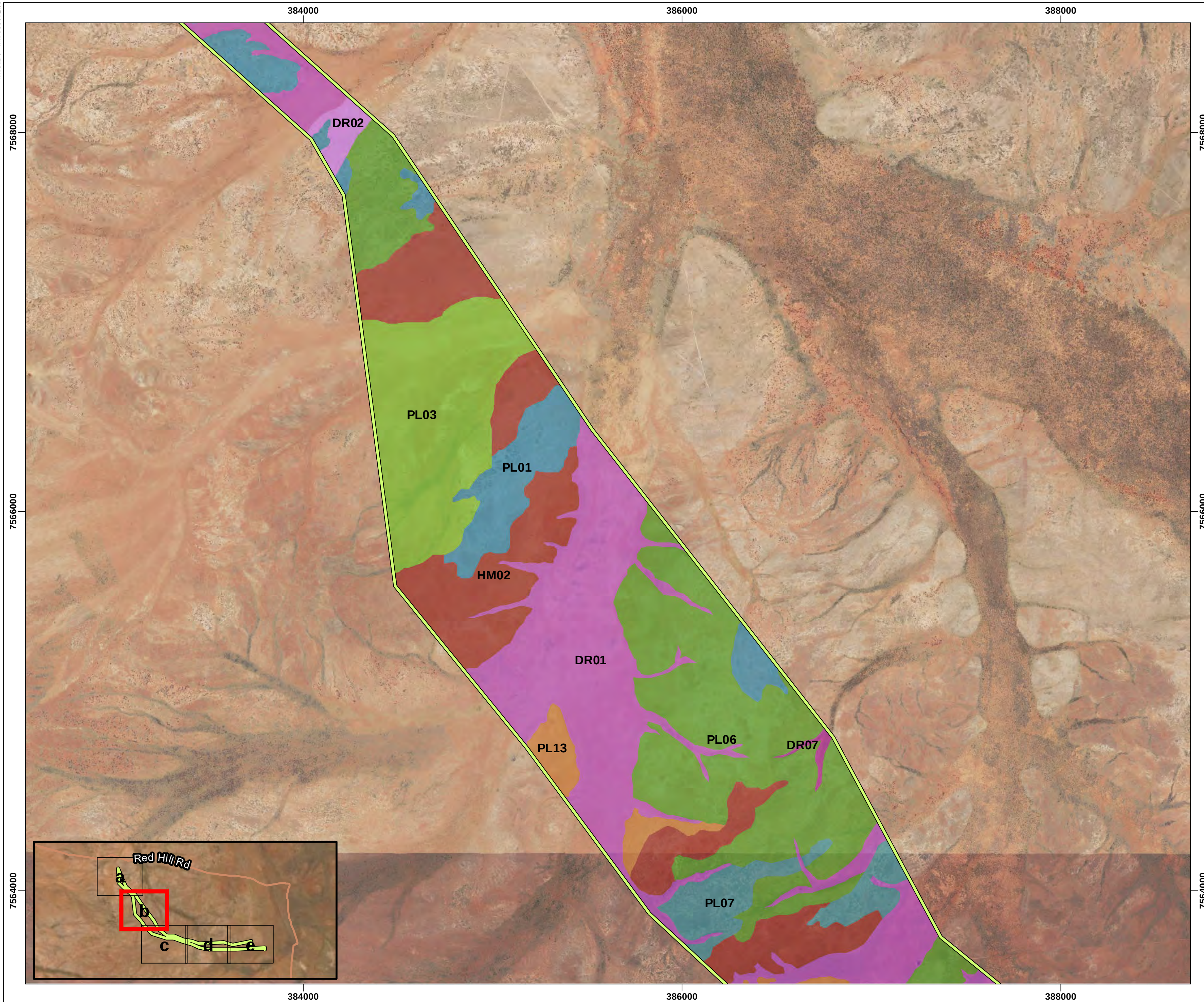

Legend

Red Hill Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- DR02
- DR07
- HM02
- PL01
- PL03
- PL06
- PL07
- PL13

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
- OTHER DATA SOURCED LANDGATE 2021
- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2021 (© Western Australian Land Information Authority 2021)

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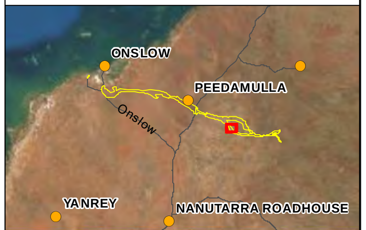

PROJECT ID	DATE
4441 019	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 14b Southern Extrapolated Vegetation Mapping

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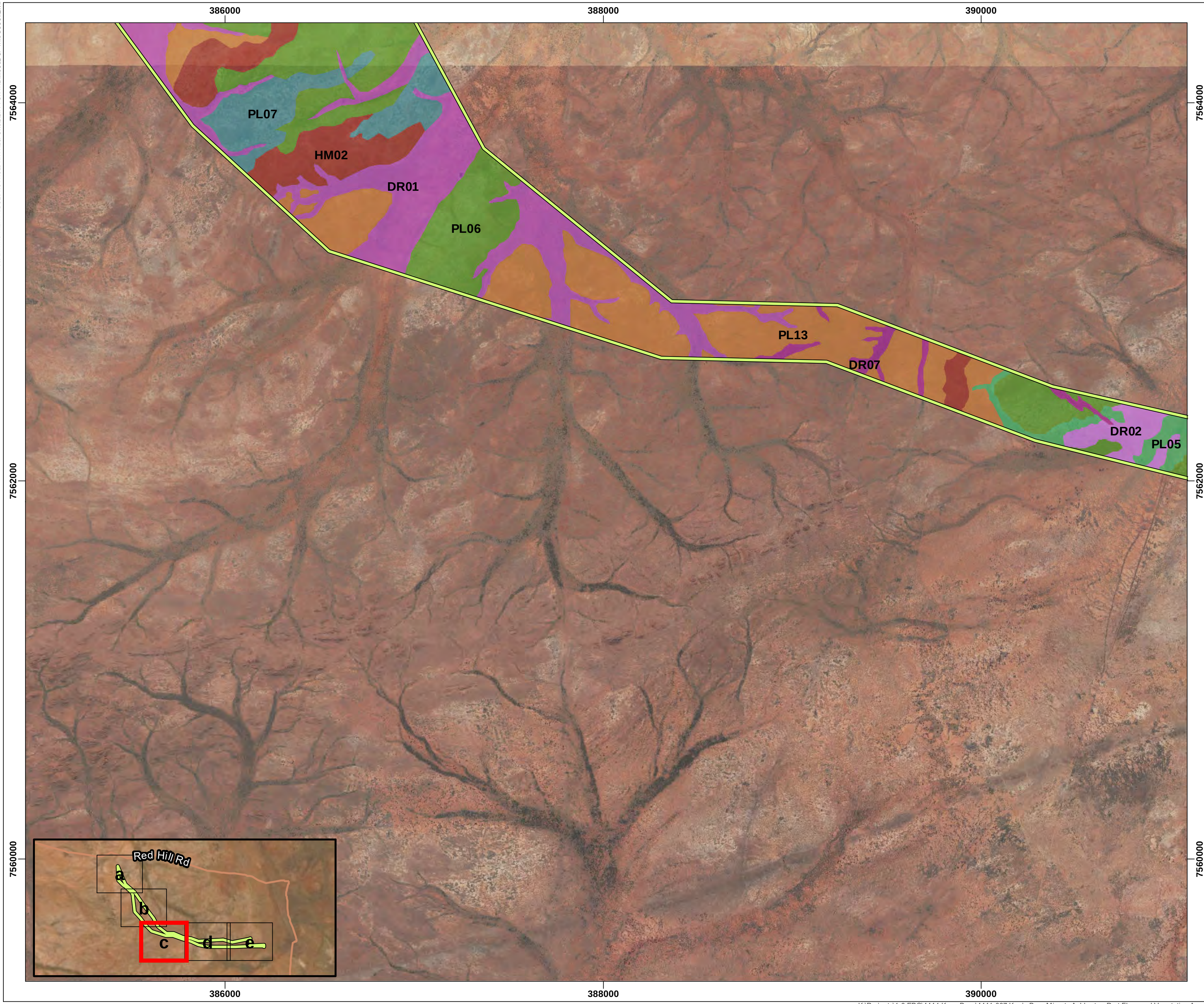

Legend

Red Hill Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- DR02
- DR07
- HM02
- PL05
- PL06
- PL07
- PL13

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
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- AERIAL PHOTOGRAPHY SOURCED LANDGATE 2021 (© Western Australian Land Information Authority 2021)

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LOCALITY MAP

PROJECT ID	DATE
4441 019	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 14c Southern Extrapolated Vegetation Mapping

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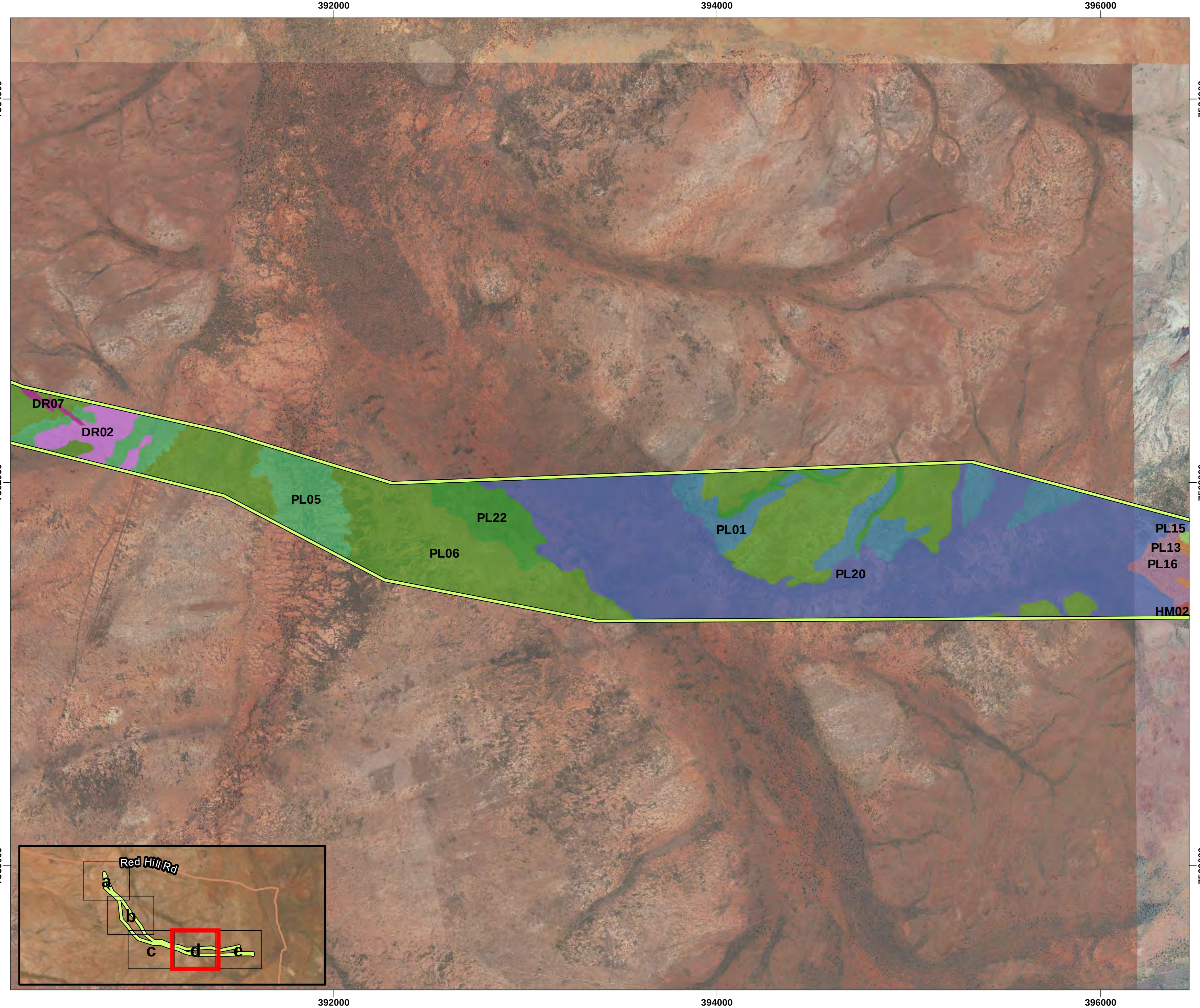

Legend

Red Hill Extrapolation Survey Area

Extrapolated Vegetation Types

- DR02
- DR07
- HM02
- PL01
- PL05
- PL06
- PL13
- PL15
- PL16
- PL20
- PL22

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
- OTHER DATA SOURCED LANDGATE 2021
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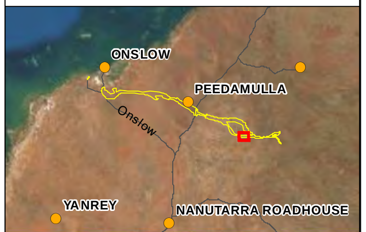

PROJECT ID	DATE
4441 019	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited

Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 14d Southern Extrapolated Vegetation Mapping

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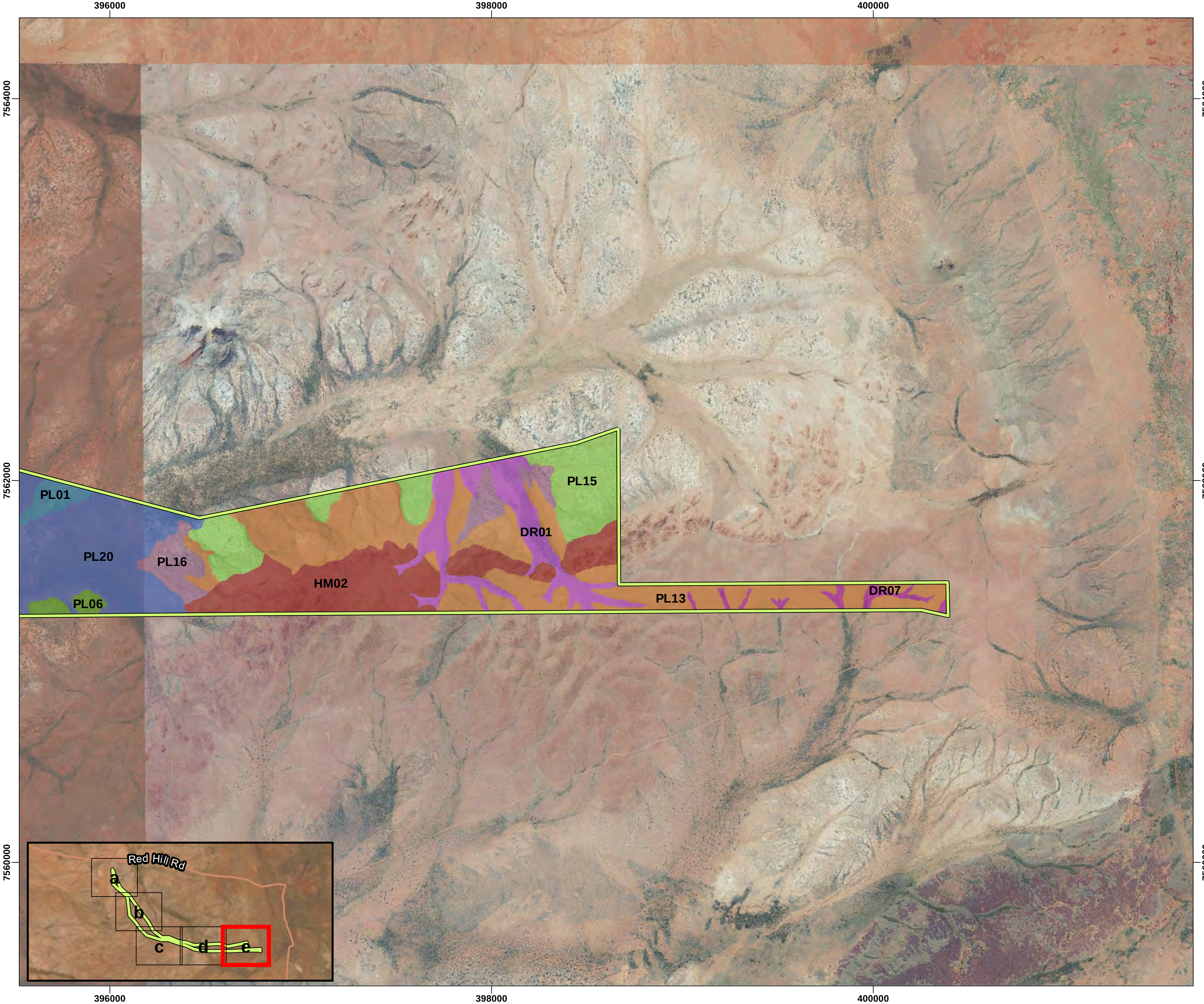

Legend

Red Hill Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- DR07
- HM02
- PL01
- PL06
- PL13
- PL15
- PL16
- PL20

- NOTE THAT POSITION ERRORS CAN BE >5m IN SOME AREAS
- LOCALITY MAP SOURCED LANDGATE 2021
- OTHER DATA SOURCED LANDGATE 2021
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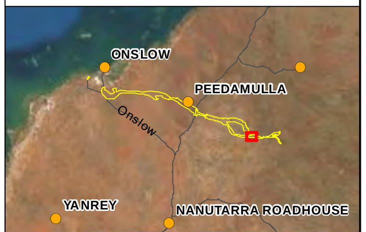
LOCALITY MAP



PROJECT ID	DATE
4441 019	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	MS	MS	03

Mineral Resources Limited
Ashburton Infrastructure Project

Flora and Vegetation Assessment

Figure 14e Southern Extrapolated Vegetation Mapping

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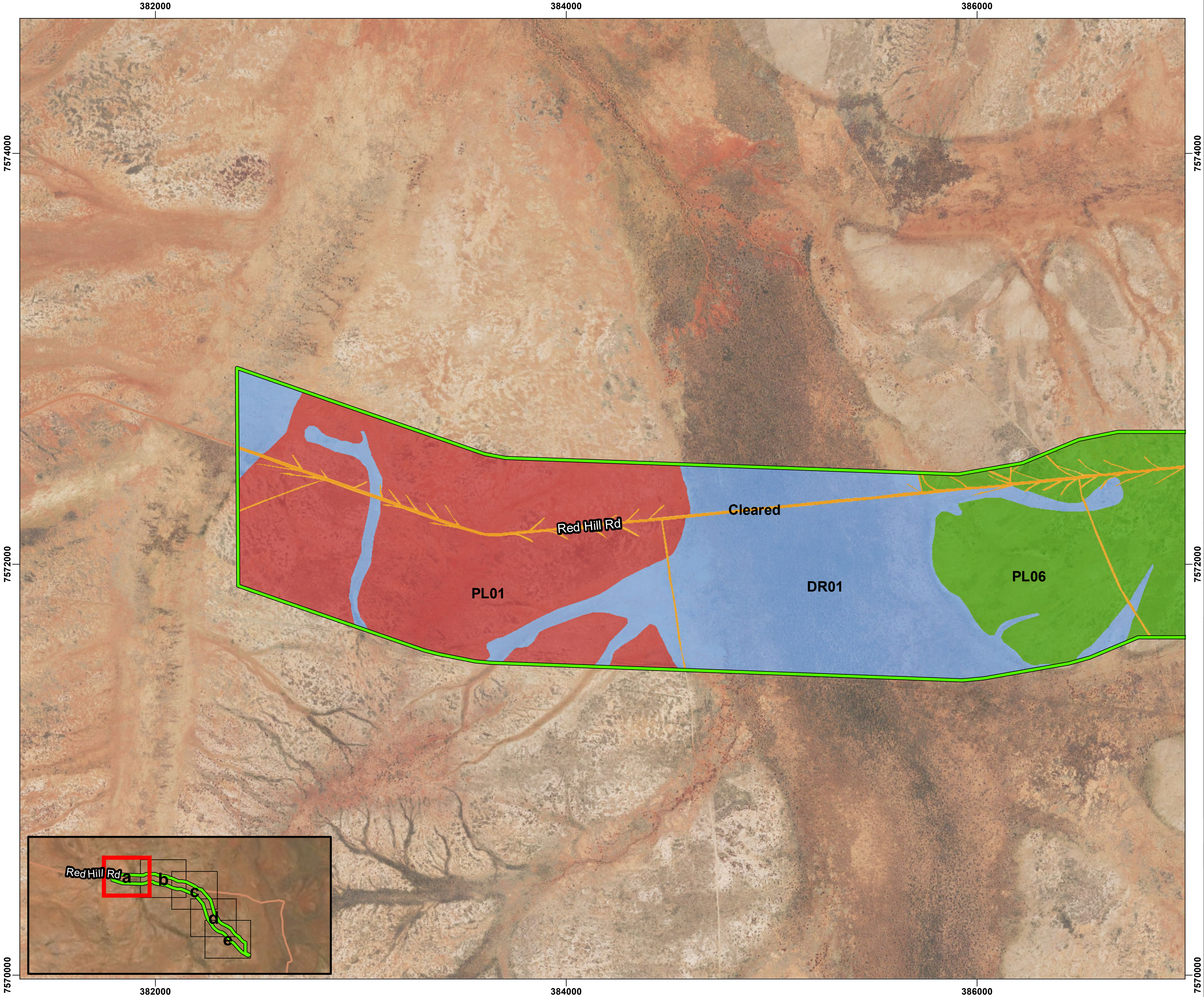

Legend

- Roads
- Red Hill Northern Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- PL01
- PL06
- Cleared

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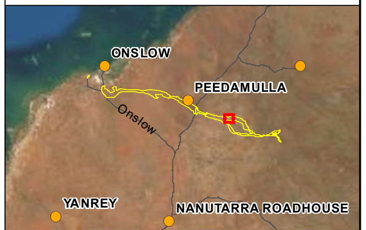
LOCALITY MAP



PROJECT ID	DATE
4441 020	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	SC	SW	0

Mineral Resources Limited
Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 15a Northern Extrapolated Vegetation Mapping

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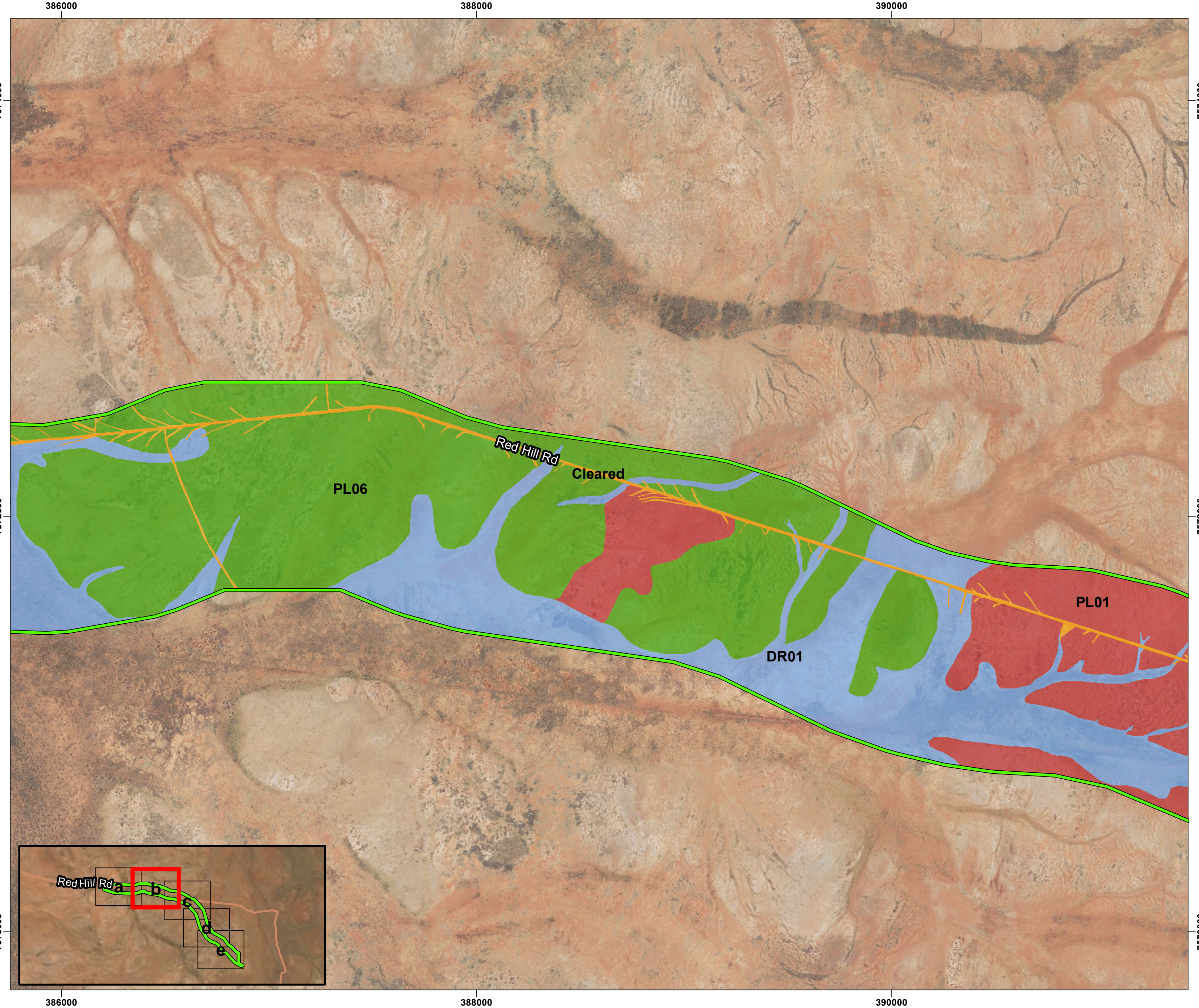

Legend

- Roads
- Red Hill Northern Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- PL01
- PL06
- Cleared

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LOCALITY MAP

PROJECT ID	DATE
4441 020	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	SC	SW	0

Mineral Resources Limited
Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 15b Northern Extrapolated Vegetation Mapping

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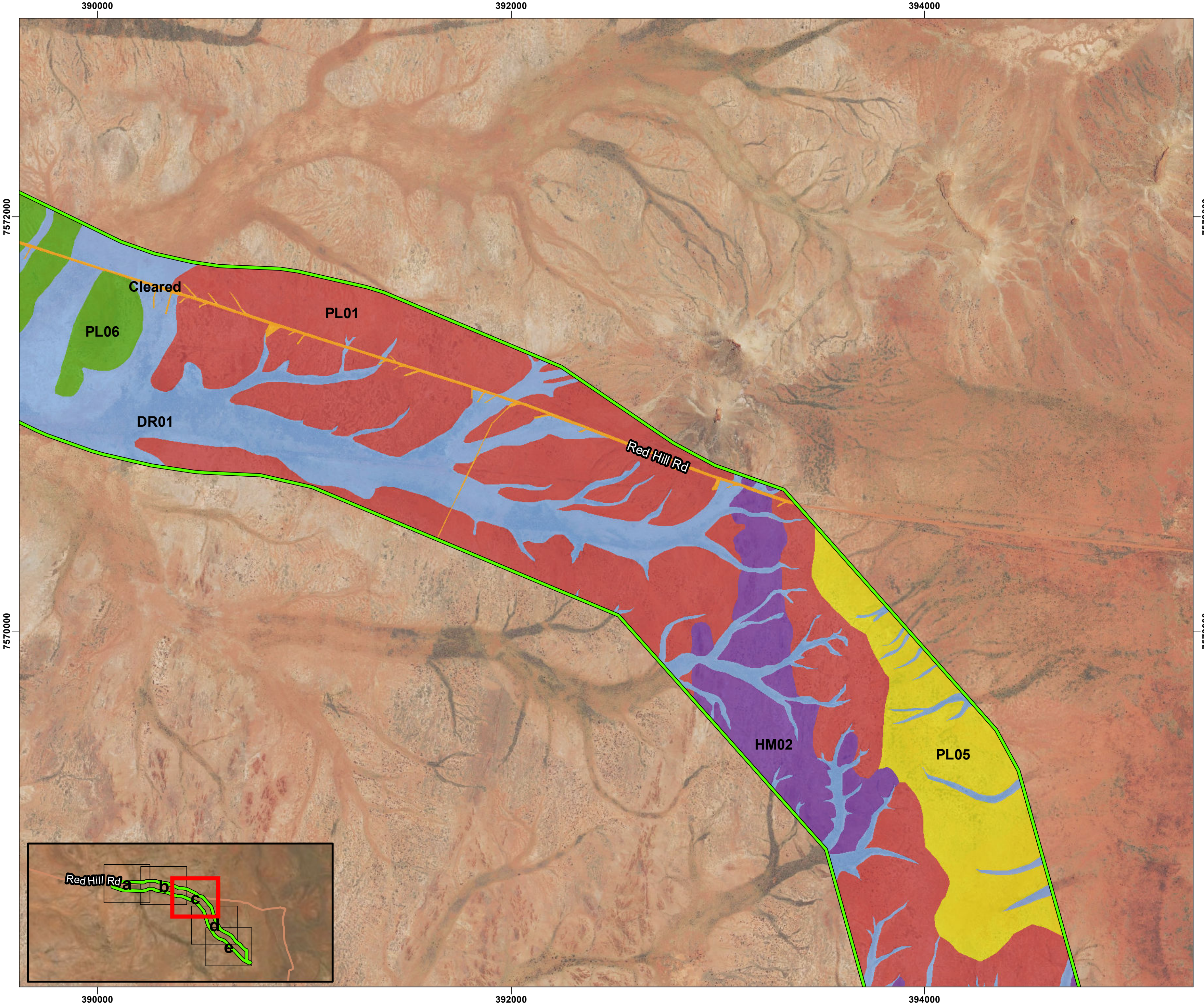

Legend

Roads
Red Hill Northern Extrapolation Survey Area

Extrapolated Vegetation Types

DR01
HM02
PL01
PL05
PL06
Cleared

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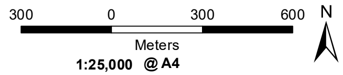

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LOCALITY MAP

PROJECT ID			DATE
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HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
LFV	SC	SW	0

Mineral Resources Limited
Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 15c Northern Extrapolated Vegetation Mapping

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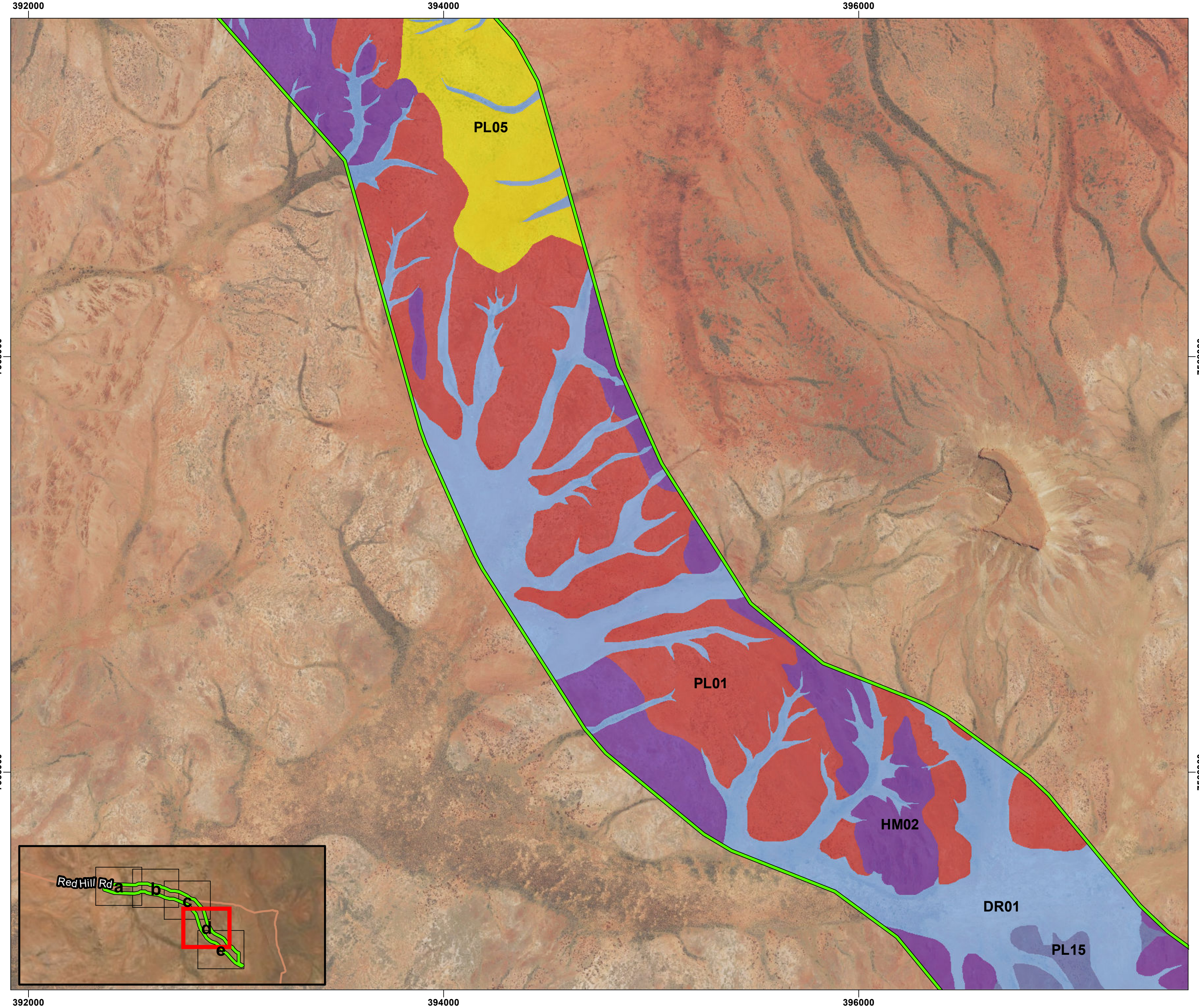

Legend

Red Hill Northern Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- HM02
- PL01
- PL05
- PL15

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PROJECT ID			DATE
4441 020			02/09/2021
HORIZONTAL DATUM AND PROJECTION			
GDA 1994 MGA Zone 50			
CREATED	CHECKED	APPROVED	REVISION
LFV	SC	SW	0

Mineral Resources Limited

Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 15d Northern Extrapolated Vegetation Mapping

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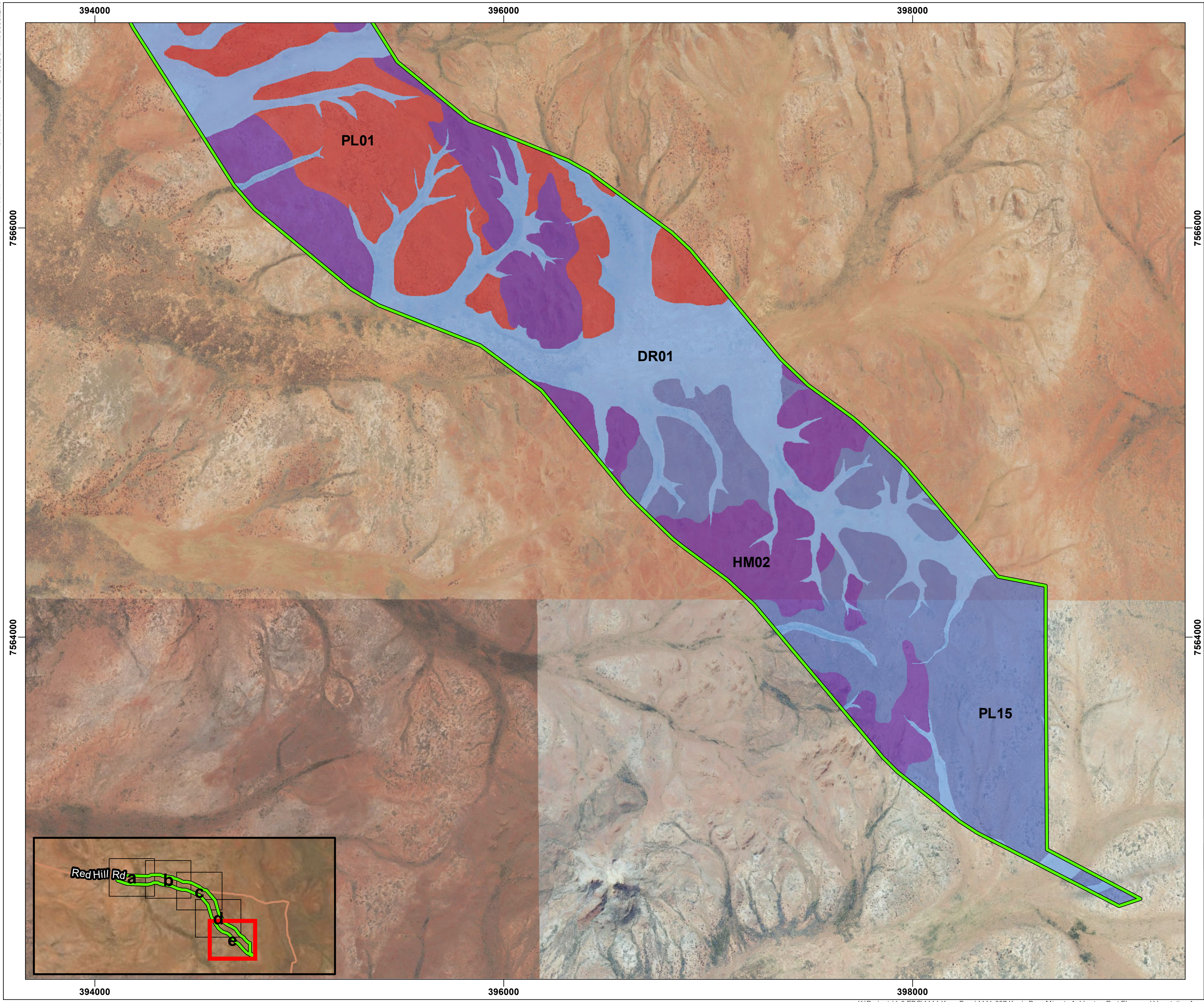

Legend

Red Hill Northern Extrapolation Survey Area

Extrapolated Vegetation Types

- DR01
- HM02
- PL01
- PL15

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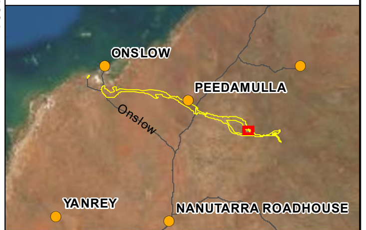

PROJECT ID	DATE
4441 020	02/09/2021

HORIZONTAL DATUM AND PROJECTION
GDA 1994 MGA Zone 50

CREATED	CHECKED	APPROVED	REVISION
LFV	SC	SW	0

Mineral Resources Limited
Ken's Bore Mine to Ashburton Port

Flora and Vegetation Assessment

Figure 15e Northern Extrapolated Vegetation Mapping

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5 Discussion

5.1 Flora

The suite of flora taxa recorded during the surveys was considered typical for the Cape Range, Hamersley and Roebourne IBRA subregions and aligned with the database search results obtained.

5.1.1 Flora of Conservation Significance

5.1.1.1 Threatened and Priority Flora

Seven field surveys were undertaken over two years, capturing a range of climatic conditions and the known flowering period for most of the conservation significant flora identified by the database searches that were considered to have a high pre-survey likelihood of occurrence. The only exception was *Eleocharis papillosa* (P3), which is typically known to flower in November. Despite this, *E. papillosa* was recorded flowering during the April/May 2021 survey just outside the Survey Area.

Eleocharis papillosa (P3) is an annual herb that flowers in November, it typically occurs in seasonally inundated clay soils (red clay over granite and open claypans) and drainage lines (Chevron, 2015; Western Australian Herbarium, 2021). The WAH has 14 specimens lodged, with records widely distributed throughout Western Australia (Plate 7). *Eleocharis papillosa* (P3) has been recorded in the Avon Wheatbelt, Carnarvon, Great Victoria Desert, Murchison and Pilbara regions (Western Australian Herbarium, 2021).

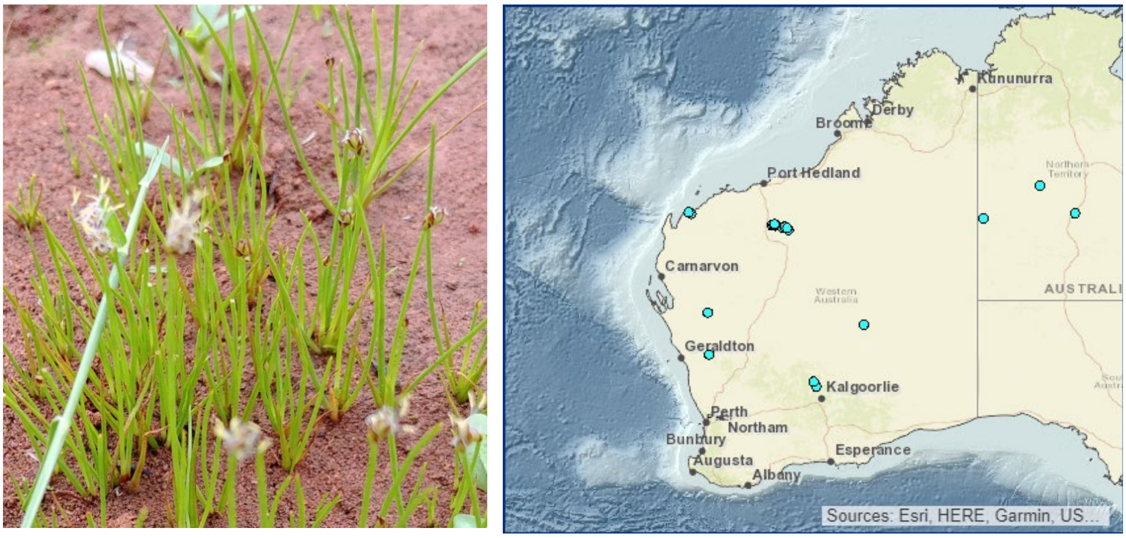

Plate 7: *Eleocharis papillosa* (P3) (Source: Department of Biodiversity Conservation and Attractions, 2021)

Eleocharis papillosa (P3) was recorded in a shallow drainage channel along Onslow Road just outside of the Survey Area. Approximately 270 individuals were recorded. This population was separated from the Survey Area by a cattle station fence, with numerous cattle present around the small ponds of water within the fence. Due to the presence of cattle, it is possible that the species cannot survive within this section of the Survey Area. However, it is important to note that due to its cryptic nature, this small sedge may still occur in areas not targeted for searching and remains a high likelihood of occurring elsewhere.

The population of *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1) discovered around the Cane River landform was present in great numbers within the Survey Area. Aerial searches using a helicopter discovered numerous individuals outside of the Survey Area as well, continuing both north and south along the same landform in a consistent distance from the river. The extent of the population to the north and south is unknown, however it appears that the species grows in the seasonally inundated flood plains on the shoulders of the Cane River. During trip 7 much of this area was still under shallow water due to recent rains, which was slowly draining towards the cane river over a number of weeks. The prolonged shallow flooding (sheet flow) area appears to be the ideal habitat for the species, although the numbers and density of individuals varies within this area and does not appear strongly linked to small scale landform or vegetation. Database searches also detailed numbers in excess of 1,000 individuals in a single point, mirroring the results of this survey and showing that this taxon responds very strongly to rainfall events, and can not be accurately surveyed during dry periods. These database searches are up to 27 km from the Survey Area, and it is unknown how common this species may be in the region due to it's ephemeral nature.

The density map (Figure 10, above) is an extrapolation based on the linear targeted searches, and aerial counts during the survey. Although numerous points, counts, and density estimates were taken, this map is an extrapolation and not an exact guide to the locations of the Priority taxon. Landform and vegetation type did not seem to accurately predict the numbers of the taxon on ground. This species is not present all year round, and any future targeted surveys should be undertaken in a post-wet season.

Eremophila forrestii var. *viridis* was present on small (20-50 m) wide low gravel rises among the flat plains of vegetation unit PL19. These small gravel rises were too small to map separately, however represent a unique landform of elevated significance due to the dense populations of priority flora they support. These gravel rises were surveyed where encountered, however other patches of this restricted landform may exist in the vicinity that could not be confirmed on ground.

Triodia pisoliticola occurred only on the eastern edge of the Survey Area within the tall hills that extend further east. This species grows on these larger hills that are not present further west and is unlikely to extend any further into the Survey Area.

Species such as *Eleocharis papillosa* (P3), *Euphorbia inappendiculata* subsp. *Inappendiculata* (P2), and *Goodenia nuda* (P4) are small and delicate in habit, and therefore may be difficult to see during non-targeted surveys, as such they remain likely to be found within the Survey Area in any appropriate habitat not specifically targeted.

It was not feasible to systematically grid search the entire Survey Area due to the large size of the Survey Area. Instead, targeted searching focussed on habitat suitable for Priority 1 and Priority 2 flora identified as having a high likelihood of occurrence prior to the surveys. Field personnel actively searched for potential conservation significant flora taxa in and around flora sites, while traversing on foot within the Survey Area and in known locations or preferred habitat encountered in the field. Despite the survey effort, the Survey Area is very large and spans a wide variety of habitat types, therefore additional Priority flora taxa and abundance may be recorded with additional survey effort in areas not specifically targeted or walked.

5.1.1.2 Likelihood of occurrence

Nine Priority flora identified by the pre-survey likelihood of occurrence assessment as having a high likelihood of occurrence were not recorded within the Survey Area during the surveys. Of these, three maintained a high likelihood of occurrence, two were downgraded to medium likelihood of occurrence, and four were downgraded to low likelihood of occurrence. All are discussed below.

***Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) (P1)**

Abutilon sp. Pritzelianum (S. van Leeuwen 5095) (P1) is a large perennial shrub to 3 m tall, flowering and fruiting June to November (Western Austrlalian Herbarium, 2015). It typically occurs in coastal and near coastal sand dunes, estuarine margins and coastal plains growing in red sand or clay (Western Austrlalian Herbarium, 2015). The WAH has 47 specimens lodged, with records from the Carnarvon, Pilbara and Murchison regions (Western Australian Herbarium, 2021).

Abutilon sp. Pritzelianum (S. van Leeuwen 5095) (P1) may occur in the red sandy dunes, swales, and plains at the western end of the Survey Area. This taxon was not encountered during the survey, however retained a high likelihood of occurring due to the proximity of previous records (8.3 km from the Survey Area), with appropriate habitat occurring that was not systematically searched.

***Dicladanthera glabra* (P2)**

Dicladanthera glabra (P2) is a spreading perennial herb or shrub to 0.6 m high with white/white-blue flowers in April or August to October (Western Australian Herbarium, 2020). It typically occurs in alluvium, along watercourses, near rock pools and deeply incised channels and gorges (Western Australian Herbarium, 2021). The WAH has 19 specimens lodged, with records restricted to the Pilbara region (Western Australian Herbarium, 2021).

Dicladanthera glabra (P2) was downgraded to a low likelihood of occurrence following the surveys as there was no habitat observed within the Survey Area that would be considered suitable for the taxon. Although drainage channels occur within the Survey Area none were associated with deeply incised gullies or gorges.

***Owenia acidula* (P3)**

Owenia acidula (P3) is a small woody tree, 3 - 8 m high, with white-brown or cream flowers (Western Australian Herbarium, 2021). Records from WA occur in clay, along drainage lines, and on plains and dunes (Western Australian Herbarium, 2021). The WAH has 13 specimens lodged, with records from the Carnarvon and Pilbara regions (Western Australian Herbarium, 2021). The taxon is also recorded from the Northern territory, South Australia, New South Wales, and Queensland, and occurs prolifically across northeastern Australia.

If *Owenia acidula* (P3) is present within the Survey Area, it is most likely to occur along drainage lines in the southeastern end of the Survey Area. The likelihood of occurrence for the species was downgraded to Medium, due to it being a tall tree, and easy to distinguish. It is unlikely that it would occur within the Survey Area and not be recorded. However, the nearest record is 5.2 km outside the Survey Area, and drainage line habitat does occur at the southeastern extent.

***Sida* sp. Barlee Range (S. van Leeuwen 1642) (P3)**

Sida sp. Barlee Range (S. van Leeuwen 1642) (P3) is a herb or shrub to 1 m high, with yellow flowers, flowering and fruiting May to September (Western Austrlalian Herbarium, 2015; Western Australian Herbarium, 2020). It is typically recorded growing in skeletal soils in rocky areas, particularly scree slopes and rock piles in full sun to afternoon shade or in gullies (Western Austrlalian Herbarium, 2015). The WAH has 57 specimens lodged, with records from the Pilbara and Gascoyne regions (Western Australian Herbarium, 2021).

The nearest record of *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P3) was recorded 12 km from the eastern portion of the Survey Area and there may be suitable habitat in the broader sense along drainage lines in the southeastern portion of the Survey Area. However, all records of the taxon in the vicinity of the Survey Area occur in gullies associated with the much higher ridges and mountains of Newman Land System than those that occur within the Survey Area. For this reason, *Sida* sp. Barlee Range (S. van Leeuwen 1642) (P3) was downgraded to a low likelihood of occurrence within the Survey Area.

***Solanum* sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3)**

Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415) (P3) is a prostrate shrub to 0.4 m high with purple flowers and viscid foliage (Western Australian Herbarium, 2021). It is typically recorded on footslopes, hills, gorges and mesas associated with shale, pisolite and banded ironstone in red skeletal soils (Western Australian Herbarium, 2021). The WAH has nine specimens lodged, with records restricted to the Pilbara region (Western Australian Herbarium, 2021).

This species of *Solanum* occurs in much the same habitat as *Dicladanthera glabra, Sida* sp. Barlee Range (S. van Leeuwen 1642), and *Rhynchosia bungarensis*, growing on the rocky slopes of these large landforms. Due to this it has been downgraded to a low likelihood of occurrence.

***Stackhousia clementii* (P3)**

Stackhousia clementii (P3) is a dense broom-like perennial herb, to 0.45 m high with yellow/green/brown flowers (Western Australian Herbarium, 2021). It typically occurs on skeletal soils, sandstone hills, sand to cracking clays, gibber plains gilgai, limestone flats and ridges (Western Australian Herbarium, 2021). The WAH has 21 specimens lodged, with records from the Carnarvon, Central Ranges, Great Sandy Desert, Great Victoria Desert, Murchison and Pilbara regions (Western Australian Herbarium, 2021).

This species was not recorded during the survey. However, habitat is present within the Survey Area that was not systematically searched, and a previous record (7.7 km north) occurs in a landform that is similar to that within the Survey Area. As such it has retained a high likelihood of occurrence. If *Stackhousia clementii* (P3) is present within the Survey Area, it is most likely to occur in vegetation associated with coastal plains at the northwestern end of the Survey Area.

***Triumfetta echinata* (P3)**

Triumfetta echinata (P3) is a prostrate shrub, 0.3 m high that flowers July to August. This taxon typically occurs in red sandy soils and sand dune crests (Chevron, 2015; Western Australian

Herbarium, 2021). The WAH has seven specimens lodged with records limited to a small area on the border of the Pilbara, Carnarvon and Gascoyne regions (Western Australian Herbarium, 2021).

Triumfetta echinata (P3) was not recorded within the Survey Area despite targeted searches. However, there are several recorded locations 160 m from the western end of the Survey Area, in sand dunes and swales landforms which continue north into the Survey Area. If *Triumfetta echinata* (P3) is present within the Survey Area, it is most likely to occur in vegetation associated with dunes and swales at the western end of the Survey Area.

***Ptilotus mollis* (P4)**

Ptilotus mollis (P4) is a compact perennial shrub to 0.5 m high with soft grey foliage and white/pink flowers in May or September (Western Australian Herbarium, 2021). It is typically recorded on stony hills and screes and steep rocky sites, usually in full sun on massive ironstone formations (Western Australian Herbarium, 2021). The WAH has 40 specimens lodged, with records from the Pilbara and Little Sandy Desert (Western Australian Herbarium, 2021).

As with previous species, due to the association with high ridge and mountainous landforms, this species was downgraded to a low likelihood of occurrence.

***Rhynchosia bungarensis* (P4)**

Rhynchosia bungarensis (P4) is a compact, prostrate shrub to 0.5 m high with yellow flowers (Western Australian Herbarium, 2021). It typically occurs in pebbly, shingly coarse sand amongst boulders, and along banks of drainage lines and gullies (Western Australian Herbarium, 2021). The WAH has 82 specimens lodged, with records from the Pilbara, Carnarvon and Gascoyne (Western Australian Herbarium, 2021).

While this species is associated with similar high ridge and mountainous landforms to previous species, it also occurs within drainages in lower areas associated with these landforms, which do occur within the Survey Area. As such it has been downgraded to a medium likelihood of occurrence. If *Rhynchosia bungarensis* (P4) is present within the Survey Area, it is most likely to occur in vegetation associated with drainage lines and rock formations in the eastern portion of the Survey Area.

5.1.1.3 Range Extensions and Unconfirmed Flora

Fifteen taxa recorded from the Survey Area represent potential range extensions and will be lodged with the WAH.

Ninety-two taxa encountered and/or collected during the field survey were sterile and could not be confidently identified to species level. Any flora considered to potentially represent flora of conservation significance were collected and carefully checked against relevant Priority flora specimens at the WAH.

None of the unconfirmed flora were considered analogous to Priority flora taxa identified by the database searches.

An additional seven taxa were identified to species level but not to variant or subspecies level. This included *Eremophila forrestii* subsp. *?viridis* (P3 if confirmed), which is discussed above. The remaining six taxa were not considered analogous to Priority flora taxa identified by the database searches.

5.1.2 Introduced Flora

Weed species richness and abundance was greatest in previously cleared and heavily grazed areas associated with tidal clay pans, and road verges. Weed species, particularly **Cenchrus ciliaris* and **Vachellia farnesiana*, were also present in higher abundance in permanent and ephemeral drainage channels, likely spread by cattle and water movement.

Two of weeds species recorded,**Prosopis pallida* and **Parkinsonia aculeata*, are listed as Declared Pests under the BAM Act (Department of Primary Industries and Regional Development, 2018) and WoNS (Department of Agriculture Water and the Environment, 2020b).

**Prosopis pallida*, also known as Mesquite, is a spiny tree or shrub, 4-10 m high flowering in February or July to September. It is considered among the worst weeds in Australia due to its invasiveness, potential for spread, and economic and environmental impacts, including land erosion and providing refuge for feral animals. Mesquite can also increase land degradation and loss of soil moisture due to its extensive and deep root system. **Prosopis pallida* is categorised as C2 Eradication control, requiring that organisms be eradicated from part or all Western Australia.

**Parkinsonia aculeata*, also known as Parkinsonia, is a spiny shrub or tree to 8 m high flowering in March or May to December. **Parkinsonia aculeata* has high invasiveness, potential for spread, and economic and environmental impacts. Parkinsonia has the potential to invade more than three quarters of mainland Australia. **Parkinsonia aculeata* is categorised as C3 Management control, requiring some form of management be applied to alleviate the harmful impact of the organism, reduce the numbers or distribution of the organism, or prevent or contain the spread of the organism.

Thirteen of the weed species recorded (**Aerva javanica, *Bidens bipinnata, *Cenchrus ciliaris, *Cenchrus setiger, *Citrullus colocynthis, *Echinochloa colona, *Malvastrum americanum, *Passiflora foetida* var. *hispida, *Portulaca pilosa, *Setaria verticillata, *Sonchus oleraceus, *Tribulus terrestris* and **Vachellia farnesiana*) have a legal status of Permitted – s11, and do not have an assigned control category.

The remaining three species recorded (**Citrullus amarus, *Euphorbia hirta* and **Flaveria trinervia*) are Unlisted -s14, which are prohibited entry into Western Australia (Department of Primary Industries and Regional Development, 2021). No guidance is available for the management of unlisted organisms within Western Australia.

Due to the large size of the Survey Area, it was not systematically grid searched. Additional weed species and abundance could be recorded with additional survey effort, specifically through drainage and areas of high cattle intensity. As such the numbers of weeds are not representative of what is likely present within the Survey Area.

5.2 Vegetation

5.2.1 Vegetation Types

Flora sites were assigned to vegetation types based on statistical analysis results, dominant flora taxa, vegetation structure and composition, landform, and field observations. Multivariate analysis results grouped most quadrats in a way that typically reflected data collected and field observations. Where there was a discrepancy between statistical grouping and field observations flora sites were grouped with the most appropriate vegetation type based on dominant flora taxa, vegetation structure and composition, landform, and field observations.

Mapping reliability ranged from very high, in areas where flora sites and mapping notes were completed within intact vegetation, to moderate or low in areas that were severely burnt or water stressed, had not been ground truthed or could not be accessed.

The vegetation types recorded from the Survey Area were correlated with the Beard (1976) and Shepherd *et al.* (2002) broad vegetation systems associations by examining similarities in vegetation descriptions. Differences exist with the terminology used in the descriptions provided in the current report as they are based on different methods of categorising and characterising vegetation types, and on different spatial scales (i.e. region vs. local scale). Vegetation mapping within the Survey Area was representative of existing broad scale vegetation and soil and land system mapping for the area. The Survey Areas spans three Pilbara sub-regions, with vegetation ranging from coastal dunes and tidal flats in the west, across plains dissected by drainage channels, to low hills and mesas in the east.

Claypans/Tidal flats and Channels

The vegetation of the low lying claypans/tidal flats between the dunes and swales was broadly representative of Beards system associations Cape Yannare Coastal Plain_676 described as Samphire: *Tecticornia* spp. communities in saline areas (CT03, CT05, CT06), and Cape Yannare Coastal Plain_127 described as bare areas, mudflats (CT04). Although Cape Yannare Coastal Plain_676 is not mapped within the main Survey Area, it is mapped just north of the Survey Area and overlaps the PPA portion of the Survey Area. CT03, CT05 and CT06, are dominated by *Tecticornia* species, whilst CT04 comprises open clay pan, void of vegetation other than low isolated herbs and chenopod shrubs.

CT07 also occurs on the claypans/tidal flats and channels, fringing claypans or in small rises on claypans where *Acacia* and grass species have established. Although vegetated, CT07 most closely represents Cape Yannare Coastal Plain_127 bare areas, mudflats, colonised by opportunist *Acacia* species (*Acacia tetragonophylla*, *Acacia synchronicia*, **Vachellia farnesiana*), over low grasses.

The vegetation of the tidal channel recorded in the PPA portion of the Survey Area, CT01, is broadly representative of Cape Yannare Coastal Plain_43, described as mangroves low forest (Kimberley) or thicket (Pilbara) mangroves *Avicennia marina*, *Rhizophora stylosa*, *Bruguiera exaristata*. Although Cape Yannare Coastal Plain_43 is not mapped within the Survey Area, it is mapped just northwest of the PPA portion of the Survey Area. CT01 is dominated by *Avicennia marina* tall shrubland over *Tecticornia* species.

Large tracts of the claypans/tidal flats within the Survey Area have been heavily grazed and trampled by cattle.

Dunes and Swales

The vegetation of the dunes (DS01) and swales (DS02, DS03) that occur at the western end of the Survey Area are representative of Beard's system associations Cape Yannare Coastal Plain_670 and Cape Yannare Coastal Plain_98. Both systems associations are described as shrub-steppe hummock grassland with scattered shrubs or mallee of *Triodia* spp. *Acacia* spp., *Grevillea* spp*.* *Eucalyptus* spp. The dominant hummock grasses recorded in these areas were *Triodia avenoides* and *Triodia epactia*. The dominant shrubs were *Grevillea stenobotrya*, *Hakea stenophylla* subsp. *stenophylla* and *Acacia stellaticeps* in the dunes, or *Acacia tetragonophylla* or *Acacia tetragonophylla* x *trachycarpa* in lower dunal areas fringing clay pans and tidal flats. In some lower lying degraded areas of these vegetation types **Vachellia farnesiana* replaced *Acacia tetragonophylla* and **Cenchrus ciliaris* replaced *Triodia epactia*.

The dune vegetation that occurs in the PPA portion of the Survey Area (DS04) is broadly representative of Cape Yannare Coastal Plain_117, described as grass-steppe hummock grassland *Triodia* spp. Although Cape Yannare Coastal Plain_117 is not mapped within the PPA Survey Area, it is mapped just northeast of the PPA Survey Area. DS04 is dominated by **Cenchrus ciliaris*, *Eragrostis falcata*, and *Triodia epactia*.

Plains

The plains comprised 24 vegetation types spanning the length of the Survey Area (excluding the PPA portion of the Survey Area). Most were broadly representative of the Onslow Coastal Plain_585, Onslow Coastal Plain_605, Cape Yannare Coastal Plain_98, Cape Yannare Coastal Plain_670, Stuart Hills_583, and Stuart Hills_103 systems associations, which comprise shrub steppes of hummock grassland with scattered shrubs and scrub and grass steppes. These pre-European vegetation types are all dominated by *Triodia* spp. and *Acacia* spp., with some also dominated by *Grevillea* spp. and *Eucalyptus* spp. This floristic composition and structure was reflected by the vegetation observed on the plains, which were typically dominated by hummock grasslands of *Triodia wiseana*, *Triodia epactia*, *Triodia glabra* or *Triodia longiceps*, with shrublands dominated by a mix of *Acacia* species the most common being *Acacia ancistrocarpa*, *Acacia atkinsiana*, *Acacia bivenosa*, *Acacia synchronicia*, *Acacia xiphophylla* and *Acacia inaequilatera*, and in some areas low isolated trees, most commonly *Corymbia hamersleyana* or *Corymbia candida* subsp. *candida.* Most of the plains vegetation types appeared to have been subjected to cattle grazing, frequent burning, and hydrological changes. Large tracts of the plains were water stressed in 2020, most clearly demonstrated by the unhealthy state of *Triodia wiseana* and *Triodia glabra*, which are relatively drought hardy species. The 2021 surveys recorded a much greater diversity of both ephemeral and perennial flora across the plains following high rainfall prior to the surveys.

Two of the plains vegetation types (PL20, PL22) were representative of Onslow Coastal Plain_29, which is described as Mulga *Acacia aneura* and associated species. Since pre-European mapping was undertaken *Acacia aneura* has been taxonomically split into various species, including *Acacia aptaneura*, the dominant flora of PL20 and PL22.

Low Hills and Mesas

The vegetation of the low hills and mesas occurring in the eastern portion of the Survey Area were broadly representative of the Stuart Hills_583 and Stuart Hills_103 systems associations. The hills and mesas vegetation types (HM01-HM09) were dominated by *Triodia wiseana* or *Triodia epactia* hummock grasslands, with isolated or sparse shrubs such as *Acacia inaequilatera*, *Acacia arida*, *Acacia bivenosa*, *Acacia synchronicia*, *Senna glutinosa* subsp. x *luerssenii* and *Eremophila fraser*i subsp. *fraseri*. *Eucalyptus leucophloia* subsp. *leucophloia*, typical of Pilbara mesas and hills, was recorded from two vegetation types (HM06 and HM07).

Drainage

Drainage, ranging from major and minor channels to broad sheet flow, intersected the Survey Area. In general, these drainage lines have not been separated from surrounding vegetation in the Beard's system association mapping. The drainage vegetation types mapped during the survey were broadly representative of the surrounding vegetation system associations, but were differentiated by higher species richness and density, particularly of ephemeral herbs and grasses, than the surrounding vegetation types. These vegetation types also contained riparian trees and shrubs typical of the region such as *Eucalyptus camaldulensis*, *Eucalyptus victrix*, *Gossypium robinsonii* and *Acacia colei*. Areas of broad sheet flow correlated with existing drainage landforms such as the Cane River. The areas immediately to the west and east of the Cane River displayed broad sheet flow and ephemeral ponding during the surveys. Of the vegetation units present alongside the Cane River, only unit PL24 was not present elsewhere in the Survey Area.

The section of the Cane River that intersects the Survey Area was mapped separately to surrounding vegetation by Beard's system association mapping as Onslow Coastal Plain_641, described as medium woodland coolabah and rivergum. The VTs associated with the Cane River (DR03 and DR04) correspond to and are representative of Onslow Coastal Plain_641. These VTs are dominated by riparian woodland species *Eucalyptus victrix*, *Eucalyptus camaldulensis*, *Melaleuca argentea* and *Melaleuca glomerata* over mixed shrubs, herbs, grasses, and sedges.

Most of the drainage vegetation within the Survey Area had a higher weed density and species richness than other vegetation types, as is typical in stocked land in the eremaea.

5.2.2 Vegetation of Conservation Significance

No vegetation representative of any Commonwealth or State listed TECs was recorded within the Survey Area.

One State listed PEC; the Tanpool Land System Priority 1 ecological community has been identified by DBCA within the Survey Area (Figure 13). The Tanpool Land System PEC is described as:

> *"A highly restricted land system that occurs between Pannawonica and Onslow. Consists of stony plains and low ridges of sandstone and other sedimentary rocks supporting hard spinifex grasslands and snakewood shrublands."* (DBCA, 2019).

The Tanpool Land System PEC overlaps a portion of the Survey Area mapped as PL01 *Acacia xiphophylla* tall open shrubland over *Triodia wiseana* and/or *Triodia longiceps* (*Triodia epactia*) low open hummock grassland, which is considered analogous to the PEC. Additional vegetation types mapped within the Survey Area (PL03, PL16 and PL20) occur within the PECs 500 m buffer mapped by DBCA, however the vegetation structure and composition of these vegetation types is not considered analogous to the PEC. Other occurrences of PL01 within the Survey Area are not considered analogous to the PEC because although the vegetation composition and structure is similar, they do not occur within the Tanpool Land system.

No other vegetation recorded within the Survey Area was considered analogous to any State listed PECs.

All Beard's system associations mapped within the Survey Area are well represented across their respective IBRA sub-bioregions, each having over 97% of their pre-European extent remaining.

Thirty-one vegetation types could be considered locally significant as they support Priority Flora species or potential range extensions, however being a linear Survey Area, all these vegetation types appear well represented in the local surrounds beyond the Survey Area based on aerial imagery and field observations.

Similarly, four vegetation types may be considered significant because of their restricted distribution within the Survey Area, however aerial imagery and field observations indicated these are also well represented beyond the Survey Area.

Three vegetation types (DR03, DR04, and DR06) within the Survey Area are likely to represent groundwater dependent vegetation due to the presence of *Eucalyptus camaldulensis* and/or *Melaleuca argentea*. A further five vegetation types (DR07, DR08, PL03, PL20, and PL21) may represent groundwater dependent vegetation due to the presence of *Eucalyptus victrix.* Unit PL03 represents 6.29% of the Survey Area, while the remaining vegetation types represent <1% each. These vegetation types are spread across the central and eastern sections of the Survey Area along drainages and major water flows. Potential impacts and associated management should be considered at the design phase of the proposed development.

6 Conclusion

The key findings of the surveys were:

- No Threatened flora taxa pursuant to the EPBC Act and/or gazetted as Threatened pursuant to the BC Act were recorded during the surveys
- Six DBCA listed Priority flora taxa were recorded within the Survey Area:
    - *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) (P1)
    - *Euphorbia inappendiculata* var. *inappendiculata* (P2)
    - *Eremophila forrestii* subsp. *viridis* (P3)
    - *Indigofera* sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)
    - *Triodia pisoliticola* (P3)
    - *Goodenia nuda* (P4).
- Eighteen introduced taxa were recorded during the survey, two of these **Parkinsonia aculeata* and **Prosopis pallida* are listed as both Declared Pests and WoNS
- Fifty-three vegetation types were mapped within the Survey Area, sampled with 228 flora sites
- Fourteen indicative vegetation types were mapped within the Southern Extrapolation Area
- Six indicative vegetation types were mapped within the Northern Extrapolation Area
- No vegetation representative of any Commonwealth or State listed TECs was recorded within the Survey Area
- One State listed PEC, the Tanpool Land System Priority 1 ecological community, identified by the DBCA database searches, was recorded within the Survey Area
- Three vegetation units contained groundwater dependent vegetation (*Melaleuca argentea, Eucalyptus camaldulensis*), and a further five units may also be groundwater dependent (containing *E. victrix*).

None of the Priority Ecological Communities or flora taxa are restricted to the Survey Area, and all have been recorded elsewhere in the region.

The Priority 1 taxa *Abutilon sp.* Onslow (F. Smith s.n. 10/9/61) occurs in large numbers on the east and west banks of the Cane River. This species was not present during the dry surveys, however, became abundant during the post-wet surveys. It is likely that this species is more abundant than previously known, however is rarely encountered outside the optimal timing. The large numbers within the Survey Area and the continuation of the landform suggest that large numbers of this species also extend north and south along the Cane River, and then any realignment of the Survey Area that crosses this landform would also encounter the same issue.

The small gravel rises that support dense populations of *Eremophila forrestii* subsp. *viridis* (P3) are a unique micro landform among broader plains (PL19). While this species is a P3, and the landform itself is not a PEC or TEC, it is unique and very restricted among the Survey Area, and not seen outside the survey area during helicopter traverses.

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Appendices

Appendix A
Literature Review

Table 1. Results of reviewed literature relevant to the AIP.

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
West Pilbara Project Ashburton East Rail Route Flora and Vegetation Scoping Study (Astron Environmental Services, 2008a)	Overlapping with the current Survey Area (however database search buffer extended beyond current Survey Area)	N/A	• Desktop review	No TECs or PECs were identified as occurring in the Survey Area	• One Threatened species • Three Priority 1 species • Two Priority 2 species • Sixteen Priority 3 species • Five Priority 4 species	• **Aerva javanica* • **Argemone ochroleuca subsp. ochroleuca* • **Cenchrus ciliaris* • **Datura leichhardtii* • **Malvastrum americanum* • **Parkinsonia aculeata* (Declared Pest, WoNS) • **Prosopis spp.* (Declared Pest, WoNS) • **Setaria verticillata* • **Ricinus communis* • **Vachellia farnesiana*
West Pilbara Project Onslow Rail Route Flora and Vegetation Survey (Astron Environmental Services, 2008b)	Overlapping with the current Survey Area	Four site visits between August and mid November 2008	• Desktop survey • Level 2 flora and vegetation survey	No TECs or PECs were identified as occurring in the Survey Area	• Two Priority 3 species • One Priority 4 species	• **Aerva javanica* • **Argemone ochroleuca* • **Cenchrus ciliaris* • **Cenchrus setiger* • **Cucumis melo* • **Cynodon dactylon* • **Echinochloa colona* • **Euphorbia hirta* • **Helichrysum luteoalbum* • **Malvastrum americanum* • **Parkinsonia aculeata* (WoNS, Declared Pest) • **Prosopis spp.* (WoNS, Declared Pest) • **Setaria verticillata* • **Sonchus oleraceus* • **Vachellia farnesiana*
Flora and Vegetation of the CS2 – Tubridgi – Wheatstone Gas Pipeline Project Area	Partially overlapping with the PPA Survey Area	April 2013	• Desktop survey	No TECs or PECs were identified as occurring in the Survey Area	• Two Priority 3 species	• **Aerva javanica* • **Cenchrus ciliaris* • **Cynodon dactylon*

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
(Mattiske Consulting Pty Ltd, 2013)			• Level 1 flora and vegetation assessment			• *Malvastrum americanum* • *Parkinsonia aculeata* (WoNS, Declared Pest) • *Portulaca oleracea* • *Vachellia farnesiana*
Flora and vegetation assessment – Ashburton North Strategic Industrial Area (ANSIA) Phase 2 Area (RPS Australia West Pty Ltd, 2019)	Partially overlapping with the current Survey Area (northwest corner)	July – August 2018	• Desktop assessment • Reconnaissance flora and vegetation survey • Targeted flora search	No TECs or PECs were identified as occurring in the Survey Area	• One Priority 3 species	• *Cenchrus ciliaris* • *Cenchrus setiger* • *Cucumis melo* • *Flaveria trinervia* • *Indigofera sessiliflora* • *Portulaca oleracea* • *Prosopis pallida* (WoNS, Declared Pest) • *Vachellia farnesiana*
Flora and vegetation survey and terrestrial fauna survey for the Pilbara Regional Waste Management Facility (Phoenix Environmental Sciences, 2017)	13 km south of the current Survey Area	September 2017	• Desktop review • Single season reconnaissance flora and vegetation survey	No TECs or PECs were identified as occurring in the Survey Area	• Two Priority 3 species	• *Cenchrus ciliaris*
Detailed flora and vegetation survey for the Pilbara Waste Management Facility (Phoenix Environmental Sciences, 2018)	13 km south of the current Survey Area	February – March 2018	• Detailed flora and vegetation survey	No TECs or PECs were identified as occurring in the Survey Area	• Two Priority 3 species	• *Cenchrus ciliaris*
Flora, Vegetation and Fauna Habitat Assessment at Bourne Highway (Rio Tinto, 2018)	58 km southeast of the current Survey Area	June – July 2017	• Desktop review • Flora and vegetation survey	No TECs or PECs were identified as occurring in the Survey Area	• Three Priority 3 species • Three Priority 4 species	• *Cenchrus ciliaris*
Eliwana and Flying Fish Level 2 Flora and Vegetation Survey (Phase 2) (Ecoscape, 2015)	60 km southeast of the current Survey Area	Level 1: July 2011 Level 2: April 2012, April 2013	• Desktop review • Level 1 assessment • Level 2 flora and vegetation assessment	No TECs or PECs were identified as occurring in the Survey Area	• Three Priority 3 species • Four Priority 4 species	• *Aerva javanica* • *Argemone ochroleuca subsp. ochroleuca* • *Bidens bipinnata* • *Bothriochloa pertusa* • *Cenchrus ciliaris* • *Datura leichhardtii*

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
						• **Flaveria trinervia* • **Malvastrum americanum* • **Setaria verticillata* • **Sonchus oleraceus* • **Vachellia farnesiana*

Table 2. Summary of conservation significant flora of reviewed literature relevant to the AIP.

Conservation significant flora or vegetation	(Astron Environmental Services, 2008a) Overlapping with Survey Area (database search only)	(Astron Environmental Services, 2008b) Overlapping with Survey Area	(Mattiske Consulting Pty Ltd, 2013) Partially overlapping with the Survey Area (PPA portion)	(RPS Australia West Pty Ltd, 2019) Partially overlapping with Survey Area (northwest portion)	(Phoenix Environmental Sciences, 2017) 13 km south of the Survey Area	(Phoenix Environmental Sciences, 2018) 13 km south of the Survey Area	(Rio Tinto, 2018) 58 km southeast of the Survey Area	(Ecoscape, 2015) 60 km southeast of the Survey Area
T								
Thryptomene wittweri (VU)	★							
P1								
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	★		★	★	★			
Calotis squamigera	★							
Helichrysum oligochaetum	★		★		★			
P2								
Ipomoea racemigera							★	
Scaevola sp. Hamersley Range basalts (S. van Leeuwen 3675)	★							
Tetratheca fordiana	★							
P3								
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)				★	✓	?✓		
Acacia daweana	★							
Acacia subtiliformis	★							

Conservation significant flora or vegetation	(Astron Environmental Services, 2008a) Overlapping with Survey Area (database search only)	(Astron Environmental Services, 2008b) Overlapping with Survey Area	(Mattiske Consulting Pty Ltd, 2013) Partially overlapping with the Survey Area (PPA portion)	(RPS Australia West Pty Ltd, 2019) Partially overlapping with Survey Area (northwest portion)	(Phoenix Environmental Sciences, 2017) 13 km south of the Survey Area	(Phoenix Environmental Sciences, 2018) 13 km south of the Survey Area	(Rio Tinto, 2018) 58 km southeast of the Survey Area	(Ecoscape, 2015) 60 km southeast of the Survey Area
Atriplex flabelliformis		✓	★					
Carpobrotus sp. Thevenard Island (M. White 050)				★				
Cyanthillium gracile	★							
Eleocharis papillosa			★	★	★			
Eragrostis crateriformis	★							
Eremophila forrestii subsp. *viridis*		✓	✓ Not in current Survey Area	✓	★			
Eremophila magnifica subsp. *velutina*	★						★	✓
Geijera salicifolia	★							
Glycine falcata	★							
Grevillea subterlineata			?✓ Not in current Survey Area					
Indigofera gilesii	★							✓
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)							✓	
Pilbara trudgenii	★							
Rhagodia sp. Hamersley (M. Trudgen 17794)	★							

Conservation significant flora or vegetation	(Astron Environmental Services, 2008a) Overlapping with Survey Area (database search only)	(Astron Environmental Services, 2008b) Overlapping with Survey Area	(Mattiske Consulting Pty Ltd, 2013) Partially overlapping with the Survey Area (PPA portion)	(RPS Australia West Pty Ltd, 2019) Partially overlapping with Survey Area (northwest portion)	(Phoenix Environmental Sciences, 2017) 13 km south of the Survey Area	(Phoenix Environmental Sciences, 2018) 13 km south of the Survey Area	(Rio Tinto, 2018) 58 km southeast of the Survey Area	(Ecoscape, 2015) 60 km southeast of the Survey Area
Rostellularia adscendens var. *latifolia*	★						★	
Sida sp. Barlee Range (S. van Leeuwen 1642)	★							
Sida sp. Hamersley Range (K. Newbey 10692)	★						✓	
Stackhousia clementii					★			
Terminalia supranitifolia	★							
Triodia pisoliticola	★						✓	✓
Triodia sp. Mt Ella (M.E. Trudgen 12739)	★							
Triumfetta echinata			★	★	✓	★		
P4								
Acacia bromilowiana	★							✓
Eremophila magnifica subsp. *magnifica*	★						✓	✓
Goodenia nuda	★	✓			★			✓
Lepidium catapycnon	★							
Ptilotus mollis							✓	✓
Rhynchosia bungarensis	★						✓	

✓ Denotes species was found during survey
★ Denotes species was identified by database searches during desktop assessment, which typically include an additional buffer around the Project Area, but were not found during survey

Appendix B
Database Searches

Threatened and Priority Flora List Database Search Results

PopID	Taxon	ConsStatus	PopNumber	Location	District	Vesting	Gda94Lat	Gda94Long	CountDate	InFlower	HabNotes	Landform	SoilType	SoilColor	AssSpecies	Veg_domA1	Veg_domB1	Veg_domC1	Veg_domD1
94348	*Abutilon* sp. Onslow (F. Smith s.n. 10/9/61)	1	1	Davis Bore, ca 30 km SW of Peedamulla Homestead, Peedamulla Locality (L 3114 905).	KARRATHA	PLB			13-Sep-96	N	Hard hummock grassland.	FL PLAIN	SAND		*Triodia lanigera*	*Triodia lanigera*			
94349	*Abutilon* sp. Onslow (F. Smith s.n. 10/9/61)	1	2	18.2 km from Yarraloola Homestead (ca 50 km west of Pannawonica), on bearing of 240 degrees, Yarraloola Station, Fortescue Locality (L 3114 1127).	KARRATHA	PLB			06-Nov-96	N	Hard hummock grassland.	FL PLAIN			*Triodia lanigera,Acacia xiphophylla*	*Triodia lanigera*	*Acacia xiphophylla*		
94416	*Carpobrotus* sp. Thevenard Island (M. White 050)	3	1	Thevenard Island between Saladin 4 (Oil Well) and jetty area. Ashburton Location 147, Thevenard Island Nature Reserve (Reserve No. 33174).	KARRATHA	CC			24-Aug-90	Y	Coarse sand. Top of dune.	RI DUNE	SAND	WHITE					
86860	*Glycine falcata*	3	3	UCL, ca 30 km (measures 38 km) N[NW] of Duck Creek Homestead, NW of Mount Delphine, [22 km SSE of Mount Rica].	KARRATHA	NON			14-May-96	Y	Depressions in crabhole plain with sparse perennial grasses.	OD_DRGLN							
87523	*Terminalia supranitifolia*	3	6	Hamersley Ranges. Gully on S side of valley of Bungaroo Creek, 4.6 km almost due S of Yathala (old Yalleen) Well. Herbarium Record Only.	KARRATHA	RDL	[illegible]	[illegible]	04-May-95	N	Perennial shrub 2.4 m tall, spreading to 4 m across, branches low, leaves shiny.	OPEN DPN	SAND		*Cymbopogon ambiguusoia,Trachymene oleracea,Gossypium australe,Gomphrena cunninghamii*	*Cymbopogon ambiguusoia*	*Trachymene oleracea*	*Gossypium australe*	*Gomphrena cunninghamii*

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate. Yellow flowers.	Undulating plain with low rises. Red loamy-sand. Collection site: reserve.	Tall shrubland. With Acacia ancistrocarpa, Triodia lanigera.	2-5 plants.	Lifestage: fruiting. Reproductive method: seeds.	Onslow Mount Stuart Road. Proposed Cane River Conservation Park extension				1	24/10/2011
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Semi-prostrate shrub to ca. 2 m diameter. Flowers and mature fruit.	Red-brown sand-plain.	Growing in Acacia ancistrocarpa, A. bivenosa open shrubland over Senna artemisioides subsp. oligophylla, and Triodia lanigera.	locally abundant, 50+ plants.		Congo Bore, ca. 57 km W of Pannawonica and ca. 48 km NW of Red Hill				1	25/08/2013
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate.	Red sand.				North West Coastal Highway, 30 miles E of Onslow				3	10/09/1961
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate perennial growing in mats up to 3 m wide and up to 1 m tall.	Flat plain receiving through flow.	Hard hummock grassland of Triodia lanigera with an overstorey of Acacia xiphophylla.	infrequent.		18.2 km from Yarraloola Homestead on a bearing of 240 deg., Yarraloola Station,				0	06/11/1996
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1		Floodplain. Zero slope. No coarse fragments. No bedrock exposed. Red brown sandy loam, average depth 26.4 cm.	High Open Shrubland of Acacia xiphophylla over Open Hummock Grassland of Triodia sp. over Scattered Tussock Grass of Cenchrus ciliaris over Scattered Bunch Grass Very Open Herbs.			Site: OYW12, N side of road, 110 m off road, 4.3 km W of Cane River crossing on Peedamulla - Onslow Road, 33 km WSW of Peedan Hill, 31.1 km SE of Onslow, Peedamulla Station, Pilbara IBRA				1	29/08/2006
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate grey perennial herb with grey foliage and spined pods, growing up to 0.2 m tall.	Plain with sandy surface.	Hard hummock grassland of Triodia lanigera.		Abundance: common.	Davis Bore, ca 30 km SW of Peedamulla Homestead,				0	13/09/1996
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	15 cm high.	Broad flat between distant aeolian. Patchy; cracking clay and loam.	Acacia synchronicia, A. bivenosa shrubland over Triodia epactia open hummock grassland. Associated species: (19 recorded): (complete list available on WA Herbarium database).		Condition: Excellent.	Site: WH11. 27 km SSE of Onslow				1	04/04/2009
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Semi-prostrate shrub to ca. 1 m diameter. Flowers and mature fruit.	Red sand-plain.	Growing in Acacia synchronicia open shrubland over Sida arsiniata, Cenchrus ciliaris, and Triodia epactia.			Congo Bore, ca. 57 km W of Pannawonica and ca. 48 km NW of Red Hill				1	24/08/2013
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate, sprawling shrub. Yellow flowers.	Flat hummock grassland with red-brown silty, clay loam. Site unburnt for greater than 5 years.	Acacia bivenosa and Acacia ancistrocarpa mid to tall isolated shrubs over Triodia glabra mid open hummock grassland.	common.	In excess of 1,000 plants recorded with numerous juveniles and seedlings noted following the above average rainfall.	Ca. 58 km W of Pannawonica				1	26/05/2017
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	1	Prostrate, sprawling shrub. Yellow flowers.	Flat hummock grassland with red-brown silty, clay loam. Site unburnt for greater than 5 years.	Acacia bivenosa and Acacia ancistrocarpa mid to tall isolated shrubs over Triodia glabra mid open hummock grassland.	common.	In excess of 1,000 plants recorded with numerous juveniles and seedlings noted following the above average rainfall.	Ca. 58 km W of Pannawonica				1	26/05/2017
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	3	To 150 cm.				Field No. Z 80.	1 km S of Onslow				3	03/08/1963

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Acacia bromilowiana	4	Shrub to 1.5 m tall.	In small gully, just below summit of hill. Rocky ironstone substrate.	Common species include Eucalyptus leucophloia, Triodia wiseana and T. sp. Robe River.	30 + plants.		C. 135 km WNW of Tom Price, NW of Mount Delphine				2	02/06/2012
Bothriochloa decipiens var. *cloncurrensis*	1	Perennial tussock grass; culms to 1.4 metres tall; spikelets green and pale yellow with silky hairs; awns black for lower third, then tan coloured.	Small, seasonally damp depression (would have water for a short time after rain) on a small plain between a large river and low hills. Soil: Red-brown loam.	Eucalyptus camaldulensis open forest over Acacia farnesiana open shrubland over *Cenchrus ciliaris grassland. Associated species: Malvastrum americanum, Sida rohlenae (+ MET 12,382), Datura leichhardtii, Euphorbia hirta, *Cynodon dactylon, Themeda austra			Hamersley Ranges. Plain next to the Robe River, 15.2 km east-south-east of Pannawonica and 1.2 km south of the river				0	03/05/1995
Carpobrotus sp. Thevenard Island (M. White 050)	3	Prostrate succulent, glabrous plant. Leaves sessile, triangular in cross section to 10 cm in length. Sides 17mm wide. Flowers cream, solitary, 3-5 cm in diameter on thick peduncles 4-5, 2 large, leaflike, others small. Fruit turbinate.	Coarse white sand on top of dune. Disturbed area.				Thevenard Island between Saladin 4 and jetty area				2	24/08/1990
Carpobrotus sp. Thevenard Island (M. White 050)	3	Prostrate succulent glabrous plant with stems to 1.5 m long, rooting at nodes, dull green. Leaves sessile triangular in cross section to 10 cm long sides 17 mm wide. Flowers cream, solitary 3 - 5 cm diam. on thick pedumcles 4 - 5 cm long. Perianth lobes	Low open area, medium to coarse sand with shell grit.				Thevenard Island. 500 m from south beach 250 m SW windsock				2	23/06/1988
Cyanthillium gracile	3	Rounded shrub to 0.4 m with purple flowers.	Relatively high hilltop, ironstone outcropping.	Eucalyptus leucophloia over Triodia wiseana.	50+ plants.		Ca 9 km W of Mount Delphine and 145 km WNW of Tom Price				1	03/06/2012
Cyanthillium gracile	3	Rounded subshrub to 30 cm tall, in full to late flower.	High in landscape, summit of rounded hill, skeletal red gritty soil over massive Brockman Iron Formation rock.	Growing in OSM of Eucalyptus gamophylla and E. hamersleyana with scattered emengernt E. leucophloia over LSB of Acacia orthocarpa (SVL 4402) and Hakea lorea over ODSCD of Dampiear candicans and Waaltheria virgata over MDHG of Triodia sp.	common.		34.1 km WNW of Mount Farquhar, 23.3 km S of Mount Rica, 33.8 km SE of Ken's Bore on Red Hill Station, 19.8 km NE of Urandy Creek Outcamp, Hamersley Range				1	15/10/1998
Dicladanthera glabra	2	Perennial herb/shrub, 0.5 m high by 0.3 m wide with white flowers.	Rocky gully - drainage line. Brown sandy clay loam with pebbles and cobbles. Burnt >10 years ago.	Eucalyptus leucophloia, Acacia pruinocarpa, Eriachne mucronata, Acacia monicola. Associated species: Stylobasium spathulatum, Gossypium robinsonii, Triodia epactia and Acacia tumida.	3, c. 80 individuals recorded within the project area.		Pannawonica				1	14/08/2015
Dicladanthera glabra	2	Sprawling low shrub, <0.4 m high.	Ledges and scree slopes along ironstone cliff lines, usually associated with gorges.		rare.		6.4 km S of Mount Dempster, 22.4 km ENE of Red Hill Homestead and 28.2 km SSW of Pannawonica				1	27/05/2012

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Dicladanthera glabra	2	Sprawling low shrub, <0.4 m high.	Base of cliff line and scree slopes adjacent to major drainage line.		scattered.		6.3 km SSW of Mount Dempster, 19.8 km NE of Red Hill Homestead and 28.7 km SSW of Pannawonica				1	26/05/2012
Dicladanthera glabra	2	Sprawling low shrub, <0.4 m high.	Ledges and scree slopes along ironstone cliff lines, usually associated with gorges.		uncommon.		28.3 km SSE of Mount Dempster, 32 km ESE of Red Hill Homestead and 46.6 km S of Pannawonica				1	04/10/2012
Dicladanthera glabra	2	Sprawling low shrub, <0.4 m high.	Cliff line and scree with ledges, adjacent to drainage line.		ca. 12 individuals per 10 m2; at least 100 plants in vicinity.		28.3 km SSE of Mount Dempster, 31.9 km ESE of Red Hill Homestead and 46.6 km S of Pannawonica				1	06/03/2013
Dicladanthera glabra	2	Shrubby spreading perennial herb, growing up to 0.5 m tall. Pink flowers.	Base of channel iron scree where it intersects with a cobble bed creek.	Sparse woodland.	common.		Upper catchment of Bungaroo Creek, West Hamersley Ranges, West Pilbara				1	15/04/2015
Dicladanthera glabra	2	Spreading low shrub, growing up to 0.3 m tall, with white flowers.	Base of robe pisolite scree slope where it intersects with a major cobbly creek.	Open woodland of Eucalyptus victrix.	infrequent.		MA112, large western tributary of Bungaroo Creek, Western Hamersleys, c. 50 km S of Pannawonica				1	21/10/2014
Eleocharis papillosa	3		Broad drainage area through sandy coastal plain; on a vehicle track. Red-brown clay.	Mosaic of Tecticornia low shrubland with mixed tussock grassland of Sporobolus mitchellii, Eriachne benthamii, Eulalia aurea.		Condition: Excellent to Very Good. No sign of recent fire.	Site: 567_BES622. 17.6 SSE of Onslow, 102 km W of Nanutarra Roadhouse and 124 km NW of Barradale Roadhouse				1	14/03/2011
Eleocharis papillosa	3	5 cm high.	Broad saline drainage area. Red-brown clay.	Tecticornia indica subsp. leiostachya, T. sp. low open shrubland over Sporobolus mitchellii scattered tussock grasses. Associated species (26 recorded): (complete list available on WA Herbarium database).		Condition: Good; 10+ Cenchrus ciliaris individuals.	Site WH08, 18.8 km S of Onslow townsite				1	04/04/2009
Eragrostis surreyana	3	Grass 5 cm high.	Soak with standing water (10% of area) within a wide plain bordered by steep hills to the N & S. Soil red-brown sandy clay.	Acacia sclerosperma scattered tall shrubs over Triodia longiceps very open hummock grassland over Cyperus vaginatus very open sedgeland over Eragrostis sp. Mt Montague (MET 15246) scattered bunch grasses. Condition excellent.			Site GBF_RB07, 20 km S of Pannawonica				1	24/07/2009
Eragrostis surreyana	3	Grass 5 cm high.	Broad drainage-soak with patchy surface water (adjacent to main river bed). Red brown loamy sand. Ironstone pebbles and gravel. Fire > 2 years.	Eucalyptus camaldulensis, Eucalyptus victrix woodland over Melaleuca glomerata tall open shrubland over GBF22-5, GBF22-09, Stemodia grossa very open herbland, GBF22-03 open sedgeland. Condition: very good. Weeds present. Branches of Eucalyptus sp. show f			Site GBF22, 20 km S of Pannawonica	[illegible]	[illegible]	[illegible]	1	24/07/2009

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Eragrostis surreyana	3	Grass 5 cm high.	Soak area with surface water. Soil red-brown sandy clay. No sign of fire.	Melaleuca glomerata, Vachellia farnesiana, Acacia colei tall open scrub over Cyperus vaginatus sedgesland over Triodia longiceps scattered hummock grassland with Cynodon dactylon grassland and Passiflora foetida open lianas. Condition good, presence of a			Site GBF32, 20 km S of Pannawonica				1	25/07/2009
Eremophila forrestii subsp. *viridis*	3	Perennial.	Dune. Red [sand]. Collection site: rangeland.	Tall shrubland.	6-20 plants.	Lifestage: fruiting. Reproductive method: seeds.	Onslow				1	02/09/2011
Eremophila forrestii subsp. *viridis*	3	Medium sized shrub, 0.8 - 1.5 m tall.	Red sands - red/brown sandy loams of flat interdunal swales (not within dunes). Generally occurs on the flats where a hardpan develops in between inland dunes.	Acacia tetragonophylla, A. stellaticeps, Triodia epactia.			Ca 30 km SW of Onslow, Pilbara				1	19/08/2009
Eremophila forrestii subsp. *viridis*	3	Shrub more or less 1 m. Flowers pink-cream.					10 miles S of Onslow				3	28/08/1960
Eremophila forrestii subsp. *viridis*	3	Shrub, 1 m tall. Co-occuring with Eremophila forrestii subsp. forrestii	Steep, rocky gully on mid slopes of a mesa of heavily weathered, laterised sediments. Shallow, gravelly sandy clay loam soils.	Isolated shrubs of Acacia bivenosa, Tribulus suberosus and Eremophila forrestii subsp. viridis and subsp. forrestii over moderately dense Triodia sp. hummock grassland.	occasional.		28.4 km NNW of Mt Murray, 30.7 km S of Mt Minnie homestead, 33.1 km N of the Nanutarra Roadhouse, 77.2 km SE of Onslow. Cane River Conservation Park, Pilbara IBRA				1	23/06/2011
Euphorbia australis var. *glabra*	3	Annual herb.	On the bank of a large dry creek (wadi). Soil: Red-brown loam, some pebbles.	Eucalyptus camaldulensis forest to closed forest over Acacia trachycarpa, Acacia holosericea, Acacia farnesiana high open shrubland over *Cenchrus ciliaris, *Cenchrus sp. dense tussock grassland (Melaleuca bracteata high open shrubland along the bed of t		At site 32 of the survey.	Hamersley Ranges. Jimmawurrada Creek, 7 km north-north-west of Yathala (Old Yalleen) Well				0	07/04/1993
Glycine falcata	3	Herbaceous mat-forming perennial with light mauve flowers with above ground and below ground fruit, growing up to 0.2 m tall.	Drainage depressions in crabhole plain with sparse perennial grass cover.	Mat of this species.	locally common.	Very palatable to cattle.	About 30 km N from Duck Creek Homestead, W of Mount Delphine in drainage sump				0	14/05/1996
Goodenia nuda	4		Broad plain.	Acacia synchronicia, Acacia inaequilatera, Hakea chordophylla (Acacia xiphophylla) scattered tall shrubs to open shrubland over Triodia epactia very open hummock grassland over Eriachne pulchella, Aristida contorta open bunch grassland and Heliotropium h			53 km W-NW of Pannawonica town site, 13 km W-NW of Pannawonica Road and North West Coastal Highway intersection and 34 km SE of Weld Island				1	26/08/2009

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Goodenia nuda	4	Annual 0.25 m high. Yellow flowers.	Eastern side of broad drainage tract. Red-brown loamy sand. Burnt 2-5 years ago. Collection site: rangeland.	Low woodland of Corymbia candida and Eucalyptus victrix over low shrubland of Acacia ancistrocarpa over herbland of Ptilotus axillaris, Streptoglossa bubakii, Indigofera monophylla, Goodenia nuda and Alternanthera nodiflora.		Lifestage: fruiting. Reproductive method: seeds.	Onslow				1	30/08/2008
Goodenia nuda	4	Annual herb 0.2 m high.	Very gently undulating plain. Damp area-runoff from highway. Red-brown sandy loam. Scattered patches of small ironstone pebbles. Burnt 5-7 years ago. Collection site: rangeland.	Scrubland to open heath of Acacia ancistrocarpa, Acacia bivenosa, Acacia coriaceae subsp. pendens, A. synchronicia, Grevillea wickhamii and Acacia inaequilatera over open hummock grassland of Triodia epactia and tusssock grassland of Chrysopogon fallax,		Lifestage: fruiting. Reproductive method: seeds.	Onslow				1	30/08/2008
Goodenia nuda	4			Acacia synchronicia and Acacia inaequilatera tall shrubland over Aristida contorta open tussock grassland and Triodia epactia and Triodia wiseana very open hummock grassland. Associated Species: Acacia tetragonophylla, Cymbopogon ambiguus, Ptilotus helip			53 km W-NW of Pannawonica town site, 13 km W-NW of Pannawonica Road and North West Coastal Highway intersection and 34 km SE of Weld Island				1	26/08/2009
Goodenia nuda	4	Herb to 50 cm high.	Red sand-plain.	Recently burned Corymbia candida open woodland over mixed acacias (Acacia ancistrocarpa, A. inaequilatera, and A. bivenosa).			Congo Bore, ca. 57 km W of Pannawonica and ca. 48 km NW of Red Hill				1	25/08/2013
Goodenia nuda	4	0.3 m high.	Hard setting, firm, brown, silty clay loam. Drainage line. Fire: ca 10 years. 2007: 35% cover leaf litter, 85% cover bare ground (including litter, rock cover and bare soil, excluding live vegetation), presence of cryptogams (earth balls), 2% cover dead	Woodland. Eucalyptus camaldulensis var. obtusa, Corymbia hamersleyana and C. candida subsp. candida open forest over Acacia trachycarpa and A. ligulata high shrubland over Triodia wiseana and T. epactia very open hummock grassland over Cenchrus ciliaris		Condition: Good, no effective disturbance except grazing by hoofed animals.	Southern section of the Cape Preston rail alignment, West Pilbara Site: CP042				1	20/06/2008
Goodenia nuda	4	Ascending herb. Corolla yellow, purple marking in throat.		Spinifex grassland.			96 miles from Onslow on Mount Stuart road				3	10/08/1970

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Goodenia nuda	4		Alluvial floodplain silt and clay. Zero slope. No coarse fragments. No bedrock exposed. Pink brown silty loam, average depth 28 cm.	Low Woodland of Corymbia candida over Open Scrub of Acacia tumida var. pilbarensis, Cullen sp. & Acacia ancistrocarpa over Low Open Shrubland of Senna artemisioides subsp. oligophylla over Open Tussock Grassland of Eriachne benthamii over Open Herbs.			Site: OYW02, South side of road, 17.5 km W of Dampier-Bunbury gas pipeline crossing on Red Hill Station Homestead access track from North West Coastal Highway, 14.1 km SW of Toongawooroo Hill, 57 km SW of Pannawonica, Red Hill Station, Pilbara IBRA				1	17/08/2005
Goodenia nuda	4		Floodplain silt and clay. Zero slope. No coarse fragments. No bedrock exposed. Red brown loam, average depth 35.8 cm.	Scattered Trees of Eucalyptus victrix over Low Open Forest of Acacia aneura over Open Hummock Grassland of Triodia pungens over Very Open Bunch Grassland of Eriachne benthamii over Open Herbs.			Site: OYW10, S side of road, 100 m off road, 4.8 km W of Peedamulla Homestead on Peedamulla - Onslow Road, 19.7 km E of Cane River crossing. 15.8 km SW of Peedan Hill, 54.2 km ESE of Onslow, Peedamulla Station, Pilbara IBRA				1	16/08/2005
Helichrysum oligochaetum	1	Annual rounded erect herb to 24 cm tall. Leaves stem-clasping, lanceolate, alternate, in whorls around upper stem, sparsely pubescent and presenter to heads. Compound heads more or less globular, 5-7 mm diam., florets yellow.	On disturbed ROW, red dusty clay soil.	With other Asteraceae and buffel grass.		Abundance: abundant	Tubridgi Gas Pipeline ROW, 59 km S of plantsite, 92 km SE of Onslow				0	16/11/1992
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Perennial shrub 1.2 m high x 1 m wide. Pink flowers.	Floodplain. Burnt 5-7 years ago.	Acacia citrinoviridis, Acacia pyrifolia tall open shrubland over Pentalepis trichodesmoidees, Corchorus crozophorifolius, Corchorus aff. parviflorus low open shrubland over Triodia epactia open tussock grassland.	2-5 plants.	Reproductive method: seeds.	50 km S of Pannawonica				1	03/05/2011
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Perennial shrub 1.2 m high.	Riverbank. Collection site: rangeland.		one only.	Lifestage: immature. Reproductive method: seeds.	Ca 120 km SE of Pannawonica				1	14/08/2010
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Shrub.		Rangeland.	one only.		Astron APIVopp-13, Red Hill Station				2	15/08/2010
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Shrub 1.5 m high x .8 m wide. Flowers pink. In bud.	Watercourse, major creekline. Burnt 7-10 years.	Eucalyptus camaldulensis, E. victrix open forest over Acacia ampliceps tall open shrubland over Melaleuca glomerata scattered shrubs over Cyperus vaginatus open sedgeland.			Astron Mt Stuart - Cane River OPP, 60 km S of Pannawonica				2	21/06/2011
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Fruit and flowers, 1.2 m high.	Drainage line.				Site API-7541. Sirens Pool (Stockmans Pool), West Pilbara Iron project area	[illegible]	[illegible]	[illegible]	1	17/07/2009

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	0.5-1.5 m high.	Creekline. Riverstones. 2009: 1% cover leaf litter, 90% covedr bare ground, 1% dead wood on ground, 25% total PFC. Dry after little summer rain. Shrubs over 2 m have a 20% cover. Very rapid runoff with a very abundant mixture of small pebbles to stones v	Acacia citrinoviridis and A. pyrifolia var. pyrifolia high shrubland over Triodia epactia scattered hummock grasses. Associated species (31 recorded): Acacia tumida var. pilbarensis, Gossypium australe (Burrup Peninsula form), Stylobasium spathulatum, Gr		Condition: very good.	Site BOR152. Red Hill Station, West Pilbara Iron project area, West Pilbara				1	10/06/2009
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	1.1 m high. Green leaves, dark pink flowers.	Stony creekbed.				Site WPI-269. Proposed airstrip, W of Cardo North mesa, West Pilbara project area, West Pilbara				1	17/06/2007
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	1.5 m high.	Valley floor. Loose, red silty sand with high gravel content Channel Iron Deposit. Fire 5-10 years. 2007: Dry after little summer rain. 5% leaf litter cover, 60% bare ground (including litter, rock cover and bare soil, excluding live vegetation), 2% dead	Acacia citrinoviridis and Stylobasium spathulatum high shrubland over Triodia sp. Robe River and T. epactia open hummock grassland. Associated species (40 recorded): Duperreya commixta, Indigofera monophylla (grey leaflet form), Themeda triandra, Rhyncho		Condition: Excellent, no effective disturbance. Fire: 5-10 years.	Site UC006. Between E and W arms of Upper Cane mesa, Red Hill Station, West Pilbara Iron project area, West Pilbara				1	05/08/2008
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3		River bed. Gravel.	Acacia citrinoviridis, Gossypium robinsonii, Acacia pyrifolia var. pyrifolia, and Stylobasium spathulatum open scrub over Tephrosia rosea var. glabrior open shrubland. Associated species (22 recorded): Cymbopogon ambiguus, Cucumis maderaspatanus, Trichod			Site BOR085. N of Upper Cane mesa, Red Hill Station, West Pilbara Iron project area, West Pilbara				1	05/06/2009
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	170 cm high.	Creek bank (low region within wide valley).	Acacia pyrifolia and Acacia bivenosa shrubland over Triodia wiseana hummock grassland.			34 km SW of the Pannawonica Road / Millstream Yarraloola Road intersection				1	23/08/2009
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	170 cm high.		Associated Species: Trachymene oleracea, Cenchrus setiger, Pentalepis trichodesmoides.			Site: GBF_vou05. 2.6 km SW of Millstream Yarraloola Road, 11.2 km NW of the Rio Tinto Bungaroo camp. 29 km S of the Pannawonica townsite	[illegible]	[illegible]	[illegible]	1	22/07/2009

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Upright shrub to 1.5 m tall, open umbrella like canopy, leaves crowded towards terminal branches, in fruit.	Steep slopes, low in landscape, skeletal red gritty soil over pebbles and massive Brockman Iron Formation banded ironstone.	Growing in OLWB of Eucalyptus leucophloia, E. ferriticola and E. hamersleyana over OLSA of Acacia maitlandii, A. pyrifolia, A. inaequilatera over ODSC/D of Corchorus sidoides over DHG of Triodia pungens and Triodia sp. (hard).	common, 1000+ plants.	Peter G. Wilson (RBG, Sydney) in correspondence to SVL about this taxon and the I. monophylla complex noted the following "In retrospect, we (Ross and I) should have seriously considered the big form (that we saw at Duck Creek) as another segregate" (M	12.8 km ESE of Mount Rica, 32.2 km SW of Mount Elvire, 39.5 km NNW of Mount Farquhar, Hamersley Range				2	13/10/1998
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	150 cm high.		Acacia ancistrocarpa, Grevillea wickhamii open shrubland over Triodia wiseana hummock grassland. Associated Species: Ptilotus calostachyus, Ptilotus astrolasius, Ptilotus axilaris, Sida echinocarpa, Cullen leucochaites, Hakea chordophylla.			Site: GBF_vou04. 2.8 km SW of Millstream Yarraloola Road, 14 km NW of the Rio Tinto Bungaroo camp. 29 km S of the Pannawonica townsite				1	22/07/2009
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Shrub.	Minor drainage. Red sand over ironstone.		40 individuals.		43 km NW of Pannawonica				1	03/05/2015
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Shrub.	Gorge/gully. Brown clay-loam over ironstone.		30 individuals.		C. 85 km S of Pannawonica				1	31/05/2015
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	3	Upright shrub growing to 2.5 m tall, with mauve flowers.	Creek in ironstone country.	Hummock grass of Triodia pungens with an overstorey of short lived Acacias.	common.		(Q 4) W of Bungaroo Creek, Western Hamersleys and c. 50 km S of Pannawonica				1	16/10/2014
Livistona alfredii	4	Perennial palm, 8 m high by 5 m wide. Inflorescence yellow.	Major drainage with red brown sandy loam. Burnt >10 years ago.	Eucalyptus camaldulensis subsp. refulgens, Petalostylis labicheoides, Cenchrus ciliaris. Associated species: Gossypium robinsonii, Cenchrus setiger, Cyperus vaginatus and Aerva javanica.	one.		Robe River				1	27/09/2015
Owenia acidula	3	Thick stem, fern-like, small pinnate tree, 1.2-2.5 m high.	Plain with creek and drainage line adjacent. Silty loam.	Eucalyptus victrix and Corymbia hamersleyana open woodland over Acacia atkinsiana, A. bivenosa and Owenia acidula high shrubland over Sida echinocarpa open shrubland over Triodia epactia hummock grassland. With Vachellia farnesiana, Senna artemisioides s		Very little lag gravel (<2 %).	Site: IN001. Proposed ROM and Plant site, Infrastructure area, Red Hill Station, West Pilbara project area, West Pilbara				1	25/11/2007

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Owenia acidula	3	1-5 m high.	Bank of drainage line in low rolling hill. Red brown, firm, loose sandy clay Ferrous CID outcropping. Fire: >10 years. 10% leaf litter, 75% bare ground (including litter, rock cover and bare soil, excluding live vegetation), 5% dead wood/timber on ground	Owenia acidula low woodland over Acacia bivenosa, A. tumida var. pilbarensis, Vachellia farnesiana and Gosypium robinsonii high shrubland over Triodia epactia open hummock grassland. With Vachellia farnesiana, Commicarpus australis, Paraneurachne mueller		Condition: Excellent, with no effective disturbance except by hooved animals.	Site: AD004. Proposed administration site in the West Pilbara Iron project area, West Pilbara				1	08/08/2008
Paspalidium retiglume	2	Height: 0.3 m.	Clay flats. Soil: red brown cracking clay, 2 - 10% loose rock, ironstone 2 - 6 mm. Fire: c. 3 years ago.	Astrebla elymoides and Aristida latifolia mid open tussock grassland. Condition: good.			Fortescue's Delphine Exploration Tenement, c. 15 km W of Mount Delphine				1	05/06/2012
Ptilotus mollis	4		Mesa. Mesa approximately 300 m high. Fire: <2 years.	Associated species (2 recorded): Triodia epactia.			Site API-1142. W and NW of Red Hill Station, outside of the West Pilbara Iron project area, West Pilbara				1	09/08/2008
Ptilotus mollis	4	Semi-prostrate, rounded shrub, 0.4 m tall. On scree slope.	Lower to mid scree slopes of weathered mesa of siltstone. Gravelly red silty clay loam. Skeletal soil.	Acacia bivenosa and Acacia synchronicia very sparse open shrubland over Triodia hummock grassland. Occasional shrubs of Capparis spinosa var. nummularia and Ptilotus molllis.	occasional.		12.9 km NNW of The Tombs, 25.4 km ENE of abandoned Cane River homestead, 21.8 km W of Red Hill Station homestead, 60.9 km NNE of Nanutarra Roadhouse. Cane River Conservation Park, Pilbara IBRA				1	24/06/2011
Ptilotus mollis	4	Semi-prostrate, rounded shrub, 0.3 m tall. On scree slope.	Lower to mid scree slopes of weathered mesa of siltstone. Gravelly red silty clay loam. Skeletal soil.	Acacia bivenosa and Acacia synchronicia very sparse open shrubland over Triodia hummock grassland. Occasional shrubs of Capparis spinosa var. nummularia and Ptilotus molllis.	occasional.		12.9 km NNW of The Tombs, 25.4 km ENE of abandoned Cane River homestead, 21.8 km W of Red Hill Station homestead, 60.9 km NNE of Nanutarra Roadhouse. Cane River Conservation Park, Pilbara IBRA				1	24/06/2011
Rhynchosia bungarensis	4		Rocky S facing hillslope. Ironstone.	Vachelia farnesiana and Petalostylis labicheioides scattered shrubs, Cenchrus ciliaris tussock grassland. Rhynchosia bungarensis.			20.8 km SW of the Pannawonica Road and North West Coastal Highway intersection, Proj. Code 530, Site Vou2_MST10				2	22/08/2009
Rhynchosia bungarensis	4		Valley drainage area between two rocky slopes.	Corymbia hamersleyana open woodland over Acacia inaequilatera, A. pyrifolia tall open shrubland over Triodia epactia hummock grassland. Associated species: Acacia pyrifolia, A. inaequilatera, Triodia epactia, Cassia glutinosa, Indigofera wiseana, Corchor			65.5 km SE of Pannawonica Road - North West Coastal Highway junction; 34.7 km SSE of Pannawonica town site, Pilbara region of WA				1	09/03/2005

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Rhynchosia bungarensis	4		Flat plain / wide valley between two hill ranges.	Corymbia hamersleyana scattered low trees over Acacia ancistrocarpa tall shrubland over Triodia wiseana hummock grassland. Asssociated species: Corymbia hamersleyana, Acacia ancistrocarpa, A. inaequilatera, A. bivenosa, Solanum diversiflorum, Triodia wis			42.6 km SE of Pannawonica Road - North West Coastal Highway junction; 18.9 km ca SSW of Pannawonica town site, Pilbara region of WA				1	11/08/2006
Rhynchosia bungarensis	4	Perennial herb 0.3 m high x 0.2 m wide. Yellow flowers.	Hillside. Burnt 2-5 years ago.	Terminalia canescens, Acacia pruinocarpa (Eucalyptus leucophloia) low open woodland over mixed Acacia scattered tall shrubs over Triodia sp. Robe River, T. epactia, T. wiseana hummock grassland.	one only.	Lifestage: immature. Reproductive method: seeds.	50 km S of Pannawonica				1	01/09/2011
Rhynchosia bungarensis	4	Perennial herb 0.2 m high. Yellow flowers.	Floodplain. Burnt 7-10 years ago.	Eucalyptus camaldulensis subsp. obtusa woodland to closed forest over Acacia ampliceps, A. colei var. ileocarpa, Stylobasium spathulatum tall shrubland to open scrub over Triodia epactia scattered hummock grassland and Cyperus vaginatus open sedgeland.	one only.	Reproductive method: seeds.	50 km S of Pannawonica				1	04/05/2011
Rhynchosia bungarensis	4			Acacia synchronicia, A. bivenosa, A. ancistrocarpa open shrubland over Triodia wiseana open hummock grassland.			37.8 km west south west of Pannawonica townsite, 8.8 km south south east of the North West coastal highway- Pannawonica Road junction, in the Pilbara region				1	04/08/2005
Rhynchosia bungarensis	4	90 cm high.	Bed of a major river (Robe River). Brown river sand with clay riverstone, ironstone.	Melaleuca argentea, (Eucalyptus camaldulensis var. obtusa) closed forest over Petalostylis labicheoides, Sesbania formosa open shrubland over Stemodia grossa low open shrubland over Cyperus vaginatus, (Typha domingensis) very open sedgeland. Associated s		Condition: Very good. Signs of cattle.	Mesa K Biological flora and vegetation survey, 12.4 km SW of Pannawonica townsite in the Pilbara region				1	10/11/2006
Rhynchosia bungarensis	4	0.2 m high x 0.3 m wide.	Watercourse. Red-brown sandy loam. Burnt 2-5 years.	Corymbia hamersleyana scattered low trees over Gossypium robinsonii tall open scrub over Senna spp. low shrubland over Triodia epactia open hummock grassland.	one only.		Bungaroo Creek				2	30/03/2011
Rhynchosia bungarensis	4	Viscid. 2-3 ft high. Flowers yellow.	Sandstone rocks.				Deepdale, Robe River				3	21/10/1941
Rhynchosia bungarensis	4	Erect or spreading 1 ft high. Flowers yellow.	Stony soil.				Yathala Well, near Mount Rica, Hamersley Range				3	25/10/1941

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Rhynchosia bungarensis	4		Slightly elevated area between two minor drainages.	Acacia bivenosa, A. trachycarpa open shrubland over scattered Tephrosia rosea var. glabrior low shrubs.	only 1 individual noted.	Likely to be more present in area (survey timing not opportune for detection of this species due to dry conditions and recent fire).	Within Robe River Irons Associates Mesa J Extension, immediately W of existing Mesa J iron ore mining operations, <1 km W of Millstream - Yarraloola Road, 11.5 km SSE of Pannawonica				1	19/09/2003
Rhynchosia bungarensis	4		Floodplain of Robe River. Recently burnt.	Hummock - tussock grassland.	scattered but common on floodplain.		Floodplain or Robe River Iron, <1 km E of Millstream - Yarraloola Road, 8.5 km SE of Pannawonica				1	19/09/2003
Rhynchosia bungarensis	4	Prostrate compact shrub with bright green sticky foliage with yellow flowers with red streaks on rear of standard, growing to 0.3 m tall.	Cobble bed of major river channel.	Melaleuca argentia (PRP 1696) and Eucalyptus camaldulensis gallery woodland.		Abundance: common. It had been grazed by cattle.	Ca 3 km E of Deepdale Outcamp where the Robe River crosses the Deepdale to Millstream Road				0	01/11/1996
Rhynchosia bungarensis	4	Perennial yellowish green sticky semi-decumbent shrub growing up to 0.4 m tall.	Cobble bed of large river.	Eucalyptus camaldulensis woodland.	common, also seen at Skull Springs on Oakover River near Nullagine.		c. 10 km E of Yarraloola Homestead in bed of Robe River				0	16/09/1995
Rhynchosia bungarensis	4	Perennial herb with sticky foliage and yellow flowers up to 0.4 m tall.	Cobble river bed.	Eucalyptus camaldulensis woodland.	locally common.		Ca 15 km SE of Yarraloola Homestead in bed of Robe River,				0	28/09/1994
Rhynchosia bungarensis	4	Prostrate scrambling herb.	Eucalyptus camaldulensis lined creek.	Low woodland of Eucalyptus camaldulensis over Gossypium robinsonii over mixed low shrubs over open sedgeland of Cyperus vaginatus.	5 plants observed in immediate area.		Bungaroo Valley, 26.9 km SSE of Pannawonica				1	30/05/2013
Rhynchosia bungarensis	4	Perennial shrub 50 cm tall and 80 by 50 cm across; stems green; leaflets mid-green with golden glandular hairs; stnadard yellow with a small light green centre and dark red veins that coalesce to form a margin around the centre; wings yellow, turned hori	On the banks of a flow line in the mouth of a gully in the southern wall of a moderate sized valley. Soil: pebbly/shingly coarse sand amongst boulders, some fine material.	Eucalyptus leucophloia, Acacia pruinocarpa low open woodland over Abutilon lepidum high open shrubland over Tephrosia densa (MET 12,399), Indigofera aff. monophylla shrubland over Triodia wiseana, Eriachne tenuiculmis grassland. Associated species: Cymbo			Gully on southern side of valley of Bungaroo Creek, 4.6 km almost due S of Yathala (Old Yalleen) Well, Hamersley Range				2	04/05/1995
Rhynchosia bungarensis	4	Perennial shrub 50 cm tall and 80 by 50 cm across; stems green; leaflets mid-green with golden glandular hairs; stnadard yellow with a small light green centre and dark red veins that coalesce to form a margin around the centre; wings yellow, turned hori	On the banks of a flow line in the mouth of a gully in the southern wall of a moderate sized valley. Soil: pebbly/shingly coarse sand amongst boulders, some fine material.	Eucalyptus leucophloia, Acacia pruinocarpa low open woodland over Abutilon lepidum high open shrubland over Tephrosia densa (MET 12,399), Indigofera aff. monophylla shrubland over Triodia wiseana, Eriachne tenuiculmis grassland. Associated species: Cymbo			Gully on southern side of valley of Bungaroo Creek, 4.6 km almost due S of Yathala (Old Yalleen) Well, Hamersley Range				2	04/05/1995
Rhynchosia bungarensis	4	Climber.	Major drainage. Brown sandy-loam over ironstone.		1 individual.		52 km S of Pannawonica				1	22/05/2015
Rhynchosia bungarensis	4	Climber.	Minor drainage. Brown sandy clay loam over ironstone.		5 individuals.		38 km NW of Pannawonica				1	04/05/2015

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Rhynchosia bungarensis	4	Perennial shrubby herb growing up to 0.4 m tall. With sticky foliage and yellow flowers.	Slope of channel iron adjacent to river.	Tall open shrubland of Acacia pyrifolia.	common.		N bank of the Robe River near Observation Point, West Pilbara				1	08/06/2013
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Shrub.	Breakaway. Red sandy clay loam over ironstone.		8 individuals.		50 km S of Pannawonica				1	30/08/2015
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Perennial shrub, 0.5 m high by 0.3 m wide.	Gorge/gully. Brown sandy clay loam.	Eucalyptus leucophloia, Triodia wiseana. Associated species: Acacia bivenosa, A. inaequilatera, A. pruinocarpa and Eriachne mucronata.	20		Pannawonica				1	15/08/2015
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Low shrub, <0.25 m high.	Ledges and scree slopes along ironstone cliff lines.		moderately common along cliff lines.		30.9 km SE of Mount Dempster, 42.6 km E of Red Hill Homestead and 43.5 km SSE of Pannawonica				1	09/06/2014
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Low shrub, <0.25 m high.	Ledges and scree slopes along ironstone cliff lines.				31.5 km SE of Mount Dempster, 43.8 km E of Red Hill Homestead and 43.4 km SSE of Pannawonica				1	28/05/2012
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Low spreading wooly grey shrub growing up to 0.2 m tall, with yellow flowers.	Base of robe pisolite cliffs and top of scree slope.	Open woodland of Acacia pruinocarpa.	infrequent.		Q24, large western tributary of Bungaroo Creek, Western Hamersleys and c. 50 km S of Pannawonica				1	20/10/2014
Sida sp. Barlee Range (S. van Leeuwen 1642)	3	Spreading low shrub growing up to 0.3 m tall, with yellow flowers.	Below vertical face and top of scree slope.	Sparse hummock grass of Triodoa wiseana with a mixed sparse shrub overstorey.	infrequent.		(Q5) W of Bungaroo Creek, Western Hamersleys and c. 50 km S of Pannawonica				1	16/10/2014
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	3	Herb. Branches green, spiny (ave. spine length 5 mm), hairy. Leaves petiolate, spiny, acutely elliptic-lanceolate, viscid, margins viscid. Flowers purple, petal fused. Petals hairy underneath and along sepals and stamens yellow. Fruit orbicular, 2 cm dia	Growing in rocky area on side of road on Mesa J.				Mesa J, Fortescue Botanical District				2	22/07/1993
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	3	Many bisexual flowers on inflorescence. Glandular leaves, short haired form, previously found on Hamersley Range.	Colluvial footslopes below pisolite outcrop. Moderately inclined slope, aspect 215 degrees. Many coarse fragments to maximum size of 200 mm. Slight bedrock outcrop. Red brown sandy loam, average depth 10 cm.	Scattered Mallees of Corymbia sp. over High Open Shrubland of Acacia bivenosa & Grevillea wickhamii over Hummock Grassland of Triodia spp. over Scattered Herbs.			Site: OYW14, W slopes of mesa, E side of track, 5.9 km SE of Kens Bore, Red Hill Station, 17.3 km ENE of Red Hill, 49.8 km SSW of Pannawonica, Red Hill Station, Pilbara IBRA				1	17/08/2005
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	3	Prostrate shrub with blue flowers and yellow stamens with sticky foliage. Growing up to 0.15 m tall.	Top of shale hill.	Disturbed hummock grassland of Triodia wiseana.	infrequent, 3 plants seen.		Track into Trixie deposit, 30.5 km from Cardo camp on a bearing of 10 degrees, Red Hill Station, West Pilbara				1	18/03/2018
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	3	Resinous low shrub. Growing up to 0.2 m tall.	Stony upper footslope of a shale hill. Area burnt perhaps 2 years previously.	Eucalyptus leucophloia with mixed shrubs and hummock grass.	1 plant.		Proposed haul road, 24.1 km from Cardo camp on a bearing of 110 degrees, Mount Stuart Station, West Pilbara				1	19/03/2018

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Stackhousia clementii	3	40 cm tall.	Coastal plain. 2.5YR 3/4 dark reddish brown sandy clay loam.	Acacia bivenosa open shrubland over Stackhousia clementii scattered herbs over Cenchrus ciliaris very open tussock grassland with Triodia epactia open hummock grassland. Associated Species: Acacia ligulata, Eragrostis pergracilis, Lawrencia viridigrisea,			5.4 km S of Onslow, 35.4 km NNE of Minderoo Homestead and 79.6 km W of Yarraloola Homestead				1	30/08/2011
Stylidium weeliwolli	3		Flat plain.	Corymbia hamersleyana low woodland / Acacia ancistrocarpa, Stylidium spathulatum, Acacia tumida, Grevillea wickhamii scattered shrubs / Triodia epactia, Triodia wiseana open hummock grassland.			21.2 km sw of Pannawonica town site				1	10/08/2006
Terminalia supranitifolia	3	Perennial shrub 2.4 m tall, spreading to 4 m across, branches low (drooping slightly); leaves shiny, mid-green above, dull light green below; bark on the main stems grey, rough, fissured; bark on branches light grey, dull; twigs light brown and greyish.	In a flow line in the mouth of a gully in the southern wall of a moderate sized valley. Soil: pebbly/shingly coarse sand amongst boulders, some fine material.	Eucalyptus leucophloia, Acacia pruinocarpa low open woodland over Abutilon lepidum high open shrubland over Tephrosia densa (MET 12,399), Indigofera aff. monophylla shrubland over Triodia wiseana, Eriachne tenuiculmis grassland. Associated species: Cymbo	eight individuals counted, possibly more further up gully.		Hamersley Ranges. Gully on southern side of valley of Bungaroo Creek, 4.6 km almost due S of Yathala (Old Yalleen) Well				4	04/05/1995
Terminalia supranitifolia	3	Small tree.	Ironstone cliff lines, steep scree slopes, narrow ravines.		moderately common on suitable habitat in the area.		5.7 km ESE of Mount Dempster, 28.6 km ENE of Red Hill Homestead and 22.9 km S of Pannawonica				1	13/05/2014
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	3	Grass to 2 m tall.	Cracking clay.	Grassland.	abundant.		C. 135 km WNW of Tom Price, W of Mount Delphine				1	30/05/2012
Triodia mallota	1	Hummocks 30 - 60 x 30 - 150 cm, inflorescences 50 - 100 m tall, spiciform-racemose.	Lower slopes of shale hill and slopes below a pisolitic mesa.	Dominant species, sparse Eucalyptus and acacia nearby.	thousands of plants but restricted to an area c. 300 x 300 m.	The population seems coincident with the shale, c. 300 m x 300 m, and the population does not continue on to the adjacent pisolitic gravel mesa, but is replaced there by T. wiseana, T. epactia, and a small amount of T. sp. Robe River.	15 km S of Pannawonica on the Bungaroo Creek road (to Mesa J), West Pilbara				1	10/02/2015
Triodia mallota	1	Non-resinous spinifex. Plants dropping their last florets.	Lower slopes of below a pisolitic mesa. Jeerinah Formation, a mix of pelite, metasandstones and chert.				15 km S of Pannawonica on the Bungaroo Creek road to Mesa J, West Pilbara region	[illegible]	[illegible]	[illegible]	1	19/03/2017

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Hummock grass, 1 m high.	Stream bed. Red-brown sandy-clay over ironstone. Burnt 5-10 years ago.	Corymbia hamersleyana low open woodland over Acacia tumida and Grevillea wickhamii tall shrubland over Triodia sp. Robe River (M.E. Trudgen et al. MET 12367) open hummock grassland.			47 km NW of Pannawonica				1	30/04/2015
Triodia pisoliticola	3	Hummock grass.	Breakaway. Red sandy clay loam over ironstone.		50 individuals.		85 km S of Pannawonica				1	29/05/2015
Triodia pisoliticola	3	Perennial hummock grass; leaves blue-green above and mid-green below.	On a W facing cliff face in a pocket of soil. Soil: Pebbly red-brown loam, amongst outcrop.	Scattered Acacia, Cymbopogon ambiguus and Eriachne mucronata. Associated species: Amaranthus sp, Paspalidium clementii, *Cleome viscosa.			Hamersley Ranges, at the S end of a gap (on the W facing side) in a ridgeline N of Jimmawurrada Creek				0	02/05/1995
Triodia pisoliticola	3	Dense hummock grass 50 centimetres tall, spreading to 1.2 metres across with fairly lax leaves.	On a rise on the edge of a valley below an escarpment. Soil: Very pebbly red brown loam amongst an outcrop of conglomerate.	Low open woodland of Acacia pruinocarpa and Eucalyptus leucophloia over Triodia pungens hummock grassland with small amounts of Plectrachne sp. (MET 11,557).		East end of 21600 E mining grid.	Valley of Bungaroo Creek in the Hamersley Range, ca 3 km SE of Old Yalleen (Yathala) Well.				0	06/04/1993
Triodia pisoliticola	3	Perennial hummock grass.	On top (plateau) of a mesa of Robe Pisolite.	Eucalyptus leucophloia subsp. leucophloia over Acacia pruinocarpa and Acacia inaquilatera over Triodia sp. Robe River and Triodia wiseana.			Cochrane Mesa, Red Hill Station, E of Nanutarra				4	12/09/2007
Triodia pisoliticola	3	Annual hummock grass 0.4 m high.	Gully on mesa. Hard setting, red-brown, sub-angular to rounded, cobbly to stony clay-loam, with >50% exposed bedrock and 4% leaf litter on RObe Pisolite. Fire > 5 years. Bare ground 70%, <1% dead wood on ground, total PErcentage Foliage Cover 9%.	Acacia tumida var pilbarensis closed heath over Triodia wiseana and T. sp. Robe River very open hummock grassland. Condition good, grazing by hoofed animals and cleared track. Associated species: Acacia ancistrocarpa, A. atkinsiana, A. bivenosa, Dodonaea			Site CE009: CE9-6, On E side of Cardo East mesa, West Pilbara Iron Ore project, Red Hill Station, Western Pilbara Bioregion				1	28/08/2008
Triodia pisoliticola	3	Perennial hummock grass 0.3-0.6 m high.	Mid-slope of rounded mesa top, with moderately rapid runoff. Sparse, firm, red, sub-rounded to sub-angular, pebbly to stony clay silt with 20-50% exposed bedrock and 2% leaf litter on Robe Pisolite. Bare ground 80%, 2% dead wood on ground, total Percenta	Eucalyptus leucophloia subsp. leucophloia and Corymbia ferriticolia low open woodland over Acacia citrinoviridis high open shrubland over A. pruinocarpa open shrubland over Triodia sp. Robe River very open hummock grassland. Condition: excellent, no effe			Site UC005: UC5-10, Upper Cane mesa, West Pilbara Iron Ore project, Red Hill Station, Western Pilbara Bioregion				1	05/07/2008

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Perennial hummock gerass 0.3-0.6 m high.	Flat top of mesa. Firm, red-brown, sub-angular, pebbly silty loam, with <2% bedrock exposed and <1% leaf litter on Robe Pisolite. Fire > 3 years. 82% bare ground, 1% dead wood on ground, total Percentage Foliage Cover 16%.	Acacia pruinocarpa and Eremophila fraseri subsp. fraseri open shrubland over Triodia wiseana and T. sp. Robe River open Hummock grassland. Condition: good, limited clearing. Associated species: Acacia ancistrocarpa, A. aneura var. aneura, A. bivenosa, A.			Site UC008:UC8-20, Upper Cane mesa, West Pilbara Iron Ore project, Red Hill Station, Western Pilbara Bioregion				1	05/07/2008
Triodia pisoliticola	3	Perennial hummock grass 0.2-0.6 m high.	Flat top of mesa. Firm, red, sub-angular, pebbly to cobbly silt, with <2% exposed bedrock and <1% leaf litter on Robe Pisolite. Bare ground 70%, 1% dead wood on ground and total Percentage Foliage Cover 35%.	Acacia inaequilatera high open shrubland over Triodia wiseana and T. sp. Robe River open hummock grassland. Condition: good, drill pad and track cleared. Acacia ancistrocarpa, A. bivenosa, A. citronoviridis, A. maitlandii, A. pruinosa, Corchorus crozopho			Site UC007:UC&-24, SW edge of Upper Cane mesa, West Pilbara Iron Ore project, Red Hill Station, Western Pilbara Bioregion				1	05/07/2008
Triodia pisoliticola	3	Perennial hummock grass 0.4 m high.	Flat top of mesa. Loose-red-brown, sub-angular to sub-rounded tabular, gravelly to rocky silty-loam, with 2-20% exposed bedrock and <1% leaf litter on Robe Pisolite. Fire <10 years. Bare ground 49%, 2% dead wood on ground, total Percentage Foliage Cover	Acacia pruinocarpa high open shrubland over Triodia sp. Robe River hummock grassland. Condition: no significant disturbance. Associated species: Acacia ancistrocarpa, A. atkinsiana, A. bivenosa, Eriachne mucronata (typical form), Eremophila fraseri subsp			Site CN007, CN7-2, top of Cardo North mesa, West Pilbara Iron Ore Project, Red Hill Station, Western Pilbara Bioregion				1	01/09/2008
Triodia pisoliticola	3	Perennial hummock grass 0.5 m high.	Plateau. Firm red-brown, sub-round to angular, pebbly to cobbly silty loam, with 2-10% exposed bed and <1% leaf litter on Brockman Iron Formation. Triodia sp. Rover River regional vegetation distribution survey, bare ground 55%, <1% dead wood on ground,	Acacia inaequilatera open shrubland over Triodia wiseana hummock grassland. Condition: good, no significant disturbance. Associated species: Acacia citrinoviridis, A. synchronicia, Corymbua hamersleyana, Cymbopogon ambiguus, Dodonaea coriacea, Eriachne m			Site HAM001:HAM1-12, Hamersley Ranges, West Pilbara Iron Ore Project, Western Pilbara Bioregion				1	05/08/2008
Triodia pisoliticola	3	Perennial hummock grass 0.4-0.6 m high.	Crest of gently rounded mesa top. Firm, cracking, orange-brown, angular to sub- rounded, pebbly to stony stily clay, with 2-10% exposed bedrock and 1% leaf litter on Robe Pisolite. Fire > 5 years. Bare ground 40%, <1% dead wood on ground, total Percentag	Acacia bivenosa scattered shrubs over Triodia wiseana and T. sp. Robe River hummock grassland. Condition: no significant disturbance. Associated species: Acacia ancistrocarpa, A. aneura (narrow, fine veined site 1259), Gossypium australe (Burrup Peninsul			Site CE004: CE4-1, top of Cardo East mesa, West Pilbara Iron Ore Project, Red Hill Station, Western Pilbara Bioregion				1	27/08/2008

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Perennial hummock grass 0.4 m high.	Flat top of mesa. Firm, red-brown, sub0angular, pebbly to cobbly fine silty-loam, 2-10% exposed bedrock and <1% leaf litter on Robe Pisolite. Condition good, limited clearing. Fire >5 years. Very slight slope north to south. Bare ground 65%, <1% dead wo	Acacia bivenosa shrubland over Triodia wiseana hummock grassland. Associated species: Acacia ancistrocarpa, A. inaequilatera, Aristida holathera var. latifolia, Cleome viscosa, Corchorus aff. parviflorus, C. sidoides subsp. sidoides, Gossypium australe (			Site CR001: CR1-19, W end of Cochrane mesa, West Pilbara Iron Ore Project, Yarraloola Station, Western Pilbara Bioregion				1	18/02/2008
Triodia pisoliticola	3	Perennial hummock grass 0.4 m high.	Low rolling hill. Firm, ferrous, red-brown, angular to angular tabular, gravelly to pebbly silty loam with <2% exposed bedrock and <1% leaf litter on Mount McGrath Formation. Fire 5 years. Bare ground 88%, 1% dead wood on ground, total Percentage Foliage	Eucalyptus leucophloia subsp. leucophloia scattered low trees over Acacia atkinsiana and A. bivenosa open shrubland over Triodia sp. Robe River and T. wiseana very open hummock grassland. Condition: excellent. Associated species: Acacia synchronicia, Ind			Site TRW001: TRW1-3, W of Trinity mesa, West Pilbara Iron Ore project, Mount Stuart Station, Western Pilbara Bioregion				1	08/08/2008
Triodia pisoliticola	3	Perennial hummock grass.	On top (plateau of a mesa of Robe Pisolite.	Eucalyptus leucophloia subsp. leucophloia over Acacia pruinocarpa and Acacia inaequilatera over Triodia wiseana.			Upper Cane mesa, Red Hill Station E of Nanutarra Roadhouse				1	14/09/2007
Triodia pisoliticola	3	0.8 m high.	Flat top of Jewel mesa. Very fine (brown-red) a thin layer under lag gravel and above rock, some sand in it. Channel iron deposit (CID).	Acacia pruinocarpa and Senna glutinosa open shrubland over Ptilotus sp., and Ptilotus calostachyus low scattered shrubs over Triodia wiseana and Triodia sp. Robe River hummock grassland.			Site JW001, Top of Jewel mesa in the West Pilbara Iron, Red Hill North project area				1	17/05/2007
Triodia pisoliticola	3	High, non resinous Triodia.	Flat top of mesa. Channel Iron Deposit (CID).	Vegetation condition excellent.			Top of Cochrane Mesa in the West Pilbara Iron, Red Hill North project area, Site WP-091				3	23/03/2007
Triodia pisoliticola	3	0.4 m high.	SW facing free face on Cochrane mesa. Soil mostly extremely shallow except under Eucalyptus where it is part of a mulch and a dark black-brown. Channel iron deposit. Fire < 5 years.	Eucalyptus leucophloia low open woodland over Acacia pruinocarpa high open shrubland over Acacia bivenosa open shrubland over Triodia wiseana, Triodia sp. Robe River and Triodis sp. open hummock grassland. Group of Acacia pruinocarpa 2-3.5 m from site. N			Free face of Cochrane mesa in the West Pilbara Iron, Red Hill North project area, Site CRr001				1	22/05/2007
Triodia pisoliticola	3	0.4 m high.	Mesa top. Soil red-brown, fine silty clay. Channel Iron Deposit (CID). Long unburnt.	Acacia synchronicia scattered tall shrubs over Acacia bivenosa scattered shrubs, over Triodia wiseana and Triodia sp. Robe River open hummock grassland.			S end of Kens Bore North mesa, in the West Pilbara Iron, Kens Bore project area Site KB001,				1	13/06/2007

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Perennial hummock grass 0.3-0.6 m high.	Valley floor. Soil loose, red, sub-rounded, pebbly to cobbly silty sand with 2-10% exposed bedrock and 5% leaf litter on Robe Pisolite. Bare ground 70%, 2% dead wood on ground. Fire 5-10 years.	Acacia citrinoviridis and Stylobasium spathulatum high shrubland over Triodia sp. Robe River and T. epactia open hummock grassland. Condition excellent. Associated species: Abutilon aff. lepidum (MET 15352), A. dioicum, Acacia aneura (narrow, fine veined			Site UC006:UC6-16, Upper Cane mesa, West Pilbara Iron Ore Project, Red Hill Station, Western Pilbara Bioregion				1	05/08/2008
Triodia pisoliticola	3		S facing very gentle slope.	Grevillea wickhamii scattered tall shrubs, Acacia acradenia, Acacia bivenosa, Acacia inaequilatera open shrubland, Triodia wiseana open hummock grassland. Cassia luersenii x glutinosa, Cassia pruinosa, Cassytha cappilaris, Trichodesma zeylanicum var. zey			22.3 km SW of the Pannawonica Road and North West Coastal Highway intersection, Proj. Code 530, Site Vou4_MST42				2	23/08/2009
Triodia pisoliticola	3		Gentle northwest facing lower slope of low ironstone ridge.	Corymbia hamersleyana scattered low trees over Acacia inaequilatera, Grevillea wickhamii scattered tall shrubs over Acacia bivenosa scattered shrubs over Triodia wiseana hummock grassland. Associated species: Triodia wiseana, Corymbia hamersleyana, Acaci			40.2 km SE of Pannawonica Road - North West Coastal Highway junction; 18.0 km SSW of Pannawonica town site, Pilbara region of WA				1	11/03/2005
Triodia pisoliticola	3		Bedrock ridge and adjacent colluvial footslopes, with boulders. Steep slope, aspect 5 degrees. Many coarse fragments to maximum size of 200 mm. Abundant bedrock outcrop. Red brown sandy loam, average depth 2.4 cm.	Scattered Trees of Eucalyptus leucophloia over High Open Shrubland of Acacia pruinocarpa over Scattered Shrubs of Acacia synchronicia over Hummock Grassland of Triodia sp.			Site: WYE11, 23.3 km NW of abandoned Duck Creek Hms, 32.7 km E of Mt Stuart, 90.4 km ENE of Nanutarra Roadhouse, Mt Stuart Station, Pilbara IBRA				1	09/05/2004
Triodia pisoliticola	3		Bedrock ridge and adjacent colluvial footslopes, with boulders. Steep slope, aspect 5 degrees. Many coarse fragments to maximum size of 200 mm. Abundant bedrock outcrop. Red brown sandy loam, average depth 2.4 cm.	Scattered Trees of Eucalyptus leucophloia over High Open Shrubland of Acacia pruinocarpa over Scattered Shrubs of Acacia synchronicia over Hummock Grassland of Triodia sp.			Site: WYE11, 23.3 km NW of abandoned Duck Creek Hms, 32.7 km E of Mt Stuart, 90.4 km ENE of Nanutarra Roadhouse, Mt Stuart Station, Pilbara IBRA	-22.40831	116.37133	GPS	1	09/05/2004

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3		Bedrock ridge and adjacent colluvial footslopes, with boulders. Steep slope, aspect 5 degrees. Many coarse fragments to maximum size of 200 mm. Abundant bedrock outcrop. Red brown sandy loam, average depth 2.4 cm.	Scattered Trees of Eucalyptus leucophloia over High Open Shrubland of Acacia pruinocarpa over Scattered Shrubs of Acacia synchronicia over Hummock Grassland of Triodia sp.			Site: WYE11, 23.3 km NW of abandoned Duck Creek Hms, 32.7 km E of Mt Stuart, 90.4 km ENE of Nanutarra Roadhouse, Mt Stuart Station, Pilbara IBRA				1	15/08/2005
Triodia pisoliticola	3	Perennial grass 0.3 m high x 0.2 m wide. White flowers.	Hillside. Burnt 2-5 years ago.	Eucalyptus leucophloia subsp. leucophloia low open woodland over Triodia wiseana (Triodia sp. Robe River) hummock grassland.		Lifestage: flowering. Reproductive method: seeds.	30 km SW of Pannawonica				1	16/06/2011
Triodia pisoliticola	3	Perennial grass. Yellow flowers.	Watercourse. Minor flowline. Red brown soil. Collection site: rangeland.	Corymbia hamersleyana scattered low trees over Acacia ptychophylla scattered low shrubs over Triodia wiseana (T. sp. Robe River) hummock grassland.	6-20 plants.		Red Hill Station ca 100 km SE of Pannawonica				1	01/09/2010
Triodia pisoliticola	3	Perennial 0.4 m high.		Rangeland.			Astron APIVOPP-NK-2, 65 km SSW of Pannawonica				2	14/08/2010
Triodia pisoliticola	3		Colluvial footslopes below bedrock outcrop. Moderately inclined slope, aspect 225 degrees. Coarse fragments common to maximum size of 200 mm. Very slight bedrock outcrop. Brown loam, average depth 15.6 cm.	Scattered Low Trees of Eucalyptus leucophloia with Scattered Mallees of Corymbia hamersleyana over High Open Shrubland of Acacia maitlandii over Open Shrubland of Acacia maitlandii, & Acacia inaequilatera over Low Scattered Shrubs of Indigofera monophyll			Site: OYE13, Bungaroo Creek Valley, ca 13.5 km upstream of jnc of Bungaroo Creek access track and Millstream â€" Yarraloola Road, northern side of valley, 8.1 km ENE of Mt Rica, 37.6 km SSE of Pannawonica, Pilbara IBRA				1	24/06/2006
Triodia pisoliticola	3		Colluvial footslopes below bedrock outcrop. Moderately inclined slope, aspect 225 degrees. Coarse fragments common to maximum size of 200 mm. Very slight bedrock outcrop. Brown loam, average depth 15.6 cm.	Scattered Low Trees of Eucalyptus leucophloia with Scattered Mallees of Corymbia hamersleyana over High Open Shrubland of Acacia maitlandii over Open Shrubland of Acacia maitlandii, & Acacia inaequilatera over Low Scattered Shrubs of Indigofera monophyll			Site: OYE13, Bungaroo Creek Valley, ca 13.5 km upstream of jnc of Bungaroo Creek access track and Millstream â€" Yarraloola Road, northern side of valley, 8.1 km ENE of Mt Rica, 37.6 km SSE of Pannawonica, Pilbara IBRA				1	24/06/2006
Triodia pisoliticola	3						c. 4 km S of Pannawonica and 112 km SSW of Karratha				1	31/07/2012
Triodia pisoliticola	3	40 cm high.	Crest of hill.	Eucalyptus leucophloia scattered trees over Acacia inaequilatera and Acacia pruinocarpa shrubland over Triodia wiseana hummock grassland.			3 km NE of Rio Tinto Bungaroo Camp and 37 km SS-W of Pannawonica townsite				1	25/08/2009
Triodia pisoliticola	3	Perennial hummock grass; leaves light green, lax.	On a west facing breakaway. Soil: Red-brown loam.	Scattered Acacia, Cymbopogon ambiguus and Eriachne mucronata.			Hamersley Ranges, At the S end of a gap (on the W facing side) in a ridgeline N of Jimmawurrada Creek	21.5647222	116.5616667	MAN	0	02/05/1995

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Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Non-resinous.	Rocky creek line in valley.				16.5 km S of Pannawonica, West Pilbara region				1	19/03/2017
Triodia pisoliticola	3	Perennial hummock grass; leaves a fairly bright green, long, thin. Smaller hummocks almost tussock like, others lax and very spreading.	On pisolite outcrop on the edge of a mesa (called a mesa locally but has cliffs along the river only) Soil: Pebbly/rocky red-brown loam amongst outcropping Robe pisolite.	Acacia tumida high shrubland over Triodia wiseana, Plectrachne sp. hummock grassland.		Note: The population of the Plectrachne extends down a creekline to the flat area at the base of the mesa.	15.2 km south-west of Pannawonica, on Mesa H on the south side of the Robe River.				0	12/08/1991
Triodia pisoliticola	3		Colluvial footslopes below pisolite outcrop. Moderately inclined slope, aspect 215 degrees. Many coarse fragments to maximum size of 200 mm. Slight bedrock outcrop. Red brown sandy loam, average depth 10 cm.	Scattered Mallees of Corymbia sp. over High Open Shrubland of Acacia bivenosa & Grevillea wickhamii over Hummock Grassland of Triodia spp. over Scattered Herbs.			Site: OYW14, W slopes of mesa, E side of track, 5.9 km SE of Kens Bore, Red Hill Station, 17.3 km ENE of Red Hill, 49.8 km SSW of Pannawonica, Red Hill Station, Pilbara IBRA				1	13/06/2006
Triodia pisoliticola	3						Located c. 4 km S of Pannawonica and 112 km SSW of Karratha				1	01/08/2012
Triodia pisoliticola	3					Photo: 4374, 4390, 4391, 4393-4395, 4397, 4404, 4405	13.3 km SW of Pannawonica (Pannawonica mine)				1	23/03/2007
Triodia pisoliticola	3		Colluvial footslopes below bedrock outcrop. Moderately inclined slope, aspect 225 degrees. Coarse fragments common to maximum size of 200 mm. Very slight bedrock outcrop. Brown loam, average depth 15.6 cm.	Scattered Low Trees of Eucalyptus leucophloia with Scattered Mallees of Corymbia hamersleyana over High Open Shrubland of Acacia maitlandii over Open Shrubland of Acacia maitlandii, and Acacia inaequilatera over Low Scattered Shrubs of Indigofera monophy			Site: OYE13, Bungaroo Creek Valley, ca 13.5 km upstream of jnc of Bungaroo Creek access track and Millstream â€“ Yarraloola Road, northern side of valley, 8.1 km ENE of Mt Rica, 37.6 km SSE of Pannawonica, Pilbara IBRA				1	31/08/2006
Triodia pisoliticola	3		Colluvial footslopes below bedrock outcrop. Very steep slope, aspect 85 degrees. Many coarse fragments to maximum size of 60 mm. Moderate bedrock outcrop. Brown sandy loam, average depth 2.8 cm.	Scattered Low Trees of Eucalyptus leucophloia with Scattered Mallees of Corymbia hamersleyana over Scattered Tall Shrubs of Acacia inaequilatera and Hakea lorea over Scattered Shrubs of Acacia bivenosa over Low Scattered Shrubs of Acacia bivenosa over Hu			Site: OYE11, S side of track, 110 m off track, 27.6 km W of Robe River crossing on old Millstream â€“ Yarraloola Road, 8 km E of jnc of Bungaroo Creek access track and Millstream â€“ Yarraloola Road, 14.1 km NNE of Mt Rica, 28.9 km SSE of Pannawonica, Ya				1	24/06/2006
Triodia pisoliticola	3	Clumps 40 - 60 x 40 - 80 cm, inflorescence 80 cm tall (old). Leaves lax, long, pale green.	Gravelly slope of pisolithic iron mesa.		only 3 plants found.		15 km S of Pannawonica on the Bungaroo Creek Road (to Mesa J), West Pilbara				1	10/02/2015
Triodia pisoliticola	3	Hummock grass, fairly bright green.	On a north-east facing escarpment. Soil: red-brown pebbly loam	Eucalyptus leucophoia low open woodland over Plectrachne sp., Triodia wiseana open hummock grassland.			south of the Robe River, 12.4 km south-south-west of Pannawonica and 3.3 km east of Jimmawurrada Creek.				0	12/08/1991

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triodia pisoliticola	3	Hummock grass, fairly bright green.	On the top of an east facing cliff/steep slope. Soil: Pebbly red-brown loam.	Scattered Hakea chordophylla over Triodia wiseana hummock grassland. Associated species: Terminalia canescens.			Top of Yeera Bluff, next to the Robe River, 18.8 km SW of Pannawonica				3	12/08/1991
Triodia pisoliticola	3	50 cm high.	N facing slope, small hills, most with small cliffs near a flat top (not true mesa). Red brown sandy loam Ironstone pebbles, stones and outcropping rock. Fire 4-5 years.	Eucalyptus lecophloia scattered low trees over Triodia wiseana hummock grassland. Condition excellent. Occasional burnt bits on Acacia inaequilatera. Triodia not fully mature height. Acacia ancistrocarpa just outside quadrat.			Site GBF30, 20 km S of Pannawonica				1	27/07/2009
Triodia pisoliticola	3	Perennial grass, 25 cm high. Reproductive method: seeds.	Rangeland. Hillside and hill top. Brown/red ironstone gravel.	Eucalyptus leucophloia Scattered low trees over Acacia ptychophylla low open shrubland over Triodia wiseana (T. sp. Robe River) open hummock grassland.	6-20 plants.		Ca 50 km SW of Pannawonica, Pilbara Region				1	25/03/2010
Triodia pisoliticola	3	0.3 m high.	Flat area at the perimeter of the mesa. Soil dark red-brown silty loam, deeper soil. Channel Iron Deposit (CID). Long unburnt.	Acacia bivenosa, Acacia tumida, Acacia inaequilatera and Acacia citrinoviridis open scrub over Triodia wiseana and Triodia sp. open hummock grassland. Condition excellent.			Site KB011, Kens Bore South mesa in the West Pilbara Iron, Kens Bore Project area				1	15/06/2007
Triodia pisoliticola	3	Hummock grass 80 cm tall and one metre across, very dense (i.e. leaves very numerous); leaves blue-green above when uncurled and bright green below.	Amongst outcrop in an open, north facing, gully up the north side of a mesa (above a large intermittently flowing river). Soil: Red-brown pebbly loam amongst outcropping pisolite.	Eucalyptus leucophloia low open (very) woodland over Plectrachne sp. (MET 10114), Triodia wiseana hummock grassland. Associated species: Acacia spondylophylla, Acacia orthocarpa (MET 10116), Cymbopogon ambiguus.		The Triodia was much less abundant than the Plectrachne at this locality. However, the Plectrachne was restricted to the edges of the Mesa. This Plectrachne is apparently undescribed.	Mesa (Mesa J) on the south side of the Robe River 12.8 km south-west of Pannawonica				0	11/07/1991
Triodia pisoliticola	3	45 cm high.	Crest of medium rocky hill. Crest portion in quadrat gently undulating. Fire >5 years. Skeletal red brown loamy sand Ironstone and calcrete, stone, pebbles and gravel.	Eucalyptus leucophloia scattered low trees over Acacia bivenosa scattered shrubs over Triodia wiseana open hummock grassland.			20 km S of Pannawonica, Site GBF28				1	27/07/2009
Triodia pisoliticola	3	Hummock grass with weeping Chrysopogon like foliage, growing up to 0.4 m tall.	Scree of channel iron deposit.	Open woodland of Acacia citrinoviridis with an understorey of Cymbopogon ambiguus.	infrequent.		Near Python Pool, creek on the W side of the West Hamersley Range, E of Red Hill Station, West Pilbara				1	30/04/2015
Triumfetta echinata	3	Shrub 0.5 m high.	Dune. Red sand. Collection site: rangeland. Burnt ca <5 years ago.	Shrubland of Grevillea stenobotrya and Scaevola pulchella over open grassland of Triodia schinzii, Triodia epactia and Triumfetta echinata.			Ca 16 km S-SW of Onslow				1	01/11/2009
Triumfetta echinata	3						12 miles S of Onslow				3	28/05/1962

WA Herbarium Database Search Results

Taxon	Cons_Code	Plant_Desc	Site	Vegetation	Frequency	Notes	Locality	Latitude	Longitude	Geo_Method	Precision	Date
Triumfetta echinata	3	0.2 m tall annual.	Growing on a sand dune.	With soft spinifex.			20 km E of Onslow				3	25/10/1980
Triumfetta echinata	3		Flat. Red-brown sand-loam.	Open Shrubland of Grevillea stenobotrya, Acacia coriacea subsp. coriacea and Tephrosia rosea var. clementii Low Open Shrubland Pityrodia toxocarpa over Open Hummock Grassland Triodia epactia and Triodia schinzii.			ca 50 km SE of Onslow, Alluvial Plains, Cane River Conservation Reserve				1	14/11/2008
Triumfetta echinata	3		Ridge. Red-brown sand dune.	Low open Woodland, Corymbia hamersleyana and Eucalyptus xerothermica over Open Shrubland of Acacia trachycarpa, Acacia ancistrocarpa, Acacia bivenosa over Very Open Hummock grassland of Triodia lanigera.			ca 25 km S of Onslow, Dune Ridge, Cane River Conservation Reserve				1	14/11/2008
Triumfetta echinata	3	Prostrate perennial shrub, spreading to ca 1 m diameter.	Slope of sand dune with red sandy soil.	Soft hummock grassland of Triodia pungens.		Abundance: common.	Ca 35 km NW from Peedamulla Homestead and 0.5 km back from sea, Peedamulla Station	21.9972222	115.2958889	MAP	0	05/11/1996

NatureMap Flora Species Report

Created By Colleen McDonald on 02/06/2020

Kingdom	Plantae
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Line'
Vertices	21° 47' 16" S,115° 02' 51" E 21° 47' 42" S,115° 21' 28" E 21° 54' 02" S,115° 39' 16" E
Group By	Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	492	1347
Priority 1	3	7
Priority 3	4	10
Priority 4	1	4
TOTAL	**500**	**1368**

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
Priority 1					
1.	14110	*Abutilon sp. Onslow (F. Smith s.n. 10/9/61)*		P1	
2.	43021	*Abutilon sp. Pritzelianum (S. van Leeuwen 5095)*		P1	
3.	3994	*Isotropis forrestii*		P1	
Priority 3					
4.	31017	*Eleocharis papillosa*		P3	
5.	17177	*Eremophila forrestii subsp. viridis*		P3	
6.	4729	*Stackhousia clementii*		P3	
7.	17524	*Triumfetta echinata*		P3	
Priority 4					
8.	7530	*Goodenia nuda*		P4	
Non-conservation taxon					
9.	9080	*Abutilon cunninghamii*			
10.	4895	*Abutilon lepidum*			
11.	4901	*Abutilon otocarpum (Desert Chinese Lantern)*			
12.	4902	*Abutilon oxycarpum (Flannel Weed)*			
13.		*Abutilon sp.*			
14.	42920	*Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)*			
15.	14113	*Abutilon sp. Pilbara (W.R. Barker 2025)*			
16.	3214	*Acacia ancistrocarpa (Fitzroy Wattle)*			
17.	3217	*Acacia aneura (Mulga, Wanari)*			
18.	3228	*Acacia atkinsiana*			
19.	3241	*Acacia bivenosa*			
20.	3260	*Acacia citrinoviridis*			
21.	17013	*Acacia colei var. colei*			
22.	13500	*Acacia coriacea subsp. coriacea*			
23.	14088	*Acacia cyperophylla var. cyperophylla*			
24.	3356	*Acacia gregorii (Gregory's Wattle)*			
25.	3377	*Acacia inaequilatera (Baderi)*			
26.	13078	*Acacia sclerosperma subsp. sclerosperma*			
27.	29135	*Acacia sericophylla*			
28.	20819	*Acacia sp. Ripon Hills (B.R. Maslin 8460)*			
29.	3551	*Acacia sphaerostachya*			
30.	19456	*Acacia stellaticeps*			
31.	13070	*Acacia synchronicia*			
32.	3577	*Acacia tetragonophylla (Kurara, Wakalpuka)*			
33.	3579	*Acacia trachycarpa (Minni Ritchi, Balgali)*			
34.	20319	*Acacia tumida var. pilbarensis*			
35.	3598	*Acacia wanyu*			
36.	3603	*Acacia wiseana*			
37.	3606	*Acacia xiphophylla*			
38.	2645	*Achyranthes aspera (Chaff Flower)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
39.	17422	*Adriana tomentosa var. tomentosa*			
40.	39780	*Aenictophyton reconditum subsp. reconditum*			
41.	2646	*Aerva javanica (Kapok Bush)*	Y		
42.	3680	*Aeschynomene indica (Budda Pea)*			
43.	2651	*Alternanthera nana (Hairy Joyweed)*			
44.	2652	*Alternanthera nodiflora (Common Joyweed)*			
45.	2653	*Alternanthera pungens (Khaki Weed)*	Y		
46.	4907	*Alyogyne pinoniana (Sand Hibiscus)*			
47.	2660	*Amaranthus cuspidifolius*			
48.	2666	*Amaranthus mitchellii (Boggabri Weed)*			
49.	20018	*Amaranthus undulatus*			
50.	5278	*Ammannia multiflora*			
51.	14307	*Amyema sp. Fortescue (M.E. Trudgen 5358)*			
52.	7822	*Angianthus acrohyalinus (Hook-leaf Angianthus)*			
53.	7832	*Angianthus milnei (Cone-spike Angianthus)*			
54.	7836	*Angianthus tomentosus (Camel-grass)*			
55.	207	*Aristida contorta (Bunched Kerosene Grass)*			
56.	210	*Aristida holathera*			
57.	12063	*Aristida holathera var. holathera*			
58.	212	*Aristida inaequiglumis (Feathertop Threeawn)*			
59.	215	*Aristida latifolia (Feathertop Wiregrass)*			
60.	218	*Aristida obscura (Brush Threeawn)*			
61.	26486	*Asparagopsis taxiformis*			
62.	2451	*Atriplex bunburyana (Silver Saltbush)*			
63.	2453	*Atriplex codonocarpa (Flat-topped Saltbush)*			
64.	2476	*Atriplex semilunaris (Annual Saltbush)*			
65.	233	*Avena barbata (Bearded Oat)*	Y		
66.	6828	*Avicennia marina (White Mangrove)*			
67.	26498	*Avrainvillea obscura*			
68.	5183	*Bergia ammannioides*			
69.	5184	*Bergia pedicellaris*			
70.	5185	*Bergia perennis*			
71.	11726	*Bergia perennis subsp. exigua*			
72.	5186	*Bergia trimera*			
73.	7866	*Blumea tenella*			
74.	2770	*Boerhavia coccinea (Tar Vine, Wituka)*			
75.	2775	*Boerhavia schomburgkiana*			
76.	6603	*Bonamia alatisemina*			
77.	11167	*Bonamia erecta*			
78.	6605	*Bonamia linearis*			
79.	3000	*Brassica tournefortii (Mediterranean Turnip)*	Y		
80.	7047	*Buchnera linearis (Blackrod)*			
81.	750	*Bulbostylis barbata*			
82.	48325	*Calandrinia holtumii*			
83.	2860	*Calandrinia polyandra (Parakeelya)*			
84.	2864	*Calandrinia ptychosperma*			
85.	14090	*Calocephalus beardii*			
86.	7893	*Calocephalus knappii*			
87.	7903	*Calotis hispidula (Bindy Eye)*			
88.	7906	*Calotis plumulifera*			
89.	12073	*Cassytha aurea var. aurea*			
90.	2949	*Cassytha capillaris*			
91.	2950	*Cassytha filiformis (Love Vine, Jirawan)*			
92.	35158	*Caulerpa corynephora*			
93.	258	*Cenchrus ciliaris (Buffel Grass)*	Y		
94.	7919	*Centipeda minima (Spreading Sneezewood, Kanjirralaa, Inteng-inteng, Karengkal, Kata-palkalpa, Munyu-parnti-parnti)*			
95.	19762	*Centipeda minima subsp. macrocephala*			
96.	31	*Cheilanthes austrotenuifolia*			
97.	33	*Cheilanthes contigua*			
98.	266	*Chloris barbata (Purpletop Chloris)*	Y		
99.	269	*Chloris pectinata (Comb Chloris)*			
100.	273	*Chrysopogon fallax (Golden Beard Grass)*			
101.	29101	*Cleome uncifera subsp. uncifera*			
102.	2988	*Cleome viscosa (Tickweed, Tjinduwadhu)*			
103.	2778	*Codonocarpus cotinifolius (Native Poplar, Kundurangu)*			
104.	19880	*Convolvulus angustissimus*			
105.	7939	*Conyza bonariensis (Flaxleaf Fleabane)*	Y		
106.	18408	*Corchorus lasiocarpus subsp. parvus*			
107.	18414	*Corchorus sidoides subsp. vermicularis*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
108.	17661	*Corchorus tectus*			
109.	16783	*Corymbia candida*			
110.	16782	*Corymbia candida subsp. candida*			
111.	17083	*Corymbia deserticola subsp. deserticola*			
112.	17093	*Corymbia hamersleyana*			
113.	17092	*Corymbia opaca*			
114.	17084	*Corymbia zygophylla*			
115.	1284	*Corynotheca flexuosissima*			
116.	1286	*Corynotheca pungens*			
117.	19565	*Cressa australis*			
118.	3774	*Crotalaria cunninghamii (Green Birdflower, Bilbun)*			
119.	20175	*Crotalaria cunninghamii subsp. sturtii*			
120.	20179	*Crotalaria medicaginea var. neglecta*			
121.	41721	*Cucumis variabilis*			
122.		*Cullen ? leucanthum seedling*			Y
123.	17117	*Cullen cinereum*			
124.	17436	*Cullen graveolens*			
125.	17119	*Cullen leucochaites*			
126.	17116	*Cullen martinii*			
127.	17120	*Cullen pogonocarpum*			
128.	20759	*Cylindropuntia fulgida var. mamillata*	Y		
129.	281	*Cymbopogon obtectus (Silkyheads)*			
130.	129	*Cymodocea serrulata*			
131.	46555	*Cynodon prostratus*			
132.	777	*Cyperus bulbosus (Bush Onion, Tjanmata)*			
133.	788	*Cyperus dactylotes*			
134.	798	*Cyperus iria*			
135.	808	*Cyperus pygmaeus*			
136.	809	*Cyperus rigidellus*			
137.	814	*Cyperus squarrosus*			
138.	818	*Cyperus vaginatus (Stiffleaf Sedge)*			
139.	290	*Dactyloctenium radulans (Button Grass)*			
140.	7424	*Dampiera candicans*			
141.	7958	*Decazesia hecatocephala*			
142.	3853	*Desmodium filiforme*			
143.	303	*Dichanthium fecundum (Curly Bluegrass)*			
144.	13741	*Dichanthium sericeum subsp. humilius*			
145.	6754	*Dicrastylis cordifolia*			
146.	310	*Digitaria brownii (Cotton Panic Grass)*			
147.	311	*Digitaria ciliaris (Summer Grass)*	Y		
148.	48378	*Diplachne fusca subsp. fusca*			
149.	4745	*Diplopeltis eriocarpa (Hairy Pepperflower)*			
150.	2499	*Dissocarpus paradoxus (Curious Saltbush)*			
151.	4759	*Dodonaea coriacea*			
152.	2502	*Dysphania kalpari (Rat's Tail, Kalpari)*			
153.	33479	*Dysphania melanocarpa (Black Crumbweed)*			
154.	2504	*Dysphania plantaginella*			
155.	2506	*Dysphania rhadinostachya*			
156.	11890	*Dysphania rhadinostachya subsp. rhadinostachya*			
157.	340	*Echinopogon ovatus (Hedgehog Grass)*			
158.	14301	*Ehretia saligna var. saligna*			
159.	2511	*Enchylaena tomentosa (Barrier Saltbush)*			
160.	12064	*Enchylaena tomentosa var. tomentosa (Barrier Saltbush)*			
161.	357	*Enneapogon caerulescens (Limestone Grass)*			
162.	368	*Enteropogon ramosus (Windmill Grass, Curly Windmill Grass)*			
163.	369	*Eragrostis australasica (Canegrass)*			
164.	375	*Eragrostis cumingii (Cuming's Love Grass)*			
165.	378	*Eragrostis dielsii (Mallee Lovegrass)*			
166.	380	*Eragrostis eriopoda (Woollybutt Grass, Wangurnu)*			
167.	381	*Eragrostis falcata (Sickle Lovegrass)*			
168.	392	*Eragrostis pergracilis*			
169.	393	*Eragrostis setifolia (Neverfail Grass)*			
170.	398	*Eragrostis tenellula (Delicate Lovegrass)*			
171.	7192	*Eremophila cuneifolia (Pinyuru, T'iranju)*			
172.	7208	*Eremophila forrestii (Wilcox Bush)*			
173.	15052	*Eremophila forrestii subsp. forrestii*			
174.	16696	*Eremophila fraseri subsp. fraseri*			
175.	17175	*Eremophila glabra subsp. albicans*			
176.	7234	*Eremophila longifolia (Berrigan, Tulypurpa)*			
177.	16363	*Eremophila maculata subsp. brevifolia (Native Fuchsia)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
178.	400	*Eriachne aristidea*			
179.	403	*Eriachne benthamii (Swamp Wanderrie)*			
180.	408	*Eriachne flaccida (Claypan Grass)*			
181.	409	*Eriachne gardneri*			
182.	413	*Eriachne mucronata (Mountain Wanderrie Grass)*			
183.	414	*Eriachne obtusa (Northern Wandarrie Grass)*			
184.	417	*Eriachne pulchella (Pretty Wanderrie)*			
185.	16485	*Eriachne pulchella subsp. dominii*			
186.	426	*Eriochloa pseudoacrotricha (Perennial Cupgrass)*			
187.	4335	*Erodium cygnorum (Blue Heronsbill)*			
188.	14548	*Eucalyptus victrix*			
189.	15592	*Eucalyptus xerothermica*			
190.	11011	*Eulalia aurea*			
191.		*Euphorbia australis "caterpillar"*			
192.	4617	*Euphorbia australis (Namana)*			
193.	35307	*Euphorbia australis var. australis*			
194.	4620	*Euphorbia boophthona (Gascoyne Spurge)*			
195.	4623	*Euphorbia coghlanii (Namana)*			
196.	4629	*Euphorbia hirta (Asthma Plant)*	Y		
197.	4635	*Euphorbia myrtoides*			
198.	12097	*Euphorbia tannensis subsp. eremophila (Desert Spurge)*			
199.	42876	*Euphorbia vaccaria var. vaccaria*			
200.	6617	*Evolvulus alsinoides (Tropical Speedwell)*			
201.	11416	*Evolvulus alsinoides var. decumbens*			
202.	11200	*Evolvulus alsinoides var. villosicalyx*			
203.	19648	*Ficus brachypoda*			
204.	851	*Fimbristylis dichotoma (Eight Day Grass)*			
205.	35558	*Flaveria trinervia (Speedy Weed)*	Y		
206.	5188	*Frankenia ambita*			
207.	2835	*Glinus lotoides (Hairy Carpet Weed)*			
208.	7988	*Gnephosis arachnoidea (Cobwebby-headed Gnephosis)*			
209.	7989	*Gnephosis brevifolia (Short-leaved Gnephosis)*			
210.	18363	*Gomphrena canescens subsp. canescens*			
211.	2680	*Gomphrena cunninghamii*			
212.	11131	*Gomphrena sordida*			
213.	7501	*Goodenia corynocarpa*			
214.	7509	*Goodenia forrestii*			
215.	7526	*Goodenia microptera*			
216.	12571	*Goodenia pascua*			
217.	10982	*Goodenia stobbsiana*			
218.	7556	*Goodenia tenuiloba*			
219.	4910	*Gossypium australe (Native Cotton)*			
220.	4913	*Gossypium hirsutum (Upland Cotton)*	Y		
221.	2001	*Grevillea eriostachya (Flame Grevillea, Kaliny-kalinypa)*			
222.	19570	*Grevillea pyramidalis subsp. leucadendron*			
223.	2096	*Grevillea stenobotrya*			
224.	19074	*Grevillea wickhamii subsp. macrodonta*			
225.	2784	*Gyrostemon ramulosus (Corkybark)*			
226.	2177	*Hakea lorea (Witinti)*			
227.	19137	*Hakea lorea subsp. lorea*			
228.	16897	*Hakea stenophylla subsp. stenophylla*			
229.	26892	*Halimeda discoidea*			
230.	6174	*Haloragis gossei*			
231.	23465	*Haloragis gossei var. gossei*			
232.	23464	*Haloragis gossei var. inflata*			
233.	17782	*Hannafordia quadrivalvis subsp. recurva*			
234.	17301	*Heliotropium chrysocarpum*			
235.	6705	*Heliotropium crispatum*			
236.	6707	*Heliotropium curassavicum (Smooth Heliotrope)*			
237.	6708	*Heliotropium diversifolium*			
238.	6712	*Heliotropium heteranthum*			
239.	17307	*Heliotropium inexplicitum*			
240.	6713	*Heliotropium ovalifolium*			
241.	17309	*Heliotropium pachyphyllum*			
242.	17031	*Heliotropium transforme*			
243.	4922	*Hibiscus brachychlaenus*			
244.	4923	*Hibiscus brachysiphonius*			
245.	4924	*Hibiscus burtonii*			
246.	4925	*Hibiscus coatesii*			
247.	4933	*Hibiscus leptocladus*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
248.	4942	*Hibiscus sturtii (Sturt's Hibiscus)*			
249.	11651	*Hibiscus sturtii var. campylochlamys*			
250.	43081	*Hibiscus verdcourtii*			
251.	5215	*Hybanthus aurantiacus*			
252.	3971	*Indigofera boviperda*			
253.	17113	*Indigofera boviperda subsp. boviperda*			
254.	3973	*Indigofera colutea (Sticky Indigo)*			
255.	3974	*Indigofera georgei (Bovine Indigo)*			
256.	3980	*Indigofera linifolia*			
257.	3981	*Indigofera linnaei (Birdsville Indigo)*			
258.	3982	*Indigofera monophylla*			
259.	6624	*Ipomoea costata (Rock Morning Glory, Kanti)*			
260.	6633	*Ipomoea muelleri (Poison Morning Glory, Yumbu)*			
261.	11312	*Ipomoea pes-caprae subsp. brasiliensis*			
262.	6637	*Ipomoea polymorpha*			
263.	6638	*Ipomoea quamoclit (Cupid's Flower)*	Y		
264.	458	*Iseilema dolichotrichum*			
265.	459	*Iseilema eremaeum*			
266.	464	*Iseilema membranaceum (Small Flinders Grass)*			
267.	465	*Iseilema vaginiflorum (Red Flinders Grass)*			
268.	4960	*Lawrencia viridigrisea*			
269.	3032	*Lepidium muelleri-ferdinandii*			
270.	3033	*Lepidium oxytrichum*			
271.	3037	*Lepidium phlebopetalum (Veined Peppercress)*			
272.	3038	*Lepidium pholidogynum*			
273.	3039	*Lepidium platypetalum (Slender Peppercress)*			
274.	3613	*Leucaena leucocephala (Leucaena)*	Y		
275.	36880	*Lobelia heterophylla subsp. pilbarensis*			
276.	4061	*Lotus cruentus (Redflower Lotus)*			
277.	2544	*Maireana georgei (Satiny Bluebush)*			
278.	2547	*Maireana lanosa (Woolly Bluebush)*			
279.	2548	*Maireana lobiflora*			
280.	2551	*Maireana melanocoma (Pussy Bluebush)*			
281.	2556	*Maireana planifolia (Low Bluebush)*			
282.	4962	*Malvastrum americanum (Spiked Malvastrum)*	Y		
283.		*Marsilea sp. indet*			Y
284.	75	*Marsilea exarata*			
285.		*Marsilea sp.*			
286.	5915	*Melaleuca glomerata*			
287.	5051	*Melhania oblongifolia*			
288.	7082	*Mimulus gracilis*			
289.	6490	*Muellerolimon salicorniaceum*			
290.	17158	*Myoporum montanum (Native Myrtle)*			
291.	17925	*Myriocephalus oldfieldii*			
292.	8121	*Myriocephalus rudallii*			
293.	2573	*Neobassia astrocarpa*			
294.	6971	*Nicotiana benthamiana (Tjuntiwari)*			
295.	6976	*Nicotiana occidentalis (Native Tobacco)*			
296.	11331	*Nicotiana occidentalis subsp. obliqua*			
297.	11856	*Nicotiana occidentalis subsp. occidentalis*			
298.	11734	*Nicotiana rosulata subsp. rosulata*			
299.	16347	*Oenothera laciniata*	Y		
300.	42024	*Olearia sp. Kennedy Range (G. Byrne 66)*			
301.	503	*Panicum decompositum (Native Millet, Kaltu-kaltu)*			
302.	505	*Panicum laevinode*			
303.	11232	*Paractaenum novae-hollandiae subsp. novae-hollandiae*			
304.	514	*Paractaenum refractum*			
305.	515	*Paraneurachne muelleri (Northern Mulga Grass)*			
306.	3673	*Parkinsonia aculeata (Parkinsonia)*	Y		
307.	10975	*Paspalidium basicladum*			
308.	518	*Paspalidium clementii (Clements Paspalidium)*			
309.	523	*Paspalidium rarum (Rare Paspalidium)*			
310.	14096	*Passiflora foetida var. hispida*	Y		
311.	7092	*Peplidium muelleri*			
312.	18463	*Peplidium sp. C Evol. Fl. Fauna Arid Aust. (N.T. Burbidge & A. Kanis 8158)*			
313.	34997	*Peripleura arida*			
314.	34998	*Peripleura obovata*			
315.	3674	*Petalostylis cassioides*			
316.	1042	*Phoenix dactylifera (Date Palm)*	Y		
317.	17626	*Phyllanthus erwinii*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
318.	4680	*Phyllanthus maderaspatensis*			
319.	5230	*Pimelea ammocharis*			
320.	8167	*Pluchea dentex*			
321.	17817	*Pluchea dunlopii*			
322.	17816	*Pluchea ferdinandi-muelleri*			
323.	43944	*Pluchea longiseta*			
324.	8168	*Pluchea rubelliflora*			
325.	2898	*Polycarpaea corymbosa*			
326.	12075	*Polycarpaea corymbosa var. corymbosa*			
327.	2901	*Polycarpaea holtzei*			
328.	2903	*Polycarpaea longiflora*			
329.	41365	*Polygala glaucifolia*			
330.	4572	*Polygala isingii*			
331.	4574	*Polygala longifolia*			
332.	48961	*Polymeria mollis*			
333.		*Polymeria sp.*			
334.	2878	*Portulaca conspicua*			
335.	2882	*Portulaca intraterranea*			
336.	2884	*Portulaca oleracea (Purslane, Wakati)*			
337.	3620	*Prosopis pallida (Mesquite, Algaroba)*	Y		
338.	8191	*Pterocaulon serrulatum*			
339.	8192	*Pterocaulon sphacelatum (Apple Bush, Fruit Salad Plant)*			
340.	8193	*Pterocaulon sphaeranthoides*			
341.	2690	*Ptilotus aervoides*			
342.	2694	*Ptilotus appendiculatus*			
343.	2695	*Ptilotus arthrolasius*			
344.	2696	*Ptilotus astrolasius*			
345.	2699	*Ptilotus axillaris (Mat Mulla Mulla)*			
346.	2704	*Ptilotus calostachyus (Weeping Mulla Mulla)*			
347.	2711	*Ptilotus clementii (Tassel Top)*			
348.	2721	*Ptilotus exaltatus (Tall Mulla Mulla)*			
349.	2725	*Ptilotus fusiformis*			
350.	2728	*Ptilotus gomphrenoides*			
351.	2731	*Ptilotus helipteroides (Hairy Mulla Mulla)*			
352.	2738	*Ptilotus latifolius (Tangled Mulla Mulla)*			
353.	2745	*Ptilotus murrayi*			
354.	2746	*Ptilotus nobilis (Tall Mulla Mulla)*			
355.	2751	*Ptilotus polystachyus (Prince of Wales Feather)*			
356.	2766	*Ptilotus villosiflorus*			
357.	41063	*Quoya loxocarpa*			
358.	41061	*Quoya paniculata*			
359.	2582	*Rhagodia eremaea (Thorny Saltbush)*			
360.	11240	*Rhagodia preissii subsp. obovata*			
361.	13246	*Rhodanthe humboldtiana*			
362.	13310	*Rhodanthe margarethae*			
363.	13297	*Rhodanthe psammophila*			
364.	13254	*Rhodanthe stricta*			
365.	4191	*Rhynchosia minima (Rhynchosia)*			
366.		*Riccia sp.*			
367.	45154	*Roebuckiella cheilocarpa var. cheilocarpa*			
368.	12088	*Rostellularia adscendens var. clementii*			
369.	30434	*Salsola australis*			
370.	6484	*Samolus repens (Creeping Brookweed)*			
371.	14027	*Samolus sp. Millstream (M.I.H. Brooker 2076)*			
372.	2357	*Santalum lanceolatum (Northern Sandalwood, Yarnguli)*			
373.	12578	*Scaevola acacioides*			
374.	7606	*Scaevola crassifolia (Thick-leaved Fan-flower)*			
375.	7633	*Scaevola parvifolia (Camel Weed)*			
376.	13172	*Scaevola parvifolia subsp. pilbarae*			
377.	12584	*Scaevola pulchella*			
378.	7643	*Scaevola sericophylla*			
379.	7644	*Scaevola spinescens (Currant Bush, Maroon)*			
380.	41660	*Schenkia australis*			
381.	48355	*Schoenoplectiella dissachantha*			
382.	16257	*Schoenoplectus subulatus*			
383.	11650	*Sclerolaena bicornis var. bicornis (Goathead Burr)*			
384.	2604	*Sclerolaena costata*			
385.	2607	*Sclerolaena densiflora*			
386.	2609	*Sclerolaena diacantha (Grey Copperburr)*			
387.	2611	*Sclerolaena eriacantha (Tall Bindii)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
388.	8877	*Sclerolaena gardneri*			
389.	2633	*Sclerolaena uniflora (Two-spined Saltbush)*			
390.	12280	*Senna artemisioides subsp. oligophylla*			
391.	12307	*Senna glutinosa subsp. glutinosa*			
392.	12309	*Senna glutinosa subsp. pruinosa*			
393.	12308	*Senna glutinosa subsp. x luerssenii*			
394.	12312	*Senna notabilis*			
395.	12319	*Senna venusta*			
396.	46821	*Seringia nephrosperma (Free carpel fire-bush)*			
397.	4196	*Sesbania cannabina (Sesbania Pea)*			
398.	4198	*Sesbania formosa (White Dragon Tree)*			
399.	606	*Setaria dielsii (Diels' Pigeon Grass)*			
400.	613	*Setaria verticillata (Whorled Pigeon Grass)*	Y		
401.	31758	*Sida arsiniata*			
402.	4971	*Sida cardiophylla*			
403.	4976	*Sida echinocarpa*			
404.	4977	*Sida fibulifera (Silver Sida)*			
405.	4988	*Sida rohlenae*			
406.	18149	*Sida rohlenae subsp. rohlenae*			
407.	48867	*Sida sp. L (A.M. Ashby 4202)*			
408.	33698	*Sida sp. Pilbara (A.A. Mitchell PRP 1543)*			
409.	6998	*Solanum cleistogamum*			
410.	7002	*Solanum diversiflorum*			
411.	42544	*Solanum elatius*			
412.	7014	*Solanum horridum*			
413.	7018	*Solanum lasiophyllum (Flannel Bush, Mindjulu)*			
414.	7022	*Solanum nigrum (Black Berry Nightshade)*	Y		
415.	7029	*Solanum phlomoides*			
416.	8231	*Sonchus oleraceus (Common Sowthistle)*	Y		
417.	619	*Sorghum plumosum (Plume Canegrass)*			
418.	625	*Spinifex longifolius (Beach Spinifex)*			
419.	629	*Sporobolus australasicus (Fairy Grass)*			
420.	633	*Sporobolus mitchellii (Ratstail Couch)*			
421.		*Sporobolus sp.*			
422.	635	*Sporobolus virginicus (Marine Couch)*			
423.	4734	*Stackhousia muricata*			
424.	19555	*Stackhousia muricata subsp. annual (W.R. Barker 2172)*			
425.	7098	*Stemodia grossa (Marsh Stemodia, Mindjaara)*			
426.	17295	*Stemodia sp. Onslow (A.A. Mitchell 76/148)*			
427.	8235	*Streptoglossa bubakii*			
428.	8237	*Streptoglossa decurrens*			
429.	8238	*Streptoglossa liatroides*			
430.	8239	*Streptoglossa macrocephala*			
431.	8240	*Streptoglossa odora*			
432.	12492	*Striga squamigera*			
433.	3182	*Stylobasium spathulatum (Pebble Bush)*			
434.	2638	*Suaeda arbusculoides*			
435.	43203	*Surreya diandra*			
436.	12356	*Swainsona formosa*			
437.	4228	*Swainsona forrestii*			
438.	4231	*Swainsona kingii*			
439.	4233	*Swainsona leeana*			
440.	4242	*Swainsona pterostylis*			
441.	13339	*Synaptantha tillaeacea var. tillaeacea*			
442.	48206	*Synostemon rhytidospermus*			
443.	31616	*Tecticornia auriculata*			
444.	33236	*Tecticornia halocnemoides (Shrubby Samphire)*			
445.	33238	*Tecticornia halocnemoides subsp. tenuis*			
446.	33319	*Tecticornia indica subsp. bidens*			
447.	33318	*Tecticornia indica subsp. leiostachya (Samphire)*			
448.	33296	*Tecticornia pergranulata*			
449.	33220	*Tecticornia pterygosperma subsp. denticulata*			
450.	4263	*Tephrosia clementii*			
451.	49017	*Tephrosia gardneri*			
452.		*Tephrosia rosea var. ?*			
453.	41825	*Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)*			
454.	19531	*Tephrosia rosea var. clementii*			
455.	15947	*Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)*			
456.	42442	*Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)*			
457.	4286	*Tephrosia uniovulata*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
458.	2644	*Threlkeldia diffusa (Coast Bonefruit)*			
459.	46756	*Thysanotus exfimbriatus*			
460.	19043	*Trachymene oleracea subsp. oleracea*			
461.	19053	*Trachymene pilbarensis*			
462.	44305	*Trianthema pilosum*			
463.	44362	*Trianthema triquetrum*			
464.	44360	*Trianthema turgidifolium*			
465.	4374	*Tribulus astrocarpus*			
466.	4377	*Tribulus hirsutus*			
467.	4378	*Tribulus hystrix*			
468.	4379	*Tribulus macrocarpus*			
469.	4380	*Tribulus occidentalis (Perennial Caltrop)*			
470.	18072	*Tribulus suberosus*			
471.	6727	*Trichodesma zeylanicum (Camel Bush, Kumbalin)*			
472.	13559	*Trichodesma zeylanicum var. grandiflorum*			
473.	11750	*Trichodesma zeylanicum var. zeylanicum*			
474.	8252	*Tridax procumbens (Tridax, Tridax Daisy)*	Y		
475.	48201	*Trigastrotheca molluginea*			
476.	145	*Triglochin hexagona (Six-point Arrowgrass)*			
477.		*Triodia basedowii/lanigera*			
478.	13131	*Triodia epactia*			
479.	48467	*Triodia glabra*			
480.	689	*Triodia lanigera*			
481.	696	*Triodia pungens (Soft Spinifex)*			
482.	17873	*Triodia schinzii*			
483.	704	*Triodia wiseana (Limestone Spinifex)*			
484.	706	*Triraphis mollis (Needle Grass)*			
485.	4875	*Triumfetta chaetocarpa (Urchins)*			
486.	14694	*Triumfetta clementii*			
487.	14942	*Triumfetta maconochieana*			
488.	13481	*Triumfetta ramosa*			
489.	27348	*Udotea argentea*			
490.	11321	*Urochloa holosericea subsp. velutina*			
491.	30716	*Vachellia farnesiana (Mimosa Bush)*	Y		
492.	6081	*Verticordia forrestii (Forrest's Featherflower)*			
493.	31391	*Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)*			
494.	7393	*Wahlenbergia tumidifructa*			
495.	725	*Whiteochloa airoides*			
496.	728	*Whiteochloa cymbiformis*			
497.	732	*Yakirra australiensis*			
498.	11894	*Yakirra australiensis var. australiensis*			
499.	4847	*Ziziphus mauritiana (Zornia)*	Y		
500.	4326	*Zornia albiflora*			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

[1] For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

NatureMap Flora Species Report

Created By Colleen McDonald on 02/06/2020

Kingdom	Plantae
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Line'
Vertices	21° 54' 02" S,115° 39' 16" E 21° 57' 51" S,115° 57' 15" E 22° 04' 02" S,116° 11' 05" E
Group By	Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	352	922
Priority 2	1	2
Priority 3	5	34
Priority 4	3	15
TOTAL	**361**	**973**

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
Priority 2					
1.	7165	*Dicladanthera glabra*		P2	
Priority 3					
2.	20317	*Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)*		P3	
3.	4517	*Owenia acidula (Gruie)*		P3	
4.	16616	*Sida sp. Barlee Range (S. van Leeuwen 1642)*		P3	
5.	48713	*Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)*		P3	
6.	49018	*Triodia pisoliticola (Mesa Spinifex)*		P3	
Priority 4					
7.	7530	*Goodenia nuda*		P4	
8.	2744	*Ptilotus mollis*		P4	
9.	20862	*Rhynchosia bungarensis*		P4	
Non-conservation taxon					
10.	9080	*Abutilon cunninghamii*			
11.	4895	*Abutilon lepidum*			
12.	4901	*Abutilon otocarpum (Desert Chinese Lantern)*			
13.		*Abutilon sp.*			
14.	42920	*Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)*			
15.	14113	*Abutilon sp. Pilbara (W.R. Barker 2025)*			
16.	3205	*Acacia adsurgens*			
17.	3214	*Acacia ancistrocarpa (Fitzroy Wattle)*			
18.	3217	*Acacia aneura (Mulga, Wanari)*			
19.	3223	*Acacia arida*			
20.	3228	*Acacia atkinsiana*			
21.	3241	*Acacia bivenosa*			
22.	3260	*Acacia citrinoviridis*			
23.	17013	*Acacia colei var. colei*			
24.	17014	*Acacia colei var. ileocarpa*			
25.	16174	*Acacia elachantha*			
26.	3377	*Acacia inaequilatera (Baderi)*			
27.	3434	*Acacia maitlandii (Maitland's Wattle)*			
28.	3471	*Acacia orthocarpa (Needleleaf Wattle)*			
29.	3501	*Acacia ptychophylla*			
30.	3506	*Acacia pyrifolia (Ranji Bush, Kandji)*			
31.	13070	*Acacia synchronicia*			
32.	3579	*Acacia trachycarpa (Minni Ritchi, Balgali)*			
33.	23521	*Acacia trudgeniana*			
34.	20319	*Acacia tumida var. pilbarensis*			
35.	3598	*Acacia wanyu*			
36.	3606	*Acacia xiphophylla*			
37.	2645	*Achyranthes aspera (Chaff Flower)*			
38.	44	*Acrostichum speciosum*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
39.	2647	*Alternanthera angustifolia*			
40.	2651	*Alternanthera nana (Hairy Joyweed)*			
41.	2652	*Alternanthera nodiflora (Common Joyweed)*			
42.	2660	*Amaranthus cuspidifolius*			
43.	2666	*Amaranthus mitchellii (Boggabri Weed)*			
44.	20018	*Amaranthus undulatus*			
45.	5277	*Ammannia baccifera*			
46.	2383	*Amyema preissii (Wireleaf Mistletoe)*			
47.	14307	*Amyema sp. Fortescue (M.E. Trudgen 5358)*			
48.	7836	*Angianthus tomentosus (Camel-grass)*			
49.	204	*Aristida burbidgeae*			
50.	207	*Aristida contorta (Bunched Kerosene Grass)*			
51.	210	*Aristida holathera*			
52.	218	*Aristida obscura (Brush Threeawn)*			
53.	221	*Aristida pruinosa (Gulf Feathertop Wiregrass)*			
54.	2453	*Atriplex codonocarpa (Flat-topped Saltbush)*			
55.	5186	*Bergia trimera*			
56.	7866	*Blumea tenella*			
57.	2770	*Boerhavia coccinea (Tar Vine, Wituka)*			
58.	2772	*Boerhavia gardneri*			
59.	11167	*Bonamia erecta*			
60.	6605	*Bonamia linearis*			
61.	240	*Bothriochloa ewartiana (Desert Bluegrass)*			
62.	750	*Bulbostylis barbata*			
63.	48325	*Calandrinia holtumii*			
64.	2864	*Calandrinia ptychosperma*			
65.	14090	*Calocephalus beardii*			
66.	7893	*Calocephalus knappii*			
67.	7906	*Calotis plumulifera*			
68.	48291	*Capparis spinosa subsp. nummularia*			
69.	2949	*Cassytha capillaris*			
70.	2950	*Cassytha filiformis (Love Vine, Jirawan)*			
71.	35158	*Caulerpa corynephora*			
72.	258	*Cenchrus ciliaris (Buffel Grass)*	Y		
73.	7919	*Centipeda minima (Spreading Sneezewood, Kanjirralaa, Inteng-inteng, Karengkal, Kata-palkalpa, Munyu-parnti-parnti)*			
74.	19762	*Centipeda minima subsp. macrocephala*			
75.	31	*Cheilanthes austrotenuifolia*			
76.	33	*Cheilanthes contigua*			
77.	269	*Chloris pectinata (Comb Chloris)*			
78.	12612	*Chrysocephalum apiculatum*			
79.	273	*Chrysopogon fallax (Golden Beard Grass)*			
80.	2987	*Cleome uncifera*			
81.	2988	*Cleome viscosa (Tickweed, Tjinduwadhu)*			
82.	13692	*Clerodendrum floribundum var. angustifolium*			
83.	2778	*Codonocarpus cotinifolius (Native Poplar, Kundurangu)*			
84.	19880	*Convolvulus angustissimus*			
85.	13560	*Corchorus crozophorifolius*			
86.	13659	*Corchorus laniflorus*			
87.	18408	*Corchorus lasiocarpus subsp. parvus*			
88.	4862	*Corchorus parviflorus*			
89.	18415	*Corchorus sidoides subsp. sidoides*			
90.	18414	*Corchorus sidoides subsp. vermicularis*			
91.	17661	*Corchorus tectus*			
92.	16783	*Corymbia candida*			
93.	16782	*Corymbia candida subsp. candida*			
94.	17082	*Corymbia deserticola*			
95.	17083	*Corymbia deserticola subsp. deserticola*			
96.	17093	*Corymbia hamersleyana*			
97.	17084	*Corymbia zygophylla*			
98.	41721	*Cucumis variabilis*			
99.		*Cullen ? leucanthum seedling*			Y
100.	17117	*Cullen cinereum*			
101.	17439	*Cullen lachnostachys*			
102.	17118	*Cullen leucanthum*			
103.	17119	*Cullen leucochaites*			
104.	17116	*Cullen martinii*			
105.	17120	*Cullen pogonocarpum*			
106.	20759	*Cylindropuntia fulgida var. mamillata*	Y		
107.	281	*Cymbopogon obtectus (Silkyheads)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
108.	282	*Cymbopogon procerus (Lemon Grass)*			
109.	283	*Cynodon dactylon (Couch)*	Y		
110.	46555	*Cynodon prostratus*			
111.	788	*Cyperus dactylotes*			
112.	12808	*Cyperus hesperius*			
113.	798	*Cyperus iria*			
114.	814	*Cyperus squarrosus*			
115.	818	*Cyperus vaginatus (Stiffleaf Sedge)*			
116.	290	*Dactyloctenium radulans (Button Grass)*			
117.	7424	*Dampiera candicans*			
118.	303	*Dichanthium fecundum (Curly Bluegrass)*			
119.	13741	*Dichanthium sericeum subsp. humilius*			
120.	310	*Digitaria brownii (Cotton Panic Grass)*			
121.	313	*Digitaria ctenantha (Comb Finger Grass)*			
122.	4759	*Dodonaea coriacea*			
123.	4772	*Dodonaea pachyneura*			
124.	2502	*Dysphania kalpari (Rat's Tail, Kalpari)*			
125.	33479	*Dysphania melanocarpa (Black Crumbweed)*			
126.	2504	*Dysphania plantaginella*			
127.	2506	*Dysphania rhadinostachya*			
128.	11890	*Dysphania rhadinostachya subsp. rhadinostachya*			
129.	2511	*Enchylaena tomentosa (Barrier Saltbush)*			
130.	12064	*Enchylaena tomentosa var. tomentosa (Barrier Saltbush)*			
131.	357	*Enneapogon caerulescens (Limestone Grass)*			
132.	368	*Enteropogon ramosus (Windmill Grass, Curly Windmill Grass)*			
133.	375	*Eragrostis cumingii (Cuming's Love Grass)*			
134.	380	*Eragrostis eriopoda (Woollybutt Grass, Wangurnu)*			
135.	392	*Eragrostis pergracilis*			
136.	393	*Eragrostis setifolia (Neverfail Grass)*			
137.	398	*Eragrostis tenellula (Delicate Lovegrass)*			
138.	7192	*Eremophila cuneifolia (Pinyuru, T'iranju)*			
139.	15052	*Eremophila forrestii subsp. forrestii*			
140.	16696	*Eremophila fraseri subsp. fraseri*			
141.	7234	*Eremophila longifolia (Berrigan, Tulypurpa)*			
142.	16363	*Eremophila maculata subsp. brevifolia (Native Fuchsia)*			
143.	403	*Eriachne benthamii (Swamp Wanderrie)*			
144.	408	*Eriachne flaccida (Claypan Grass)*			
145.	413	*Eriachne mucronata (Mountain Wanderrie Grass)*			
146.	417	*Eriachne pulchella (Pretty Wanderrie)*			
147.	16485	*Eriachne pulchella subsp. dominii*			
148.	35343	*Eucalyptus camaldulensis subsp. refulgens*			
149.	18088	*Eucalyptus leucophloia subsp. leucophloia*			
150.	14548	*Eucalyptus victrix*			
151.	11011	*Eulalia aurea*			
152.		*Euphorbia australis "caterpillar"*			
153.	4617	*Euphorbia australis (Namana)*			
154.	35307	*Euphorbia australis var. australis*			
155.	4620	*Euphorbia boophthona (Gascoyne Spurge)*			
156.	9048	*Euphorbia careyi*			
157.	4623	*Euphorbia coghlanii (Namana)*			
158.	4629	*Euphorbia hirta (Asthma Plant)*	Y		
159.	12097	*Euphorbia tannensis subsp. eremophila (Desert Spurge)*			
160.	42876	*Euphorbia vaccaria var. vaccaria*			
161.	6617	*Evolvulus alsinoides (Tropical Speedwell)*			
162.	11200	*Evolvulus alsinoides var. villosicalyx*			
163.	19648	*Ficus brachypoda*			
164.	851	*Fimbristylis dichotoma (Eight Day Grass)*			
165.	2836	*Glinus oppositifolius*			
166.	7988	*Gnephosis arachnoidea (Cobwebby-headed Gnephosis)*			
167.	7989	*Gnephosis brevifolia (Short-leaved Gnephosis)*			
168.	18363	*Gomphrena canescens subsp. canescens*			
169.	2680	*Gomphrena cunninghamii*			
170.	7509	*Goodenia forrestii*			
171.	7521	*Goodenia lamprosperma*			
172.	7526	*Goodenia microptera*			
173.	10982	*Goodenia stobbsiana*			
174.	7556	*Goodenia tenuiloba*			
175.	4910	*Gossypium australe (Native Cotton)*			
176.	4918	*Gossypium robinsonii (Wild Cotton)*			
177.	1963	*Grevillea berryana*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
178.	13440	*Grevillea wickhamii subsp. aprica*			
179.	19074	*Grevillea wickhamii subsp. macrodonta*			
180.	2177	*Hakea lorea (Witinti)*			
181.	19137	*Hakea lorea subsp. lorea*			
182.	6174	*Haloragis gossei*			
183.	23465	*Haloragis gossei var. gossei*			
184.	6705	*Heliotropium crispatum*			
185.	6712	*Heliotropium heteranthum*			
186.	17307	*Heliotropium inexplicitum*			
187.	6713	*Heliotropium ovalifolium*			
188.	4922	*Hibiscus brachychlaenus*			
189.	4924	*Hibiscus burtonii*			
190.	4925	*Hibiscus coatesii*			
191.	4930	*Hibiscus goldsworthii*			
192.	4933	*Hibiscus leptocladus*			
193.	43022	*Hibiscus sp. Gardneri (A.L. Payne PRP 1435)*			
194.	4942	*Hibiscus sturtii (Sturt's Hibiscus)*			
195.	11651	*Hibiscus sturtii var. campylochlamys*			
196.	11385	*Hibiscus sturtii var. grandiflorus*			
197.	43081	*Hibiscus verdcourtii*			
198.	5215	*Hybanthus aurantiacus*			
199.	3971	*Indigofera boviperda*			
200.	17113	*Indigofera boviperda subsp. boviperda*			
201.	3973	*Indigofera colutea (Sticky Indigo)*			
202.	3981	*Indigofera linnaei (Birdsville Indigo)*			
203.	3982	*Indigofera monophylla*			
204.	29697	*Indigofera petraea*			
205.	6633	*Ipomoea muelleri (Poison Morning Glory, Yumbu)*			
206.	6637	*Ipomoea polymorpha*			
207.	458	*Iseilema dolichotrichum*			
208.	464	*Iseilema membranaceum (Small Flinders Grass)*			
209.	465	*Iseilema vaginiflorum (Red Flinders Grass)*			
210.	12059	*Jasminum didymum subsp. lineare (Desert Jasmine)*			
211.	3033	*Lepidium oxytrichum*			
212.	3037	*Lepidium phlebopetalum (Veined Peppercress)*			
213.	3038	*Lepidium pholidogynum*			
214.	36880	*Lobelia heterophylla subsp. pilbarensis*			
215.	2396	*Lysiana casuarinae*			
216.	2544	*Maireana georgei (Satiny Bluebush)*			
217.	2551	*Maireana melanocoma (Pussy Bluebush)*			
218.	2556	*Maireana planifolia (Low Bluebush)*			
219.	4962	*Malvastrum americanum (Spiked Malvastrum)*	Y		
220.		*Marsilea sp. indet*			Y
221.	5879	*Melaleuca bracteata (River Teatree)*			
222.	5915	*Melaleuca glomerata*			
223.	7082	*Mimulus gracilis*			
224.	6971	*Nicotiana benthamiana (Tjuntiwari)*			
225.	11331	*Nicotiana occidentalis subsp. obliqua*			
226.	7338	*Oldenlandia crouchiana*			
227.	515	*Paraneurachne muelleri (Northern Mulga Grass)*			
228.	10975	*Paspalidium basicladum*			
229.	518	*Paspalidium clementii (Clements Paspalidium)*			
230.	523	*Paspalidium rarum (Rare Paspalidium)*			
231.	14096	*Passiflora foetida var. hispida*	Y		
232.	42160	*Pentalepis trichodesmoides subsp. trichodesmoides*			
233.	12486	*Peplidium aithocheilum*			
234.	7092	*Peplidium muelleri*			
235.	34998	*Peripleura obovata*			
236.	17626	*Phyllanthus erwinii*			
237.	4680	*Phyllanthus maderaspatensis*			
238.	5230	*Pimelea ammocharis*			
239.	8167	*Pluchea dentex*			
240.	17816	*Pluchea ferdinandi-muelleri*			
241.	8168	*Pluchea rubelliflora*			
242.	2898	*Polycarpaea corymbosa*			
243.	12075	*Polycarpaea corymbosa var. corymbosa*			
244.	2901	*Polycarpaea holtzei*			
245.	2903	*Polycarpaea longiflora*			
246.	41365	*Polygala glaucifolia*			
247.	4572	*Polygala isingii*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
248.	4574	*Polygala longifolia*			
249.	6653	*Polymeria ambigua (Morning Glory)*			
250.	48961	*Polymeria mollis*			
251.		*Polymeria sp.*			
252.	2878	*Portulaca conspicua*			
253.	2882	*Portulaca intraterranea*			
254.	2884	*Portulaca oleracea (Purslane, Wakati)*			
255.	18154	*Psydrax latifolia*			
256.	45	*Pteris vittata (Chinese Brake)*			
257.	8191	*Pterocaulon serrulatum*			
258.	8192	*Pterocaulon sphacelatum (Apple Bush, Fruit Salad Plant)*			
259.	8193	*Pterocaulon sphaeranthoides*			
260.	2690	*Ptilotus aervoides*			
261.	2694	*Ptilotus appendiculatus*			
262.	2695	*Ptilotus arthrolasius*			
263.	2696	*Ptilotus astrolasius*			
264.	2699	*Ptilotus axillaris (Mat Mulla Mulla)*			
265.	2704	*Ptilotus calostachyus (Weeping Mulla Mulla)*			
266.	2711	*Ptilotus clementii (Tassel Top)*			
267.	2725	*Ptilotus fusiformis*			
268.	2727	*Ptilotus gaudichaudii*			
269.	2728	*Ptilotus gomphrenoides*			
270.	2731	*Ptilotus helipteroides (Hairy Mulla Mulla)*			
271.	2734	*Ptilotus incanus*			
272.	2746	*Ptilotus nobilis (Tall Mulla Mulla)*			
273.	2747	*Ptilotus obovatus (Cotton Bush)*			
274.	11396	*Ptilotus obovatus var. obovatus*			
275.	2751	*Ptilotus polystachyus (Prince of Wales Feather)*			
276.	11240	*Rhagodia preissii subsp. obovata*			
277.	13246	*Rhodanthe humboldtiana*			
278.	13310	*Rhodanthe margarethae*			
279.	4191	*Rhynchosia minima (Rhynchosia)*			
280.	30434	*Salsola australis*			
281.	7644	*Scaevola spinescens (Currant Bush, Maroon)*			
282.	2604	*Sclerolaena costata*			
283.	2607	*Sclerolaena densiflora*			
284.	2611	*Sclerolaena eriacantha (Tall Bindii)*			
285.	8877	*Sclerolaena gardneri*			
286.	12280	*Senna artemisioides subsp. oligophylla*			
287.	12307	*Senna glutinosa subsp. glutinosa*			
288.	12309	*Senna glutinosa subsp. pruinosa*			
289.	12308	*Senna glutinosa subsp. x luerssenii*			
290.	12312	*Senna notabilis*			
291.	12319	*Senna venusta*			
292.	46816	*Seringia elliptica (Showy fire-bush)*			
293.	46821	*Seringia nephrosperma (Free carpel fire-bush)*			
294.	4196	*Sesbania cannabina (Sesbania Pea)*			
295.	606	*Setaria dielsii (Diels' Pigeon Grass)*			
296.	613	*Setaria verticillata (Whorled Pigeon Grass)*	Y		
297.	31758	*Sida arsiniata*			
298.	4971	*Sida cardiophylla*			
299.	4972	*Sida clementii*			
300.	4976	*Sida echinocarpa*			
301.	4977	*Sida fibulifera (Silver Sida)*			
302.	4988	*Sida rohlenae*			
303.	18149	*Sida rohlenae subsp. rohlenae*			
304.	48867	*Sida sp. L (A.M. Ashby 4202)*			
305.	33698	*Sida sp. Pilbara (A.A. Mitchell PRP 1543)*			
306.	16617	*Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)*			
307.	6998	*Solanum cleistogamum*			
308.	7002	*Solanum diversiflorum*			
309.	42544	*Solanum elatius*			
310.	7009	*Solanum gabrielae*			
311.	7014	*Solanum horridum*			
312.	7018	*Solanum lasiophyllum (Flannel Bush, Mindjulu)*			
313.	7022	*Solanum nigrum (Black Berry Nightshade)*	Y		
314.	7029	*Solanum phlomoides*			
315.	629	*Sporobolus australasicus (Fairy Grass)*			
316.	4734	*Stackhousia muricata*			
317.	19555	*Stackhousia muricata subsp. annual (W.R. Barker 2172)*			

	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area[1]
318.	7098	*Stemodia grossa (Marsh Stemodia, Mindjaara)*			
319.	8235	*Streptoglossa bubakii*			
320.	8238	*Streptoglossa liatroides*			
321.	8240	*Streptoglossa odora*			
322.	3182	*Stylobasium spathulatum (Pebble Bush)*			
323.	13596	*Swainsona complanata*			
324.	12356	*Swainsona formosa*			
325.	4228	*Swainsona forrestii*			
326.	13339	*Synaptantha tillaeacea var. tillaeacea*			
327.	4263	*Tephrosia clementii*			
328.	41825	*Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)*			
329.	15947	*Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)*			
330.	4286	*Tephrosia uniovulata*			
331.	45698	*Terminalia circumalata*			
332.	673	*Themeda triandra*			
333.	2942	*Tinospora smilacina (Snakevine, Oondala)*			
334.	19043	*Trachymene oleracea subsp. oleracea*			
335.	19053	*Trachymene pilbarensis*			
336.	44241	*Trianthema glossostigmum*			
337.	44305	*Trianthema pilosum*			
338.	44362	*Trianthema triquetrum*			
339.	4374	*Tribulus astrocarpus*			
340.	4379	*Tribulus macrocarpus*			
341.	4380	*Tribulus occidentalis (Perennial Caltrop)*			
342.	18072	*Tribulus suberosus*			
343.	6727	*Trichodesma zeylanicum (Camel Bush, Kumbalin)*			
344.	11750	*Trichodesma zeylanicum var. zeylanicum*			
345.	7381	*Trichosanthes cucumerina*			
346.	48201	*Trigastrotheca molluginea*			
347.		*Triodia basedowii/lanigera*			
348.	13131	*Triodia epactia*			
349.	689	*Triodia lanigera*			
350.	690	*Triodia longiceps (Giant Grey Spinifex)*			
351.	696	*Triodia pungens (Soft Spinifex)*			
352.	704	*Triodia wiseana (Limestone Spinifex)*			
353.	4875	*Triumfetta chaetocarpa (Urchins)*			
354.	14694	*Triumfetta clementii*			
355.	4878	*Triumfetta johnstonii*			
356.	14942	*Triumfetta maconochieana*			
357.	30716	*Vachellia farnesiana (Mimosa Bush)*	Y		
358.	4323	*Vigna lanceolata (Maloga Vigna, Wega)*			
359.	7393	*Wahlenbergia tumidifructa*			
360.	5106	*Waltheria indica*			
361.	11894	*Yakirra australiensis var. australiensis*			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

[1] For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

Australian Government
Department of the Environment and Energy

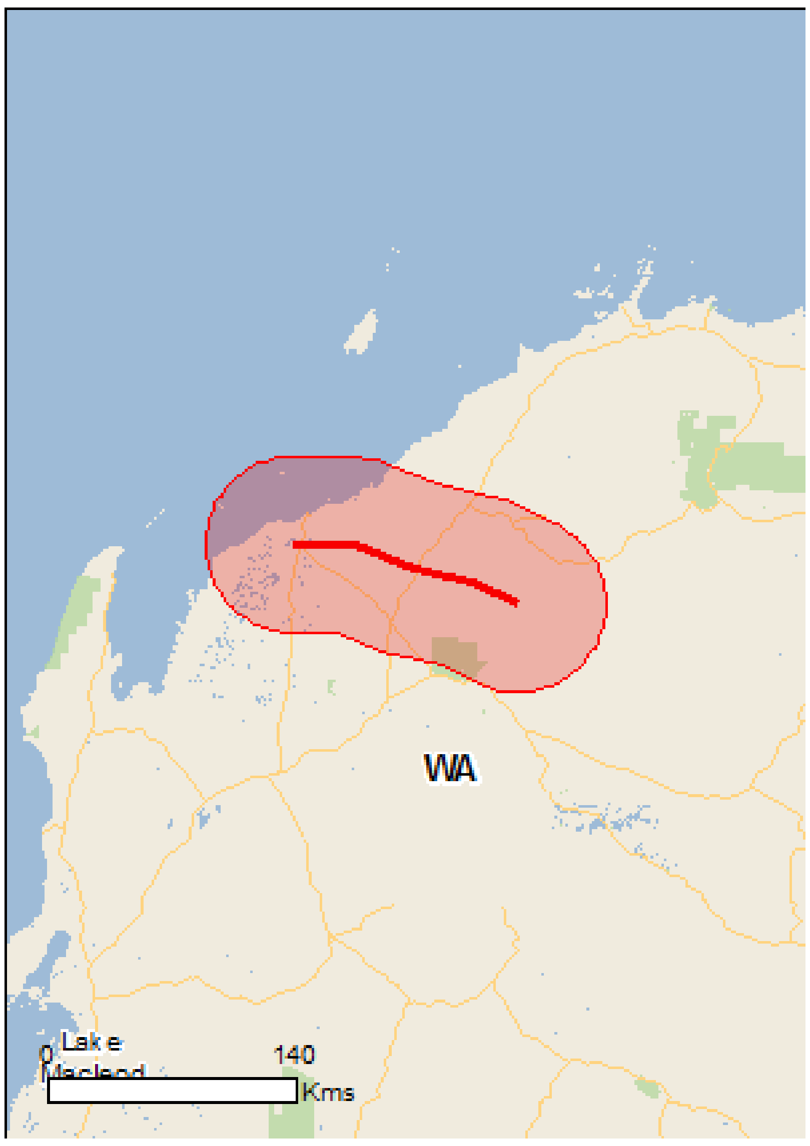
EPBC Act Protected Matters Report

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

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

Information is available about Environment Assessments and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/06/20 21:45:15



Coordinates
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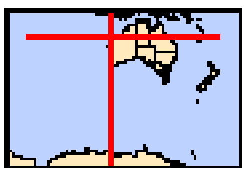

Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	29
Listed Migratory Species:	47

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	86
Whales and Other Cetaceans:	15
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	9
Regional Forest Agreements:	None
Invasive Species:	12
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Commonwealth Marine Area [Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name
EEZ and Territorial Sea

Marine Regions [Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name
North-west

Listed Threatened Species [Resource Information]

Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area

Name	Status	Type of Presence
Mammals		
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Roosting known to occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Liasis olivaceus barroni Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish	Vulnerable	Species or species

Name	Status	Type of Presence
[68442]		habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area

Listed Migratory Species [Resource Information]

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

Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat may occur within area
Ardenna pacifica Wedge-tailed Shearwater [84292]		Breeding known to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur

Name	Threatened	Type of Presence
		within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Dugong dugon Dugong [28]		Breeding known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Thalasseus bergii Crested Tern [83000]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

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

Name
Commonwealth Land -

Listed Marine Species [Resource Information]

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

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species

Name	Threatened	Type of Presence
		habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat may occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bengalensis Lesser Crested Tern [815]		Breeding known to occur within area
Sterna bergii Crested Tern [816]		Breeding known to occur within area
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Sterna fuscata Sooty Tern [794]		Breeding known to occur within area
Sterna nereis Fairy Tern [796]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Fish		
Acentronura larsonae Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bulbonaricus brauni Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus Muiron Island Pipefish [66196]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus multiannulatus Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area
Phoxocampus belcheri Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon Dugong [28]		Breeding known to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and other Cetaceans [Resource Information]

Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within

Name	Status	Type of Presence
		area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves [Resource Information]

Name	State
Bessieres Island	WA
Cane River	WA
Cane River (Mount Minnie and Nanutarra)	WA
Little Rocky Island	WA
Locker Island	WA
Round Island	WA
Serrurier Island	WA
Unnamed WA44665	WA
Weld Island	WA

Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Reptiles		
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

Nationally Important Wetlands

[Resource Information]

Name	State
Exmouth Gulf East	WA

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-21.787829 115.047473,-21.795001 115.357851,-21.900694 115.65433,-21.964174 115.954181,-22.067211 116.184602

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

-Office of Environment and Heritage, New South Wales
-Department of Environment and Primary Industries, Victoria
-Department of Primary Industries, Parks, Water and Environment, Tasmania
-Department of Environment, Water and Natural Resources, South Australia
-Department of Land and Resource Management, Northern Territory
-Department of Environmental and Heritage Protection, Queensland
-Department of Parks and Wildlife, Western Australia
-Environment and Planning Directorate, ACT
-Birdlife Australia
-Australian Bird and Bat Banding Scheme
-Australian National Wildlife Collection
-Natural history museums of Australia
-Museum Victoria
-Australian Museum
-South Australian Museum
-Queensland Museum
-Online Zoological Collections of Australian Museums
-Queensland Herbarium
-National Herbarium of NSW
-Royal Botanic Gardens and National Herbarium of Victoria
-Tasmanian Herbarium
-State Herbarium of South Australia
-Northern Territory Herbarium
-Western Australian Herbarium
-Australian National Herbarium, Canberra
-University of New England
-Ocean Biogeographic Information System
-Australian Government, Department of Defence
Forestry Corporation, NSW
-Geoscience Australia
-CSIRO
-Australian Tropical Herbarium, Cairns
-eBird Australia
-Australian Government – Australian Antarctic Data Centre
-Museum and Art Gallery of the Northern Territory
-Australian Government National Environmental Science Program
-Australian Institute of Marine Science
-Reef Life Survey Australia
-American Museum of Natural History
-Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
-Tasmanian Museum and Art Gallery, Hobart, Tasmania
-Other groups and individuals

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

Please feel free to provide feedback via the Contact Us page.

Department of the Environment
GPO Box 787
Canberra ACT 2601 Australia
+61 2 6274 1111

NAME_SCI	NAME_COM	CLASS	CONS_CODE	Date	SOURCE_ID	SOURCE	CERTAINTY	METHOD	TYPE	COUNT	NAME_ID
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41773	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41774	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41771	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41772	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41769	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41770	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41754	FAUNASURVEY_WLS	Not Sure		Clutch Count	50	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41768	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41752	FAUNASURVEY_WLS	Not Sure		Clutch Count	39	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41753	FAUNASURVEY_WLS	Not Sure		Clutch Count	86	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41750	FAUNASURVEY_WLS	Not Sure		Clutch Count	51	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41751	FAUNASURVEY_WLS	Not Sure		Clutch Count	54	25344
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41766	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41767	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41791	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41792	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41789	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41790	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41787	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41788	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41785	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41786	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41783	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41784	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41781	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41782	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41779	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41780	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41777	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41778	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41807	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41808	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41805	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41806	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41803	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41804	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41801	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41802	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41799	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41800	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41797	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41798	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41795	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41796	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41793	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41794	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344

Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	9/12/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41815	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU		Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41813	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41814	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41811	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41812	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41809	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41810	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	8/4/14	87951	TFAUNA	Moderately certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/11/14	88007	TFAUNA	Moderately certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	16/11/14	87860	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	16/11/14	87918	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	24/11/14	87832	TFAUNA	Moderately certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	22/6/13	87854	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	13/11/14	87793	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	23/11/14	87811	TFAUNA	Moderately certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	87529	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	15/11/14	87787	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	Natator dep	WL_REG17		Survey		0	25344
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	Natator dep	WL_REG17		Survey		0	25344
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	13/8/09	228545	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228549	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	10/8/09	228546	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	13/8/09	228544	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	7/10/15	1127449	FAUNASURVEY	Certain	Survey	Unknown	1	33954
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	8/10/15	1127448	FAUNASURVEY	Certain	Survey	Unknown	1	33954
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	93209	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Dead	89	25344
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	9/5/15	1127447	FAUNASURVEY	Certain	Survey	Unknown	1	33954
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	93207	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Dead	149	25344
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	93208	TFAUNA	Very Certain (photo, specimen, expert)	Regular monitoring	Dead	55	25344
Natator depressus	Flatback turtle	REPTILE	VU	9/11/14	88111	TFAUNA	Moderately certain	Survey	Sighting	1	25344

Natator depressus	Flatback turtle	REPTILE	VU	9/11/14	88112	TFAUNA	Moderately certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/11/14	88068	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/11/14	88069	TFAUNA	Certain	Survey	Sighting	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	28/11/14	88041	TFAUNA	Certain	Survey	Sighting	2	25344
Natator depressus	Flatback turtle	REPTILE	VU	11/1/15	88051	TFAUNA	Certain	Survey	Sighting	1	25344
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9687	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9688	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9684	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9685	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9683	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9686	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	9689	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9682	FAUNASURVEY_WLS	Certain		Scat	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	1282534	FAUNASURVEY	Certain	Survey	Caught or trapped	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	1282535	FAUNASURVEY	Certain	Survey	Caught or trapped	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	3/5/16	1265274	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	4/5/16	1265275	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	1/5/16	1265272	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	2/5/16	1265273	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	8/8/15	1088844	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	9/8/15	1088845	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	19/8/13	85700	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	27/8/13	85701	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85698	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	8/8/13	85699	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85674	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	85688	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85672	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85673	TFAUNA	Certain	Survey	Sighting	7	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	13/8/15	85654	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85671	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	5/9/13	85526	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	19/8/13	85529	TFAUNA	Certain	Survey	Sighting	2	24051
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	Macroderm	WL_REG17		Survey		0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	Macroderm	WL_REG17		Survey		0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	5/10/16	Macroderm	WL_REG17		Survey		0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	Macroderm	WL_REG17		Survey		0	24180
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	22/7/13	85904	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	9/7/13	86954	TFAUNA	Certain	Survey	Sighting	3	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/9/13	85783	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	5/8/13	85902	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85721	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	12/8/13	85723	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85716	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85717	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	29/8/13	85713	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	23/8/13	85714	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85709	TFAUNA	Certain	Survey	Sighting	7	24051

Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85710	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85704	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	27/8/13	85705	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	29/8/13	85702	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85703	TFAUNA	Certain	Survey	Sighting	2	24051
Natator depressus	Flatback turtle	REPTILE	VU	3/3/10	121164	FAUNASURVEY	Moderately certain	Survey	Secondary sign	4	25344
Natator depressus	Flatback turtle	REPTILE	VU	3/3/12	672949	FAUNASURVEY	Certain	Survey	Unknown	0	25344
Natator depressus	Flatback turtle	REPTILE	VU	14/12/09	121180	FAUNASURVEY	Moderately certain	Survey	Secondary sign	13	25344
Natator depressus	Flatback turtle	REPTILE	VU	16/12/09	121185	FAUNASURVEY	Moderately certain	Survey	Secondary sign	16	25344
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	3/8/15	88113	TFAUNA	Moderately certain	Survey	Sighting	1	24051
Natator depressus	Flatback turtle	REPTILE	VU	28/10/09	121122	FAUNASURVEY	Moderately certain	Survey	Secondary sign	1	25344
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	7/8/13	87903	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	11/8/13	87987	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	21/8/13	87872	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	9/8/13	87881	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	13/6/13	87845	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	3/8/13	87861	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	8/8/13	87516	TFAUNA	Certain	Survey	Sighting	2	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	87569	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	87484	TFAUNA	Certain	Survey	Sighting	1	24051
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	26/8/13	87510	TFAUNA	Certain	Survey	Sighting	1	24051
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	41816	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2869	FAUNASURVEY_WLS	Not Sure		Clutch count	51	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/14	883407	FAUNASURVEY	Certain	Survey	Unknown	4	25344
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	2884	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115111	FAUNASURVEY	Certain	Survey	Unknown	6	25344
Natator depressus	Flatback turtle	REPTILE	VU	30/1/14	883401	FAUNASURVEY	Certain	Survey	Unknown	48	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115108	FAUNASURVEY	Certain	Survey	Unknown	180	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115110	FAUNASURVEY	Certain	Survey	Unknown	16	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883406	FAUNASURVEY	Certain	Survey	Unknown	9	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883409	FAUNASURVEY	Certain	Survey	Unknown	6	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883408	FAUNASURVEY	Certain	Survey	Unknown	8	25344
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883400	FAUNASURVEY	Certain	Survey	Unknown	411	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883399	FAUNASURVEY	Certain	Survey	Unknown	127	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883405	FAUNASURVEY	Certain	Survey	Unknown	7	25344
Natator depressus	Flatback turtle	REPTILE	VU	15/11/12	672947	FAUNASURVEY	Certain	Survey	Unknown	387	25344
Natator depressus	Flatback turtle	REPTILE	VU	17/1/13	672948	FAUNASURVEY	Certain	Survey	Unknown	19	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2873	FAUNASURVEY_WLS	Not Sure		Clutch count	62	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2876	FAUNASURVEY_WLS	Not Sure		Clutch count	53	25344
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2880	FAUNASURVEY_WLS	Not Sure		Clutch count	49	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2866	FAUNASURVEY_WLS	Not Sure		Clutch count	61	25344
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2870	FAUNASURVEY_WLS	Not Sure		Clutch count	45	25344
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2879	FAUNASURVEY_WLS	Not Sure		Clutch count	47	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41820	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2867	FAUNASURVEY_WLS	Not Sure		Clutch count	55	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41818	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41819	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2888	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344

Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41817	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2886	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2887	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2881	FAUNASURVEY_WLS	Not Sure		Clutch count	51	25344
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2885	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41825	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2868	FAUNASURVEY_WLS	Not Sure		Clutch count	61	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41823	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41824	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2893	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41822	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2891	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2892	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2882	FAUNASURVEY_WLS	Not Sure		Clutch count	56	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2890	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2877	FAUNASURVEY_WLS	Not Sure		Clutch count	35	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2878	FAUNASURVEY_WLS	Not Sure		Clutch count	55	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2874	FAUNASURVEY_WLS	Not Sure		Clutch count	47	25344
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2875	FAUNASURVEY_WLS	Not Sure		Clutch count	46	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2889	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	41821	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41831	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41832	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41829	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41830	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41827	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41828	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2901	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41826	FAUNASURVEY_WLS	Not Sure		Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2899	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2900	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2897	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2898	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2895	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2896	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2871	FAUNASURVEY_WLS	Not Sure		Clutch count	54	25344
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2894	FAUNASURVEY_WLS	Not Sure		Nest fan measurement	1	25344
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328806	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328807	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328804	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328805	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235592	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235594	FAUNASURVEY	Certain	Survey	Unknown	1	34154

Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235590	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235591	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	6/2/07	15019	TFAUNA	Certain	Survey	Caught or trapped	1	34153
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235589	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	7/10/10	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	15013	TFAUNA	Certain	Survey	Caught or trapped	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	7/10/10	ARACH:110	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23107	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23108	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23105	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23106	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23100	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23101	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23095	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23099	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	15/9/16	1329050	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	27/5/17	23135	FAUNASURVEY_WLS	WAM Vouchered		Haul Net Scrape	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1328911	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	15/9/16	1329049	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1235527	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1328910	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328809	FAUNASURVEY	WAM Vouchered	Survey	Caught or trapped	1	34154

Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1235526	FAUNASURVEY	Certain	Survey	Unknown	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:tax	WAM_ARACHNIDS				0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:tax	WAM_ARACHNIDS				0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:657	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:657	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	28/5/08	urn:lsid:tax	WAM_ARACHNIDS				0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:657	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23119	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	28/5/08	ARACH:922	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23117	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23118	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23115	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23116	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23111	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23112	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23109	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23110	FAUNASURVEY_WLS	WAM Vouchered		Habitat Trap	1	34154
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155

Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	3/5/05	15043	TFAUNA	Certain	Survey	Caught or trapped	3	34154
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	25/5/18	Paradracul	WL_REG17		Survey		0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	8/4/18	Paradracul	WL_REG17		Survey		0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	27/5/17	Paradracul	WL_REG17		Survey		0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	17/7/18	Paradracul	WL_REG17		Survey		0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:tax	WAM_ARACHNIDS				0	34154
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	Paradracul	WL_REG17		Survey		0	34154
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	16/4/08	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:995	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	12/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	16/4/08	ARACH:922	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	12/7/05	ARACH:658	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	27/5/05	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	27/5/05	ARACH:633	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		urn:lsid:tax	WAM_ARACHNIDS				0	34155

Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	3/5/05	15044	TFAUNA	Certain	Survey	Caught or trapped	4	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		ARACH:657	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		ARACH:657	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:120	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:120	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:120	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:tax	WAM_ARACHNIDS				0	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:995	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:995	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34155
Pluvialis squatarola	Grey plover	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	13/1/15	1534174|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	30/9/14	1534203|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	19/10/14	1534205|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	27/9/14	1534202|1	BIRDATA				0	24383
Plegadis falcinellus	Glossy ibis	BIRD	IA	19/7/15	1571532|1	BIRDATA				0	24843
Plegadis falcinellus	Glossy ibis	BIRD	IA	2/8/15	1571516|1	BIRDATA				0	24843
Pezoporus occidentalis	Night parrot	BIRD	CR	1/1/67	192	TFAUNA	Moderately certain	Historical (written)	Day sighting	1	24743
Plegadis falcinellus	Glossy ibis	BIRD	IA	16/7/15	1571533|1	BIRDATA				0	24843
Perameles bougainville	Western barred bandicoot, little marl, Shark Bay bandicoot	MAMMAL	VU		urn:lsid:tax	WAM_MAMMALS				0	25504
Perameles bougainville	Western barred bandicoot, little marl, Shark Bay bandicoot	MAMMAL	VU		MAMM:M1	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	25504
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15047	TFAUNA	Certain	Survey	Caught or trapped	1	34155
Paradraculoides kryptus	Mesa K paradraculoides	INVERTEBRATE	VU	14/7/18	Paradraculo	WL_REG17		Survey		0	35956

Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15045	TFAUNA	Certain	Survey	Caught or trapped	1	34155
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15046	TFAUNA	Certain	Survey	Caught or trapped	1	34155
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	26/9/13	718202	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	26/9/13	718262	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	19/4/05	103892	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	24/5/12	564764	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pristis zijsron	Green sawfish	FISH	VU	12/6/13	711494	FAUNASURVEY	Not Sure	Survey	Unknown	1	34037
Pristis zijsron	Green sawfish	FISH	VU	21/11/14	992527	FAUNASURVEY	Certain	Survey	Unknown	7	34037
Pristis zijsron	Green sawfish	FISH	VU	24/10/11	598716	FAUNASURVEY	Certain	Survey	Unknown	40	34037
Pristis zijsron	Green sawfish	FISH	VU	10/6/13	711453	FAUNASURVEY	Not Sure	Survey	Unknown	1	34037
Pristis zijsron	Green sawfish	FISH	VU	14/4/11	598683	FAUNASURVEY	Certain	Survey	Unknown	4	34037
Pristis zijsron	Green sawfish	FISH	VU	15/4/11	598704	FAUNASURVEY	Certain	Survey	Unknown	4	34037
Pluvialis squatarola	Grey plover	BIRD	IA	31/10/06	481571|13	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24383
Pristis pristis	Freshwater sawfish	FISH	P3	15/4/11	598705	FAUNASURVEY	Certain	Survey	Unknown	3	48077
Pluvialis squatarola	Grey plover	BIRD	IA	22/1/15	1534233|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	20/7/99	36742|136	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24383
Pluvialis squatarola	Grey plover	BIRD	IA	13/1/15	1534230|1	BIRDATA				0	24383
Pluvialis squatarola	Grey plover	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	24383
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/3/05	REPT:R110	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/3/05	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/05	REPT:R110	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/05	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/7/91	REPT:R108	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/7/91	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	17/3/10	228555	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	22/8/15	1222892	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228556	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	17/3/10	228553	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228552	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228554	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	14/3/10	228551	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	14/3/10	228566	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228550	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228565	FAUNASURVEY	Certain	Survey	Unknown	1	25196
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/12/14	1534229|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	13/1/15	1534174|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	26/12/14	1534226|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	27/12/14	1534228|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	2/12/14	1534189|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	24/12/14	1534225|1	BIRDATA				0	24798

Numenius madagascariensis	Eastern curlew	BIRD	CR	24/10/14	1534187|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	18/11/14	1534188|1	BIRDATA				0	24798
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	3/5/05	REPT:R110{	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	3/5/05	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	urn:lsid:tax	WAM_REPTILES				0	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	REPT:R110{	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	REPT:R110{	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	18/3/05	REPT:R110{	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25196
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	18/3/05	urn:lsid:tax	WAM_REPTILES				0	25196
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain	Historical (written)	Day sighting	6	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain	Historical (written)	Day sighting	6	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain	Historical (written)	Day sighting	6	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain	Historical (written)	Day sighting	6	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	31/10/06	481571|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	5/4/19	Numenius r	WL_REG17		Survey		0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	29/7/02	286757|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	31/7/02	286758|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/9/17	1988991|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	15/7/01	199311|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	24/8/15	1534254|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/8/15	1534195|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	13/2/15	1534175|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	4/3/15	1534193|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	15/1/15	1534191|1	BIRDATA				0	24798
Numenius madagascariensis	Eastern curlew	BIRD	CR	3/2/15	1534192|1	BIRDATA				0	24798
Numenius phaeopus	Whimbrel	BIRD	IA	3/3/15	1534239|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	4/3/15	1534193|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	3/2/15	1534192|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	16/2/15	1534235|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	15/1/15	1534191|1	BIRDATA				0	25742

Numenius phaeopus	Whimbrel	BIRD	IA	1/12/14	1534219|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	2/12/14	1534220|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	14/11/14	1534212|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	18/11/14	1534214|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	24/9/14	1534201|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	19/10/14	1534205|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	26/8/14	1534197|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	25742
Numenius minutus	Little curlew, little whimbrel	BIRD	IA	21/10/16	1808036|1	BIRDATA				0	24799
Numenius minutus	Little curlew, little whimbrel	BIRD	IA	1/10/03	426641|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24799
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/11/14	1534216|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	4/12/14	1534222|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	11/11/14	1534210|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	18/11/14	1534214|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/8/14	1534224|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	10/11/14	1534209|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/8/13	1283612|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	11/6/14	1359292|2	BIRDATA				0	48591
Oceanites oceanicus	Wilson's storm-petrel	BIRD	IA	7/6/13	715039	FAUNASURVEY	Not Sure	Survey	Unknown	1	24497
Ophisternon candidum	Blind cave eel	FISH	VU	1/1/09	96374	TFAUNA	Certain	Survey		1	34038
Numenius phaeopus	Whimbrel	BIRD	IA	16/4/08	498554|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25742
Numenius phaeopus	Whimbrel	BIRD	IA	8/9/08	49974	FAUNASURVEY	Certain	Survey	Unknown	1	25742
Numenius phaeopus	Whimbrel	BIRD	IA	22/3/17	1830453|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	31/10/06	481571|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25742
Numenius phaeopus	Whimbrel	BIRD	IA	1/4/15	1534242|1	BIRDATA				0	25742
Numenius phaeopus	Whimbrel	BIRD	IA	28/8/15	1534195|1	BIRDATA				0	25742
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/3/17	1830455|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	29/6/17	1995345|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	13/8/15	1325943|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	25/8/15	1571547|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/8/15	1534246|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	12/8/15	1325942|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	3/6/15	1534181|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	18/7/15	1534247|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	4/3/15	1534240|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	12/5/15	1325879|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/1/15	1534237|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	13/2/15	1534234|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/12/14	1534229|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	20/1/15	1534232|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	24/12/14	1534190|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/12/14	1534228|2	BIRDATA				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	19/5/04	459509|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	31/10/06	481571|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/7/02	286753|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	10/5/03	289467|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/8/01	187290|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	6/7/02	412401|24	BIRDATLAS2				0	48591

Pandion cristatus	Osprey, eastern osprey	BIRD	IA	7/7/01	289175|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	15/7/01	199311|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	31/7/99	36746|241	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	29/8/99	44795|241	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/7/99	30121|241	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/7/99	40644|241	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/9/78	53654|241	BIRDATLAS1				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/12/78	53656|241	BIRDATLAS1				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/12/77	43100|241	BIRDATLAS1				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	15/9/78	53657|241	BIRDATLAS1				0	48591
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:tax	WAM_ARACHNIDS				0	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	5/4/19	Pandion ha	WL_REG17		Survey		0	48591
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:662	WAM_ARACHNIDS	WAM Vouchered	Collection	Specimen	1	34153
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/9/08	49961	FAUNASURVEY	Certain	Survey	Unknown	1	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	23/6/13	710012	FAUNASURVEY	Not Sure	Survey	Unknown	1	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	7/8/08	5032737|2	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/4/05	103873	FAUNASURVEY	Certain	Survey	Unknown	1	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	16/4/08	498554|24	BIRDATLAS2				0	48591
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/7/08	5029291|2	BIRDATLAS2				0	48591
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6268	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6269	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6235	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6236	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/9/15	6277	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6234	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/9/15	6232	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/9/15	6233	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/9/15	6230	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/9/15	6231	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/8/15	6229	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/8/15	6266	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6265	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/8/15	6228	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6227	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6264	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dugong dugon	Dugong	MAMMAL	OS	13/7/12	852989	FAUNASURVEY	Certain	Survey	Unknown	2	24084
Dugong dugon	Dugong	MAMMAL	OS	25/8/12	507516	FAUNASURVEY	Not Sure	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	10/5/12	852934	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	10/5/12	852936	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/10/17	93202	TFAUNA	Certain	Opportunistic sighting	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/12/17	93203	TFAUNA	Very Certain (photo, specimen, expert)	Opportunistic sighting	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		urn:lsid:tax	WAM_MAMMALS				0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		14172	TFAUNA	Certain	Historical (written)	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/10/15	6276	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		MAMM:M2	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/10/15	6274	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/10/15	6275	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/10/15	6272	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/10/15	6273	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/9/15	6270	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/9/15	6271	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dugong dugon	Dugong	MAMMAL	OS	4/5/13	819332	FAUNASURVEY	Certain	Survey	Unknown	2	24084
Dugong dugon	Dugong	MAMMAL	OS	6/5/13	819809	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	27/4/13	819869	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	4/5/13	818978	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853237	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	10/12/12	853232	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853234	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853236	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	1/12/12	853192	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853233	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853091	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	19/10/12	853148	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853089	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853090	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	3/10/12	853084	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	3/10/12	853085	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	17/10/14	1270881	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	17/10/14	1270886	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270859	FAUNASURVEY	Certain	Survey	Unknown	2	24084
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270860	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270845	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270856	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270841	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270843	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819759	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	1/5/14	1270761	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819529	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819610	FAUNASURVEY	Certain	Survey	Unknown	1	24084

Dugong dugon	Dugong	MAMMAL	OS	19/10/13	820051	FAUNASURVEY	Certain	Survey	Unknown	2	24084
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819447	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	11/10/13	819838	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	19/10/13	820045	FAUNASURVEY	Certain	Survey	Unknown	1	24084
Dugong dugon	Dugong	MAMMAL	OS	27/3/14	87473	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	10/5/13	87474	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	24/8/13	87471	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	27/3/14	87472	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	12/4/14	87467	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	30/10/14	87469	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	17/11/13	87456	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	4/11/14	87459	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85682	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85683	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85680	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85681	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS		urn:lsid:tax	WAM_MAMMALS				0	24084
Dugong dugon	Dugong	MAMMAL	OS		urn:lsid:tax	WAM_MAMMALS				0	24084
Dugong dugon	Dugong	MAMMAL	OS		MAMM:M2	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24084
Dugong dugon	Dugong	MAMMAL	OS		MAMM:M2	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24084
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88079	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	19/11/14	88082	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	11/10/14	88077	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	16/10/14	88078	TFAUNA	Certain	Survey	Sighting	2	24084
Dugong dugon	Dugong	MAMMAL	OS	10/10/14	88075	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88076	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	4/4/14	88060	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88074	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	31/10/14	88054	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	25/10/14	88056	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	29/10/13	88013	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	7/11/14	88045	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	1/11/14	87890	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	16/11/14	87914	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	14/9/13	87483	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	2/5/13	87486	TFAUNA	Certain	Survey	Sighting	1	24084
Falco peregrinus	Peregrine falcon	BIRD	OS	10/8/02	290104|23	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25624
Falco peregrinus	Peregrine falcon	BIRD	OS	18/4/05	102892	FAUNASURVEY	Certain	Survey	Unknown	1	25624
Falco hypoleucos	Grey falcon	BIRD	VU	20/5/15	1169466	FAUNASURVEY	Certain	Survey	Unknown	1	24473
Falco hypoleucos	Grey falcon	BIRD	VU	20/5/15	1169893	FAUNASURVEY	Certain	Survey	Unknown	1	24473
Dugong dugon	Dugong	MAMMAL	OS	8/12/13	88119	TFAUNA	Certain	Survey	Sighting	1	24084
Eretmochelys imbricata	Hawksbill turtle	REPTILE	VU	11/7/13	87581	TFAUNA	Certain	Survey	Sighting	1	25473
Dugong dugon	Dugong	MAMMAL	OS	4/4/15	88107	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	1/12/14	88118	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	29/11/14	88097	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	10/10/14	88103	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	4/11/14	88095	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	6/11/14	88096	TFAUNA	Certain	Survey	Sighting	1	24084

Dugong dugon	Dugong	MAMMAL	OS	16/10/14	88087	TFAUNA	Certain	Survey	Sighting	2	24084
Dugong dugon	Dugong	MAMMAL	OS	31/10/14	88094	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	19/11/14	88083	TFAUNA	Certain	Survey	Sighting	1	24084
Dugong dugon	Dugong	MAMMAL	OS	20/12/14	88086	TFAUNA	Certain	Survey	Sighting	1	24084
Glareola maldivarum	Oriental pratincole	BIRD	IA	24/1/13	709039	FAUNASURVEY	Not Sure	Survey	Unknown	1	24481
Glareola maldivarum	Oriental pratincole	BIRD	IA	16/2/13	700976	FAUNASURVEY	Not Sure	Survey	Unknown	1	24481
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	12/12/18	Gelochelid	WL_REG17		Survey		0	47954
Glareola maldivarum	Oriental pratincole	BIRD	IA	8/9/08	49990	FAUNASURVEY	Certain	Survey	Unknown	1	24481
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	8/9/08	49992	FAUNASURVEY	Certain	Survey	Unknown	1	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	18/1/16	1282049	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	31/10/06	481571|11	BIRDATLAS2				0	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	16/4/08	498554|11	BIRDATLAS2				0	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	1/10/03	426641|11	BIRDATLAS2				0	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	30/10/06	481570|11	BIRDATLAS2				0	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	17/9/78	53654|111	BIRDATLAS1				0	47954
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	31/7/99	36746|111	BIRDATLAS2				0	47954
Falco peregrinus	Peregrine falcon	BIRD	OS	9/5/17	1356550	FAUNASURVEY	Certain	Survey		1	25624
Falco peregrinus	Peregrine falcon	BIRD	OS	27/7/17	1356551	FAUNASURVEY	Certain	Survey		1	25624
Falco peregrinus	Peregrine falcon	BIRD	OS	6/2/12	504779	FAUNASURVEY	Not Sure	Survey	Unknown	1	25624
Falco peregrinus	Peregrine falcon	BIRD	OS	19/5/15	1169467	FAUNASURVEY	Certain	Survey	Unknown	1	25624
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595475	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595476	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595468	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595469	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595466	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595467	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595464	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595465	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595462	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595463	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595460	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595461	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595458	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595459	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595456	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595457	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36638	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/4/17	36641	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36636	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36637	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36634	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36635	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/4/17	36630	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36633	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36628	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/4/17	36629	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36626	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36627	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595479	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595480	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595477	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595478	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	3679	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	3680	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3677	PILBTFAUNA	Certain	Targeted survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3678	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3675	PILBTFAUNA	Certain	Targeted survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3676	PILBTFAUNA	Certain	Targeted survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/10/12	3498	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3674	PILBTFAUNA	Certain	Targeted survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36651	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/17	36653	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36648	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36649	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36644	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36645	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36642	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36643	FAUNASURVEY_WLS	Certain		Small cage trap	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3927	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3928	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3925	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3926	PILBTFAUNA	Certain	Opportunistic sighting		1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3923	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3924	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/9/14	3920	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3922	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/9/14	3917	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/9/14	3918	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/14	5647	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/5/14	5810	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5645	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5646	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5643	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5644	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6206	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6239	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/15	6238	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6205	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/5/15	6203	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/15	6204	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	6202	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	6282	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6237	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6283	PILBTFAUNA	Certain	Opportunistic sighting	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6200	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6201	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3931	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/9/14	3932	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3929	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3930	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/6/15	6244	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/6/15	6217	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/6/15	6243	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/6/15	6216	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6214	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6215	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6212	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6213	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6242	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/5/15	6211	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6210	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6241	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6208	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6209	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6240	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6207	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6281	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/6/15	6257	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6255	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6256	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6254	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6280	PILBTFAUNA	Certain	Opportunistic sighting	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/6/15	6252	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6253	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	18/6/15	6250	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/6/15	6251	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/6/15	6248	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	18/6/15	6249	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/6/15	6246	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/6/15	6247	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/6/15	6245	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/6/15	6218	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6225	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6226	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6223	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6224	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/15	6222	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/15	6263	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/8/15	6262	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/8/15	6279	PILBTFAUNA	Very certain	Targeted survey	Remote camera	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/8/15	6221	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/8/15	6261	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/8/15	6259	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/8/15	6260	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/8/15	6220	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/8/15	6278	PILBTFAUNA	Certain	Targeted survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/7/15	6258	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/8/15	6219	PILBTFAUNA	Very certain	Targeted survey	Caught or trapped	1	24093
Lerista planiventralis maryani	Maryan's keeled slider (Ashburton)	REPTILE	P1	11/3/90	urn:lsid:tax	WAM_REPTILES				0	25164
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	5/3/12	482872	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	25238
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	9/4/18	Leiopother	WL_REG17		Survey		0	34042
Lerista planiventralis maryani	Maryan's keeled slider (Ashburton)	REPTILE	P1	11/3/90	REPT:R1043	WAM_REPTILES	WAM Vouchered	Collection	Specimen	1	25164
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	7/4/18	Leiopother	WL_REG17		Survey		0	34042
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	12/5/18	Leiopother	WL_REG17		Survey		0	34042
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	14/9/03	MAMM:M4	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	14/9/03	urn:lsid:tax	WAM_MAMMALS				0	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	25/8/16	1281744	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/10/16	1281745	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	19/6/16	1281742	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	28/7/16	1281743	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281740	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/6/16	1281741	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281738	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281739	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/9/14	1534171|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	30/9/14	1534203|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/9/14	1534201|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/9/14	1534202|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/9/14	1534199|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/8/14	1534224|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	31/8/14	1534198|1	BIRDATA				0	30932
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	20/5/15	1169689	FAUNASURVEY	Certain	Survey	Unknown	1	25238
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/7/14	1537700|1	BIRDATA				0	30932
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	30/3/13	607357	FAUNASURVEY	Certain	Survey	Unknown	1	25238
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	14/5/13	648381	FAUNASURVEY	Certain	Survey	Unknown	1	25238
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	2/9/12	507858	FAUNASURVEY	Not Sure	Survey	Unknown	1	25238
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	21/10/12	607356	FAUNASURVEY	Certain	Survey	Unknown	1	25238
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	25/5/12	564718	FAUNASURVEY	Certain	Survey	Unknown	1	25238

Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	5/8/12	482871	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	25238
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/11/14	1534218|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/12/14	1534219|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/11/14	1534216|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/11/14	1534217|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	19/11/14	1534227|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	20/11/14	1534215|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	16/11/14	1534213|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	18/11/14	1534214|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/11/14	1534211|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	14/11/14	1534212|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/10/14	1534208|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	10/11/14	1534209|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/10/14	1534206|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/10/14	1534207|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/10/14	1534204|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	19/10/14	1534205|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	22/1/15	1534233|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/1/15	1534236|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	20/1/15	1534232|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/1/15	1534174|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/1/15	1534230|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/12/14	1534228|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/12/14	1534229|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/14	1534226|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/12/14	1534172|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/12/14	1534223|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/12/14	1534221|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/12/14	1534222|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	2/12/14	1534189|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	2/12/14	1534220|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	14/5/15	1534250|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/8/15	1534252|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/15	1534194|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/15	1534244|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/4/15	1534242|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/4/15	1534243|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/3/15	1534240|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/3/15	1534241|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/3/15	1534239|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/3/15	1534193|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/2/15	1534234|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	16/2/15	1534235|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/2/15	1534238|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/2/15	1534175|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/1/15	1534237|1	BIRDATA				0	30932

Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/2/15	1534192|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	23/6/05	453195|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	31/10/06	481571|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	30/7/02	286755|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	10/5/03	289467|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/7/02	412401|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	25/7/02	286752|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/78	53656|153	BIRDATLAS1	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/7/01	199311|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/77	43104|153	BIRDATLAS1	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/9/78	53657|153	BIRDATLAS1	Moderately certain	Observational	Sighting	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/7/17	1881170|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/9/17	1989005|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	17/11/16	1818376|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/3/17	1830898|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/10/16	1808005|1	BIRDATA				0	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/10/16	1808036|1	BIRDATA				0	30932
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74603	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74604	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74601	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74602	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74599	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74600	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	24/6/09	80647	FAUNASURVEY	Certain	Survey	Unknown	0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74598	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Limosa limosa	Black-tailed godwit	BIRD	IA	26/12/77	43100|152	BIRDATLAS1	Moderately certain	Observational	Sighting	1	25741
Limosa limosa	Black-tailed godwit	BIRD	IA	26/12/78	53656|152	BIRDATLAS1	Moderately certain	Observational	Sighting	1	25741
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR	14/1/01	urn:lsid:tax	WAM_BIRDS				0	24796
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR		urn:lsid:tax	WAM_BIRDS				0	24796
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR	14/1/01	AVIF:28928	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	24796
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR		AVIF:31284	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	24796
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/9/08	49973	FAUNASURVEY	Certain	Survey	Unknown	1	30932
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/19	Limosa lapp	WL_REG17		Survey		0	30932
Macroderma gigas	Ghost bat	MAMMAL	VU	21/5/15	1169583	FAUNASURVEY	Certain	Survey	Unknown	0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	22/5/15	1170136	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	19/5/15	1169585	FAUNASURVEY	Certain	Survey	Secondary sign	0	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	20/5/15	1169584	FAUNASURVEY	Certain	Survey	Unknown	4	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/12/13	1031233	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	19/5/15	1169582	FAUNASURVEY	Certain	Survey	Unknown	8	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	27/5/12	564826	FAUNASURVEY	Certain	Survey	Unknown	2	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/12/13	1031232	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/12	564691	FAUNASURVEY	Certain	Survey	Unknown	2	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/12	564693	FAUNASURVEY	Certain	Survey	Unknown	3	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	12/3/10	228278	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	14/3/10	228277	FAUNASURVEY	Certain	Survey	Unknown	1	24180

Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74607	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	27/8/09	74641	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74605	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74606	FAUNASURVEY	Certain	Survey	Unknown	1	24180
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/9/14	1534201|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/9/14	1534202|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	6/7/14	1537700|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	48587
Hirundo rustica	Barn swallow	BIRD	IA	3/3/15	1534239|8	BIRDATA				0	25630
Hydroprogne caspia	Caspian Tern	BIRD	IA	8/8/13	1283612|1	BIRDATA				0	48587
Hirundo rustica	Barn swallow	BIRD	IA	3/12/14	1534221|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	8/12/14	1534223|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	29/11/14	1534218|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	1/12/14	1534219|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	21/11/14	1534216|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	28/11/14	1534217|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	16/11/14	1534196|8	BIRDATA				0	25630
Hirundo rustica	Barn swallow	BIRD	IA	18/11/14	1534188|8	BIRDATA				0	25630
Glareola maldivarum	Oriental pratincole	BIRD	IA	10/2/17	1347903	FAUNASURVEY	Certain	Survey		1	24481
Hirundo rustica	Barn swallow	BIRD	IA	13/11/14	1534211|8	BIRDATA				0	25630
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/1/15	1534230|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/12/14	1534229|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	2/12/14	1534220|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	8/12/14	1534223|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/11/14	1534217|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	1/12/14	1534219|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/11/14	1534213|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/11/14	1534214|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/10/14	1534208|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/11/14	1534211|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	4/10/14	1534204|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/10/14	1534206|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/9/14	1534171|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	30/9/14	1534203|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/6/15	1534248|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/7/15	1571548|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	25/6/15	1534092|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/6/15	1534138|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	10/6/15	1534249|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/6/15	1324069|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	19/5/15	1534134|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	3/6/15	1534245|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/5/15	1534140|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/5/15	1534133|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	12/5/15	1534142|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	14/5/15	1534250|1	BIRDATA				0	48587

Hydroprogne caspia	Caspian Tern	BIRD	IA	28/3/15	1534241|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	12/5/15	1325879|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/1/15	1534237|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	4/3/15	1534193|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/9/78	53657|112	BIRDATLAS1				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/12/78	53656|112	BIRDATLAS1				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/9/17	1988991|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/9/17	1989005|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	22/3/17	1830453|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/5/17	1838459|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	17/11/16	1818376|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	21/3/17	1830898|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/8/15	1534251|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	21/10/16	1808005|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/8/15	1534195|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/8/15	1534252|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/8/15	1534254|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/8/15	1534253|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/7/15	1534247|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	20/8/15	1329327|1	BIRDATA				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/4/05	103954	FAUNASURVEY	Certain	Survey	Unknown	2	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	8/9/08	49993	FAUNASURVEY	Certain	Survey	Unknown	1	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/10/06	481571|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/4/08	498554|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	10/5/03	289467|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	23/6/05	453195|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	6/7/02	412401|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	25/7/02	286752|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/7/01	199311|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	21/8/01	187290|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/8/00	107297|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	7/7/01	289175|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/7/99	36746|112	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	30/8/00	107296|11	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/7/99	30129|112	BIRDATLAS2				0	48587
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/7/99	30121|112	BIRDATLAS2				0	48587
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	13/5/16	1281704	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281705	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281702	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	12/5/16	1281703	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281700	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281701	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217

Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281698	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281699	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281696	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281697	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	5/5/16	1281694	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	6/5/16	1281695	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/4/16	1281692	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/4/16	1281693	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/4/16	1281690	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/4/16	1281691	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	24/5/16	1281720	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	30/5/16	1281721	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	20/5/16	1281718	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	21/5/16	1281719	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281716	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	20/5/16	1281717	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281714	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281715	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	17/5/16	1281712	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	17/5/16	1281713	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281710	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/5/16	1281711	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281708	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281709	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281706	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217

Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281707	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281736	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281737	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281734	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281735	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281732	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281733	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281730	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/6/16	1281731	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281728	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281729	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281726	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281727	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	8/6/16	1281724	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	8/6/16	1281725	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	30/5/16	1281722	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	7/6/16	1281723	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24217
Calidris alba	Sanderling	BIRD	IA	28/3/15	1534241|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	21/10/16	1808036|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	3/3/15	1534239|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	4/3/15	1534240|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	13/2/15	1534234|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	16/2/15	1534235|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	27/1/15	1534237|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	3/2/15	1534238|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	22/1/15	1534233|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	24/1/15	1534236|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	20/1/15	1534232|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	28/12/14	1534229|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	13/1/15	1534230|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	26/12/14	1534226|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	27/12/14	1534228|1	BIRDATA				0	24780

Calidris melanotos	Pectoral Sandpiper	BIRD	IA	30/8/15	1534025|9	BIRDATA				0	24786
Calidris melanotos	Pectoral Sandpiper	BIRD	IA	1/9/15	1534028|9	BIRDATA				0	24786
Calidris ferruginea	curlew sandpiper	BIRD	CR	31/7/99	36746|161	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24784
Calidris melanotos	Pectoral Sandpiper	BIRD	IA	27/8/15	1534026|9	BIRDATA				0	24786
Calidris ferruginea	Curlew Sandpiper	BIRD	CR	1/7/17	1881170|1	BIRDATA				0	24784
Calidris ferruginea	curlew sandpiper	BIRD	CR	20/7/99	36742|161	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24784
Calidris canutus	Red knot	BIRD	EN	13/10/80	AVIF:16667	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	25738
Calidris canutus	Red knot	BIRD	EN	13/10/80	urn:lsid:tax	WAM_BIRDS				0	25738
Calidris alba	sanderling	BIRD	IA	8/9/08	49981	FAUNASURVEY	Certain	Survey	Unknown	1	24780
Calidris alba	sanderling	BIRD	IA	15/7/14	889600	FAUNASURVEY	Certain	Survey	Unknown	1	24780
Calidris alba	sanderling	BIRD	IA	39021	481571|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24780
Calidris alba	sanderling	BIRD	IA	16/4/08	498554|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24780
Calidris alba	sanderling	BIRD	IA	30/7/02	286755|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24780
Calidris alba	sanderling	BIRD	IA	10/5/03	289467|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24780
Calidris alba	Sanderling	BIRD	IA	21/3/17	1830898|1	BIRDATA				0	24780
Calidris alba	sanderling	BIRD	IA	25/7/02	286752|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24780
Calidris ruficollis	Red-necked stint	BIRD	IA	20/11/14	1534215|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	21/11/14	1534216|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	16/11/14	1534213|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	18/11/14	1534214|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	13/11/14	1534211|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	14/11/14	1534212|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/10/14	1534207|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	10/11/14	1534209|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	4/10/14	1534204|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	19/10/14	1534205|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	27/9/14	1534202|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	30/9/14	1534203|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	1/9/14	1534199|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	26/8/14	1534197|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/8/14	1534224|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	22/1/15	1534233|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	24/1/15	1534236|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	20/1/15	1534232|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/12/14	1534229|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	13/1/15	1534230|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	27/12/14	1534173|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	27/12/14	1534228|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	8/12/14	1534223|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	3/12/14	1534221|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	4/12/14	1534222|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	1/12/14	1534219|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	2/12/14	1534220|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/11/14	1534217|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	29/11/14	1534218|1	BIRDATA				0	24788

Calidris ruficollis	Red-necked stint	BIRD	IA	31/10/06	481571|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	8/9/08	49982	FAUNASURVEY	Certain	Survey	Unknown	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	26/7/02	286754|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	1/10/03	426641|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	20/7/99	36742|162	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	7/7/01	289175|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/9/17	1989005|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	21/9/77	20921|162	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	26/6/15	1571539|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	28/6/15	1571537|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	3/3/15	1534239|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	4/3/15	1534240|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	13/2/15	1534234|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	16/2/15	1534235|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	27/1/15	1534237|1	BIRDATA				0	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	3/2/15	1534238|1	BIRDATA				0	24788
Caretta caretta	loggerhead turtle	REPTILE	EN	21/11/14	87934	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	8/2/15	87959	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	21/11/14	87882	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	16/2/15	87894	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	16/12/14	87758	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	12/6/13	87805	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	5/7/15	87464	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	16/12/14	87757	TFAUNA	Certain	Survey	Sighting	1	25335
Calidris tenuirostris	Great knot	BIRD	CR	9/4/19	Calidris ten	WL_REG17		Survey		0	24790
Caretta caretta	loggerhead turtle	REPTILE	EN	1/6/13	85724	TFAUNA	Certain	Survey	Sighting	1	25335
Calidris tenuirostris	Great knot	BIRD	CR	1/7/17	1881170|1	BIRDATA				0	24790
Calidris tenuirostris	Great knot	BIRD	CR	8/9/08	49980	FAUNASURVEY	Certain	Survey	Unknown	1	24790
Calidris ruficollis	Red-necked stint	BIRD	IA	18/3/16	1280820	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	24/8/16	1280821	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	16/7/13	708482	FAUNASURVEY	Not Sure	Survey	Unknown	1	24788
Calidris ruficollis	Red-necked stint	BIRD	IA	18/3/16	1280819	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	24788
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/14	1534204|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	19/10/14	1534205|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/9/14	1534171|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	30/9/14	1534203|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/9/14	1534201|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/9/14	1534202|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/9/14	1534199|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	23/9/14	1534200|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/14	1534224|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	31/8/14	1534198|1	BIRDATA				0	25575
Caretta caretta	loggerhead turtle	REPTILE	EN	9/11/14	88058	TFAUNA	Moderately certain	Survey	Sighting	1	25335
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	26/8/14	1534197|1	BIRDATA				0	25575
Caretta caretta	loggerhead turtle	REPTILE	EN	9/12/14	88005	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	9/12/14	88006	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	31/3/14	87992	TFAUNA	Certain	Survey	Sighting	1	25335
Caretta caretta	loggerhead turtle	REPTILE	EN	6/12/14	87996	TFAUNA	Moderately certain	Survey	Sighting	1	25335

Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	2/12/14	1534220|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/12/14	1534221|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/12/14	1534219|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	2/12/14	1534189|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	20/11/14	1534215|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/11/14	1534218|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	18/11/14	1534214|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	19/11/14	1534227|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/11/14	1534213|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	18/11/14	1534188|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	10/11/14	1534209|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	14/11/14	1534212|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/10/14	1534207|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/10/14	1534208|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/10/14	1534187|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/10/14	1534206|1	BIRDATA				0	25575
Actitis hypoleucos	Common Sandpiper	BIRD	IA	2/8/15	1571516|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	2/8/15	1571545|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	4/3/15	1534240|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/5/15	1325879|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/2/15	1534234|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	4/3/15	1534193|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	26/12/14	1534226|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/1/15	1534174|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/11/14	1534209|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	18/11/14	1534188|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	24/10/14	1534187|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	29/10/14	1534208|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	24/9/14	1534201|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	8/8/13	1283612|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	23/8/14	1550251|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/9/77	20921|157	BIRDATLAS1				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	17/9/78	53654|157	BIRDATLAS1				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/10/16	1808036|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/9/17	1988995|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	30/8/15	1571514|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/10/16	1808005|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	25/8/15	1571513|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/8/15	1534252|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/15	1329326|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/15	1329327|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325942|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/8/15	1325943|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325882|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325939|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	9/8/15	1571515|1	BIRDATA				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	11/8/15	1325878|1	BIRDATA				0	41323

Apus pacificus	Fork-tailed Swift, Pacific Swift	BIRD	IA	8/2/15	1534004 | 3	BIRDATA				0	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	16/4/08	498554 | 33	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25554
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/12/18	Actitis hypo	WL_REG17		Survey		0	41323
Apus pacificus	Fork-tailed Swift, Pacific Swift	BIRD	IA	26/2/14	1534072 | 3	BIRDATA				0	25554
Actitis hypoleucos	common sandpiper	BIRD	IA	8/9/08	49977	FAUNASURVEY	Certain	Survey	Unknown	1	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	14/12/18	Actitis hypo	WL_REG17		Survey		0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/8/02	290104 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/5/03	289467 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	19/7/02	416881 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/7/02	286756 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	15/7/01	199311 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/01	187288 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	3/9/00	107295 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	7/7/01	289175 | 15	BIRDATLAS2				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	26/12/78	53656 | 157	BIRDATLAS1				0	41323
Actitis hypoleucos	Common Sandpiper	BIRD	IA	30/8/00	107296 | 15	BIRDATLAS2				0	41323
Arenaria interpres	Ruddy turnstone	BIRD	IA	23/9/14	1534200 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	30/9/14	1534203 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/8/14	1534224 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	31/8/14	1534198 | 1	BIRDATA				0	25736
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	29/4/17	1347922	FAUNASURVEY	Certain	Survey		1	48573
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	6/5/17	1347923	FAUNASURVEY	Certain	Survey		1	48573
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347920	FAUNASURVEY	Certain	Survey		1	48573
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347921	FAUNASURVEY	Certain	Survey		1	48573
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	28/4/14	889598	FAUNASURVEY	Certain	Survey	Unknown	1	48573
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347919	FAUNASURVEY	Certain	Survey		1	48573
Apus pacificus	Fork-tailed swift	BIRD	IA	28/2/13	700257	FAUNASURVEY	Not Sure	Survey	Unknown	1	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	9/5/14	891342	FAUNASURVEY	Certain	Survey	Unknown	1	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	19/2/12	504814	FAUNASURVEY	Not Sure	Survey	Unknown	1	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	27/2/13	706080	FAUNASURVEY	Not Sure	Survey	Unknown	1	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	19/4/05	102620	FAUNASURVEY	Certain	Survey	Unknown	2	25554
Apus pacificus	Fork-tailed swift	BIRD	IA	11/2/12	504785	FAUNASURVEY	Not Sure	Survey	Unknown	1	25554
Arenaria interpres	Ruddy turnstone	BIRD	IA	24/12/14	1534225 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	26/12/14	1534226 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/12/14	1534222 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	8/12/14	1534223 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	2/12/14	1534220 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	3/12/14	1534221 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	29/11/14	1534218 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	1/12/14	1534219 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	18/11/14	1534214 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	20/11/14	1534215 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	14/11/14	1534212 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	16/11/14	1534213 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	24/10/14	1534206 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	10/11/14	1534209 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/10/14	1534204 | 1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	19/10/14	1534205 | 1	BIRDATA				0	25736

Arenaria interpres	Ruddy turnstone	BIRD	IA	31/10/06	481571|12	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	16/4/08	498554|12	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	21/10/16	1808036|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	31/7/99	36746|129	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	12/5/15	1325879|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/8/15	1534253|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/3/15	1534240|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/3/15	1534241|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	3/2/15	1534238|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	13/2/15	1534234|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	22/1/15	1534233|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/1/15	1534237|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	15/1/15	1534231|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	20/1/15	1534232|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/12/14	1534228|1	BIRDATA				0	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/12/14	1534229|1	BIRDATA				0	25736
Calidris alba	Sanderling	BIRD	IA	23/9/14	1534200|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	24/9/14	1534201|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	28/8/14	1534224|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	1/9/14	1534199|1	BIRDATA				0	24780
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	urn:lsid:tax	WAM_BIRDS				0	24779
Calidris alba	Sanderling	BIRD	IA	26/8/14	1534197|1	BIRDATA				0	24780
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	AVIF:28980	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	urn:lsid:tax	WAM_BIRDS				0	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	8/9/08	49983	FAUNASURVEY	Certain	Survey	Unknown	1	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	AVIF:28979	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	1/10/03	426641|16	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	31/8/11	5088623|1	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	31/8/11	1212782|1	BIRDATA				0	24779
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	26/12/77	43100|163	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24779
Arenaria interpres	Ruddy turnstone	BIRD	IA	17/7/08	5029291|1	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25736
Arenaria interpres	Ruddy turnstone	BIRD	IA	8/9/08	49979	FAUNASURVEY	Certain	Survey	Unknown	1	25736
Calidris alba	Sanderling	BIRD	IA	8/12/14	1534223|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	24/12/14	1534225|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	3/12/14	1534221|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	4/12/14	1534222|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	1/12/14	1534219|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	2/12/14	1534220|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	20/11/14	1534215|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	21/11/14	1534216|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	16/11/14	1534213|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	18/11/14	1534214|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	10/11/14	1534209|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	14/11/14	1534212|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	28/10/14	1534207|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	29/10/14	1534208|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	27/9/14	1534202|1	BIRDATA				0	24780
Calidris alba	Sanderling	BIRD	IA	24/10/14	1534206|1	BIRDATA				0	24780

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474230	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474231	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/6/12	474228	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474229	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	28/6/12	474226	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	28/6/12	474227	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/5/12	564690	FAUNASURVEY	Certain	Survey	Unknown	5	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/5/12	564797	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/5/12	564811	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/12	564719	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564755	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564758	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/7/11	481049	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564745	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481076	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481078	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474249	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474250	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474247	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474248	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474245	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474246	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474243	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474244	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/7/12	474241	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/7/12	474242	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/7/12	474239	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/7/12	474240	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474234	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/7/12	474238	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474232	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474233	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474265	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474266	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474263	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474264	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474261	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474262	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474259	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474260	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474257	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474258	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474255	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474256	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474253	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474254	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474251	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474252	FAUNASURVEY	Certain	Survey	Unknown	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474285	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474286	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474279	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474284	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474277	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474278	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474275	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474276	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474273	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474274	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474271	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474272	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474269	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474270	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474267	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474268	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/6/13	700812	FAUNASURVEY	Not Sure	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031237	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/5/13	648374	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/5/13	648375	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/5/13	648372	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/5/13	648373	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/12	507416	FAUNASURVEY	Not Sure	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/10/12	508770	FAUNASURVEY	Not Sure	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/12	474282	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/12	474290	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474289	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474291	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474287	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474288	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474280	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474281	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170121	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170123	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1169578	FAUNASURVEY	Certain	Survey	Unknown	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1169579	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/10/14	957492	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/10/14	957493	FAUNASURVEY	Certain	Survey	Secondary sign	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031251	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031252	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031248	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031250	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031245	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031247	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031240	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031241	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031238	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031239	FAUNASURVEY	Certain	Survey	Unknown	1	24093

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/8/15	1222701	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265303	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/8/15	1222700	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/8/15	1222699	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/5/15	1169580	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	1207963	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/15	1170128	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/15	1170135	FAUNASURVEY	Certain	Survey	Unknown	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1170126	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/5/15	1170127	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1169581	FAUNASURVEY	Certain	Survey	Unknown	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1170125	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1169577	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1170124	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170129	FAUNASURVEY	Certain	Survey	Secondary sign	0	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1169576	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595453	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595454	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595451	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595452	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595449	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595450	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595447	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595448	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595445	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595446	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/10/17	1347444	FAUNASURVEY	Certain	Survey		1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595444	FAUNASURVEY	Certain	Survey	Historical record	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/16	1265305	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/8/17	1347443	FAUNASURVEY	Certain	Survey		1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265304	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265306	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/1/15	1534236|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/1/15	1534237|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	20/1/15	1534232|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	22/1/15	1534233|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	15/1/15	1534191|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	15/1/15	1534231|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/1/15	1534174|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/1/15	1534230|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/12/14	1534228|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/12/14	1534229|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	26/12/14	1534226|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/12/14	1534173|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/12/14	1534190|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/12/14	1534225|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/12/14	1534222|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	8/12/14	1534172|1	BIRDATA				0	25575

Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	11/8/15	1325878|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/8/15	1534254|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	6/4/15	1534244|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	12/5/15	1325879|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/4/15	1534243|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	6/4/15	1534194|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/3/15	1534241|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/4/15	1534242|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/3/15	1534193|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/3/15	1534240|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/2/15	1534235|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/3/15	1534239|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/2/15	1534175|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/2/15	1534234|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/2/15	1534192|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/2/15	1534238|1	BIRDATA				0	25575
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	11/8/15	1325878|1	BIRDATA				0	25576
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	21/3/17	1830898|1	BIRDATA				0	25576
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/00	urn:lsid:tax	WAM_BIRDS				0	25575
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	6/7/14	1537700|1	BIRDATA				0	25576
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	8/9/08	49988	FAUNASURVEY	Certain	Survey	Unknown	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/00	AVIF:31136	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	31/10/06	481571|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/4/08	498554|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	10/5/03	289467|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	23/6/05	453195|14	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	17/11/16	1818376|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	21/3/17	1830898|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/15	1534252|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	21/10/16	1808005|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/8/15	1534253|1	BIRDATA				0	25575
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/15	1534195|1	BIRDATA				0	25575
Chelonia mydas	Green turtle	REPTILE	VU	4/5/13	87462	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	29/4/13	87463	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	25/1/15	85696	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	28/8/13	85722	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	17/5/16	1280855	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	14/11/14	85474	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	2/10/13	715031	FAUNASURVEY	Not Sure	Survey	Unknown	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	2/10/13	715032	FAUNASURVEY	Not Sure	Survey	Unknown	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	8/6/12	506293	FAUNASURVEY	Not Sure	Survey	Unknown	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	15/11/12	672953	FAUNASURVEY	Certain	Survey	Unknown	6	25336
Charadrius veredus	oriental plover	BIRD	IA	16/10/13	700135	FAUNASURVEY	Not Sure	Survey	Unknown	1	24378
Charadrius veredus	oriental plover	BIRD	IA	16/10/13	700136	FAUNASURVEY	Not Sure	Survey	Unknown	1	24378
Charadrius veredus	Oriental Plover	BIRD	IA	16/9/15	1534029|1	BIRDATA				0	24378
Charadrius veredus	oriental plover	BIRD	IA	21/9/77	20921|142	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24378
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	31/7/99	36746|139	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25576
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	8/9/08	49987	FAUNASURVEY	Certain	Survey	Unknown	1	25576

Chelonia mydas	Green turtle	REPTILE	VU	24/12/13	87892	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	20/11/14	87905	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	20/10/14	87888	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	1/11/14	87889	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	18/11/14	87858	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	26/12/13	87859	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	4/11/13	87842	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87857	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	22/10/14	87837	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	3/11/13	87841	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	25/12/13	87828	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	18/11/14	87834	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	22/12/13	87801	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	17/7/13	87812	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	1/5/13	87492	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	29/5/14	87496	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	19/11/14	88084	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chlidonias leucopterus	White-winged black tern, white-winged tern	BIRD	IA	17/7/08	5029291|1	BIRDATLAS2	Moderately certain	Observational	Sighting	1	41332
Chelonia mydas	Green turtle	REPTILE	VU	16/11/14	88034	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	21/11/14	88066	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	29/4/14	88025	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	17/11/14	88032	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	26/10/13	88009	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	4/12/13	88018	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	4/11/14	87974	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	16/11/14	87985	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	18/10/13	87964	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87970	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	31/10/13	87954	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	31/10/13	87958	TFAUNA	Certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	31/10/14	87930	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87953	TFAUNA	Moderately certain	Survey	Sighting	1	25336
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481071	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481072	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481066	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481068	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481062	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481065	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481051	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481059	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481055	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481050	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481052	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481053	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Crocodylus porosus	Salt-water crocodile	REPTILE	OS	30/3/14	889617	FAUNASURVEY	Certain	Survey	Unknown	1	24859
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/09	80578	FAUNASURVEY	Certain	Survey	Unknown	1	24093
Chlidonias leucopterus	White-winged black tern, white-winged tern	BIRD	IA	13/5/16	1280857	FAUNASURVEY	Not Sure	Survey	Caught or trapped	1	41332

Crocodylus porosus	Salt-water crocodile	REPTILE	OS	8/9/08	49947	FAUNASURVEY	Certain	Survey	Unknown	1	24859
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481069	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481074	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481056	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481060	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481064	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481067	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481057	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481058	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481070	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481075	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481079	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481061	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481073	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481077	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481054	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481063	FAUNASURVEY	WAM Vouchered	Survey	Specimen	1	24093
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/8/13	87856	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/11/14	87862	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87853	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87855	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87851	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87852	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/9/13	87849	TFAUNA	Moderately certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/4/14	87850	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/4/14	87847	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/9/13	87848	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/4/14	87843	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87846	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/6/13	87836	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/10/14	87839	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/4/14	87831	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/4/14	87835	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87878	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/7/13	87879	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87876	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87877	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87874	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87875	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87871	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/8/13	87873	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87869	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87870	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87867	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87868	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/11/14	87865	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87866	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/7/13	87863	TFAUNA	Certain	Survey	Sighting	1	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/7/13	87864	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/3/14	87901	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/8/13	87902	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/7/13	87899	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/7/13	87900	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/11/14	87897	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/4/14	87898	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/7/13	87895	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/7/13	87896	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/7/13	87891	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/4/14	87893	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/8/13	87886	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/8/13	87887	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/8/13	87884	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/4/14	87885	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/8/13	87880	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/7/13	87883	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/5/14	87921	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/8/13	87922	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/8/13	87919	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/8/13	87920	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/2/14	87916	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87917	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/3/14	87913	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/10/14	87915	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/8/13	87911	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/3/14	87912	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/8/13	87909	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/4/14	87910	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/14	87907	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41742	87908	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41551	87904	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41513	87906	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41593	87939	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41709	87940	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41957	87937	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41618	87938	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41482	87935	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41727	87936	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41705	87932	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41941	87933	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41483	87929	TFAUNA	Moderately certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41499	87931	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41484	87927	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41484	87928	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41673	87925	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41486	87926	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41707	87923	TFAUNA	Certain	Survey	Sighting	2	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41504	87924	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41653	87960	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41958	87961	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41687	87956	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41597	87957	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41737	87952	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41592	87955	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41713	87949	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41940	87950	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41549	87947	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41957	87948	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41677	87945	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41474	87946	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41597	87943	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41743	87944	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41959	87941	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41960	87942	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41560	87981	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41560	87982	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41616	87978	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41955	87980	TFAUNA	Moderately certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41710	87976	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41726	87977	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41696	87973	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41551	87975	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41715	87971	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41695	87972	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41674	87967	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41726	87968	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41954	87965	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41565	87966	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41728	87962	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41627	87963	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41573	88003	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41594	88004	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41577	88001	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41573	88002	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41624	87999	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41622	88000	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41566	87997	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41622	87998	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41723	87993	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41570	87994	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41579	87990	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41585	87991	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41698	87986	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41717	87988	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41704	87983	TFAUNA	Certain	Survey	Sighting	4	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41704	87984	TFAUNA	Certain	Survey	Sighting	2	48107
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089010	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089011	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089008	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089009	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1089005	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1089006	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1088999	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1089000	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1088997	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1088998	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1088995	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42151	1088996	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	41942	957547	FAUNASURVEY	Certain	Survey	Secondary sign	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	41942	957548	FAUNASURVEY	Certain	Survey	Secondary sign	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	41620	1031271	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	41942	957546	FAUNASURVEY	Certain	Survey	Secondary sign	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	36706	urn:lsid:tax	WAM_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	37388	MAMM:M5	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	36706	MAMM:M5	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	36706	urn:lsid:tax	WAM_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38849	OYW03|24	PRS_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	36706	MAMM:M5	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42239	1222727	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38848	OYW03|24	PRS_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089018	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089019	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089016	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089017	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089014	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089015	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089012	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	42225	1089013	FAUNASURVEY	Certain	Survey	Unknown	1	24233
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42179	1207968	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42180	1207969	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42146	1170170	FAUNASURVEY	Certain	Survey	Unknown	27	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42146	1170174	FAUNASURVEY	Certain	Survey	Unknown	18	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42144	1169612	FAUNASURVEY	Certain	Survey	Unknown	29	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42145	1169610	FAUNASURVEY	Certain	Survey	Unknown	275	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	41620	1031256	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42143	1169611	FAUNASURVEY	Certain	Survey	Unknown	5	48095

Rhinonicteris aurantia	Orange leaf-nosed bat	MAMMAL	P4		urn:lsid:tax	WAM_MAMMALS				0	43368
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	39988	80634	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38849	urn:lsid:tax	WAM_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	35316	5341	TFAUNA	Moderately certain	Survey	Secondary sign	0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38848	urn:lsid:tax	WAM_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38849	MAMM:M6	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	37388	urn:lsid:tax	WAM_MAMMALS				0	24233
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	38848	MAMM:M6	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	24233
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41993	85475	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41752	85630	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22909	urn:lsid:tax	WAM_MAMMALS				0	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22909	MAMM:M5	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41771	1270963	FAUNASURVEY	Certain	Survey	Unknown	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41927	1270968	FAUNASURVEY	Certain	Survey	Unknown	2	48107
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	9133	5462	TFAUNA	Certain	Historical (written)	Unknown	0	48095
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41759	1270948	FAUNASURVEY	Certain	Survey	Unknown	1	48107
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42859	3374	FAUNASURVEY_WLS	Certain		Acoustic recording	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU		MAMM:M6	WAM_MAMMALS	WAM Vouchered	Collection	Specimen	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42492	1265318	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42495	1265316	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42242	1222740	FAUNASURVEY	Certain	Survey	Unknown	26	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42492	1265317	FAUNASURVEY	Certain	Survey	Unknown	1	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42240	1222741	FAUNASURVEY	Certain	Survey	Unknown	41	48095
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	42241	1222737	FAUNASURVEY	Certain	Survey	Unknown	148	48095
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41725	85645	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41621	85646	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41945	85643	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41727	85644	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41592	85641	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41627	85642	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41949	85639	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41597	85640	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41744	85637	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41707	85638	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41961	85635	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41959	85636	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41747	85633	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41959	85634	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41748	85631	TFAUNA	Certain	Survey	Sighting	2	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41564	85632	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41386	87441	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41420	87461	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41709	85660	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41929	85661	TFAUNA	Certain	Survey	Sighting	8	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41733	85658	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41968	85659	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42163	85656	TFAUNA	Moderately certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41981	85657	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41715	85653	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41929	85655	TFAUNA	Certain	Survey	Sighting	20	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41733	85651	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41929	85652	TFAUNA	Certain	Survey	Sighting	18	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41720	85649	TFAUNA	Certain	Survey	Sighting	6	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41650	85650	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41561	85647	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41598	85648	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41921	87809	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41751	87810	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41922	87807	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41751	87808	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41752	87804	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41753	87806	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41399	87797	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41641	87803	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41399	87794	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41984	87795	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41399	87785	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41935	87790	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41400	87660	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41451	87704	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41526	87470	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41409	87613	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41920	87829	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41748	87830	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41754	87826	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41748	87827	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41913	87824	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41752	87825	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41749	87822	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41442	87823	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41749	87819	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41933	87821	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41750	87817	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41750	87818	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41434	87815	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41754	87816	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41751	87813	TFAUNA	Certain	Survey	Sighting	1	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41753	87814	TFAUNA	Certain	Survey	Sighting	1	48107
Thalasseus bergii	Crested tern	BIRD	IA	42664	1808005|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42816	1830453|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42236	1329326|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42236	1329327|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42181	1534248|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42203	1534247|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42165	1534249|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42180	1534092|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42100	1534244|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42158	1534245|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42066	1534239|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42095	1534242|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42048	1534234|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42051	1534235|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42038	1534192|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42038	1534238|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	39554	498554|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	42908	1347904	FAUNASURVEY	Certain	Survey		1	48597
Thalasseus bergii	Crested tern	BIRD	IA	38526	453195|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	39021	481571|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	37124	187290|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	37467	286755|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	37087	199311|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	37123	187288|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	36769	107297|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	37079	289175|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	36368	30121|115	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	36372	36746|115	BIRDATLAS2	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	43006	1989005|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	29744	149234|11	BIRDATLAS1	Moderately certain	Observational	Sighting	1	48597
Thalasseus bergii	Crested tern	BIRD	IA	42884	1838459|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	43006	1988991|1	BIRDATA				0	48597
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41963	1534215|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41971	1534217|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41961	1534214|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41962	1534227|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41957	1534212|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41959	1534213|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41941	1534208|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41953	1534209|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41936	1534206|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41940	1534207|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41912	1534203|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41931	1534205|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41905	1534200|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41909	1534202|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41877	1534197|1	BIRDATA				0	24803

Tringa brevipes	Grey-tailed tattler	BIRD	IA	41879	1534224|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42067	1534240|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42091	1534241|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42051	1534235|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42066	1534239|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42026	1534233|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42048	1534234|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42019	1534231|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42024	1534232|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42001	1534229|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42017	1534230|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41981	1534172|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41997	1534225|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41976	1534221|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41977	1534222|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41974	1534219|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	41975	1534220|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	39021	481571|15	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	39554	498554|15	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	37087	199311|15	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	37751	289467|15	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	36372	36746|155	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	37079	289175|15	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	43006	1989005|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	36361	36742|155	BIRDATLAS2				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42691	1818376|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	43006	1988995|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42243	1534253|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42664	1808036|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42100	1534244|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42240	1534254|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42095	1534242|1	BIRDATA				0	24803
Tringa brevipes	Grey-tailed tattler	BIRD	IA	42097	1534243|1	BIRDATA				0	24803
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42664	1808005|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42917	1881170|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42248	1534028|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42263	1534029|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42246	1534025|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42246	1571514|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42204	1571532|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42229	1325941|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42182	1571535|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42201	1571533|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42092	1534012|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42180	1571536|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42017	1534174|1	BIRDATA				0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	42019	1534191|1	BIRDATA				0	24808
Tringa brevipes	Grey-tailed tattler	BIRD	IA	39699	49978	FAUNASURVEY	Certain	Survey	Unknown	1	24803

Tringa glareola	Wood sandpiper	BIRD	IA	39699	49976	FAUNASURVEY	Certain	Survey	Unknown	1	24806
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	43560	Tringa nebu	WL_REG17		Survey		0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	43564	Tringa nebu	WL_REG17		Survey		0	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	41339	700858	FAUNASURVEY	Not Sure	Survey	Unknown	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	41339	700859	FAUNASURVEY	Not Sure	Survey	Unknown	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	39699	49975	FAUNASURVEY	Certain	Survey	Unknown	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	41339	700857	FAUNASURVEY	Not Sure	Survey	Unknown	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	39020	481570|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	39021	481571|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	36768	107296|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	37751	289467|15	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	28850	53656|158	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	36366	30122|158	BIRDATLAS2	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	28485	43100|158	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24808
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	28750	53654|158	BIRDATLAS1	Moderately certain	Observational	Sighting	1	24808
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41692	88027	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41703	88028	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41701	88023	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41721	88024	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41613	88021	TFAUNA	Moderately certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41614	88022	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41700	88019	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41709	88020	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41699	88016	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41700	88017	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41648	88014	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41701	88015	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41682	88011	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41581	88012	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41721	88008	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41733	88010	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41672	88049	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41730	88050	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41706	88047	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41657	88048	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41650	88044	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41953	88046	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41713	88042	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42053	88043	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41741	88037	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41707	88038	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41719	88035	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41720	88036	TFAUNA	Certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41692	88031	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41703	88033	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41926	88029	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41980	88030	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41960	88080	TFAUNA	Moderately certain	Survey	Sighting	1	48107

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41964	88081	TFAUNA	Certain	Survey	Sighting	6	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41685	88072	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42065	88073	TFAUNA	Moderately certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41729	88070	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41736	88071	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41693	88064	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41711	88065	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41711	88062	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41651	88063	TFAUNA	Certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41932	88059	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41730	88061	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41693	88055	TFAUNA	Certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41684	88057	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41650	88052	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41732	88053	TFAUNA	Certain	Survey	Sighting	1	48107
Sterna dougallii	Roseate tern	BIRD	IA	42691	1818376|1	BIRDATA				0	25640
Sterna dougallii	Roseate tern	BIRD	IA	37751	289467|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25640
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41967	88108	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41730	88120	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41739	88104	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41926	88106	TFAUNA	Certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42039	88099	TFAUNA	Moderately certain	Survey	Sighting	5	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41710	88100	TFAUNA	Certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42053	88093	TFAUNA	Moderately certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42037	88098	TFAUNA	Moderately certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42049	88091	TFAUNA	Moderately certain	Survey	Sighting	4	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42054	88092	TFAUNA	Moderately certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42050	88089	TFAUNA	Moderately certain	Survey	Sighting	2	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	42045	88090	TFAUNA	Moderately certain	Survey	Sighting	3	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41992	88085	TFAUNA	Moderately certain	Survey	Sighting	1	48107
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	41685	88088	TFAUNA	Certain	Survey	Sighting	1	48107
Sterna hirundo	Common tern	BIRD	IA	41997	1534225|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41999	1534226|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41977	1534222|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41981	1534223|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41963	1534215|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41972	1534218|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41959	1534213|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41961	1534214|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41941	1534208|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41953	1534209|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41936	1534206|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41940	1534207|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41912	1534203|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	41931	1534205|9	BIRDATA				0	25642
Sterna dougallii	Roseate tern	BIRD	IA	39021	481571|11	BIRDATLAS2	Moderately certain	Observational	Sighting	1	25640
Sterna dougallii	Roseate tern	BIRD	IA	39699	49995	FAUNASURVEY	Certain	Survey	Unknown	1	25640
Sterna hirundo	Common tern	BIRD	IA	42095	1534242|9	BIRDATA				0	25642

Sterna hirundo	Common tern	BIRD	IA	42100	1534244|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42066	1534239|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42067	1534240|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42048	1534234|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42051	1534235|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42031	1534237|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42038	1534238|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42026	1534233|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42028	1534236|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42019	1534231|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42024	1534232|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42017	1534230|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42019	1534191|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42000	1534228|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	42001	1534229|9	BIRDATA				0	25642
Sternula albifrons	Little tern	BIRD	IA	42017	1534230|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42019	1534231|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41981	1534172|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42000	1534173|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41974	1534219|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41975	1534220|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41971	1534217|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41972	1534218|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41963	1534215|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41964	1534216|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41959	1534213|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	41961	1534214|1	BIRDATA				0	48593
Sterna hirundo	Common tern	BIRD	IA	41894	891370	FAUNASURVEY	Certain	Survey	Unknown	1	25642
Sternula albifrons	Little tern	BIRD	IA	41953	1534209|1	BIRDATA				0	48593
Sterna hirundo	Common tern	BIRD	IA	42815	1830898|9	BIRDATA				0	25642
Sterna hirundo	Common tern	BIRD	IA	39699	49996	FAUNASURVEY	Certain	Survey	Unknown	1	25642
Thalasseus bergii	Crested tern	BIRD	IA	42026	1534233|1	BIRDATA				0	48597
Thalasseus bergii	Crested tern	BIRD	IA	42031	1534237|1	BIRDATA				0	48597
Sternula nereis nereis	Fairy tern	BIRD	VU	17453	AVIF:18888	WAM_BIRDS	WAM Vouchered	Collection	Specimen	1	48595
Thalasseus bergii	Crested tern	BIRD	IA	41977	1534222|1	BIRDATA				0	48597
Sternula albifrons	Little tern	BIRD	IA	39699	49997	FAUNASURVEY	Certain	Survey	Unknown	1	48593
Sternula nereis nereis	Fairy tern	BIRD	VU	17453	urn:lsid:tax	WAM_BIRDS				0	48595
Sternula albifrons	Little tern	BIRD	IA	37467	286755|11	BIRDATLAS2				0	48593
Sternula albifrons	Little tern	BIRD	IA	39021	481571|11	BIRDATLAS2				0	48593
Sternula albifrons	Little tern	BIRD	IA	37087	199311|11	BIRDATLAS2				0	48593
Sternula albifrons	Little tern	BIRD	IA	37465	286756|11	BIRDATLAS2				0	48593
Sternula albifrons	Little tern	BIRD	IA	42066	1534239|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42095	1534242|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42048	1534234|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42051	1534235|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42026	1534233|1	BIRDATA				0	48593
Sternula albifrons	Little tern	BIRD	IA	42031	1534237|1	BIRDATA				0	48593
Natator depressus	Flatback turtle	REPTILE	VU	43123	41742	FAUNASURVEY_WLS	Not Sure		Clutch Count	61	25344

Natator depressus	Flatback turtle	REPTILE	VU	43123	41743	FAUNASURVEY_WLS	Not Sure	Clutch Count	42	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41735	FAUNASURVEY_WLS	Not Sure	Clutch Count	46	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41741	FAUNASURVEY_WLS	Not Sure	Clutch Count	44	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41733	FAUNASURVEY_WLS	Not Sure	Clutch Count	31	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41734	FAUNASURVEY_WLS	Not Sure	Clutch Count	49	25344
Natator depressus	Flatback turtle	REPTILE	VU	43122	41761	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41731	FAUNASURVEY_WLS	Not Sure	Clutch Count	51	25344
Natator depressus	Flatback turtle	REPTILE	VU	43122	41759	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43122	41760	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43122	41757	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43122	41758	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43078	41755	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43081	41756	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	42772	41833	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	42776	2883	FAUNASURVEY_WLS	Not Sure	Nest fan measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41764	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41765	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41749	FAUNASURVEY_WLS	Not Sure	Clutch Count	37	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41763	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41745	FAUNASURVEY_WLS	Not Sure	Clutch Count	51	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41746	FAUNASURVEY_WLS	Not Sure	Clutch Count	28	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41740	FAUNASURVEY_WLS	Not Sure	Clutch Count	42	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41744	FAUNASURVEY_WLS	Not Sure	Clutch Count	26	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41738	FAUNASURVEY_WLS	Not Sure	Clutch Count	32	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41739	FAUNASURVEY_WLS	Not Sure	Clutch Count	45	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41736	FAUNASURVEY_WLS	Not Sure	Clutch Count	49	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41737	FAUNASURVEY_WLS	Not Sure	Clutch Count	46	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41762	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43124	41732	FAUNASURVEY_WLS	Not Sure	Clutch Count	45	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41747	FAUNASURVEY_WLS	Not Sure	Clutch Count	49	25344
Natator depressus	Flatback turtle	REPTILE	VU	43123	41748	FAUNASURVEY_WLS	Not Sure	Clutch Count	33	25344
Natator depressus	Flatback turtle	REPTILE	VU	43125	41775	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344
Natator depressus	Flatback turtle	REPTILE	VU	43125	41776	FAUNASURVEY_WLS	Not Sure	Nest Fan Measurement	1	25344

NAME_SCI	NAME_COM	CLASS	CONS_CODE	Date	SOURCE_ID	SOURCE	CERTAINTY
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41773	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41774	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41771	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41772	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41769	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41770	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41754	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41768	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41752	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41753	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41750	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41751	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41766	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41767	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41791	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41792	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41789	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41790	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41787	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41788	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41785	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41786	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41783	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	41784	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41781	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41782	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41779	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41780	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41777	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41778	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41807	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41808	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41805	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41806	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41803	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41804	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41801	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41802	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41799	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41800	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41797	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41798	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41795	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41796	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	41793	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	41794	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	27/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	Natator depre	WL_REG17	

Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	9/12/17	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41815	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU		Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41813	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41814	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41811	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41812	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	41809	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	30/1/18	41810	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	8/4/14	87951	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	29/11/14	88007	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	16/11/14	87860	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	16/11/14	87918	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	24/11/14	87832	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	22/6/13	87854	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	13/11/14	87793	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	23/11/14	87811	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	87529	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	15/11/14	87787	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	26/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	29/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	28/1/18	Natator depre	WL_REG17	
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	Natator depre	WL_REG17	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	13/8/09	228545	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228549	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	10/8/09	228546	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	13/8/09	228544	FAUNASURVEY	Certain
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	7/10/15	1127449	FAUNASURVEY	Certain
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	8/10/15	1127448	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	93209	TFAUNA	Very Certain (photo, specimen, expert)
Nedsia hurlberti	a freshwater amphipod	INVERTEBRATE	VU	9/5/15	1127447	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	93207	TFAUNA	Very Certain (photo, specimen, expert)
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	93208	TFAUNA	Very Certain (photo, specimen, expert)
Natator depressus	Flatback turtle	REPTILE	VU	9/11/14	88111	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	9/11/14	88112	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	6/11/14	88068	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	6/11/14	88069	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	28/11/14	88041	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	11/1/15	88051	TFAUNA	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9687	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9688	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9684	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	9685	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9683	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9686	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	9689	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	9682	FAUNASURVEY_WLS	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	1282534	FAUNASURVEY	Certain

Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	1282535	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	3/5/16	1265274	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	4/5/16	1265275	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	1/5/16	1265272	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	2/5/16	1265273	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	8/8/15	1088844	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	9/8/15	1088845	FAUNASURVEY	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	19/8/13	85700	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	27/8/13	85701	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85698	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	8/8/13	85699	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85674	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	85688	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85672	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85673	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	13/8/15	85654	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	28/8/13	85671	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	5/9/13	85526	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	19/8/13	85529	TFAUNA	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/5/16	Macroderma g	WL_REG17	
Macroderma gigas	Ghost bat	MAMMAL	VU	11/5/16	Macroderma g	WL_REG17	
Macroderma gigas	Ghost bat	MAMMAL	VU	5/10/16	Macroderma g	WL_REG17	
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/16	Macroderma g	WL_REG17	
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	22/7/13	85904	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	9/7/13	86954	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/9/13	85783	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	5/8/13	85902	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85721	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	12/8/13	85723	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85716	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85717	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	29/8/13	85713	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	23/8/13	85714	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85709	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	18/8/13	85710	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85704	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	27/8/13	85705	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	29/8/13	85702	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	24/8/13	85703	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	3/3/10	121164	FAUNASURVEY	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	3/3/12	672949	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	14/12/09	121180	FAUNASURVEY	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	16/12/09	121185	FAUNASURVEY	Moderately certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	3/8/15	88113	TFAUNA	Moderately certain
Natator depressus	Flatback turtle	REPTILE	VU	28/10/09	121122	FAUNASURVEY	Moderately certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	7/8/13	87903	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	11/8/13	87987	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	21/8/13	87872	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	9/8/13	87881	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	13/6/13	87845	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	3/8/13	87861	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	8/8/13	87516	TFAUNA	Certain

Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	87569	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	17/7/13	87484	TFAUNA	Certain
Megaptera novaeangliae	Humpback whale	MAMMAL	CD	26/8/13	87510	TFAUNA	Certain
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	41816	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2869	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	30/1/14	883407	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	1/2/17	2884	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115111	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	30/1/14	883401	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115108	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	1115110	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883406	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883409	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883408	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	20/12/13	883400	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883399	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	5/11/13	883405	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	15/11/12	672947	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	17/1/13	672948	FAUNASURVEY	Certain
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2873	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2876	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2880	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2866	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2870	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2879	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41820	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	3/2/17	2867	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41818	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41819	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2888	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	41817	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2886	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2887	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2881	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	2/2/17	2885	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41825	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2868	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41823	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41824	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2893	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	41822	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2891	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2892	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2882	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2890	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2877	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2878	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2874	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	5/2/17	2875	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	2889	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	4/2/17	41821	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41831	FAUNASURVEY_WLS	Not Sure

Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41832	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41829	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41830	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41827	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41828	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2901	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41826	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2899	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2900	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2897	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2898	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2895	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2896	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2871	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	2894	FAUNASURVEY_WLS	Not Sure
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328806	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328807	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328804	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328805	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235592	FAUNASURVEY	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235594	FAUNASURVEY	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235590	FAUNASURVEY	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235591	FAUNASURVEY	Certain
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	6/2/07	15019	TFAUNA	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1235589	FAUNASURVEY	Certain
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	7/10/10	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	15013	TFAUNA	Certain
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	7/10/10	ARACH:11081	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23107	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23108	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23105	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23106	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23100	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23101	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23095	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23099	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	15/9/16	1329050	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	27/5/17	23135	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1328911	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	15/9/16	1329049	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1235527	FAUNASURVEY	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1328910	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	10/8/15	1328809	FAUNASURVEY	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	29/9/15	1235526	FAUNASURVEY	Certain
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:65761	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:65762	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	28/5/08	urn:lsid:taxor	WAM_ARACHNIDS	

Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		ARACH:65760	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23119	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	28/5/08	ARACH:92205	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23117	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23118	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23115	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23116	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23111	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23112	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23109	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	23110	FAUNASURVEY_WLS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:63315	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:63316	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:63313	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:63314	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	3/5/05	15043	TFAUNA	Certain
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	ARACH:63312	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	25/5/18	Paradraculoic	WL_REG17	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	8/4/18	Paradraculoic	WL_REG17	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	27/5/17	Paradraculoic	WL_REG17	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	17/7/18	Paradraculoic	WL_REG17	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU		urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides bythius	Mesa B/C paradraculoides	INVERTEBRATE	VU	12/7/17	Paradraculoic	WL_REG17	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	16/4/08	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:99562	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	12/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	16/4/08	ARACH:92203	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	12/7/05	ARACH:65803	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	ARACH:63372	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	2/6/05	ARACH:63371	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	ARACH:63370	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	27/5/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	1/6/05	ARACH:63346	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/12/04	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	27/5/05	ARACH:63345	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	3/5/05	15044	TFAUNA	Certain
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		ARACH:65764	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU		ARACH:65763	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:12018	WAM_ARACHNIDS	WAM Vouchered

Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:12019	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	22/10/11	ARACH:12018	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:99563	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/10/09	ARACH:99564	WAM_ARACHNIDS	WAM Vouchered
Pluvialis squatarola	Grey plover	BIRD	IA	24/12/14	1534225|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	13/1/15	1534174|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	30/9/14	1534203|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	19/10/14	1534205|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	23/9/14	1534200|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	27/9/14	1534202|136	BIRDATA	
Plegadis falcinellus	Glossy ibis	BIRD	IA	19/7/15	1571532|178	BIRDATA	
Plegadis falcinellus	Glossy ibis	BIRD	IA	2/8/15	1571516|178	BIRDATA	
Pezoporus occidentalis	Night parrot	BIRD	CR	1/1/67	192	TFAUNA	Moderately certain
Plegadis falcinellus	Glossy ibis	BIRD	IA	16/7/15	1571533|178	BIRDATA	
Perameles bougainville	Western barred bandicoot, little marl, Shark Bay bandicoot	MAMMAL	VU		urn:lsid:taxor	WAM_MAMMALS	
Perameles bougainville	Western barred bandicoot, little marl, Shark Bay bandicoot	MAMMAL	VU		MAMM:M160	WAM_MAMMALS	WAM Vouchered
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15047	TFAUNA	Certain
Paradraculoides kryptus	Mesa K paradraculoides	INVERTEBRATE	VU	14/7/18	Paradraculoic	WL_REG17	
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15045	TFAUNA	Certain
Paradraculoides gnophicola	Mesa G paradraculoides	INVERTEBRATE	VU	21/11/04	15046	TFAUNA	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	26/9/13	718202	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	26/9/13	718262	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	19/4/05	103892	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	24/5/12	564764	FAUNASURVEY	Certain
Pristis zijsron	Green sawfish	FISH	VU	12/6/13	711494	FAUNASURVEY	Not Sure
Pristis zijsron	Green sawfish	FISH	VU	21/11/14	992527	FAUNASURVEY	Certain
Pristis zijsron	Green sawfish	FISH	VU	24/10/11	598716	FAUNASURVEY	Certain
Pristis zijsron	Green sawfish	FISH	VU	10/6/13	711453	FAUNASURVEY	Not Sure
Pristis zijsron	Green sawfish	FISH	VU	14/4/11	598683	FAUNASURVEY	Certain
Pristis zijsron	Green sawfish	FISH	VU	15/4/11	598704	FAUNASURVEY	Certain
Pluvialis squatarola	Grey plover	BIRD	IA	31/10/06	481571|136	BIRDATLAS2	Moderately certain
Pristis pristis	Freshwater sawfish	FISH	P3	15/4/11	598705	FAUNASURVEY	Certain
Pluvialis squatarola	Grey plover	BIRD	IA	22/1/15	1534233|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	20/7/99	36742|136	BIRDATLAS2	Moderately certain
Pluvialis squatarola	Grey plover	BIRD	IA	13/1/15	1534230|136	BIRDATA	
Pluvialis squatarola	Grey plover	BIRD	IA	15/1/15	1534231|136	BIRDATA	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/3/05	REPT:R11087	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/3/05	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/05	REPT:R11078	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/05	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/7/91	REPT:R10861	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	16/7/91	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	17/3/10	228555	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	22/8/15	1222892	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228556	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	17/3/10	228553	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228552	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	15/3/10	228554	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	14/3/10	228551	FAUNASURVEY	Certain

Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	14/3/10	228566	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228550	FAUNASURVEY	Certain
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	12/3/10	228565	FAUNASURVEY	Certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/12/14	1534229|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	13/1/15	1534174|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	26/12/14	1534226|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	27/12/14	1534228|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	2/12/14	1534189|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	24/12/14	1534225|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	24/10/14	1534187|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	18/11/14	1534188|149	BIRDATA	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	3/5/05	REPT:R11089	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	3/5/05	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	urn:lsid:taxor	WAM_REPTILES	
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	REPT:R11089	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	2/5/05	REPT:R11089	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	18/3/05	REPT:R11083	WAM_REPTILES	WAM Vouchered
Notoscincus butleri	Lined soil-crevice skink (Dampier)	REPTILE	P4	18/3/05	urn:lsid:taxor	WAM_REPTILES	
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	10/6/66	4116	TFAUNA	Certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	31/10/06	481571|149	BIRDATLAS2	Moderately certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	5/4/19	Numenius ma	WL_REG17	
Numenius madagascariensis	Eastern curlew	BIRD	CR	29/7/02	286757|149	BIRDATLAS2	Moderately certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	31/7/02	286758|149	BIRDATLAS2	Moderately certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/9/17	1988991|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	15/7/01	199311|149	BIRDATLAS2	Moderately certain
Numenius madagascariensis	Eastern curlew	BIRD	CR	24/8/15	1534254|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	28/8/15	1534195|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	13/2/15	1534175|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	4/3/15	1534193|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	15/1/15	1534191|149	BIRDATA	
Numenius madagascariensis	Eastern curlew	BIRD	CR	3/2/15	1534192|149	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	3/3/15	1534239|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	4/3/15	1534193|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	3/2/15	1534192|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	16/2/15	1534235|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	24/12/14	1534225|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	15/1/15	1534191|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	1/12/14	1534219|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	2/12/14	1534220|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	14/11/14	1534212|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	18/11/14	1534214|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	24/9/14	1534201|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	19/10/14	1534205|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	26/8/14	1534197|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	23/9/14	1534200|150	BIRDATA	
Numenius minutus	Little curlew, little whimbrel	BIRD	IA	21/10/16	1808036|151	BIRDATA	
Numenius minutus	Little curlew, little whimbrel	BIRD	IA	1/10/03	426641|151	BIRDATLAS2	Moderately certain
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/11/14	1534216|241	BIRDATA	

Pandion cristatus	Osprey, eastern osprey	BIRD	IA	4/12/14	1534222|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	11/11/14	1534210|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	18/11/14	1534214|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/8/14	1534224|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	10/11/14	1534209|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/8/13	1283612|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	11/6/14	1359292|241	BIRDATA	
Oceanites oceanicus	Wilson's storm-petrel	BIRD	IA	7/6/13	715039	FAUNASURVEY	Not Sure
Ophisternon candidum	Blind cave eel	FISH	VU	1/1/09	96374	TFAUNA	Certain
Numenius phaeopus	Whimbrel	BIRD	IA	16/4/08	498554|150	BIRDATLAS2	Moderately certain
Numenius phaeopus	Whimbrel	BIRD	IA	8/9/08	49974	FAUNASURVEY	Certain
Numenius phaeopus	Whimbrel	BIRD	IA	22/3/17	1830453|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	31/10/06	481571|150	BIRDATLAS2	Moderately certain
Numenius phaeopus	Whimbrel	BIRD	IA	1/4/15	1534242|150	BIRDATA	
Numenius phaeopus	Whimbrel	BIRD	IA	28/8/15	1534195|150	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/3/17	1830455|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	29/6/17	1995345|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	13/8/15	1325943|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	25/8/15	1571547|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/8/15	1534246|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	12/8/15	1325942|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	3/6/15	1534181|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	18/7/15	1534247|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	4/3/15	1534240|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	12/5/15	1325879|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/1/15	1534237|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	13/2/15	1534234|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/12/14	1534229|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	20/1/15	1534232|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	24/12/14	1534190|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/12/14	1534228|241	BIRDATA	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	19/5/04	459509|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	31/10/06	481571|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/7/02	286753|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	10/5/03	289467|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	21/8/01	187290|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	6/7/02	412401|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	7/7/01	289175|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	15/7/01	199311|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	31/7/99	36746|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	29/8/99	44795|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	27/7/99	30121|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	28/7/99	40644|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/9/78	53654|241	BIRDATLAS1	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/12/78	53656|241	BIRDATLAS1	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	26/12/77	43100|241	BIRDATLAS1	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	15/9/78	53657|241	BIRDATLAS1	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66235	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	urn:lsid:taxor	WAM_ARACHNIDS	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66232	WAM_ARACHNIDS	WAM Vouchered

Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66233	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66230	WAM_ARACHNIDS	WAM Vouchered
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66231	WAM_ARACHNIDS	WAM Vouchered
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	5/4/19	Pandion halia	WL_REG17	
Paradraculoides anachoretus	Mesa A paradraculoides	INVERTEBRATE	VU	25/7/05	ARACH:66228	WAM_ARACHNIDS	WAM Vouchered
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	8/9/08	49961	FAUNASURVEY	Certain
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	23/6/13	710012	FAUNASURVEY	Not Sure
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	7/8/08	5032737|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/4/05	103873	FAUNASURVEY	Certain
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	16/4/08	498554|241	BIRDATLAS2	
Pandion cristatus	Osprey, eastern osprey	BIRD	IA	17/7/08	5029291|241	BIRDATLAS2	
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6268	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6269	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6235	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6236	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/9/15	6277	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/9/15	6234	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/9/15	6232	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/9/15	6233	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/9/15	6230	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/9/15	6231	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/8/15	6229	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/8/15	6266	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6265	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/8/15	6228	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6227	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6264	PILBTFAUNA	Very certain
Dugong dugon	Dugong	MAMMAL	OS	13/7/12	852989	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	25/8/12	507516	FAUNASURVEY	Not Sure
Dugong dugon	Dugong	MAMMAL	OS	10/5/12	852934	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	10/5/12	852936	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/10/17	93202	TFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/12/17	93203	TFAUNA	Very Certain (photo, specimen, expert)
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		urn:lsid:taxor	WAM_MAMMALS	
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		14172	TFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/10/15	6276	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		MAMM:M232	WAM_MAMMALS	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/10/15	6274	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/10/15	6275	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/10/15	6272	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/10/15	6273	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/9/15	6270	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/9/15	6271	PILBTFAUNA	Very certain
Dugong dugon	Dugong	MAMMAL	OS	4/5/13	819332	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	6/5/13	819809	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	27/4/13	819869	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	4/5/13	818978	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853237	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	10/12/12	853232	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853234	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853236	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	1/12/12	853192	FAUNASURVEY	Certain

Dugong dugon	Dugong	MAMMAL	OS	8/12/12	853233	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853091	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	19/10/12	853148	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853089	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	12/10/12	853090	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	3/10/12	853084	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	3/10/12	853085	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	17/10/14	1270881	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	17/10/14	1270886	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270859	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270860	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270845	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	15/10/14	1270856	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270841	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	13/5/14	1270843	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819759	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	1/5/14	1270761	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819529	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819610	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	19/10/13	820051	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	23/10/13	819447	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	11/10/13	819838	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	19/10/13	820045	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	27/3/14	87473	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	10/5/13	87474	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	24/8/13	87471	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	27/3/14	87472	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	12/4/14	87467	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	30/10/14	87469	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	17/11/13	87456	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	4/11/14	87459	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85682	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85683	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85680	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	7/5/14	85681	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS		urn:lsid:taxor	WAM_MAMMALS	
Dugong dugon	Dugong	MAMMAL	OS		urn:lsid:taxor	WAM_MAMMALS	
Dugong dugon	Dugong	MAMMAL	OS		MAMM:M203	WAM_MAMMALS	WAM Vouchered
Dugong dugon	Dugong	MAMMAL	OS		MAMM:M286	WAM_MAMMALS	WAM Vouchered
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88079	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	19/11/14	88082	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	11/10/14	88077	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	16/10/14	88078	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	10/10/14	88075	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88076	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	4/4/14	88060	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	9/10/14	88074	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	31/10/14	88054	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	25/10/14	88056	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	29/10/13	88013	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	7/11/14	88045	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	1/11/14	87890	TFAUNA	Certain

Dugong dugon	Dugong	MAMMAL	OS	16/11/14	87914	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	14/9/13	87483	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	2/5/13	87486	TFAUNA	Certain
Falco peregrinus	Peregrine falcon	BIRD	OS	10/8/02	290104|237	BIRDATLAS2	Moderately certain
Falco peregrinus	Peregrine falcon	BIRD	OS	18/4/05	102892	FAUNASURVEY	Certain
Falco hypoleucos	Grey falcon	BIRD	VU	20/5/15	1169466	FAUNASURVEY	Certain
Falco hypoleucos	Grey falcon	BIRD	VU	20/5/15	1169893	FAUNASURVEY	Certain
Dugong dugon	Dugong	MAMMAL	OS	8/12/13	88119	TFAUNA	Certain
Eretmochelys imbricata	Hawksbill turtle	REPTILE	VU	11/7/13	87581	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	4/4/15	88107	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	1/12/14	88118	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	29/11/14	88097	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	10/10/14	88103	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	4/11/14	88095	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	6/11/14	88096	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	16/10/14	88087	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	31/10/14	88094	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	19/11/14	88083	TFAUNA	Certain
Dugong dugon	Dugong	MAMMAL	OS	20/12/14	88086	TFAUNA	Certain
Glareola maldivarum	Oriental pratincole	BIRD	IA	24/1/13	709039	FAUNASURVEY	Not Sure
Glareola maldivarum	Oriental pratincole	BIRD	IA	16/2/13	700976	FAUNASURVEY	Not Sure
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	12/12/18	Gelochelidon	WL_REG17	
Glareola maldivarum	Oriental pratincole	BIRD	IA	8/9/08	49990	FAUNASURVEY	Certain
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	8/9/08	49992	FAUNASURVEY	Certain
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	18/1/16	1282049	FAUNASURVEY	Not Sure
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	31/10/06	481571|111	BIRDATLAS2	
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	16/4/08	498554|111	BIRDATLAS2	
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	1/10/03	426641|111	BIRDATLAS2	
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	30/10/06	481570|111	BIRDATLAS2	
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	17/9/78	53654|111	BIRDATLAS1	
Gelochelidon nilotica	Gull-billed tern	BIRD	IA	31/7/99	36746|111	BIRDATLAS2	
Falco peregrinus	Peregrine falcon	BIRD	OS	9/5/17	1356550	FAUNASURVEY	Certain
Falco peregrinus	Peregrine falcon	BIRD	OS	27/7/17	1356551	FAUNASURVEY	Certain
Falco peregrinus	Peregrine falcon	BIRD	OS	6/2/12	504779	FAUNASURVEY	Not Sure
Falco peregrinus	Peregrine falcon	BIRD	OS	19/5/15	1169467	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595475	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595476	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595468	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595469	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595466	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595467	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595464	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595465	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595462	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595463	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595460	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595461	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595458	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595459	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595456	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595457	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36638	FAUNASURVEY_WLS	Certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/4/17	36641	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36636	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/4/17	36637	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36634	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36635	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/4/17	36630	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/4/17	36633	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36628	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/4/17	36629	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36626	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/4/17	36627	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595479	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595480	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595477	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595478	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	3679	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	3680	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3677	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3678	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3675	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3676	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	17/10/12	3498	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/4/14	3674	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36651	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/17	36653	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36648	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/17	36649	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36644	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36645	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36642	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/4/17	36643	FAUNASURVEY_WLS	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3927	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3928	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3925	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3926	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3923	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3924	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/9/14	3920	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/9/14	3922	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/9/14	3917	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/9/14	3918	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/14	5647	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/5/14	5810	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5645	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5646	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5643	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/14	5644	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6206	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6239	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/15	6238	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6205	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/5/15	6203	PILBTFAUNA	Very certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/15	6204	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	6202	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	6282	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6237	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6283	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6200	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	6201	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3931	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/9/14	3932	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3929	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/9/14	3930	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/6/15	6244	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/6/15	6217	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/6/15	6243	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/6/15	6216	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6214	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6215	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6212	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	31/5/15	6213	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6242	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/5/15	6211	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6210	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6241	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6208	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6209	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	27/5/15	6240	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/5/15	6207	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6281	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/6/15	6257	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6255	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	6256	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6254	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6280	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/6/15	6252	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/6/15	6253	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	18/6/15	6250	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/6/15	6251	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/6/15	6248	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	18/6/15	6249	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/6/15	6246	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/6/15	6247	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/6/15	6245	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/6/15	6218	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6225	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6226	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6223	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/8/15	6224	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/15	6222	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/15	6263	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/8/15	6262	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/8/15	6279	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/8/15	6221	PILBTFAUNA	Very certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/8/15	6261	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/8/15	6259	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/8/15	6260	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/8/15	6220	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/8/15	6278	PILBTFAUNA	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/7/15	6258	PILBTFAUNA	Very certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/8/15	6219	PILBTFAUNA	Very certain
Lerista planiventralis maryani	Maryan's keeled slider (Ashburton)	REPTILE	P1	11/3/90	urn:lsid:taxor	WAM_REPTILES	
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	5/3/12	482872	FAUNASURVEY	WAM Vouchered
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	9/4/18	Leiopotherap	WL_REG17	
Lerista planiventralis maryani	Maryan's keeled slider (Ashburton)	REPTILE	P1	11/3/90	REPT:R10433	WAM_REPTILES	WAM Vouchered
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	7/4/18	Leiopotherap	WL_REG17	
Leiopotherapon aheneus	Fortescue grunter	FISH	P4	12/5/18	Leiopotherap	WL_REG17	
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	14/9/03	MAMM:M490	WAM_MAMMALS	WAM Vouchered
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	14/9/03	urn:lsid:taxor	WAM_MAMMALS	
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	25/8/16	1281744	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/10/16	1281745	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	19/6/16	1281742	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	28/7/16	1281743	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281740	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/6/16	1281741	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281738	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281739	FAUNASURVEY	Not Sure
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/9/14	1534171|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	30/9/14	1534203|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/9/14	1534201|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/9/14	1534202|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/9/14	1534199|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	23/9/14	1534200|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/8/14	1534224|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	31/8/14	1534198|153	BIRDATA	
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	20/5/15	1169689	FAUNASURVEY	Certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/7/14	1537700|153	BIRDATA	
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	30/3/13	607357	FAUNASURVEY	Certain
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	14/5/13	648381	FAUNASURVEY	Certain
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	2/9/12	507858	FAUNASURVEY	Not Sure
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	21/10/12	607356	FAUNASURVEY	Certain
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	25/5/12	564718	FAUNASURVEY	Certain
Liasis olivaceus barroni	Pilbara olive python	REPTILE	VU	5/8/12	482871	FAUNASURVEY	WAM Vouchered
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/11/14	1534218|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/12/14	1534219|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/11/14	1534216|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/11/14	1534217|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	19/11/14	1534227|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	20/11/14	1534215|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	16/11/14	1534213|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	18/11/14	1534214|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/11/14	1534211|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	14/11/14	1534212|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	29/10/14	1534208|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	10/11/14	1534209|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/10/14	1534206|153	BIRDATA	

Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/10/14	1534207|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/10/14	1534204|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	19/10/14	1534205|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	22/1/15	1534233|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/1/15	1534236|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/1/15	1534231|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	20/1/15	1534232|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/1/15	1534174|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/1/15	1534230|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/12/14	1534228|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/12/14	1534229|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	24/12/14	1534225|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/14	1534226|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/12/14	1534172|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/12/14	1534223|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/12/14	1534221|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/12/14	1534222|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	2/12/14	1534189|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	2/12/14	1534220|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	14/5/15	1534250|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/8/15	1534252|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/15	1534194|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/15	1534244|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/4/15	1534242|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/4/15	1534243|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/3/15	1534240|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/3/15	1534241|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/3/15	1534239|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	4/3/15	1534193|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/2/15	1534234|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	16/2/15	1534235|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/2/15	1534238|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	13/2/15	1534175|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	27/1/15	1534237|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	3/2/15	1534192|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	23/6/05	453195|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	31/10/06	481571|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	30/7/02	286755|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	10/5/03	289467|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/7/02	412401|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	25/7/02	286752|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/78	53656|153	BIRDATLAS1	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/7/01	199311|153	BIRDATLAS2	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	26/12/77	43104|153	BIRDATLAS1	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	15/9/78	53657|153	BIRDATLAS1	Moderately certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	1/7/17	1881170|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	28/9/17	1989005|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	17/11/16	1818376|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/3/17	1830898|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/10/16	1808005|153	BIRDATA	
Limosa lapponica	Bar-tailed godwit	BIRD	IA	21/10/16	1808036|153	BIRDATA	
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74603	FAUNASURVEY	Certain

Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74604	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74601	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74602	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74599	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74600	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	24/6/09	80647	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74598	FAUNASURVEY	Certain
Limosa limosa	Black-tailed godwit	BIRD	IA	26/12/77	43100|152	BIRDATLAS1	Moderately certain
Limosa limosa	Black-tailed godwit	BIRD	IA	26/12/78	53656|152	BIRDATLAS1	Moderately certain
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR	14/1/01	urn:lsid:taxor	WAM_BIRDS	
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR		urn:lsid:taxor	WAM_BIRDS	
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR	14/1/01	AVIF:28928	WAM_BIRDS	WAM Vouchered
Limosa lapponica menzbieri	Bar-tailed godwit (northern Siberian)	BIRD	CR		AVIF:31284	WAM_BIRDS	WAM Vouchered
Limosa lapponica	Bar-tailed godwit	BIRD	IA	8/9/08	49973	FAUNASURVEY	Certain
Limosa lapponica	Bar-tailed godwit	BIRD	IA	6/4/19	Limosa lappor	WL_REG17	
Macroderma gigas	Ghost bat	MAMMAL	VU	21/5/15	1169583	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	22/5/15	1170136	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	19/5/15	1169585	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	20/5/15	1169584	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/12/13	1031233	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	19/5/15	1169582	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	27/5/12	564826	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/12/13	1031232	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/12	564691	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	26/5/12	564693	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	12/3/10	228278	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	14/3/10	228277	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74607	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	27/8/09	74641	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74605	FAUNASURVEY	Certain
Macroderma gigas	Ghost bat	MAMMAL	VU	23/8/09	74606	FAUNASURVEY	Certain
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/9/14	1534201|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/9/14	1534202|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	6/7/14	1537700|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	23/9/14	1534200|112	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	3/3/15	1534239|879	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	8/8/13	1283612|112	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	3/12/14	1534221|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	8/12/14	1534223|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	29/11/14	1534218|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	1/12/14	1534219|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	21/11/14	1534216|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	28/11/14	1534217|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	16/11/14	1534196|879	BIRDATA	
Hirundo rustica	Barn swallow	BIRD	IA	18/11/14	1534188|879	BIRDATA	
Glareola maldivarum	Oriental pratincole	BIRD	IA	10/2/17	1347903	FAUNASURVEY	Certain
Hirundo rustica	Barn swallow	BIRD	IA	13/11/14	1534211|879	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/1/15	1534230|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/1/15	1534231|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/12/14	1534225|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/12/14	1534229|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	2/12/14	1534220|112	BIRDATA	

Hydroprogne caspia	Caspian Tern	BIRD	IA	8/12/14	1534223|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/11/14	1534217|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	1/12/14	1534219|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/11/14	1534213|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/11/14	1534214|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/10/14	1534208|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/11/14	1534211|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	4/10/14	1534204|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/10/14	1534206|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/9/14	1534171|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	30/9/14	1534203|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/6/15	1534248|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/7/15	1571548|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	25/6/15	1534092|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/6/15	1534138|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	10/6/15	1534249|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	13/6/15	1324069|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	19/5/15	1534134|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	3/6/15	1534245|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/5/15	1534140|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/5/15	1534133|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	12/5/15	1534142|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	14/5/15	1534250|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/3/15	1534241|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	12/5/15	1325879|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/1/15	1534237|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	4/3/15	1534193|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/9/78	53657|112	BIRDATLAS1	
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/12/78	53656|112	BIRDATLAS1	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/9/17	1988991|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/9/17	1989005|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	22/3/17	1830453|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/5/17	1838459|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	17/11/16	1818376|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	21/3/17	1830898|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	29/8/15	1534251|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	21/10/16	1808005|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/8/15	1534195|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	28/8/15	1534252|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	24/8/15	1534254|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/8/15	1534253|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/7/15	1534247|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	20/8/15	1329327|112	BIRDATA	
Hydroprogne caspia	Caspian Tern	BIRD	IA	18/4/05	103954	FAUNASURVEY	Certain
Hydroprogne caspia	Caspian Tern	BIRD	IA	8/9/08	49993	FAUNASURVEY	Certain
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/10/06	481571|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	16/4/08	498554|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	10/5/03	289467|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	23/6/05	453195|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	6/7/02	412401|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	25/7/02	286752|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	15/7/01	199311|112	BIRDATLAS2	

Hydroprogne caspia	Caspian Tern	BIRD	IA	21/8/01	187290|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/8/00	107297|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	7/7/01	289175|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	31/7/99	36746|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	30/8/00	107296|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	26/7/99	30129|112	BIRDATLAS2	
Hydroprogne caspia	Caspian Tern	BIRD	IA	27/7/99	30121|112	BIRDATLAS2	
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	13/5/16	1281704	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281705	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281702	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	12/5/16	1281703	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281700	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/5/16	1281701	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281698	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281699	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281696	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/5/16	1281697	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	5/5/16	1281694	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	6/5/16	1281695	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/4/16	1281692	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/4/16	1281693	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/4/16	1281690	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/4/16	1281691	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	24/5/16	1281720	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	30/5/16	1281721	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	20/5/16	1281718	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	21/5/16	1281719	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281716	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	20/5/16	1281717	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281714	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	18/5/16	1281715	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	17/5/16	1281712	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	17/5/16	1281713	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281710	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/5/16	1281711	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281708	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281709	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281706	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	15/5/16	1281707	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281736	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	16/6/16	1281737	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281734	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281735	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281732	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	11/6/16	1281733	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281730	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	10/6/16	1281731	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281728	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281729	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281726	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	9/6/16	1281727	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	8/6/16	1281724	FAUNASURVEY	Not Sure

Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	8/6/16	1281725	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	30/5/16	1281722	FAUNASURVEY	Not Sure
Leggadina lakedownensis	Northern short-tailed mouse, Lakeland Downs mouse, kerakenga	MAMMAL	P4	7/6/16	1281723	FAUNASURVEY	Not Sure
Calidris alba	Sanderling	BIRD	IA	28/3/15	1534241|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	21/10/16	1808036|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	3/3/15	1534239|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	4/3/15	1534240|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	13/2/15	1534234|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	16/2/15	1534235|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	27/1/15	1534237|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	3/2/15	1534238|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	22/1/15	1534233|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	24/1/15	1534236|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	15/1/15	1534231|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	20/1/15	1534232|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	28/12/14	1534229|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	13/1/15	1534230|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	26/12/14	1534226|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	27/12/14	1534228|166	BIRDATA	
Calidris melanotos	Pectoral Sandpiper	BIRD	IA	30/8/15	1534025|978	BIRDATA	
Calidris melanotos	Pectoral Sandpiper	BIRD	IA	1/9/15	1534028|978	BIRDATA	
Calidris ferruginea	curlew sandpiper	BIRD	CR	31/7/99	36746|161	BIRDATLAS2	Moderately certain
Calidris melanotos	Pectoral Sandpiper	BIRD	IA	27/8/15	1534026|978	BIRDATA	
Calidris ferruginea	Curlew Sandpiper	BIRD	CR	1/7/17	1881170|161	BIRDATA	
Calidris ferruginea	curlew sandpiper	BIRD	CR	20/7/99	36742|161	BIRDATLAS2	Moderately certain
Calidris canutus	Red knot	BIRD	EN	13/10/80	AVIF:16667	WAM_BIRDS	WAM Vouchered
Calidris canutus	Red knot	BIRD	EN	13/10/80	urn:lsid:taxor	WAM_BIRDS	
Calidris alba	sanderling	BIRD	IA	8/9/08	49981	FAUNASURVEY	Certain
Calidris alba	sanderling	BIRD	IA	15/7/14	889600	FAUNASURVEY	Certain
Calidris alba	sanderling	BIRD	IA	31/10/06	481571|166	BIRDATLAS2	Moderately certain
Calidris alba	sanderling	BIRD	IA	16/4/08	498554|166	BIRDATLAS2	Moderately certain
Calidris alba	sanderling	BIRD	IA	30/7/02	286755|166	BIRDATLAS2	Moderately certain
Calidris alba	sanderling	BIRD	IA	10/5/03	289467|166	BIRDATLAS2	Moderately certain
Calidris alba	Sanderling	BIRD	IA	21/3/17	1830898|166	BIRDATA	
Calidris alba	sanderling	BIRD	IA	25/7/02	286752|166	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	20/11/14	1534215|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	21/11/14	1534216|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	16/11/14	1534213|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	18/11/14	1534214|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	13/11/14	1534211|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	14/11/14	1534212|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	28/10/14	1534207|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	10/11/14	1534209|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	4/10/14	1534204|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	19/10/14	1534205|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	27/9/14	1534202|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	30/9/14	1534203|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	1/9/14	1534199|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	23/9/14	1534200|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	26/8/14	1534197|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	28/8/14	1534224|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	22/1/15	1534233|162	BIRDATA	

Calidris ruficollis	Red-necked stint	BIRD	IA	24/1/15	1534236|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	15/1/15	1534231|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	20/1/15	1534232|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	28/12/14	1534229|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	13/1/15	1534230|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	27/12/14	1534173|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	27/12/14	1534228|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	8/12/14	1534223|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	24/12/14	1534225|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	3/12/14	1534221|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	4/12/14	1534222|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	1/12/14	1534219|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	2/12/14	1534220|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	28/11/14	1534217|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	29/11/14	1534218|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	31/10/06	481571|162	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	8/9/08	49982	FAUNASURVEY	Certain
Calidris ruficollis	Red-necked stint	BIRD	IA	26/7/02	286754|162	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	1/10/03	426641|162	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	20/7/99	36742|162	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	7/7/01	289175|162	BIRDATLAS2	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	28/9/17	1989005|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	21/9/77	20921|162	BIRDATLAS1	Moderately certain
Calidris ruficollis	Red-necked stint	BIRD	IA	26/6/15	1571539|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	28/6/15	1571537|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	3/3/15	1534239|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	4/3/15	1534240|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	13/2/15	1534234|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	16/2/15	1534235|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	27/1/15	1534237|162	BIRDATA	
Calidris ruficollis	Red-necked stint	BIRD	IA	3/2/15	1534238|162	BIRDATA	
Caretta caretta	loggerhead turtle	REPTILE	EN	21/11/14	87934	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	8/2/15	87959	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	21/11/14	87882	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	16/2/15	87894	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	16/12/14	87758	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	12/6/13	87805	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	5/7/15	87464	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	16/12/14	87757	TFAUNA	Certain
Calidris tenuirostris	Great knot	BIRD	CR	9/4/19	Calidris tenuii	WL_REG17	
Caretta caretta	loggerhead turtle	REPTILE	EN	1/6/13	85724	TFAUNA	Certain
Calidris tenuirostris	Great knot	BIRD	CR	1/7/17	1881170|165	BIRDATA	
Calidris tenuirostris	Great knot	BIRD	CR	8/9/08	49980	FAUNASURVEY	Certain
Calidris ruficollis	Red-necked stint	BIRD	IA	18/3/16	1280820	FAUNASURVEY	Not Sure
Calidris ruficollis	Red-necked stint	BIRD	IA	24/8/16	1280821	FAUNASURVEY	Not Sure
Calidris ruficollis	Red-necked stint	BIRD	IA	16/7/13	708482	FAUNASURVEY	Not Sure
Calidris ruficollis	Red-necked stint	BIRD	IA	18/3/16	1280819	FAUNASURVEY	Not Sure
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/14	1534204|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	19/10/14	1534205|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/9/14	1534171|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	30/9/14	1534203|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/9/14	1534201|141	BIRDATA	

Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/9/14	1534202|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/9/14	1534199|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	23/9/14	1534200|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/14	1534224|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	31/8/14	1534198|141	BIRDATA	
Caretta caretta	loggerhead turtle	REPTILE	EN	9/11/14	88058	TFAUNA	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	26/8/14	1534197|141	BIRDATA	
Caretta caretta	loggerhead turtle	REPTILE	EN	9/12/14	88005	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	9/12/14	88006	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	31/3/14	87992	TFAUNA	Certain
Caretta caretta	loggerhead turtle	REPTILE	EN	6/12/14	87996	TFAUNA	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	2/12/14	1534220|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/12/14	1534221|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/12/14	1534219|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	2/12/14	1534189|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	20/11/14	1534215|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/11/14	1534218|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	18/11/14	1534214|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	19/11/14	1534227|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/11/14	1534213|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	18/11/14	1534188|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	10/11/14	1534209|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	14/11/14	1534212|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/10/14	1534207|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	29/10/14	1534208|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/10/14	1534187|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/10/14	1534206|141	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	2/8/15	1571516|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	2/8/15	1571545|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	4/3/15	1534240|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/5/15	1325879|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/2/15	1534234|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	4/3/15	1534193|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	26/12/14	1534226|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/1/15	1534174|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/11/14	1534209|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	18/11/14	1534188|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	24/10/14	1534187|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	29/10/14	1534208|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	23/9/14	1534200|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	24/9/14	1534201|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	8/8/13	1283612|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	23/8/14	1550251|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/9/77	20921|157	BIRDATLAS1	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	17/9/78	53654|157	BIRDATLAS1	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/10/16	1808036|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/9/17	1988995|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	30/8/15	1571514|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	21/10/16	1808005|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	25/8/15	1571513|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/8/15	1534252|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/15	1329326|157	BIRDATA	

Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/15	1329327|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325942|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/8/15	1325943|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325882|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	12/8/15	1325939|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	9/8/15	1571515|157	BIRDATA	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	11/8/15	1325878|157	BIRDATA	
Apus pacificus	Fork-tailed Swift, Pacific Swift	BIRD	IA	8/2/15	1534004|335	BIRDATA	
Apus pacificus	Fork-tailed swift	BIRD	IA	16/4/08	498554|335	BIRDATLAS2	Moderately certain
Actitis hypoleucos	Common Sandpiper	BIRD	IA	13/12/18	Actitis hypole	WL_REG17	
Apus pacificus	Fork-tailed Swift, Pacific Swift	BIRD	IA	26/2/14	1534072|335	BIRDATA	
Actitis hypoleucos	common sandpiper	BIRD	IA	8/9/08	49977	FAUNASURVEY	Certain
Actitis hypoleucos	Common Sandpiper	BIRD	IA	14/12/18	Actitis hypole	WL_REG17	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/8/02	290104|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	10/5/03	289467|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	19/7/02	416881|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	28/7/02	286756|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	15/7/01	199311|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	20/8/01	187288|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	3/9/00	107295|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	7/7/01	289175|157	BIRDATLAS2	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	26/12/78	53656|157	BIRDATLAS1	
Actitis hypoleucos	Common Sandpiper	BIRD	IA	30/8/00	107296|157	BIRDATLAS2	
Arenaria interpres	Ruddy turnstone	BIRD	IA	23/9/14	1534200|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	30/9/14	1534203|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/8/14	1534224|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	31/8/14	1534198|129	BIRDATA	
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	29/4/17	1347922	FAUNASURVEY	Certain
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	6/5/17	1347923	FAUNASURVEY	Certain
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347920	FAUNASURVEY	Certain
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347921	FAUNASURVEY	Certain
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	28/4/14	889598	FAUNASURVEY	Certain
Ardenna pacifica	wedge-tailed shearwater	BIRD	IA	24/4/17	1347919	FAUNASURVEY	Certain
Apus pacificus	Fork-tailed swift	BIRD	IA	28/2/13	700257	FAUNASURVEY	Not Sure
Apus pacificus	Fork-tailed swift	BIRD	IA	9/5/14	891342	FAUNASURVEY	Certain
Apus pacificus	Fork-tailed swift	BIRD	IA	19/2/12	504814	FAUNASURVEY	Not Sure
Apus pacificus	Fork-tailed swift	BIRD	IA	27/2/13	706080	FAUNASURVEY	Not Sure
Apus pacificus	Fork-tailed swift	BIRD	IA	19/4/05	102620	FAUNASURVEY	Certain
Apus pacificus	Fork-tailed swift	BIRD	IA	11/2/12	504785	FAUNASURVEY	Not Sure
Arenaria interpres	Ruddy turnstone	BIRD	IA	24/12/14	1534225|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	26/12/14	1534226|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/12/14	1534222|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	8/12/14	1534223|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	2/12/14	1534220|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	3/12/14	1534221|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	29/11/14	1534218|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	1/12/14	1534219|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	18/11/14	1534214|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	20/11/14	1534215|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	14/11/14	1534212|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	16/11/14	1534213|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	24/10/14	1534206|129	BIRDATA	

Arenaria interpres	Ruddy turnstone	BIRD	IA	10/11/14	1534209|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/10/14	1534204|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	19/10/14	1534205|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	31/10/06	481571|129	BIRDATLAS2	Moderately certain
Arenaria interpres	Ruddy turnstone	BIRD	IA	16/4/08	498554|129	BIRDATLAS2	Moderately certain
Arenaria interpres	Ruddy turnstone	BIRD	IA	21/10/16	1808036|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	31/7/99	36746|129	BIRDATLAS2	Moderately certain
Arenaria interpres	Ruddy turnstone	BIRD	IA	12/5/15	1325879|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/8/15	1534253|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	4/3/15	1534240|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/3/15	1534241|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	3/2/15	1534238|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	13/2/15	1534234|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	22/1/15	1534233|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/1/15	1534237|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	15/1/15	1534231|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	20/1/15	1534232|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	27/12/14	1534228|129	BIRDATA	
Arenaria interpres	Ruddy turnstone	BIRD	IA	28/12/14	1534229|129	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	23/9/14	1534200|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	24/9/14	1534201|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	28/8/14	1534224|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	1/9/14	1534199|166	BIRDATA	
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	urn:lsid:taxor	WAM_BIRDS	
Calidris alba	Sanderling	BIRD	IA	26/8/14	1534197|166	BIRDATA	
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	AVIF:28980	WAM_BIRDS	WAM Vouchered
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	urn:lsid:taxor	WAM_BIRDS	
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	8/9/08	49983	FAUNASURVEY	Certain
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	5/1/01	AVIF:28979	WAM_BIRDS	WAM Vouchered
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	1/10/03	426641|163	BIRDATLAS2	Moderately certain
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	31/8/11	5088623|163	BIRDATLAS2	Moderately certain
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	31/8/11	1212782|163	BIRDATA	
Calidris acuminata	Sharp-tailed sandpiper	BIRD	IA	26/12/77	43100|163	BIRDATLAS1	Moderately certain
Arenaria interpres	Ruddy turnstone	BIRD	IA	17/7/08	5029291|129	BIRDATLAS2	Moderately certain
Arenaria interpres	Ruddy turnstone	BIRD	IA	8/9/08	49979	FAUNASURVEY	Certain
Calidris alba	Sanderling	BIRD	IA	8/12/14	1534223|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	24/12/14	1534225|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	3/12/14	1534221|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	4/12/14	1534222|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	1/12/14	1534219|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	2/12/14	1534220|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	20/11/14	1534215|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	21/11/14	1534216|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	16/11/14	1534213|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	18/11/14	1534214|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	10/11/14	1534209|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	14/11/14	1534212|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	28/10/14	1534207|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	29/10/14	1534208|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	27/9/14	1534202|166	BIRDATA	
Calidris alba	Sanderling	BIRD	IA	24/10/14	1534206|166	BIRDATA	
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474230	FAUNASURVEY	Certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474231	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/6/12	474228	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474229	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	28/6/12	474226	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	28/6/12	474227	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/5/12	564690	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	26/5/12	564797	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/5/12	564811	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	25/5/12	564719	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564755	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564758	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/7/11	481049	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/12	564745	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481076	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481078	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474249	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474250	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474247	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474248	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474245	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474246	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474243	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474244	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/7/12	474241	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/7/12	474242	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/7/12	474239	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/7/12	474240	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474234	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/7/12	474238	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474232	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/6/12	474233	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474265	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474266	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474263	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474264	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474261	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474262	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474259	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474260	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474257	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474258	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474255	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474256	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474253	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474254	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	4/7/12	474251	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	5/7/12	474252	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474285	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474286	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474279	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474284	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474277	FAUNASURVEY	Certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474278	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474275	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474276	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474273	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474274	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474271	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/12	474272	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474269	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474270	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474267	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/7/12	474268	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	6/6/13	700812	FAUNASURVEY	Not Sure
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031237	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/5/13	648374	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	15/5/13	648375	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	13/5/13	648372	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	14/5/13	648373	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/8/12	507416	FAUNASURVEY	Not Sure
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/10/12	508770	FAUNASURVEY	Not Sure
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/12	474282	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/12	474290	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474289	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474291	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474287	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474288	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474280	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/12	474281	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170121	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170123	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1169578	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1169579	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/10/14	957492	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/10/14	957493	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031251	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031252	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031248	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031250	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031245	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031247	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031240	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031241	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031238	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/12/13	1031239	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/8/15	1222701	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265303	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	29/8/15	1222700	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	30/8/15	1222699	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/5/15	1169580	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/15	1207963	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/15	1170128	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	23/5/15	1170135	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1170126	FAUNASURVEY	Certain

Dasyurus hallucatus	Northern quoll	MAMMAL	EN	22/5/15	1170127	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1169581	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	21/5/15	1170125	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1169577	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1170124	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	19/5/15	1170129	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	20/5/15	1169576	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595453	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595454	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595451	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595452	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595449	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595450	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595447	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595448	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595445	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595446	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	3/10/17	1347444	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN		595444	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	2/5/16	1265305	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/8/17	1347443	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265304	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	1/5/16	1265306	FAUNASURVEY	Certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/1/15	1534236|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/1/15	1534237|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	20/1/15	1534232|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	22/1/15	1534233|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	15/1/15	1534191|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	15/1/15	1534231|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/1/15	1534174|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/1/15	1534230|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/12/14	1534228|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/12/14	1534229|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	26/12/14	1534226|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/12/14	1534173|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/12/14	1534190|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/12/14	1534225|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/12/14	1534222|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	8/12/14	1534172|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	11/8/15	1325878|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	24/8/15	1534254|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	6/4/15	1534244|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	12/5/15	1325879|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/4/15	1534243|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	6/4/15	1534194|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/3/15	1534241|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	1/4/15	1534242|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/3/15	1534193|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/3/15	1534240|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/2/15	1534235|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/3/15	1534239|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/2/15	1534175|141	BIRDATA	

Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	13/2/15	1534234|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/2/15	1534192|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	3/2/15	1534238|141	BIRDATA	
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	11/8/15	1325878|139	BIRDATA	
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	21/3/17	1830898|139	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/00	urn:lsid:taxor	WAM_BIRDS	
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	6/7/14	1537700|139	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	8/9/08	49988	FAUNASURVEY	Certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	4/10/00	AVIF:31136	WAM_BIRDS	WAM Vouchered
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	31/10/06	481571|141	BIRDATLAS2	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	16/4/08	498554|141	BIRDATLAS2	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	10/5/03	289467|141	BIRDATLAS2	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	23/6/05	453195|141	BIRDATLAS2	Moderately certain
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	17/11/16	1818376|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	21/3/17	1830898|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/15	1534252|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	21/10/16	1808005|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	27/8/15	1534253|141	BIRDATA	
Charadrius leschenaultii	Greater sand plover, large sand plover	BIRD	VU	28/8/15	1534195|141	BIRDATA	
Chelonia mydas	Green turtle	REPTILE	VU	4/5/13	87462	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	29/4/13	87463	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	25/1/15	85696	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	28/8/13	85722	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	17/5/16	1280855	FAUNASURVEY	Not Sure
Chelonia mydas	Green turtle	REPTILE	VU	14/11/14	85474	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	2/10/13	715031	FAUNASURVEY	Not Sure
Chelonia mydas	Green turtle	REPTILE	VU	2/10/13	715032	FAUNASURVEY	Not Sure
Chelonia mydas	Green turtle	REPTILE	VU	8/6/12	506293	FAUNASURVEY	Not Sure
Chelonia mydas	Green turtle	REPTILE	VU	15/11/12	672953	FAUNASURVEY	Certain
Charadrius veredus	oriental plover	BIRD	IA	16/10/13	700135	FAUNASURVEY	Not Sure
Charadrius veredus	oriental plover	BIRD	IA	16/10/13	700136	FAUNASURVEY	Not Sure
Charadrius veredus	Oriental Plover	BIRD	IA	16/9/15	1534029|142	BIRDATA	
Charadrius veredus	oriental plover	BIRD	IA	21/9/77	20921|142	BIRDATLAS1	Moderately certain
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	31/7/99	36746|139	BIRDATLAS2	Moderately certain
Charadrius mongolus	Lesser Sand Plover	BIRD	EN	8/9/08	49987	FAUNASURVEY	Certain
Chelonia mydas	Green turtle	REPTILE	VU	24/12/13	87892	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	20/11/14	87905	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	20/10/14	87888	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	1/11/14	87889	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	18/11/14	87858	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	26/12/13	87859	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	4/11/13	87842	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87857	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	22/10/14	87837	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	3/11/13	87841	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	25/12/13	87828	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	18/11/14	87834	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	22/12/13	87801	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	17/7/13	87812	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	1/5/13	87492	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	29/5/14	87496	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	19/11/14	88084	TFAUNA	Moderately certain

Chlidonias leucopterus	White-winged black tern, white-winged tern	BIRD	IA	17/7/08	5029291|10|	BIRDATLAS2	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	16/11/14	88034	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	21/11/14	88066	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	29/4/14	88025	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	17/11/14	88032	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	26/10/13	88009	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	4/12/13	88018	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	4/11/14	87974	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	16/11/14	87985	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	18/10/13	87964	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87970	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	31/10/13	87954	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	31/10/13	87958	TFAUNA	Certain
Chelonia mydas	Green turtle	REPTILE	VU	31/10/14	87930	TFAUNA	Moderately certain
Chelonia mydas	Green turtle	REPTILE	VU	25/11/14	87953	TFAUNA	Moderately certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481071	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481072	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481066	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481068	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481062	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481065	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481051	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481059	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481055	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	8/7/11	481050	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481052	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	7/7/11	481053	FAUNASURVEY	WAM Vouchered
Crocodylus porosus	Salt-water crocodile	REPTILE	OS	30/3/14	889617	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	24/6/09	80578	FAUNASURVEY	Certain
Chlidonias leucopterus	White-winged black tern, white-winged tern	BIRD	IA	13/5/16	1280857	FAUNASURVEY	Not Sure
Crocodylus porosus	Salt-water crocodile	REPTILE	OS	8/9/08	49947	FAUNASURVEY	Certain
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481069	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481074	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481056	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	12/7/11	481060	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481064	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481067	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481057	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	11/7/11	481058	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481070	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481075	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481079	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	10/7/11	481061	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481073	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481077	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481054	FAUNASURVEY	WAM Vouchered
Dasyurus hallucatus	Northern quoll	MAMMAL	EN	9/7/11	481063	FAUNASURVEY	WAM Vouchered
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/8/13	87856	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/11/14	87862	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87853	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87855	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87851	TFAUNA	Certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87852	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/9/13	87849	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/4/14	87850	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/4/14	87847	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/9/13	87848	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/4/14	87843	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/4/14	87846	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/6/13	87836	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/10/14	87839	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/4/14	87831	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/4/14	87835	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87878	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/7/13	87879	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87876	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87877	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87874	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87875	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	87871	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/8/13	87873	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87869	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/8/13	87870	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87867	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/8/13	87868	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/11/14	87865	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87866	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/7/13	87863	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/7/13	87864	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/3/14	87901	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/8/13	87902	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/7/13	87899	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/7/13	87900	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/11/14	87897	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/4/14	87898	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/7/13	87895	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/7/13	87896	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/7/13	87891	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/4/14	87893	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/8/13	87886	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/8/13	87887	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/8/13	87884	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/4/14	87885	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/8/13	87880	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/7/13	87883	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/5/14	87921	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/8/13	87922	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/8/13	87919	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/8/13	87920	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/2/14	87916	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/8/13	87917	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/3/14	87913	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/10/14	87915	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/8/13	87911	TFAUNA	Certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/3/14	87912	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/8/13	87909	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/4/14	87910	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/14	87907	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/4/14	87908	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/10/13	87904	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/8/13	87906	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/11/13	87939	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/3/14	87940	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/11/14	87937	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/12/13	87938	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/7/13	87935	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	29/3/14	87936	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/3/14	87932	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	29/10/14	87933	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	28/7/13	87929	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/8/13	87931	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	29/7/13	87927	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	29/7/13	87928	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/2/14	87925	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	31/7/13	87926	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/3/14	87923	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/8/13	87924	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/1/14	87960	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/11/14	87961	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/2/14	87956	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/11/13	87957	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/4/14	87952	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/11/13	87955	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/3/14	87949	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	28/10/14	87950	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/10/13	87947	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/11/14	87948	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/2/14	87945	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/7/13	87946	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/11/13	87943	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/4/14	87944	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/11/14	87941	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/11/14	87942	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/10/13	87981	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/10/13	87982	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/12/13	87978	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/11/14	87980	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/3/14	87976	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	28/3/14	87977	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/2/14	87973	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/10/13	87975	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/3/14	87971	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/2/14	87972	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/2/14	87967	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	28/3/14	87968	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/11/14	87965	TFAUNA	Certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/10/13	87966	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	30/3/14	87962	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/12/13	87963	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/10/13	88003	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/11/13	88004	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	30/10/13	88001	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/10/13	88002	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/12/13	87999	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/12/13	88000	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/10/13	87997	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/12/13	87998	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/3/14	87993	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/10/13	87994	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/11/13	87990	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/11/13	87991	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	28/2/14	87986	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/3/14	87988	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	6/3/14	87983	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	6/3/14	87984	TFAUNA	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089010	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089011	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089008	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089009	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1089005	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1089006	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1088999	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1089000	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1088997	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1088998	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1088995	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	27/5/15	1088996	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	30/10/14	957547	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	30/10/14	957548	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/12/13	1031271	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	30/10/14	957546	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	29/6/00	urn:lsid:taxor	WAM_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/5/02	MAMM:M518	WAM_MAMMALS	WAM Vouchered
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	29/6/00	MAMM:M516	WAM_MAMMALS	WAM Vouchered
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	29/6/00	urn:lsid:taxor	WAM_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/5/06	OYW03|2423	PRS_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	29/6/00	MAMM:M516	WAM_MAMMALS	WAM Vouchered
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	23/8/15	1222727	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	11/5/06	OYW03|2423	PRS_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089018	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089019	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089016	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089017	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089014	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089015	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089012	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	9/8/15	1089013	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	24/6/15	1207968	FAUNASURVEY	Certain

Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	25/6/15	1207969	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	22/5/15	1170170	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	22/5/15	1170174	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	20/5/15	1169612	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	21/5/15	1169610	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	12/12/13	1031256	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	19/5/15	1169611	FAUNASURVEY	Certain
Rhinonicteris aurantia	Orange leaf-nosed bat	MAMMAL	P4		urn:lsid:taxor	WAM_MAMMALS	
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	24/6/09	80634	FAUNASURVEY	Certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/5/06	urn:lsid:taxor	WAM_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	8/9/96	5341	TFAUNA	Moderately certain
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	11/5/06	urn:lsid:taxor	WAM_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/5/06	MAMM:M605	WAM_MAMMALS	WAM Vouchered
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	12/5/02	urn:lsid:taxor	WAM_MAMMALS	
Pseudomys chapmani	Western pebble-mound mouse, ngadji	MAMMAL	P4	11/5/06	MAMM:M605	WAM_MAMMALS	WAM Vouchered
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/12/14	85475	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/4/14	85630	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/9/62	urn:lsid:taxor	WAM_MAMMALS	
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/9/62	MAMM:M545	WAM_MAMMALS	WAM Vouchered
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/5/14	1270963	FAUNASURVEY	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/10/14	1270968	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	1/1/25	5462	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	30/4/14	1270948	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	4/5/17	3374	FAUNASURVEY_WLS	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU		MAMM:M686	WAM_MAMMALS	WAM Vouchered
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	2/5/16	1265318	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	5/5/16	1265316	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	26/8/15	1222740	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	2/5/16	1265317	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	24/8/15	1222741	FAUNASURVEY	Certain
Rhinonicteris aurantia (Pilbara)	Pilbara leaf-nosed bat	MAMMAL	VU	25/8/15	1222737	FAUNASURVEY	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	27/3/14	85645	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/12/13	85646	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/11/14	85643	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	29/3/14	85644	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/11/13	85641	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/12/13	85642	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	6/11/14	85639	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/11/13	85640	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/4/14	85637	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/3/14	85638	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/11/14	85635	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/11/14	85636	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/4/14	85633	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	16/11/14	85634	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/4/14	85631	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/13	85632	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/4/13	87441	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/5/13	87461	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/3/14	85660	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/14	85661	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/4/14	85658	TFAUNA	Certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/11/14	85659	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/6/15	85656	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/12/14	85657	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/3/14	85653	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/14	85655	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/4/14	85651	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/10/14	85652	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/3/14	85649	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/1/14	85650	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/10/13	85647	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/11/13	85648	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/10/14	87809	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/4/14	87810	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/10/14	87807	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/4/14	87808	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/4/14	87804	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/4/14	87806	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/5/13	87797	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/1/14	87803	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/5/13	87794	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/12/14	87795	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/5/13	87785	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/10/14	87790	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	6/5/13	87660	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	26/6/13	87704	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/9/13	87470	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/5/13	87613	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/10/14	87829	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/4/14	87830	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/4/14	87826	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/4/14	87827	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/10/14	87824	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/4/14	87825	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/4/14	87822	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/6/13	87823	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/4/14	87819	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/10/14	87821	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/4/14	87817	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/4/14	87818	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/6/13	87815	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	25/4/14	87816	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/4/14	87813	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/4/14	87814	TFAUNA	Certain
Thalasseus bergii	Crested tern	BIRD	IA	21/10/16	1808005|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	22/3/17	1830453|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	20/8/15	1329326|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	20/8/15	1329327|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	26/6/15	1534248|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	18/7/15	1534247|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	10/6/15	1534249|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	25/6/15	1534092|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	6/4/15	1534244|115	BIRDATA	

Thalasseus bergii	Crested tern	BIRD	IA	3/6/15	1534245|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	3/3/15	1534239|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	1/4/15	1534242|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	13/2/15	1534234|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	16/2/15	1534235|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	3/2/15	1534192|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	3/2/15	1534238|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	16/4/08	498554|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	22/6/17	1347904	FAUNASURVEY	Certain
Thalasseus bergii	Crested tern	BIRD	IA	23/6/05	453195|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	31/10/06	481571|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	21/8/01	187290|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	30/7/02	286755|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	15/7/01	199311|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	20/8/01	187288|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	31/8/00	107297|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	7/7/01	289175|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	27/7/99	30121|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	31/7/99	36746|115	BIRDATLAS2	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	28/9/17	1989005|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	7/6/81	149234|115	BIRDATLAS1	Moderately certain
Thalasseus bergii	Crested tern	BIRD	IA	29/5/17	1838459|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	28/9/17	1988991|115	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	20/11/14	1534215|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/11/14	1534217|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	18/11/14	1534214|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	19/11/14	1534227|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	14/11/14	1534212|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	16/11/14	1534213|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	29/10/14	1534208|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	10/11/14	1534209|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	24/10/14	1534206|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/10/14	1534207|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	30/9/14	1534203|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	19/10/14	1534205|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	23/9/14	1534200|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	27/9/14	1534202|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	26/8/14	1534197|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/8/14	1534224|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	4/3/15	1534240|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/3/15	1534241|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	16/2/15	1534235|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	3/3/15	1534239|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	22/1/15	1534233|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	13/2/15	1534234|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	15/1/15	1534231|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	20/1/15	1534232|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/12/14	1534229|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	13/1/15	1534230|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	8/12/14	1534172|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	24/12/14	1534225|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	3/12/14	1534221|155	BIRDATA	

Tringa brevipes	Grey-tailed tattler	BIRD	IA	4/12/14	1534222|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	1/12/14	1534219|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	2/12/14	1534220|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	31/10/06	481571|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	16/4/08	498554|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	15/7/01	199311|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	10/5/03	289467|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	31/7/99	36746|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	7/7/01	289175|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/9/17	1989005|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	20/7/99	36742|155	BIRDATLAS2	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	17/11/16	1818376|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	28/9/17	1988995|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	27/8/15	1534253|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	21/10/16	1808036|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	6/4/15	1534244|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	24/8/15	1534254|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	1/4/15	1534242|155	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	3/4/15	1534243|155	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	21/10/16	1808005|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	1/7/17	1881170|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	1/9/15	1534028|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	16/9/15	1534029|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	30/8/15	1534025|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	30/8/15	1571514|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	19/7/15	1571532|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	13/8/15	1325941|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	27/6/15	1571535|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	16/7/15	1571533|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	29/3/15	1534012|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	25/6/15	1571536|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	13/1/15	1534174|158	BIRDATA	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	15/1/15	1534191|158	BIRDATA	
Tringa brevipes	Grey-tailed tattler	BIRD	IA	8/9/08	49978	FAUNASURVEY	Certain
Tringa glareola	Wood sandpiper	BIRD	IA	8/9/08	49976	FAUNASURVEY	Certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	5/4/19	Tringa nebula	WL_REG17	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	9/4/19	Tringa nebula	WL_REG17	
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	6/3/13	700858	FAUNASURVEY	Not Sure
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	6/3/13	700859	FAUNASURVEY	Not Sure
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	8/9/08	49975	FAUNASURVEY	Certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	6/3/13	700857	FAUNASURVEY	Not Sure
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	30/10/06	481570|158	BIRDATLAS2	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	31/10/06	481571|158	BIRDATLAS2	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	30/8/00	107296|158	BIRDATLAS2	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	10/5/03	289467|158	BIRDATLAS2	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	26/12/78	53656|158	BIRDATLAS1	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	25/7/99	30122|158	BIRDATLAS2	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	26/12/77	43100|158	BIRDATLAS1	Moderately certain
Tringa nebularia	Common greenshank, greenshank	BIRD	IA	17/9/78	53654|158	BIRDATLAS1	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/2/14	88027	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/3/14	88028	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/3/14	88023	TFAUNA	Certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/3/14	88024	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/12/13	88021	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	6/12/13	88022	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/3/14	88019	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/3/14	88020	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/3/14	88016	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/3/14	88017	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/1/14	88014	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/3/14	88015	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/2/14	88011	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/11/13	88012	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/3/14	88008	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/4/14	88010	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/2/14	88049	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/4/14	88050	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	8/3/14	88047	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/1/14	88048	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/1/14	88044	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/11/14	88046	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/3/14	88042	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/2/15	88043	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/4/14	88037	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	9/3/14	88038	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/3/14	88035	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/3/14	88036	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	22/2/14	88031	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	5/3/14	88033	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/10/14	88029	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/12/14	88030	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	17/11/14	88080	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	21/11/14	88081	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/2/14	88072	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/3/15	88073	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	31/3/14	88070	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	7/4/14	88071	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/2/14	88064	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/3/14	88065	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	13/3/14	88062	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/1/14	88063	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	20/10/14	88059	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/4/14	88061	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	23/2/14	88055	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/2/14	88057	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	11/1/14	88052	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	3/4/14	88053	TFAUNA	Certain
Sterna dougallii	Roseate tern	BIRD	IA	17/11/16	1818376|113	BIRDATA	
Sterna dougallii	Roseate tern	BIRD	IA	10/5/03	289467|113	BIRDATLAS2	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	24/11/14	88108	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	1/4/14	88120	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/4/14	88104	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/10/14	88106	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	4/2/15	88099	TFAUNA	Moderately certain

Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	12/3/14	88100	TFAUNA	Certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	18/2/15	88093	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	2/2/15	88098	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	14/2/15	88091	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/2/15	88092	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/2/15	88089	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	10/2/15	88090	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	19/12/14	88085	TFAUNA	Moderately certain
Sousa sahulensis	Australian humpback dolphin	MAMMAL	P4	15/2/14	88088	TFAUNA	Certain
Sterna hirundo	Common tern	BIRD	IA	24/12/14	1534225|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	26/12/14	1534226|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	4/12/14	1534222|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	8/12/14	1534223|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	20/11/14	1534215|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	29/11/14	1534218|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	16/11/14	1534213|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	18/11/14	1534214|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	29/10/14	1534208|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	10/11/14	1534209|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	24/10/14	1534206|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	28/10/14	1534207|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	30/9/14	1534203|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	19/10/14	1534205|953	BIRDATA	
Sterna dougallii	Roseate tern	BIRD	IA	31/10/06	481571|113	BIRDATLAS2	Moderately certain
Sterna dougallii	Roseate tern	BIRD	IA	8/9/08	49995	FAUNASURVEY	Certain
Sterna hirundo	Common tern	BIRD	IA	1/4/15	1534242|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	6/4/15	1534244|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	3/3/15	1534239|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	4/3/15	1534240|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	13/2/15	1534234|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	16/2/15	1534235|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	27/1/15	1534237|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	3/2/15	1534238|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	22/1/15	1534233|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	24/1/15	1534236|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	15/1/15	1534231|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	20/1/15	1534232|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	13/1/15	1534230|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	15/1/15	1534191|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	27/12/14	1534228|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	28/12/14	1534229|953	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	13/1/15	1534230|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	15/1/15	1534231|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	8/12/14	1534172|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	27/12/14	1534173|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	1/12/14	1534219|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	2/12/14	1534220|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	28/11/14	1534217|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	29/11/14	1534218|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	20/11/14	1534215|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	21/11/14	1534216|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	16/11/14	1534213|117	BIRDATA	

Sternula albifrons	Little tern	BIRD	IA	18/11/14	1534214|117	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	12/9/14	891370	FAUNASURVEY	Certain
Sternula albifrons	Little tern	BIRD	IA	10/11/14	1534209|117	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	21/3/17	1830898|953	BIRDATA	
Sterna hirundo	Common tern	BIRD	IA	8/9/08	49996	FAUNASURVEY	Certain
Thalasseus bergii	Crested tern	BIRD	IA	22/1/15	1534233|115	BIRDATA	
Thalasseus bergii	Crested tern	BIRD	IA	27/1/15	1534237|115	BIRDATA	
Sternula nereis nereis	Fairy tern	BIRD	VU	13/10/47	AVIF:18888	WAM_BIRDS	WAM Vouchered
Thalasseus bergii	Crested tern	BIRD	IA	4/12/14	1534222|115	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	8/9/08	49997	FAUNASURVEY	Certain
Sternula nereis nereis	Fairy tern	BIRD	VU	13/10/47	urn:lsid:taxor	WAM_BIRDS	
Sternula albifrons	Little tern	BIRD	IA	30/7/02	286755|117	BIRDATLAS2	
Sternula albifrons	Little tern	BIRD	IA	31/10/06	481571|117	BIRDATLAS2	
Sternula albifrons	Little tern	BIRD	IA	15/7/01	199311|117	BIRDATLAS2	
Sternula albifrons	Little tern	BIRD	IA	28/7/02	286756|117	BIRDATLAS2	
Sternula albifrons	Little tern	BIRD	IA	3/3/15	1534239|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	1/4/15	1534242|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	13/2/15	1534234|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	16/2/15	1534235|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	22/1/15	1534233|117	BIRDATA	
Sternula albifrons	Little tern	BIRD	IA	27/1/15	1534237|117	BIRDATA	
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41742	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41743	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41735	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41741	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41733	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41734	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	41761	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41731	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	41759	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	41760	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	41757	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	22/1/18	41758	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	9/12/17	41755	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	12/12/17	41756	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	6/2/17	41833	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	10/2/17	2883	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41764	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41765	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41749	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41763	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41745	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41746	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41740	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41744	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41738	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41739	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41736	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41737	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41762	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	24/1/18	41732	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41747	FAUNASURVEY_WLS	Not Sure

Natator depressus	Flatback turtle	REPTILE	VU	23/1/18	41748	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41775	FAUNASURVEY_WLS	Not Sure
Natator depressus	Flatback turtle	REPTILE	VU	25/1/18	41776	FAUNASURVEY_WLS	Not Sure

METHOD	TYPE	COUNT	NAME_ID
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	Clutch Count	86	25344
	Clutch Count	51	25344
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Survey	Sighting	1	25344
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Survey	Sighting	1	25344
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Survey		0	25344
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Survey		0	25344
Survey	Unknown	1	25196
Survey	Unknown	1	25196
Survey	Unknown	1	25196
Survey	Unknown	1	25196
Survey	Unknown	1	33954
Survey	Unknown	1	33954
Regular monitoring	Dead	89	25344
Survey	Unknown	1	33954
Regular monitoring	Dead	149	25344
Regular monitoring	Dead	55	25344
Survey	Sighting	1	25344
Survey	Sighting	1	25344
Survey	Sighting	1	25344
Survey	Sighting	1	25344
Survey	Sighting	2	25344
Survey	Sighting	1	25344
	Scat	1	24180
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Survey	Caught or trapped	1	24180

Survey	Caught or trapped	1	24180
Survey	Unknown	1	24180
Survey	Unknown	1	24180
Survey	Unknown	1	24180
Survey	Unknown	1	24180
Survey	Unknown	1	24180
Survey	Unknown	1	24180
Survey	Sighting	1	24051
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Survey	Sighting	2	24051
Survey	Sighting	2	24051
Survey	Sighting	1	24051
Survey	Sighting	7	24051
Survey	Sighting	2	24051
Survey	Sighting	1	24051
Survey	Sighting	2	24051
Survey	Sighting	2	24051
Survey		0	24180
Survey		0	24180
Survey		0	24180
Survey		0	24180
Survey	Sighting	2	24051
Survey	Sighting	3	24051
Survey	Sighting	2	24051
Survey	Sighting	2	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	2	24051
Survey	Sighting	1	24051
Survey	Sighting	7	24051
Survey	Sighting	2	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	2	24051
Survey	Secondary sign	4	25344
Survey	Unknown	0	25344
Survey	Secondary sign	13	25344
Survey	Secondary sign	16	25344
Survey	Sighting	1	24051
Survey	Secondary sign	1	25344
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Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	2	24051

Survey	Sighting	1	24051
Survey	Sighting	1	24051
Survey	Sighting	1	24051
	Nest Fan Measurement	1	25344
	Clutch count	51	25344
Survey	Unknown	4	25344
	Nest fan measurement	1	25344
Survey	Unknown	6	25344
Survey	Unknown	48	25344
Survey	Unknown	180	25344
Survey	Unknown	16	25344
Survey	Unknown	9	25344
Survey	Unknown	6	25344
Survey	Unknown	8	25344
Survey	Unknown	411	25344
Survey	Unknown	127	25344
Survey	Unknown	7	25344
Survey	Unknown	387	25344
Survey	Unknown	19	25344
	Clutch count	62	25344
	Clutch count	53	25344
	Clutch count	49	25344
	Clutch count	61	25344
	Clutch count	45	25344
	Clutch count	47	25344
	Nest Fan Measurement	1	25344
	Clutch count	55	25344
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	Clutch count	51	25344
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	Nest Fan Measurement	1	25344
	Clutch count	61	25344
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	Clutch count	56	25344
	Nest fan measurement	1	25344
	Clutch count	35	25344
	Clutch count	55	25344
	Clutch count	47	25344
	Clutch count	46	25344
	Nest fan measurement	1	25344
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	Clutch count	54	25344
	Nest fan measurement	1	25344
Survey	Caught or trapped	1	34154
Survey	Caught or trapped	1	34154
Survey	Caught or trapped	1	34154
Survey	Caught or trapped	1	34154
Survey	Unknown	1	34154
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Survey	Unknown	1	34154
Survey	Caught or trapped	1	34153
Survey	Unknown	1	34154
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Survey	Caught or trapped	1	34153
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Collection	Specimen	1	34153
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	Habitat Trap	1	34154
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	Habitat Trap	1	34154
Survey	Caught or trapped	1	34154
	Haul Net Scrape	1	34154
Survey	Caught or trapped	1	34154
Survey	Caught or trapped	1	34154
Survey	Unknown	1	34154
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Survey	Caught or trapped	1	34154
Survey	Unknown	1	34154
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Collection	Specimen	1	34154
Collection	Specimen	1	34154
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Collection	Specimen	1	34154
	Habitat Trap	1	34154
Collection	Specimen	1	34154
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Collection	Specimen	1	34155
Collection	Specimen	1	34155
Collection	Specimen	1	34155
Collection	Specimen	1	34155
Survey	Caught or trapped	3	34154
Collection	Specimen	1	34155
Survey		0	34154
Survey		0	34154
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Survey		0	34154
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Collection	Specimen	1	34155
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Collection	Specimen	1	34155
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Collection	Specimen	1	34155
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Survey	Caught or trapped	4	34155
Collection	Specimen	1	34155
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Collection	Specimen	1	34155

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Historical (written)	Day sighting	1	24743
		0	24843
		0	25504
Collection	Specimen	1	25504
Survey	Caught or trapped	1	34155
Survey		0	35956
Survey	Caught or trapped	1	34155
Survey	Caught or trapped	1	34155
Survey	Unknown	1	24233
Survey	Unknown	1	24233
Survey	Unknown	1	24233
Survey	Unknown	1	24233
Survey	Unknown	1	34037
Survey	Unknown	7	34037
Survey	Unknown	40	34037
Survey	Unknown	1	34037
Survey	Unknown	4	34037
Survey	Unknown	4	34037
Observational	Sighting	1	24383
Survey	Unknown	3	48077
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Observational	Sighting	1	24383
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Collection	Specimen	1	25196
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Collection	Specimen	1	25196
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Collection	Specimen	1	25196
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Survey	Unknown	1	25196
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Collection	Specimen	1	25196
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Collection	Specimen	1	25196
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Historical (written)	Day sighting	6	24798
Historical (written)	Day sighting	6	24798
Historical (written)	Day sighting	6	24798
Historical (written)	Day sighting	6	24798
Observational	Sighting	1	24798
Survey		0	24798
Observational	Sighting	1	24798
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Observational	Sighting	1	24799
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Survey	Unknown	1	24497
Survey		1	34038
Observational	Sighting	1	25742
Survey	Unknown	1	25742
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Observational	Sighting	1	25742
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Collection	Specimen	1	34153
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Collection	Specimen	1	34153

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Collection	Specimen	1	34153
Survey		0	48591
Collection	Specimen	1	34153
Survey	Unknown	1	48591
Survey	Unknown	1	48591
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Survey	Unknown	1	48591
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Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Secondary sign	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
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Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Survey	Unknown	2	24084
Survey	Unknown	1	24084
Survey	Unknown	1	24084
Survey	Unknown	1	24084
Opportunistic sighting	Caught or trapped	1	24093
Opportunistic sighting	Caught or trapped	1	24093
		0	24093
Historical (written)	Caught or trapped	1	24093
Targeted survey	Secondary sign	1	24093
Collection	Specimen	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Targeted survey	Caught or trapped	1	24093
Survey	Unknown	2	24084
Survey	Unknown	1	24084
Survey	Unknown	1	24084
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Survey	Unknown	1	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
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Survey	Sighting	1	24084
Survey	Sighting	1	24084
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Collection	Specimen	1	24084
Collection	Specimen	1	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
Survey	Sighting	2	24084
Survey	Sighting	1	24084
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Survey	Sighting	1	24084
Survey	Sighting	1	24084

Survey	Sighting	1	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
Observational	Sighting	1	25624
Survey	Unknown	1	25624
Survey	Unknown	1	24473
Survey	Unknown	1	24473
Survey	Sighting	1	24084
Survey	Sighting	1	25473
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Survey	Sighting	2	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
Survey	Sighting	1	24084
Survey	Unknown	1	24481
Survey	Unknown	1	24481
Survey		0	47954
Survey	Unknown	1	24481
Survey	Unknown	1	47954
Survey	Caught or trapped	1	47954
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Opportunistic sighting	Secondary sign	1	24093
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	Nest Fan Measurement	1	25344
	Clutch Count	45	25344
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Nest Fan Measurement	1	25344

Australian Government

Department of the Environment and Energy

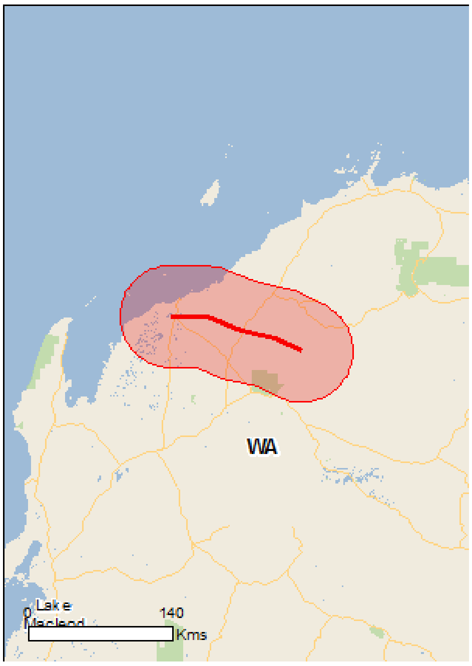
EPBC Act Protected Matters Report

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

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

Information is available about Environment Assessments and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/06/20 21:45:15



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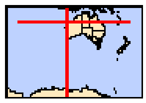

Summary

Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	29
Listed Migratory Species:	47

Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	1
Commonwealth Heritage Places:	None
Listed Marine Species:	86
Whales and Other Cetaceans:	15
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

Extra Information

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

State and Territory Reserves:	9
Regional Forest Agreements:	None
Invasive Species:	12
Nationally Important Wetlands:	1
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

Commonwealth Marine Area [Resource Information]

Approval is required for a proposed activity that is located within the Commonwealth Marine Area which has, will have, or is likely to have a significant impact on the environment. Approval may be required for a proposed action taken outside the Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area. Generally the Commonwealth Marine Area stretches from three nautical miles to two hundred nautical miles from the coast.

Name
EEZ and Territorial Sea

Marine Regions [Resource Information]

If you are planning to undertake action in an area in or close to the Commonwealth Marine Area, and a marine bioregional plan has been prepared for the Commonwealth Marine Area in that area, the marine bioregional plan may inform your decision as to whether to refer your proposed action under the EPBC Act.

Name
North-west

Listed Threatened Species [Resource Information]

Name	Status	Type of Presence
Birds		
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Limosa lapponica baueri Bar-tailed Godwit (baueri), Western Alaskan Bar-tailed Godwit [86380]	Vulnerable	Species or species habitat may occur within area
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Bar-tailed Godwit (menzbieri) [86432]	Critically Endangered	Species or species habitat may occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area
Sternula nereis nereis Australian Fairy Tern [82950]	Vulnerable	Breeding known to occur within area

Name	Status	Type of Presence
Mammals		
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat likely to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Roosting known to occur within area
Reptiles		
Aipysurus apraefrontalis Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Liasis olivaceus barroni Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Sharks		
Carcharias taurus (west coast population) Grey Nurse Shark (west coast population) [68752]	Vulnerable	Species or species habitat known to occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish	Vulnerable	Species or species

Name	Status	Type of Presence
[68442]		habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area

Listed Migratory Species

[Resource Information]

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

Name	Threatened	Type of Presence
Migratory Marine Birds		
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardenna carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [82404]		Species or species habitat may occur within area
Ardenna pacifica Wedge-tailed Shearwater [84292]		Breeding known to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Hydroprogne caspia Caspian Tern [808]		Breeding known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Onychoprion anaethetus Bridled Tern [82845]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Migratory Marine Species		
Anoxypristis cuspidata Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area
Balaena glacialis australis Southern Right Whale [75529]	Endangered*	Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur

Name	Threatened	Type of Presence
		within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat likely to occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area
Dugong dugon Dugong [28]		Breeding known to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat known to occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Foraging, feeding or related behaviour known to occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Migratory Terrestrial Species		
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Migratory Wetlands Species		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Thalasseus bergii Crested Tern [83000]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area

Other Matters Protected by the EPBC Act

Commonwealth Land [Resource Information]

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

Name
Commonwealth Land -

Listed Marine Species [Resource Information]

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

Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba Great Egret, White Egret [59541]		Breeding known to occur within area
Ardea ibis Cattle Egret [59542]		Species or species habitat may occur within area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat known to occur within area
Calidris canutus Red Knot, Knot [855]	Endangered	Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat likely to occur within area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat likely to occur within area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area
Chrysococcyx osculans Black-eared Cuckoo [705]		Species or species habitat known to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat likely to occur within area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Larus novaehollandiae Silver Gull [810]		Breeding known to occur within area
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species

Name	Threatened	Type of Presence
		habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area
Pandion haliaetus Osprey [952]		Breeding known to occur within area
Puffinus carneipes Flesh-footed Shearwater, Fleshy-footed Shearwater [1043]		Species or species habitat may occur within area
Puffinus pacificus Wedge-tailed Shearwater [1027]		Breeding known to occur within area
Rostratula benghalensis (sensu lato) Painted Snipe [889]	Endangered*	Species or species habitat may occur within area
Sterna anaethetus Bridled Tern [814]		Breeding known to occur within area
Sterna bengalensis Lesser Crested Tern [815]		Breeding known to occur within area
Sterna bergii Crested Tern [816]		Breeding known to occur within area
Sterna caspia Caspian Tern [59467]		Breeding known to occur within area
Sterna dougallii Roseate Tern [817]		Foraging, feeding or related behaviour likely to occur within area
Sterna fuscata Sooty Tern [794]		Breeding known to occur within area
Sterna nereis Fairy Tern [796]		Breeding known to occur within area
Tringa nebularia Common Greenshank, Greenshank [832]		Species or species habitat likely to occur within area
Fish		
Acentronura larsonae Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area
Bulbonaricus brauni Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area
Campichthys tricarinatus Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys latispinosus Muiron Island Pipefish [66196]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area
Doryrhamphus multiannulatus Many-banded Pipefish [66717]		Species or species habitat may occur within area
Doryrhamphus negrosensis Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area
Festucalex scalaris Ladder Pipefish [66216]		Species or species habitat may occur within area
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area

Name	Threatened	Type of Presence
Micrognathus micronotopterus		
Tidepool Pipefish [66255]		Species or species habitat may occur within area
Phoxocampus belcheri		
Black Rock Pipefish [66719]		Species or species habitat may occur within area
Solegnathus hardwickii		
Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area
Solenostomus cyanopterus		
Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area
Syngnathoides biaculeatus		
Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area
Trachyrhamphus bicoarctatus		
Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area
Trachyrhamphus longirostris		
Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area
Mammals		
Dugong dugon		
Dugong [28]		Breeding known to occur within area
Reptiles		
Acalyptophis peronii		
Horned Seasnake [1114]		Species or species habitat may occur within area
Aipysurus apraefrontalis		
Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area
Aipysurus duboisii		
Dubois' Seasnake [1116]		Species or species habitat may occur within area
Aipysurus eydouxii		
Spine-tailed Seasnake [1117]		Species or species habitat may occur within area
Aipysurus laevis		
Olive Seasnake [1120]		Species or species habitat may occur within area
Astrotia stokesii		
Stokes' Seasnake [1122]		Species or species habitat may occur within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area
Chelonia mydas		
Green Turtle [1765]	Vulnerable	Breeding known to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Disteira kingii Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Ephalophis greyi North-western Mangrove Seasnake [1127]		Species or species habitat may occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area
Hydrophis czeblukovi Fine-spined Seasnake [59233]		Species or species habitat may occur within area
Hydrophis elegans Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis ornatus Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat may occur within area

Whales and other Cetaceans [Resource Information]

Name	Status	Type of Presence
Mammals		
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area
Balaenoptera borealis Sei Whale [34]	Vulnerable	Species or species habitat likely to occur within area
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area
Balaenoptera physalus Fin Whale [37]	Vulnerable	Species or species habitat likely to occur within area
Delphinus delphis Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Eubalaena australis Southern Right Whale [40]	Endangered	Species or species habitat may occur within area
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within

Name	Status	Type of Presence
		area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Species or species habitat likely to occur within area
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

State and Territory Reserves [Resource Information]

Name	State
Bessieres Island	WA
Cane River	WA
Cane River (Mount Minnie and Nanutarra)	WA
Little Rocky Island	WA
Locker Island	WA
Round Island	WA
Serrurier Island	WA
Unnamed WA44665	WA
Weld Island	WA

Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Capra hircus Goat [2]		Species or species habitat likely to occur within area
Equus asinus Donkey, Ass [4]		Species or species habitat likely to occur within area

Name	Status	Type of Presence
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Prosopis spp. Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Reptiles		
Ramphotyphlops braminus Flowerpot Blind Snake, Brahminy Blind Snake, Cacing Besi [1258]		Species or species habitat may occur within area

Nationally Important Wetlands [Resource Information]

Name	State
Exmouth Gulf East	WA

Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

Coordinates

-21.787829 115.047473,-21.795001 115.357851,-21.900694 115.65433,-21.964174 115.954181,-22.067211 116.184602

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government – Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

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

Please feel free to provide feedback via the Contact Us page.

Department of the Environment
GPO Box 787
Canberra ACT 2601 Australia
+61 2 6274 1111

NatureMap Fauna Species Report

Created By Colleen McDonald on 02/06/2020

Kingdom	Animalia
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Line'
Vertices	21° 47' 16" S,115° 02' 51" E 21° 47' 42" S,115° 21' 28" E 21° 54' 02" S,115° 39' 16" E
Group By	Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	749	36083
Other specially protected fauna	4	107
Priority 1	1	1
Priority 4	4	402
Protected under international agreement	27	557
Rare or likely to become extinct	17	376
TOTAL	**802**	**37526**

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
Rare or likely to become extinct					
1.	24783	*Calidris canutus subsp. rogersi (Red Knot (north-eastern Siberia))*		T	
2.	24784	*Calidris ferruginea (Curlew Sandpiper)*		T	
3.	24790	*Calidris tenuirostris (Great Knot)*		T	
4.	25335	*Caretta caretta (Loggerhead Turtle)*		T	
5.	25575	*Charadrius leschenaultii (Greater Sand Plover)*		T	
6.	24372	*Charadrius leschenaultii subsp. leschenaultii (Greater Sand Plover (Mongolian))*		T	
7.	25576	*Charadrius mongolus (Lesser Sand Plover)*		T	
8.	25336	*Chelonia mydas (Green Turtle)*		T	
9.	24093	*Dasyurus hallucatus (Northern Quoll)*		T	
10.	25473	*Eretmochelys imbricata (Hawksbill Turtle)*		T	
11.	25238	*Liasis olivaceus subsp. barroni (Pilbara Olive Python)*		T	
12.	24796	*Limosa lapponica subsp. menzbieri (Bar-tailed Godwit (northern Siberian))*		T	
13.	25344	*Natator depressus (Flatback Turtle)*		T	
14.	24798	*Numenius madagascariensis (Eastern Curlew)*		T	
15.	25504	*Perameles bougainville (Western Barred Bandicoot, Little Marl, Shark Bay Bandicoot)*		T	
16.	24743	*Pezoporus occidentalis (Night Parrot)*		T	
17.	34037	*Pristis zijsron (Green Sawfish)*		T	
Protected under international agreement					
18.	41323	*Actitis hypoleucos (Common Sandpiper)*		IA	
19.	25554	*Apus pacificus (Fork-tailed Swift, Pacific Swift)*		IA	
20.	25736	*Arenaria interpres (Ruddy Turnstone)*		IA	
21.	24779	*Calidris acuminata (Sharp-tailed Sandpiper)*		IA	
22.	24780	*Calidris alba (Sanderling)*		IA	
23.	24786	*Calidris melanotos (Pectoral Sandpiper)*		IA	
24.	24788	*Calidris ruficollis (Red-necked Stint)*		IA	
25.	24378	*Charadrius veredus (Oriental Plover)*		IA	
26.	41332	*Chlidonias leucopterus (White-winged Black Tern, white-winged tern)*		IA	
27.	47954	*Gelochelidon nilotica (Gull-billed Tern)*		IA	
28.	24481	*Glareola maldivarum (Oriental Pratincole)*		IA	
29.	25630	*Hirundo rustica (Barn Swallow)*		IA	
30.	48587	*Hydroprogne caspia (Caspian Tern)*		IA	
31.	30932	*Limosa lapponica (Bar-tailed Godwit)*		IA	
32.	24799	*Numenius minutus (Little Curlew, Little Whimbrel)*		IA	
33.	25742	*Numenius phaeopus (Whimbrel)*		IA	
34.	24497	*Oceanites oceanicus (Wilson's Storm-petrel)*		IA	
35.	48591	*Pandion cristatus (Osprey, Eastern Osprey)*		IA	
36.	24843	*Plegadis falcinellus (Glossy Ibis)*		IA	
37.	24383	*Pluvialis squatarola (Grey Plover)*		IA	
38.	24716	*Puffinus pacificus (Wedge-tailed Shearwater)*		IA	
39.	25640	*Sterna dougallii (Roseate Tern)*		IA	
40.	25642	*Sterna hirundo (Common Tern)*		IA	

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
41.	48593	*Sternula albifrons (Little Tern)*		IA	
42.	48597	*Thalasseus bergii (Crested Tern)*		IA	
43.	24806	*Tringa glareola (Wood Sandpiper)*		IA	
44.	24808	*Tringa nebularia (Common Greenshank, greenshank)*		IA	

Other specially protected fauna

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
45.	24859	*Crocodylus porosus (Salt-water Crocodile)*		S	
46.	24084	*Dugong dugon (Dugong)*		S	
47.	25624	*Falco peregrinus (Peregrine Falcon)*		S	
48.	24051	*Megaptera novaeangliae (Humpback Whale)*		S	

Priority 1

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
49.	25164	*Lerista planiventralis subsp. maryani (Maryan's keeled slider (Ashburton), Keeled Slider (NW coast Onslow to Barradale))*		P1	

Priority 4

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
50.	24217	*Leggadina lakedownensis (Northern Short-tailed Mouse, Lakeland Downs Mouse, Kerakenga)*		P4	
51.	24233	*Pseudomys chapmani (Western Pebble-mound Mouse, Ngadji)*		P4	
52.	48107	*Sousa sahulensis (Australian humpback dolphin)*		P4	
53.	24803	*Tringa brevipes (Grey-tailed Tattler)*		P4	

Non-conservation taxon

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
54.		*? ?*			
55.		*Ablennes hians*			
56.		*Abudefduf bengalensis*			
57.	24559	*Acanthagenys rufogularis (Spiny-cheeked Honeyeater)*			
58.		*Acanthocepola abbreviata*			
59.		*Acanthopagrus latus*			
60.		*Acanthopagrus palmaris*			
61.	25243	*Acanthophis pyrrhus (Desert Death Adder)*			
62.		*Acanthophis sp.*			
63.	25332	*Acanthophis wellsi (Pilbara Death Adder)*			
64.		*Acariformes sp.*			
65.	25535	*Accipiter cirrocephalus (Collared Sparrowhawk)*			
66.	25536	*Accipiter fasciatus (Brown Goshawk)*			
67.		*Acentrogobius viridipunctatus*			
68.		*Achnanthidium minutissima (Kütz.) Czarnecki*			
69.	25751	*Acridotheres tristis (Common Myna)*	Y		
70.	25755	*Acrocephalus australis (Australian Reed Warbler)*			
71.		*Adventor elongatus*			
72.		*Adversaeschna brevistyla*			
73.	25544	*Aegotheles cristatus (Australian Owlet-nightjar)*			
74.		*Aeolosoma sp. 1 (PSS)*			
75.		*Agraptocorixa parvipunctata*			
76.		*Agraptocorixa sp.*			
77.	25355	*Aipysurus laevis (Olive Seasnake)*			
78.		*Alectis indica*			
79.		*Allodessus bistrigatus*			
80.		*Alona cf. rectangula (but may be > 1 spp.)*			
81.		*Alona rectangula novaezealandiae*			
82.		*Ambassis agassizi*			
83.		*Ambassis gymnocephalus*			
84.		*Amniataba caudavittata*			
85.		*Amniataba percoides*			
86.		*Amniataba percoides?*			Y
87.	30831	*Amphibolurus gilberti (Ta-ta, Gilbert's Dragon)*			
88.	30833	*Amphibolurus longirostris (Long-nosed Dragon)*			
89.		*Aname ellenae*			
90.	24312	*Anas gracilis (Grey Teal)*			
91.	24316	*Anas superciliosa (Pacific Black Duck)*			
92.		*Anax papuensis*			
93.		*Ancylidae sp.*			
94.	47414	*Anhinga novaehollandiae (Australasian Darter)*			
95.		*Anisops canaliculatus*			
96.		*Anisops nasutus*			
97.		*Anisops paraexigerus*			
98.		*Anisops sp.*			
99.		*Anisops stali*			
100.		*Anisops thienemanni*			
101.		*Anomoeoneis brachysira (Bréb.) Grun.*			
102.		*Anopheles annulipes s.l.*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
103.	25318	*Antaresia perthensis (Pygmy Python)*			
104.	25448	*Antaresia stimsoni (Stimson's Python)*			
105.	25241	*Antaresia stimsoni subsp. stimsoni (Stimson's Python)*			
106.	25670	*Anthus australis (Australian Pipit)*			
107.		*Antichiropus sp.*			
108.		*Apistus carinatus*			
109.		*Apogon rueppellii*			
110.	24285	*Aquila audax (Wedge-tailed Eagle)*			
111.		*Arcella sp. P1*			
112.	25557	*Ardea garzetta (Little Egret)*			
113.	24337	*Ardea garzetta subsp. nigripes (Little Egret)*			
114.	25558	*Ardea ibis (Cattle Egret)*			
115.	25559	*Ardea intermedia (Intermediate Egret)*			
116.	41324	*Ardea modesta (great egret, white egret)*			
117.	24340	*Ardea novaehollandiae (White-faced Heron)*			
118.	24341	*Ardea pacifica (White-necked Heron)*			
119.	25560	*Ardea sacra (Eastern Reef Egret, Eastern Reef Heron)*			
120.	24610	*Ardeotis australis (Australian Bustard)*			
121.		*Areacandona 'undulata' (PSS)*			Y
122.		*Areacandona sp. 6' (PSS)*			Y
123.		*Argiocnemis rubescens*			
124.		*Arothron manilensis*			
125.		*Arrenurus (Arrenurus) balladoniensis*			
126.		*Arrhamphus sclerolepis*			
127.	25566	*Artamus cinereus (Black-faced Woodswallow)*			
128.	24353	*Artamus cyanopterus (Dusky Woodswallow)*			
129.	25567	*Artamus leucorynchus (White-breasted Woodswallow)*			
130.	24354	*Artamus leucorynchus subsp. leucopygialis (White-breasted Woodswallow)*			
131.	24355	*Artamus minor (Little Woodswallow)*			
132.	24356	*Artamus personatus (Masked Woodswallow)*			
133.		*Artema atlanta*			
134.		*Asadipus yundamindra*			
135.	25320	*Aspidites melanocephalus (Black-headed Python)*			
136.		*Assiculus punctatus*			
137.		*Atelomycterus fasciatus*			
138.		*Atherinid sp.*			
139.		*Atherinomorus endrachtensis*			
140.		*Atherinomorus vaigiensis*			
141.		*Aulacoseira ambigua*			
142.		*Aulocoseira granulata (Ehr.) Simonsen*			
143.		*Aulopus purpurissatus*			
144.		*Australobolbus pseudobscurius*			
145.		*Australocyclops sp.*			
146.		*Austrolestes aridus*			
147.		*Austronibea oedegenys?*			Y
148.		*Austropeplea lessoni*			
149.	24318	*Aythya australis (Hardhead)*			
150.		*Baetidae sp.*			
151.		*Barnardius zonarius*			
152.		*Bathygobius cocosensis*			
153.		*Bathygobius fuscus*			
154.		*Bathynella sp.*			
155.		*Bdelloidea sp. 2:2*			
156.		*Bdelloidea sp. 3:3*			
157.		*Bennelongia australis OrdX (PSW)*			
158.		*Bennelongia cb*			Y
159.		*Bennelongia minimus*			
160.		*Bennelongia nimala*			
161.		*Bennelongia triangulata (ex sp 414 /460 (CB)*			
162.		*Berosus nutans*			
163.		*Berosus pulchellus*			
164.		*Berosus sp.*			
165.		*Blennodesmus scapularis*			
166.		*Bodianus frenchii*			
167.		*Boeckella triarticulata*			
168.		*Bolboleaus truncatus*			
169.	24251	*Bos taurus (European Cattle)*	Y		
170.		*Brachionus dichotomus*			
171.		*Brachionus falcatus*			
172.		*Brachionus leydigii*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
173.		*Brachionus quadridentatus*			
174.		*Branchinella halsei*			
175.	24359	*Burhinus grallarius (Bush Stone-curlew)*			
176.		*Butis amboinensis*			
177.	47897	*Butorides striata (Striated Heron, Mangrove Heron)*			
178.	25715	*Cacatua roseicapilla (Galah)*			
179.	25716	*Cacatua sanguinea (Little Corella)*			
180.	42307	*Cacomantis pallidus (Pallid Cuckoo)*			
181.		*Caenidae sp.*			
182.	24269	*Calamanthus campestris (Rufous Fieldwren)*			
183.		*Calamoecia baylyi (Cue form) (ex nr lucasi CB)*			
184.		*Canthigaster coronata*			
185.		*Caranx ignobilis*			
186.		*Caranx sexfasciatus*			
187.		*Carenum pulchrum*			
188.		*Carenum venustum*			
189.	25015	*Carlia munda (Shaded-litter Rainbow Skink)*			
190.		*Cavisternum clavatum*			
191.	25600	*Centropus phasianinus (Pheasant Coucal)*			
192.		*Ceratopogonidae sp.*			
193.		*Ceriodaphnia cornuta*			
194.	24564	*Certhionyx variegatus (Pied Honeyeater)*			
195.	24181	*Chaerephon jobensis (Greater Northern Freetail-bat, Northern Mastiff Bat)*			
196.		*Chaetodontoplus duboulayi*			
197.	24186	*Chalinolobus gouldii (Gould's Wattled Bat)*			
198.		*Chanos chanos*			
199.		*Chaoboridae sp.*			
200.	24377	*Charadrius ruficapillus (Red-capped Plover)*			
201.		*Chelonodon patoca*			
202.	24321	*Chenonetta jubata (Australian Wood Duck, Wood Duck)*			
203.	47909	*Cheramoeca leucosterna (White-backed Swallow)*			
204.		*Chimarra sp AV17 (PSW)*			
205.		*Chirocentrus dorab*			
206.		*Chironominae sp.*			
207.		*Chlaenius australis*			
208.		*Choerodon cyanodus*			
209.		*Chroicocephalus novaehollandiae*			
210.	24431	*Chrysococcyx basalis (Horsfield's Bronze Cuckoo)*			
211.	24434	*Chrysococcyx osculans (Black-eared Cuckoo)*			
212.	24288	*Circus approximans (Swamp Harrier)*			
213.	24289	*Circus assimilis (Spotted Harrier)*			
214.	24774	*Cladorhynchus leucocephalus (Banded Stilt)*			
215.		*Cloeon sp.*			
216.		*Cloeon sp. P1 (PSW)*			
217.		*Cocconeis placentula var. euglypta ehr.*			
218.		*Coenagrionidae sp.*			
219.	25675	*Colluricincla harmonica (Grey Shrike-thrush)*			
220.	24399	*Columba livia (Domestic Pigeon)*	Y		
221.		*Colurodontis paxmani*			
222.	25568	*Coracina novaehollandiae (Black-faced Cuckoo-shrike)*			
223.		*Coradion chrysozonus*			
224.		*Corduliidae sp.*			
225.		*Coris aygula*			
226.		*Corixidae sp.*			
227.	24416	*Corvus bennetti (Little Crow)*			
228.	25593	*Corvus orru (Torresian Crow)*			
229.	24671	*Coturnix pectoralis (Stubble Quail)*			
230.	25701	*Coturnix ypsilophora (Brown Quail)*			
231.	24420	*Cracticus nigrogularis (Pied Butcherbird)*			
232.	25595	*Cracticus tibicen (Australian Magpie)*			
233.		*Cracticus tibicen subsp. longirostris*			Y
234.	25596	*Cracticus torquatus (Grey Butcherbird)*			
235.		*Craterocephalus capreoli*			
236.		*Craticula cuspidata (Grun. ex. Van Heurck) Mann*			
237.		*Craticula halophila (Grun. ex. Van Heurck) Mann*			
238.		*Cryptochironomus griseidorsum*			
239.		*Cryptodus caviceps*			
240.		*Cryptoerithus occultus*			
241.	25458	*Ctenophorus caudicinctus (Ring-tailed Dragon)*			
242.	24865	*Ctenophorus caudicinctus subsp. caudicinctus (Ring-tailed Dragon)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
243.	24872	*Ctenophorus femoralis (Dune Dragon)*			
244.	25459	*Ctenophorus isolepis (Crested Dragon, Military Dragon)*			
245.	24875	*Ctenophorus isolepis subsp. gularis (Central Military Dragon)*			
246.	24876	*Ctenophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon)*			
247.	24882	*Ctenophorus nuchalis (Central Netted Dragon)*			
248.	24886	*Ctenophorus reticulatus (Western Netted Dragon)*			
249.	24885	*Ctenophorus rubens (Red Dragon)*			
250.	24887	*Ctenophorus rufescens (Red Rock Dragon)*			
251.		*Ctenotrypauchen microcephalus*			
252.	25032	*Ctenotus calurus*			
253.	25036	*Ctenotus duricola*			
254.	25462	*Ctenotus grandis*			
255.	25043	*Ctenotus grandis subsp. titan*			
256.	25044	*Ctenotus hanloni*			
257.	25045	*Ctenotus helenae*			
258.	25046	*Ctenotus iapetus*			
259.	25053	*Ctenotus maryani*			
260.	25463	*Ctenotus pantherinus (Leopard Ctenotus)*			
261.	25064	*Ctenotus pantherinus subsp. ocellifer (Leopard Ctenotus)*			
262.	25066	*Ctenotus quattuordecimlineatus*			
263.	25069	*Ctenotus rufescens*			
264.	25073	*Ctenotus saxatilis (Rock Ctenotus)*			
265.	25074	*Ctenotus schomburgkii*			
266.		*Culicidae sp.*			
267.		*Culicoides sp.*			
268.		*Cybister tripunctatus*			
269.	25466	*Cyclodomorphus melanops (Slender Blue-tongue)*			
270.	25090	*Cyclodomorphus melanops subsp. melanops (Slender Blue-tongue)*			
271.	25375	*Cyclorana maini (Sheep Frog)*			
272.	25376	*Cyclorana platycephala (Water-holding Frog)*			
273.	24322	*Cygnus atratus (Black Swan)*			
274.		*Cylotella menghiniana Kütz.*			
275.		*Cymbacephalus staigeri?*			
276.		*Cypretta 'triangulum'*			
277.		*Cypretta ?lutea*			
278.		*Cypretta baylyi*			
279.		*Cypricercus salinus*			
280.		*Cypricercus sp. 422 (CB)*			
281.		*Cypricercus sp. 442 (CB)*			
282.	25547	*Dacelo leachii (Blue-winged Kookaburra)*			
283.	24304	*Dacelo leachii subsp. leachii (Blue-winged Kookaburra)*			
284.		*Dactylopus dactylopus*			
285.		*Daphnia carinata*			
286.	24091	*Dasykaluta rosamondae (Little Red Kaluta)*			
287.	25000	*Delma haroldi*			
288.	25001	*Delma nasuta*			
289.	25002	*Delma pax*			
290.	25004	*Delma tincta*			
291.	25468	*Demansia psammophis (Yellow-faced Whipsnake)*			
292.	25295	*Demansia psammophis subsp. cupreiceps (Yellow-faced Whipsnake)*			
293.		*Deminutiocandona 'atope' (PSS)*			Y
294.	24325	*Dendrocygna eytoni (Plumed Whistling Duck)*			
295.		*Diacyclops cockingi*			
296.		*Diacyclops humphreysi humphreysi*			
297.		*Dicranophorus epicharis*			
298.		*Dicrotendipes sp P4 (PSW)*			
299.		*Difflugia sp. P1*			
300.		*Dineutus australis*			
301.		*Diplacodes bipunctata*			
302.		*Diplacodes haematodes*			
303.	47932	*Diplodactylus bilybara (Western Fat-tailed Gecko)*			
304.	24926	*Diplodactylus conspicillatus (Fat-tailed Gecko)*			
305.	24940	*Diplodactylus pulcher*			
306.	42400	*Diporiphora adductus (Carnarvon Dragon)*			
307.	42401	*Diporiphora paraconvergens (Grey-striped Western Desert Dragon)*			
308.		*Dissotrocha sp.*			
309.		*Drepane punctata*			
310.	24470	*Dromaius novaehollandiae (Emu)*			
311.		*Drombus triangularis*			
312.		*Dytiscidae sp.*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
313.		*Echeneis naucrates*			
314.		*Ecnomidae sp.*			
315.		*Egretta garzetta*			
316.		*Egretta novaehollandiae*			
317.		*Elanus axillaris*			
318.	25540	*Elanus caeruleus (Black-shouldered Kite)*			
319.		*Elops hawaiensis*			
320.	47937	*Elseyornis melanops (Black-fronted Dotterel)*			
321.	24631	*Emblema pictum (Painted Finch)*			
322.		*Engraulis australis?*			Y
323.		*Enochrus deserticola*			
324.		*Eolophus roseicapillus*			
325.	25362	*Ephalophis greyae*			
326.	24387	*Ephippiorhynchus asiaticus subsp. australis (Black-necked Stork)*			
327.		*Ephydridae sp.*			
328.		*Epinephelus amblycephalus*			
329.		*Epinephelus corallicola*			
330.		*Epinephelus lanceolatus*			
331.		*Epinephelus malabaricus*			
332.		*Epinephelus multinotatus*			
333.		*Epinephelus quoyanus*			
334.		*Epinephelus rankini (invalid)*			Y
335.		*Epinephelus rivulatus*			
336.		*Epinephelus sexfasciatus*			
337.		*Epinephelus sp.*			
338.		*Epinephelus tauvina*			
339.		*Epistylis sp*			
340.	24568	*Epthianura aurifrons (Orange Chat)*			
341.	24570	*Epthianura tricolor (Crimson Chat)*			
342.	24258	*Equus caballus (Horse)*	Y		
343.	43381	*Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand Swimmer)*			
344.	24837	*Eremiornis carteri (Spinifex-bird)*			
345.		*Eretes australis*			
346.	24379	*Erythrogonys cinctus (Red-kneed Dotterel)*			
347.	47938	*Esacus magnirostris (Beach Stone-curlew, Beach Thick-knee)*			
348.		*Escualosa thoracata*			Y
349.		*Euglypha sp.*			
350.		*Eunotia bilunaris (Ehr.) Mills.*			
351.		*Eunotia pectinatus (Dillw.) Rabh.*			
352.	24368	*Eurostopodus argus (Spotted Nightjar)*			
353.		*Eurypegasus draconis*			
354.		*Eurysticta coolawanyah*			
355.	25621	*Falco berigora (Brown Falcon)*			
356.	25622	*Falco cenchroides (Australian Kestrel, Nankeen Kestrel)*			
357.	24472	*Falco cenchroides subsp. cenchroides (Australian Kestrel, Nankeen Kestrel)*			
358.	25623	*Falco longipennis (Australian Hobby)*			
359.	24476	*Falco subniger (Black Falcon)*			
360.	24041	*Felis catus (Cat)*	Y		
361.		*Feroxodon multistriatus*			
362.		*Fistularia petimba*			
363.	25327	*Fordonia leucobalia (White-bellied Mangrove Snake)*			
364.		*Fragilaria ulna (Nitz.) Lange Bertalot*			
365.	25727	*Fulica atra (Eurasian Coot)*			
366.	25301	*Furina ornata (Moon Snake)*			
367.	25730	*Gallirallus philippensis (Buff-banded Rail)*			
368.	42314	*Gavicalis virescens (Singing Honeyeater)*			
369.	24952	*Gehyra australis*			
370.	24956	*Gehyra pilbara*			
371.	24958	*Gehyra punctata*			
372.	24957	*Gehyra purpurascens*			
373.	24959	*Gehyra variegata*			
374.	24401	*Geopelia cuneata (Diamond Dove)*			
375.	24402	*Geopelia humeralis (Bar-shouldered Dove)*			
376.	25585	*Geopelia striata (Zebra Dove)*			
377.	24403	*Geopelia striata subsp. placida (Peaceful Dove)*			
378.	24404	*Geophaps plumifera (Spinifex Pigeon)*			
379.		*Gerres filamentosus*			
380.		*Gerres oyena*			
381.		*Gerres sp.*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
382.		*Gerres subfasciatus*			
383.		*Gerridae sp.*			
384.	25531	*Gerygone levigaster (Mangrove Gerygone)*			
385.	24276	*Gerygone tenebrosa (Dusky Gerygone)*			
386.		*Gigadema bostocki*			
387.		*Gomphonema parvulum (Kütz.) Kütz.*			
388.	24443	*Grallina cyanoleuca (Magpie-lark)*			
389.	24484	*Grus rubicunda (Brolga)*			
390.		*Guineaxonopsis sp. S1 (PSS)*			
391.		*Gymnocranius grandoculis*			
392.		*Gymnothorax undulatus*			
393.	25627	*Haematopus fuliginosus (Sooty Oystercatcher)*			
394.	24487	*Haematopus longirostris (Pied Oystercatcher)*			
395.		*Halacaridae sp. 1 (PSS)*			
396.	24293	*Haliaeetus leucogaster (White-bellied Sea-Eagle)*			
397.	25541	*Haliastur indus (Brahminy Kite)*			
398.	24294	*Haliastur indus subsp. girrenera (Brahminy Kite)*			
399.	24295	*Haliastur sphenurus (Whistling Kite)*			
400.		*Haliplus sp.*			
401.		*Halophryne diemensis*			
402.		*Halophryne ocellatus*			
403.	24297	*Hamirostra melanosternon (Black-breasted Buzzard)*			
404.		*Hantzschia amphioxys (Ehr.) Grun.*			
405.		*Hebridae sp.*			
406.		*Helluapterus niger*			
407.		*Hemicordulia tau*			
408.		*Hemicypris megalops*			
409.	25232	*Hemidactylus frenatus (Asian House Gecko)*	Y		
410.		*Hemigaleus australiensis*			
411.		*Hemigaleus sp.*			
412.		*Hemiramphus robustus*			
413.		*Herklotsichthys blackburni*			
414.		*Herklotsichthys collettei*			
415.		*Herklotsichthys collettei?*			Y
416.		*Herklotsichthys koningsbergeri*			
417.		*Herklotsichthys quadrimaculatus*			Y
418.	24961	*Heteronotia binoei (Bynoe's Gecko)*			
419.		*Hexarthra mira*			
420.	47965	*Hieraaetus morphnoides (Little Eagle)*			
421.		*Hilsa kelee?*			Y
422.	25734	*Himantopus himantopus (Black-winged Stilt)*			
423.	24775	*Himantopus himantopus subsp. leucocephalus (Black-winged Stilt)*			
424.		*Hippocampus sp.*			
425.		*Hippocampus tuberculatus*			
426.	24491	*Hirundo neoxena (Welcome Swallow)*			
427.		*Hoggicosa snelli*			
428.		*Holconia westralia*			
429.		*Hydrachna sp. 4/5 (PSW)*			
430.		*Hydraenidae sp.*			
431.		*Hydrobiidae sp.*			
432.		*Hydroglyphus grammopterus (=trilineatus)*			
433.		*Hydroglyphus leai*			
434.		*Hydrophilidae sp.*			
435.	44656	*Hydrophis major (Olive-headed seasnake, greater seasnake)*			
436.	42410	*Hydrophis ornatus (Ornate Reef Seasnake, Sea Snake)*			
437.	43385	*Hydrophis stokesii (Stoke's Seasnake, Sea Snake)*			
438.		*Hydropsychidae sp.*			
439.		*Hyphydrus sp.*			
440.		*Hypopterus macropterus*			
441.		*Ilyocypris 'spiculata' (ms name) (SAP)*			
442.		*Ilyodromus sp. PB*			
443.		*Indolpium sp.*			
444.		*Inimicus sinensis*			
445.		*Ischnura aurora aurora*			
446.		*Isidorella egraria*			
447.		*Isocypris williamsi (ex Ilyodromus sp. 413)*			
448.		*Isopedella tindalei*			
449.		*Isostictidae sp.*			
450.		*Istiblennius meleagris*			
451.		*Keratella procurva*			

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452.		*Keratella tropica*			
453.		*Laccophilus sharpi*			
454.		*Lactoria cornuta*			
455.		*Lactoria diaphana*			
456.	24367	*Lalage tricolor (White-winged Triller)*			
457.		*Lampona ampeinna*			
458.		*Lamponina scutata*			
459.	25637	*Larus novaehollandiae (Silver Gull)*			
460.		*Latonopsis brehmi*			
461.		*Lecane cf. pertica*			Y
462.		*Lecane halsei*			
463.		*Lecane n. sp. psw031 (like signifera but tall)*			Y
464.		*Leiognathus decorus*			
465.		*Leiognathus equulus*			
466.		*Leiopotherapon unicolor*			
467.		*Leptoceridae sp.*			
468.	25124	*Lerista baynesi*			
469.	25125	*Lerista bipes*			
470.	30928	*Lerista clara*			
471.	25133	*Lerista elegans*			
472.	25158	*Lerista onsloviana*			
473.	25176	*Lerista uniduo (Spotted Broad-blazed Slider, skink)*			
474.		*Lethocerus distinctifemur*			
475.		*Lethrinus sp.*			
476.	25005	*Lialis burtonis*			
477.		*Libellulidae sp.*			
478.	25661	*Lichmera indistincta (Brown Honeyeater)*			
479.	24582	*Lichmera indistincta subsp. indistincta (Brown Honeyeater)*			
480.		*Limnesia sp. 4 (PSW)*			
481.		*Limnocytheridae n.gen. sp 419 (CB)*			
482.		*Liparetrus sp.*			Y
483.	25380	*Litoria caerulea (Green Tree Frog)*			
484.	25392	*Litoria rubella (Little Red Tree Frog)*			
485.		*Liza melinoptera*			
486.		*Liza sp.*			
487.		*Liza subviridis*			
488.		*Liza vaigiensis*			
489.		*Lophiocharon trisignatus*			
490.		*Lophoictinia isura*			
491.		*Loxandrus micantior*			
492.	30933	*Lucasium stenodactylum*			
493.	30934	*Lucasium wombeyi*			
494.		*Lutjanus argentimaculatus*			
495.		*Lutjanus erythropterus*			
496.		*Lutjanus fulviflamma*			
497.		*Lutjanus malabaricus*			
498.		*Lutjanus russellii*			
499.		*Lychas sp. 2*			
500.		*Lycidas sp. 1*			
501.		*Lymnaeidae sp.*			
502.	25489	*Macropus robustus (Euro, Biggada)*			
503.	24136	*Macropus rufus (Red Kangaroo, Marlu)*			
504.		*Macrothrix indistincta*			
505.	24326	*Malacorhynchus membranaceus (Pink-eared Duck)*			
506.	25651	*Malurus lamberti (Variegated Fairy-wren)*			
507.	25652	*Malurus leucopterus (White-winged Fairy-wren)*			
508.	24549	*Malurus leucopterus subsp. leuconotus (White-winged Fairy-wren)*			
509.	25654	*Malurus splendens (Splendid Fairy-wren)*			
510.	24583	*Manorina flavigula (Yellow-throated Miner)*			
511.		*Masasteron gracilis*			
512.		*Masasteron tealei*			
513.		*Mastogloia smithii Thwaites*			
514.		*Meedo houstoni*			
515.		*Megacephala greyana*			
516.		*Megalaspis cordyla*			
517.		*Megalops cyprinoides*			
518.	47995	*Megalurus mathewsi (Rufous Songlark)*			
519.		*Megaporus sp.*			
520.		*Melanotaenia australis*			
521.		*Melitidae sp. 1 (PSS)*			

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522.	24736	*Melopsittacus undulatus (Budgerigar)*			
523.		*Mene maculata*			
524.	25184	*Menetia greyii*			
525.	24598	*Merops ornatus (Rainbow Bee-eater)*			
526.		*Mesocyclops brooksi*			
527.		*Mesoveliidae sp.*			
528.		*Microcarbo melanoleucos*			
529.		*Microcyclops varicans*			
530.		*Micronecta gracilis*			
531.		*Micronecta sp.*			
532.	25542	*Milvus migrans (Black Kite)*			
533.	24298	*Milvus migrans subsp. affinis (Black Kite)*			
534.		*Minasteron minusculum*			
535.	25545	*Mirafra javanica (Horsfield's Bushlark, Singing Bushlark)*			
536.	24302	*Mirafra javanica subsp. horsfieldii (Horsfield's Bushlark, Singing Bushlark)*			
537.		*Mirafra javanica subsp. woodwardi*			Y
538.		*Missulena rutraspina*			
539.		*Moina cf. australiensis (CB)*			
540.		*Moina micrura s.l.*			
541.	25495	*Morethia ruficauda*			
542.	25193	*Morethia ruficauda subsp. exquisita*			
543.	25194	*Morethia ruficauda subsp. ruficauda*			
544.		*Mugil cephalus*			
545.		*Muraenesox cinereus*			
546.	24223	*Mus musculus (House Mouse)*	Y		
547.		*Navicula cryptonella Lange-Bertalot*			
548.		*Navicula molestiformis Hust.*			
549.		*Nematalosa come*			
550.		*Nematalosa erebi*			
551.		*Nematalosa sp.*			
552.		*Nematalosa vlaminghi*			
553.		*Nematoda sp. 7 (PSS)*			Y
554.		*Nematoda sp. 8 (PSS)*			Y
555.		*Nematoda sp. P6 (PSW)*			
556.	25422	*Neobatrachus aquilonius (Northern Burrowing Frog)*			
557.	25424	*Neobatrachus fulvus (Tawny Trilling Frog)*			
558.	25685	*Neochmia ruficauda (Star Finch)*			
559.		*Neopomacentrus filamentosus*			
560.		*Neothrix armata*			
561.	25497	*Nephrurus levis*			
562.	24968	*Nephrurus levis subsp. occidentalis*			
563.	24969	*Nephrurus levis subsp. pilbarensis*			
564.	24972	*Nephrurus wheeleri subsp. cinctus*			
565.		*Netuma thalassina*			Y
566.		*Nilobezzia sp. P2 (PSW)*			
567.	24095	*Ningaui timealeyi (Pilbara Ningaui)*			
568.	25747	*Ninox connivens (Barking Owl)*			
569.		*Nitzschia filiformis (W. Sm.) Van Heurck*			
570.		*Nitzschia frustulum (Kütz.) Grun.*			
571.		*Nitzschia palea (Kütz.) W. Sm.*			
572.		*Nitzschia sigma (Kütz.) W. Sm.*			
573.		*Nitzschia umbonata (Ehr.) Lange-Bertalot*			
574.		*No invertebrates*			
575.	25430	*Notaden nichollsi (Desert Spadefoot)*			
576.		*Notobathynella sp.*			
577.	24224	*Notomys alexis (Spinifex Hopping-mouse)*			
578.		*Notonectidae sp.*			
579.		*Notsodipus barlee*			
580.	25564	*Nycticorax caledonicus (Rufous Night Heron)*			
581.	24194	*Nyctophilus geoffroyi (Lesser Long-eared Bat)*			
582.	24742	*Nymphicus hollandicus (Cockatiel)*			
583.	24407	*Ocyphaps lophotes (Crested Pigeon)*			
584.		*Oecetis sp.*			
585.		*Oecetis sp. Pilbara 5 (PSW)*			
586.		*Oligochaeta sp.*			
587.		*Omobranchus punctatus*			
588.		*Onthophagus margaretensis*			
589.		*Onthophagus neboissi*			
590.		*Ophichthus cephalozona*			
591.	24618	*Oreoica gutturalis (Crested Bellbird)*			

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592.		*Orthetrum caledonicum*			
593.	24085	*Oryctolagus cuniculus (Rabbit)*	Y		
594.		*Ostracoda (unident.)*			
595.		*Ozestheria packardi*			
596.	24620	*Pachycephala lanioides (White-breasted Whistler)*			
597.	24621	*Pachycephala melanura subsp. melanura (Mangrove Golden Whistler)*			
598.	25680	*Pachycephala rufiventris (Rufous Whistler)*			
599.		*Pantala flavescens*			
600.		*Parachaeturichthys polynema*			
601.		*Paracymus spenceri*			
602.		*Paramecium sp.*			
603.		*Paramelitidae sp.*			
604.		*Paraplagusia bilineata*			
605.		*Paraplotosus albilabris*			
606.		*Parastenocarididae sp.*			
607.		*Parastenocaris jane*			
608.		*Parastromateus niger*			
609.	24627	*Pardalotus rubricatus (Red-browed Pardalote)*			
610.	25682	*Pardalotus striatus (Striated Pardalote)*			
611.	24642	*Passer montanus (Eurasian Tree Sparrow)*	Y		
612.		*Pelates octolineatus*			
613.	24648	*Pelecanus conspicillatus (Australian Pelican)*			
614.		*Pellona ditchela*			
615.		*Pentapodus vitta*			
616.		*Periophthalmus argentilineatus*			
617.		*Peristrominous dolosus*			
618.		*Pescecyclops sp. 442=462=465=CB2 (salinarum in Morton)*			
619.	48060	*Petrochelidon ariel (Fairy Martin)*			
620.	48061	*Petrochelidon nigricans (Tree Martin)*			
621.	24659	*Petroica goodenovii (Red-capped Robin)*			
622.		*Pezidae sp.*			
623.	25697	*Phalacrocorax carbo (Great Cormorant)*			
624.	25698	*Phalacrocorax melanoleucos (Little Pied Cormorant)*			
625.	24667	*Phalacrocorax sulcirostris (Little Black Cormorant)*			
626.	25699	*Phalacrocorax varius (Pied Cormorant)*			
627.	24409	*Phaps chalcoptera (Common Bronzewing)*			
628.	24411	*Phaps histrionica (Flock Bronzewing, Flock Pigeon)*			
629.		*Phorticosomus gularis*			
630.		*Phreodrilid with dissimilar ventral chaetae*			
631.		*Phreodrilid with similar ventral chaetae*			
632.		*Phreodrilus n. sp. WA32 (PSS)*			
633.		*Pilbarus millsi*			
634.		*Pinnularia borealis*			
635.		*Pinnularia divergens W. Sm.*			
636.		*Pinnularia subrostrata (A. Cl.) Cl.-Euler*			
637.		*Pisodonophis cancrivorus*			
638.	24101	*Planigale ingrami (Long-tailed Planigale)*			
639.		*Planorbidae sp.*			
640.	24841	*Platalea flavipes (Yellow-billed Spoonbill)*			
641.	24842	*Platalea regia (Royal Spoonbill)*			
642.		*Platax teira*			
643.		*Platycephalus indicus*			
644.		*Platycephalus sp.*			
645.	25721	*Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)*			
646.	24751	*Platycercus zonarius subsp. zonarius (Port Lincoln Parrot)*			
647.		*Platycoelus melliei*			
648.		*Plectorhinchus flavomaculatus*			
649.		*Plectorhinchus gibbosus*			
650.		*Plectorhinchus polytaenia*			
651.		*Pleidae sp.*			
652.		*Plotosus lineatus*			
653.	25703	*Podargus strigoides (Tawny Frogmouth)*			
654.	25510	*Pogona minor (Dwarf Bearded Dragon)*			
655.	24907	*Pogona minor subsp. minor (Dwarf Bearded Dragon)*			
656.	24681	*Poliocephalus poliocephalus (Hoary-headed Grebe)*			
657.		*Polyarthra dolichoptera*			
658.		*Polydactylus multiradiatus*			
659.		*Polydactylus plebius*			
660.		*Polypedilum leei*			
661.		*Pomadasys argenteus*			

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662.		*Pomadasys kaakan*			
663.		*Pomatomus saltatrix*			
664.	25706	*Pomatostomus temporalis (Grey-crowned Babbler)*			
665.	24684	*Pomatostomus temporalis subsp. rubeculus (Grey-crowned Babbler)*			
666.	24769	*Porzana fluminea (Australian Spotted Crake)*			
667.	25732	*Porzana pusilla (Baillon's Crake)*			
668.		*Procladius paludicola*			
669.		*Protonibea diacanthus*			
670.		*Psammoperca waigiensis*			
671.		*Psettodes erumei*			
672.	24105	*Pseudantechinus roryi (Rory's Pseudantechinus)*			
673.	25261	*Pseudechis australis (Mulga Snake)*			
674.	24235	*Pseudomys desertor (Desert Mouse)*			
675.	24237	*Pseudomys hermannsburgensis (Sandy Inland Mouse)*			
676.	42416	*Pseudonaja mengdeni (Western Brown Snake)*			
677.	25263	*Pseudonaja modesta (Ringed Brown Snake)*			
678.	25264	*Pseudonaja nuchalis (Gwardar, Northern Brown Snake)*			
679.		*Pseudorhombus argus*			
680.		*Pseudorhombus arsius*			
681.	24390	*Psophodes occidentalis (Western Wedgebill, Chiming Wedgebill)*			
682.		*Pterois antennata*			
683.		*Pterois volitans*			
684.	24173	*Pteropus scapulatus (Little Red Flying-fox)*			
685.	25009	*Pygopus nigriceps*			
686.	24278	*Pyrrholaemus brunneus (Redthroat)*			
687.		*Rachycentron canadum*			
688.	24245	*Rattus rattus (Black Rat)*	Y		
689.	24776	*Recurvirostra novaehollandiae (Red-necked Avocet)*			
690.		*Rheotanytarsus juliae*			
691.	48096	*Rhipidura albiscapa (Grey Fantail)*			
692.	25614	*Rhipidura leucophrys (Willie Wagtail)*			
693.	24457	*Rhipidura phasiana (Mangrove Grey Fantail)*			
694.	24982	*Rhynchoedura ornata (Western Beaked Gecko)*			
695.		*Sardinella albella*			Y
696.		*Sardinella gibbosa*			
697.		*Sargocentron praslin*			
698.		*Sargocentron rubrum*			
699.		*Saurida nebulosa*			
700.		*Scolopendra laeta*			
701.		*Scomberoides commersonnianus*			
702.		*Scomberoides lysan*			
703.		*Scomberoides lysan?*			Y
704.		*Scomberoides tol*			
705.		*Scomberomorus commerson*			
706.		*Scomberomorus queenslandicus*			
707.		*Scomberomorus semifasciatus*			
708.		*Selaroides leptolepis*			
709.		*Selenotoca multifasciata*			
710.		*Siganus fuscescens*			
711.		*Sillago analis*			
712.		*Sillago burrus*			
713.		*Sillago ingenuua?*			Y
714.		*Sillago lutea*			
715.		*Sillago sihama*			
716.	25305	*Simoselaps anomalus (Desert Banded Snake)*			
717.	30948	*Smicrornis brevirostris (Weebill)*			
718.	24116	*Sminthopsis macroura (Stripe-faced Dunnart)*			
719.	24120	*Sminthopsis youngsoni (Lesser Hairy-footed Dunnart)*			
720.		*Sphyraena barracuda*			
721.		*Stauroneis anceps Ehr.*			
722.		*Staurosira construens Ehr.*			
723.	24521	*Sterna bengalensis (Lesser Crested Tern)*			
724.	24522	*Sterna bergii (Crested Tern)*			
725.	25643	*Sterna hybrida (Whiskered Tern)*			
726.		*Sternopriscus sp.*			
727.	48594	*Sternula nereis (Fairy Tern)*			
728.	24482	*Stiltia isabella (Australian Pratincole)*			
729.	25656	*Stipiturus ruficeps (Rufous-crowned Emu-wren)*			
730.		*Stolephorus carpentariae*			
731.		*Stolephorus commersonii*			

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732.		*Strongylura strongylura*			
733.	24927	*Strophurus elderi*			
734.	24932	*Strophurus jeanae*			
735.	24942	*Strophurus spinigerus subsp. spinigerus*			
736.	24946	*Strophurus strophurus*			
737.		*Stygonitocrella bispinosa*			
738.		*Supunna picta*			
739.	25269	*Suta fasciata (Rosen's Snake)*			
740.	25307	*Suta punctata (Spotted Snake)*			
741.		*Synanceia horrida*			
742.		*Tabanidae sp.*			
743.	25705	*Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)*			
744.	24207	*Tachyglossus aculeatus (Short-beaked Echidna)*			
745.	30870	*Taeniopygia guttata (Zebra Finch)*			
746.		*Tanypodinae sp.*			
747.		*Tasmanocoenis arcuata*			
748.		*Tasmanocoenis sp. E (PSW)*			
749.		*Tathicarpus butleri*			
750.		*Terapon jarbua*			
751.		*Terapon puta*			
752.		*Terapon thaeraps*			Y
753.		*Terapon theraps*			
754.		*Testudinella cf trilobata (=sp P3 PSW)*			
755.		*Testudinella patina*			
756.		*Thalasseus bengalensis*			
757.	24845	*Threskiornis spinicollis (Straw-necked Ibis)*			
758.		*Thryssa mystax?*			
759.		*Thryssa scratchleyi?*			
760.		*Thryssa setirostris*			
761.	25202	*Tiliqua multifasciata (Central Blue-tongue)*			
762.	25548	*Todiramphus chloris (Collared Kingfisher)*			
763.	24306	*Todiramphus chloris subsp. pilbara (Pilbara Collared Kingfisher)*			
764.	42351	*Todiramphus pyrrhopygius (Red-backed Kingfisher)*			
765.	25549	*Todiramphus sanctus (Sacred Kingfisher)*			
766.		*Trachinotus baillonii*			
767.		*Triacanthus biaculeatus*			
768.	48141	*Tribonyx ventralis (Black-tailed Native-hen)*			
769.		*Trichocarenum cylindricum*			
770.		*Trichocerca cf. tigris*			Y
771.		*Trichocerca similis*			
772.		*Trichocerca tigris*			
773.		*Trichocyclus nigropunctatus*			
774.		*Trichocyclus warianga*			
775.		*Triops australiensis australiensis*			
776.		*Triplectides australis*			
777.		*Turbellaria sp.*			
778.	24848	*Turnix pyrrhothorax (Red-chested Button-quail)*			
779.	24851	*Turnix velox (Little Button-quail)*			
780.	30954	*Tursiops aduncus (Indo-Pacific Bottlenose Dolphin)*			
781.	25762	*Tyto alba (Barn Owl)*			
782.		*Urodacus varians*			
783.	25577	*Vanellus miles (Masked Lapwing)*			
784.	24386	*Vanellus tricolor (Banded Lapwing)*			
785.	25209	*Varanus acanthurus (Spiny-tailed Monitor)*			
786.	25210	*Varanus brevicauda (Short-tailed Pygmy Monitor)*			
787.	30825	*Varanus bushi (Pilbara Mulga Monitor)*			
788.	25211	*Varanus caudolineatus*			
789.	25212	*Varanus eremius (Pygmy Desert Monitor)*			
790.	25218	*Varanus gouldii (Bungarra or Sand Monitor)*			
791.	25524	*Varanus panoptes (Yellow-spotted Monitor)*			
792.	25223	*Varanus panoptes subsp. rubidus*			
793.	25526	*Varanus tristis (Racehorse Monitor)*			
794.		*Veliidae sp.*			
795.	24040	*Vulpes vulpes (Red Fox)*	Y		
796.		*Wydundra kennedy*			
797.		*Xanthagrion erythroneurum*			
798.		*Xyrichtys sp.*			
799.		*Yongeichthys nebulosus*			
800.		*Zabidius novemaculeatus*			
801.	25765	*Zosterops lateralis (Grey-breasted White-eye, Silvereye)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
802.	24857	*Zosterops luteus (Yellow White-eye)*			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

[1] For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

NatureMap Fauna Species Report

Created By Colleen McDonald on 02/06/2020

Kingdom	Animalia
Current Names Only	Yes
Core Datasets Only	Yes
Method	'By Line'
Vertices	21° 54' 02" S,115° 39' 16" E 21° 57' 51" S,115° 57' 15" E 22° 04' 02" S,116° 11' 05" E
Group By	Conservation Status

Conservation Status	Species	Records
Non-conservation taxon	461	2322
Other specially protected fauna	1	1
Priority 4	2	17
Rare or likely to become extinct	5	244
TOTAL	**469**	**2584**

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
Rare or likely to become extinct					
1.	24093	*Dasyurus hallucatus (Northern Quoll)*		T	
2.	25238	*Liasis olivaceus subsp. barroni (Pilbara Olive Python)*		T	
3.	24180	*Macroderma gigas (Ghost Bat)*		T	
4.	48095	*Rhinonicteris aurantia (Pilbara) (Pilbara leaf-nosed bat)*		T	
5.	24157	*Trichosurus vulpecula subsp. arnhemensis (northern brushtail possum (Kimberley))*		T	
Other specially protected fauna					
6.	25624	*Falco peregrinus (Peregrine Falcon)*		S	
Priority 4					
7.	24233	*Pseudomys chapmani (Western Pebble-mound Mouse, Ngadji)*		P4	
8.	43368	*Rhinonicteris aurantia (Orange Leaf-nosed bat)*		P4	
Non-conservation taxon					
9.		*Abnitocrella sp. 3 (PSS)*			
10.	24559	*Acanthagenys rufogularis (Spiny-cheeked Honeyeater)*			
11.	24260	*Acanthiza apicalis (Broad-tailed Thornbill, Inland Thornbill)*			
12.		*Acanthophis sp.*			
13.	25332	*Acanthophis wellsi (Pilbara Death Adder)*			
14.		*Acariformes sp.*			
15.	25535	*Accipiter cirrocephalus (Collared Sparrowhawk)*			
16.	25536	*Accipiter fasciatus (Brown Goshawk)*			
17.		*Achnanthes exigua Grun.*			
18.		*Achnanthes exilis Kütz.*			
19.		*Achnanthidium minutissima (Kütz.) Czarnecki*			
20.		*Achnanthidium minutissima var. affinis (grun.) lange-bertalot*			
21.	25755	*Acrocephalus australis (Australian Reed Warbler)*			
22.	25544	*Aegotheles cristatus (Australian Owlet-nightjar)*			
23.		*Aeolosoma sp. 1 (PSS)*			
24.		*Allonais pectinata*			
25.		*Alluaudomyia sp.*			
26.		*Alona rigidicaudis*			
27.	30833	*Amphibolurus longirostris (Long-nosed Dragon)*			
28.	25647	*Amytornis striatus (Striated Grasswren)*			
29.	24312	*Anas gracilis (Grey Teal)*			
30.	24316	*Anas superciliosa (Pacific Black Duck)*			
31.		*Anax papuensis*			
32.		*Ancylidae sp.*			
33.	47414	*Anhinga novaehollandiae (Australasian Darter)*			
34.		*Anomoeoneis styriaca (Grun.) Hust.*			
35.		*Anopheles annulipes s.l.*			
36.	25318	*Antaresia perthensis (Pygmy Python)*			
37.	25448	*Antaresia stimsoni (Stimson's Python)*			
38.	25670	*Anthus australis (Australian Pipit)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
39.		*Antichiropus sp.*			
40.		*Antiporus bakewelli*			
41.	24285	*Aquila audax (Wedge-tailed Eagle)*			
42.		*Arcella sp.*			
43.	41324	*Ardea modesta (great egret, white egret)*			
44.	24341	*Ardea pacifica (White-necked Heron)*			
45.	24610	*Ardeotis australis (Australian Bustard)*			
46.		*Argiocnemis rubescens*			
47.		*Armatalona macrocopa*			
48.		*Arrenurus (Arrenurus) ensifer*			
49.		*Arrenurus (Arrenurus) liliaceus*			
50.		*Arrenurus (Micruracarus) purpureus*			
51.	25566	*Artamus cinereus (Black-faced Woodswallow)*			
52.	25567	*Artamus leucorynchus (White-breasted Woodswallow)*			
53.	24355	*Artamus minor (Little Woodswallow)*			
54.	24356	*Artamus personatus (Masked Woodswallow)*			
55.		*Asadipus yundamindra*			
56.	25320	*Aspidites melanocephalus (Black-headed Python)*			
57.		*Australiobates queenslandensis*			
58.		*Australobolbus pseudobscurius*			
59.		*Austroagrion pindrina/Ischnura heterosticta*			
60.		*Austroepigomphus (Xerogomphus) gordoni*			
61.		*Austropeplea lessoni*			
62.		*Axonopsella nr truza (PSW)*			
63.		*Axonopsella sp. P2 (PSW)*			
64.		*Baetidae sp.*			
65.		*Barnardius zonarius*			
66.		*Bdelloidea sp. 2:2*			
67.		*Bolboleaus truncatus*			
68.		*Boongurrus occidentalis*			
69.	24251	*Bos taurus (European Cattle)*	Y		
70.	25715	*Cacatua roseicapilla (Galah)*			
71.	25716	*Cacatua sanguinea (Little Corella)*			
72.	42307	*Cacomantis pallidus (Pallid Cuckoo)*			
73.		*Caenidae sp.*			
74.		*Calanoida sp.*			
75.		*Caloneis silicula (Ehr.) Cl.*			
76.		*Carenum pulchrum*			
77.		*Carenum venustum*			
78.	25015	*Carlia munda (Shaded-litter Rainbow Skink)*			
79.		*Cavisternum clavatum*			
80.	25600	*Centropus phasianinus (Pheasant Coucal)*			
81.		*Ceratopogonidae sp.*			
82.	24181	*Chaerephon jobensis (Greater Northern Freetail-bat, Northern Mastiff Bat)*			
83.		*Chaetarthria nigerrimus*			
84.	24186	*Chalinolobus gouldii (Gould's Wattled Bat)*			
85.		*Chaoboridae sp.*			
86.		*Chironominae sp.*			
87.		*Chironomus aff. alternans (V24) (CB)*			
88.		*Chlaenius australis*			
89.	24431	*Chrysococcyx basalis (Horsfield's Bronze Cuckoo)*			
90.	24289	*Circus assimilis (Spotted Harrier)*			
91.		*Cloeon sp.*			
92.		*Coelopynia pruinosa*			
93.	25675	*Colluricincla harmonica (Grey Shrike-thrush)*			
94.		*Conochilus natans*			
95.	25568	*Coracina novaehollandiae (Black-faced Cuckoo-shrike)*			
96.		*Corixidae sp.*			
97.	24416	*Corvus bennetti (Little Crow)*			
98.	25593	*Corvus orru (Torresian Crow)*			
99.	25701	*Coturnix ypsilophora (Brown Quail)*			
100.	24420	*Cracticus nigrogularis (Pied Butcherbird)*			
101.	25595	*Cracticus tibicen (Australian Magpie)*			
102.	25596	*Cracticus torquatus (Grey Butcherbird)*			
103.	30892	*Cryptoblepharus ustulatus*			
104.		*Cryptochironomus griseidorsum*			
105.		*Cryptodus caviceps*			
106.	25458	*Ctenophorus caudicinctus (Ring-tailed Dragon)*			
107.	24865	*Ctenophorus caudicinctus subsp. caudicinctus (Ring-tailed Dragon)*			
108.	25459	*Ctenophorus isolepis (Crested Dragon, Military Dragon)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
109.	24876	*Ctenophorus isolepis subsp. isolepis (Crested Dragon, Military Dragon)*			
110.	24882	*Ctenophorus nuchalis (Central Netted Dragon)*			
111.	24886	*Ctenophorus reticulatus (Western Netted Dragon)*			
112.	25036	*Ctenotus duricola*			
113.	25462	*Ctenotus grandis*			
114.	25043	*Ctenotus grandis subsp. titan*			
115.	25044	*Ctenotus hanloni*			
116.	25045	*Ctenotus helenae*			
117.	25463	*Ctenotus pantherinus (Leopard Ctenotus)*			
118.	25064	*Ctenotus pantherinus subsp. ocellifer (Leopard Ctenotus)*			
119.	25065	*Ctenotus pantherinus subsp. pantherinus (Leopard Ctenotus)*			
120.	25072	*Ctenotus rubicundus*			
121.	25071	*Ctenotus rutilans*			
122.	25073	*Ctenotus saxatilis (Rock Ctenotus)*			
123.		*Culicidae sp.*			
124.		*Cupelopagis vorax*			
125.		*Cybister tripunctatus*			
126.	25466	*Cyclodomorphus melanops (Slender Blue-tongue)*			
127.	25090	*Cyclodomorphus melanops subsp. melanops (Slender Blue-tongue)*			
128.	25375	*Cyclorana maini (Sheep Frog)*			
129.		*Cylotella menghiniana Kütz.*			
130.		*Cymbella affinis Kütz.*			
131.		*Cymbella cistula (Ehr.) Kirchner*			
132.		*Cymbella cymbiformis Ag.*			
133.		*Cymbella delicatula Kütz.*			
134.		*Cymbella helvetica Kütz.*			Y
135.		*Cymbella microcephala Grun.*			
136.		*Cymbella silesiaca Bleisch*			
137.		*Cypretta seurati*			
138.	25547	*Dacelo leachii (Blue-winged Kookaburra)*			
139.		*Dasyheleinae sp. P1 (PSW)*			
140.	24091	*Dasykaluta rosamondae (Little Red Kaluta)*			
141.	25000	*Delma haroldi*			
142.	25001	*Delma nasuta*			
143.	25002	*Delma pax*			
144.	25004	*Delma tincta*			
145.	25468	*Demansia psammophis (Yellow-faced Whipsnake)*			
146.	25297	*Demansia rufescens (Rufous Whipsnake)*			
147.		*Dero nivea*			
148.		*Diacyclops humphreysi humphreysi*			
149.		*Diacyclops sobeprolatus*			
150.	25607	*Dicaeum hirundinaceum (Mistletoebird)*			
151.		*Dicrotendipes jobetus*			
152.		*Difflugia sp. P1*			
153.		*Diplacodes haematodes*			
154.	24926	*Diplodactylus conspicillatus (Fat-tailed Gecko)*			
155.	24944	*Diplodactylus savagei (Southern Pilbara Beak-faced Gecko)*			
156.		*Diploneis pseudovalis Hust.*			
157.	42401	*Diporiphora paraconvergens (Grey-striped Western Desert Dragon)*			
158.	24899	*Diporiphora valens (Southern Pilbara Tree Dragon)*			
159.		*Dolichopodidae sp.*			
160.	24470	*Dromaius novaehollandiae (Emu)*			
161.		*Dunhevedia crassa*			
162.		*Dytiscidae sp.*			
163.		*Ecnomidae sp.*			
164.		*Ecnomus pilbarensis*			
165.	25094	*Egernia formosa*			
166.		*Egretta novaehollandiae*			
167.		*Elaphoidella sp.*			
168.	47937	*Elseyornis melanops (Black-fronted Dotterel)*			
169.	24631	*Emblema pictum (Painted Finch)*			
170.		*Encyonema minutum (Hilse ex Rabh.) Mann*			
171.		*Eodiaptomus lumholtzi*			
172.		*Eolophus roseicapillus*			
173.		*Ephemeroporus barroisi s.l.*			
174.		*Ephydridae sp.*			
175.		*Epithemia smithii Carruthers*			
176.	24570	*Epthianura tricolor (Crimson Chat)*			
177.	42404	*Eremiascincus isolepis*			
178.	43381	*Eremiascincus pallidus (Western Narrow-banded Skink, Narrow-banded Sand*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
		Swimmer)			
179.	24837	*Eremiornis carteri (Spinifex-bird)*			
180.		*Euchlanis dilatata*			
181.		*Euchlanis oropha*			
182.		*Eucyclops australiensis*			
183.		*Euglypha sp.*			
184.		*Eunotia bilunaris (Ehr.) Mills.*			
185.	24368	*Eurostopodus argus (Spotted Nightjar)*			
186.		*Eurysticta coolawanyah*			
187.	25621	*Falco berigora (Brown Falcon)*			
188.	25622	*Falco cenchroides (Australian Kestrel, Nankeen Kestrel)*			
189.	24041	*Felis catus (Cat)*	Y		
190.		*Fragilaria capucina Desm.*			
191.		*Fragilaria tenera (W. Sm.) Lange-Bertalot*			
192.		*Fragilaria ulna (Nitz.) Lange Bertalot*			
193.	25301	*Furina ornata (Moon Snake)*			
194.	42314	*Gavicalis virescens (Singing Honeyeater)*			
195.	24958	*Gehyra punctata*			
196.	24959	*Gehyra variegata*			
197.	24401	*Geopelia cuneata (Diamond Dove)*			
198.	25585	*Geopelia striata (Zebra Dove)*			
199.	24403	*Geopelia striata subsp. placida (Peaceful Dove)*			
200.	24404	*Geophaps plumifera (Spinifex Pigeon)*			
201.		*Gerridae sp.*			
202.	24443	*Grallina cyanoleuca (Magpie-lark)*			
203.		*Gretacarus nsp. P1 (PSW)*			
204.		*Gretacarus sp.*			
205.		*Gymnocranius grandoculis*			
206.	24295	*Haliastur sphenurus (Whistling Kite)*			
207.		*Halosbaena tulki*			
208.		*Hantzschia amphioxys (Ehr.) Grun.*			
209.		*Hantzschia marina (Donk.) Cl.*			
210.		*Harpacticoida sp*			
211.		*Helluapterus niger*			
212.		*Hellyethira sp.*			
213.		*Hemicordulia koomina*			
214.	24961	*Heteronotia binoei (Bynoe's Gecko)*			
215.	24962	*Heteronotia spelea (Desert Cave Gecko, Pilbara Cave Gecko)*			
216.	25734	*Himantopus himantopus (Black-winged Stilt)*			
217.		*Hoggicosa snelli*			
218.		*Humphreyscandona 'akaina' (PSS)*			
219.		*Hydra sp.*			
220.		*Hydrachna sp. 4/5 (PSW)*			
221.		*Hydraena barbipes*			
222.		*Hydrochus eurypleuron*			
223.		*Hydrochus obscuroaeneus*			
224.		*Hydrochus sp. P1 (PSW)*			
225.		*Hydrodroma sp.*			
226.		*Hydroglyphus grammopterus (=trilineatus)*			
227.		*Hydroglyphus leai*			
228.		*Hydrophilidae sp.*			
229.		*Hydrovatus weiri*			
230.		*Ictinogomphus dobsoni*			
231.		*Ilyocryptus raridentatus*			
232.		*Ilyodromus sp BOS25*			
233.		*Ilyodromus sp.*			
234.		*Indolpium sp.*			
235.		*Ischnura aurora aurora*			
236.		*Isostictidae sp.*			
237.		*Karaops martamarta*			
238.	24367	*Lalage tricolor (White-winged Triller)*			
239.		*Larsia albiceps*			
240.		*Lecane batillifer*			
241.		*Lecane bulla*			
242.		*Lecane crepida*			
243.		*Lecane hornemanni*			
244.		*Lecane luna*			
245.		*Lecane lunaris*			
246.		*Lecane papuana*			
247.		*Lecane unguitata*			

	Name ID	Species Name	Naturalised	Conservation Code	Endemic To Query Area[1]
248.		*Leiopotherapon unicolor*			
249.		*Lepadella (H.) ehrenbergii*			
250.		*Lepadella (H.) heterostyla*			
251.		*Lepadella triptera*			
252.		*Lepidiota squamulata*			
253.		*Leptoceridae sp.*			
254.	30928	*Lerista clara*			
255.	25135	*Lerista flammicauda*			
256.	25155	*Lerista muelleri*			
257.		*Lesquereusia spiralis*			
258.		*Lethocerus distinctifemur*			
259.	25005	*Lialis burtonis*			
260.	25661	*Lichmera indistincta (Brown Honeyeater)*			
261.	24582	*Lichmera indistincta subsp. indistincta (Brown Honeyeater)*			
262.		*Limnesia sp. 4 (PSW)*			
263.	25392	*Litoria rubella (Little Red Tree Frog)*			
264.	30933	*Lucasium stenodactylum*			
265.	30934	*Lucasium wombeyi*			
266.		*Lychas sp. 2*			
267.		*Lycidas sp. 1*			
268.		*Lycidas sp. 2*			
269.		*Lymnaeidae sp.*			
270.	25489	*Macropus robustus (Euro, Biggada)*			
271.	24135	*Macropus robustus subsp. erubescens (Euro, Biggada)*			
272.	25651	*Malurus lamberti (Variegated Fairy-wren)*			
273.	25652	*Malurus leucopterus (White-winged Fairy-wren)*			
274.	24549	*Malurus leucopterus subsp. leuconotus (White-winged Fairy-wren)*			
275.	24583	*Manorina flavigula (Yellow-throated Miner)*			
276.		*Mastogloia elliptica (Ag.) Cl.*			
277.		*Mastogloia elliptica var. danseii (thwaites) grun.*			
278.		*Mastogloia smithii Thwaites*			
279.		*Meedo houstoni*			
280.		*Megacephala greyana*			
281.	25665	*Melithreptus gularis (Black-chinned Honeyeater)*			
282.		*Melitidae sp. 1 (PSS)*			
283.	24736	*Melopsittacus undulatus (Budgerigar)*			
284.	25184	*Menetia greyii*			
285.	24598	*Merops ornatus (Rainbow Bee-eater)*			
286.		*Mesocyclops brooksi*			
287.		*Mesocyclops darwini*			
288.		*Mesovelia hungerfordi*			
289.		*Mesoveliidae sp.*			
290.		*Microcarbo melanoleucos*			
291.		*Microchironomus 'K1' (PSW)*			
292.		*Microcyclops varicans*			
293.		*Micronecta n. sp. P1 (PSW)*			
294.	25542	*Milvus migrans (Black Kite)*			
295.		*Minasteron minusculum*			
296.	25545	*Mirafra javanica (Horsfield's Bushlark, Singing Bushlark)*			
297.		*Missulena rutraspina*			
298.		*Monommata sp.*			
299.	25193	*Morethia ruficauda subsp. exquisita*			
300.	24183	*Mormopterus loriae (Little Northern Freetail-bat)*			
301.	24223	*Mus musculus (House Mouse)*	Y		
302.		*Mytilina ventralis macracantha*			
303.		*Navicula bryophila Petersen*			
304.		*Navicula cryptocephala Kütz.*			
305.		*Navicula cryptonella Lange-Bertalot*			
306.		*Navicula leptostriata Jørgensen*			
307.		*Navicula subrhynchocephala Hust.*			
308.		*Navicula veneta Kütz.*			
309.		*Necterosoma regulare*			
310.		*Nedsia sp.*			
311.		*Nematalosa erebi*			
312.		*Nematoda sp. P2/P4 (PSW)*			
313.		*Nematoda sp. P5 (PSW)*			
314.		*Nematoda sp. P8 (PSW)*			
315.		*Neohydrocoptus subfasciatus*			
316.	24972	*Nephrurus wheeleri subsp. cinctus*			
317.		*Nerthra luteovaria*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
318.		*Nilobezzia sp. P2 (PSW)*			
319.	24095	*Ningaui timealeyi (Pilbara Ningaui)*			
320.		*Nitzschia amphibia Grun.*			
321.		*Nitzschia angustata Grun.*			
322.		*Nitzschia frustulum (Kütz.) Grun.*			
323.		*Nitzschia microcephala Grun.*			
324.		*Nitzschia obtusa W. Sm*			
325.		*Nitzschia palea (Kütz.) W. Sm.*			
326.	24224	*Notomys alexis (Spinifex Hopping-mouse)*			
327.		*Notonectidae sp.*			
328.	25499	*Notoscincus ornatus*			
329.		*Notsodipus barlee*			
330.	24194	*Nyctophilus geoffroyi (Lesser Long-eared Bat)*			
331.	24742	*Nymphicus hollandicus (Cockatiel)*			
332.		*Ochterus sp.*			
333.	24407	*Ocyphaps lophotes (Crested Pigeon)*			
334.		*Oecetis sp. Pilbara 4 (PSW)*			
335.		*Oecetis sp. Pilbara 5 (PSW)*			
336.	24976	*Oedura marmorata (Marbled Velvet Gecko)*			
337.		*Oligochaeta sp.*			
338.		*Omoedus orbiculatus*			
339.		*Onthophagus margaretensis*			
340.		*Onthophagus neboissi*			
341.	24618	*Oreoica gutturalis (Crested Bellbird)*			
342.		*Oribatida group 1 (PSS)*			
343.		*Origocandona 'posteriorecta' (PSS)*			
344.		*Orthetrum caledonicum*			
345.		*Orthocladiinae sp. G (SAP)*			
346.		*Oxus orientalis*			
347.	25680	*Pachycephala rufiventris (Rufous Whistler)*			
348.		*Paracyclops sp. 8 (PSW)*			
349.		*Paracymus spenceri*			
350.		*Paramelitidae sp.*			
351.		*Paratanytarsus sp. P3 (PSW)*			
352.		*Paratendipes sp. 'K1' (PSW)*			
353.	24627	*Pardalotus rubricatus (Red-browed Pardalote)*			
354.	25682	*Pardalotus striatus (Striated Pardalote)*			
355.	48060	*Petrochelidon ariel (Fairy Martin)*			
356.	48061	*Petrochelidon nigricans (Tree Martin)*			
357.	24144	*Petrogale rothschildi (Rothschild's Rock-wallaby)*			
358.	25697	*Phalacrocorax carbo (Great Cormorant)*			
359.	25698	*Phalacrocorax melanoleucos (Little Pied Cormorant)*			
360.	24667	*Phalacrocorax sulcirostris (Little Black Cormorant)*			
361.	24409	*Phaps chalcoptera (Common Bronzewing)*			
362.		*Phorticosomus gularis*			
363.		*Phreodrilid with dissimilar ventral chaetae*			
364.		*Phreodrilidae sp.*			
365.		*Pilbarus millsi*			
366.		*Pinnularia divergens W. Sm.*			
367.		*Pinnularia gibba Ehr.*			
368.		*Piona cumberlandensis*			
369.	24101	*Planigale ingrami (Long-tailed Planigale)*			
370.		*Planorbidae sp.*			
371.		*Plationus patulus*			
372.	25721	*Platycercus zonarius (Australian Ringneck, Ring-necked Parrot)*			
373.		*Platycoelus melliei*			
374.		*Platyias quadricornis*			
375.		*Pleidae sp.*			
376.	25510	*Pogona minor (Dwarf Bearded Dragon)*			
377.	24907	*Pogona minor subsp. minor (Dwarf Bearded Dragon)*			
378.		*Polyarthra dolichoptera*			
379.		*Polypedilum leei*			
380.		*Polypedilum nubifer*			
381.	24683	*Pomatostomus superciliosus (White-browed Babbler)*			
382.	25706	*Pomatostomus temporalis (Grey-crowned Babbler)*			
383.	24684	*Pomatostomus temporalis subsp. rubeculus (Grey-crowned Babbler)*			
384.		*Pristina longiseta*			
385.		*Procladius paludicola*			
386.		*Pseudagrion aureofrons*			
387.		*Pseudagrion microcephalum*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
388.	25261	*Pseudechis australis (Mulga Snake)*			
389.		*Pseudectinosoma galassiae*			
390.		*Pseudohydryphantes sp. P1 (PSW)*			
391.	24235	*Pseudomys desertor (Desert Mouse)*			
392.	24237	*Pseudomys hermannsburgensis (Sandy Inland Mouse)*			
393.	25263	*Pseudonaja modesta (Ringed Brown Snake)*			
394.	24757	*Ptilonorhynchus maculatus subsp. guttatus (Western Bowerbird)*			
395.		*Pygolabis sp.*			
396.	25009	*Pygopus nigriceps*			
397.		*Pyralidae sp. 22 of JHH (PSW) (=Parapoynx stagnalis)*			Y
398.	24278	*Pyrrholaemus brunneus (Redthroat)*			
399.		*Rhagada radleyi*			
400.		*Rheotanytarsus christinae*			
401.		*Rheotanytarsus trivittatus*			
402.	25614	*Rhipidura leucophrys (Willie Wagtail)*			
403.		*Rhopalodia gibberula (Ehr.) O. Müll.*			
404.	24982	*Rhynchoedura ornata (Western Beaked Gecko)*			
405.	24174	*Saccolaimus flaviventris (Yellow-bellied Sheath-tailed Bat)*			
406.		*Sciomyzidae sp.*			
407.		*Scirtidae sp.*			
408.		*Scolopendra laeta*			
409.	24200	*Scotorepens greyii (Little Broad-nosed Bat)*			
410.		*Sellephora pupula (Kütz) Mereschkowsky*			
411.	30948	*Smicrornis brevirostris (Weebill)*			
412.	24116	*Sminthopsis macroura (Stripe-faced Dunnart)*			
413.		*Sternopriscus pilbarensis*			
414.	24482	*Stiltia isabella (Australian Pratincole)*			
415.	25656	*Stipiturus ruficeps (Rufous-crowned Emu-wren)*			
416.	24556	*Stipiturus ruficeps subsp. ruficeps (Rufous-crowned Emu-wren)*			
417.		*Strandesia sp.*			
418.		*Strandesia sp. 3 (PSS)*			Y
419.		*Stratiomyidae sp.*			
420.	24927	*Strophurus elderi*			
421.		*Stygonitocrella unispinosa*			
422.	25269	*Suta fasciata (Rosen's Snake)*			
423.		*Tabanidae sp.*			
424.	25705	*Tachybaptus novaehollandiae (Australasian Grebe, Black-throated Grebe)*			
425.	24207	*Tachyglossus aculeatus (Short-beaked Echidna)*			
426.	30870	*Taeniopygia guttata (Zebra Finch)*			
427.		*Tanypodinae sp.*			
428.		*Tanytarsus sp. D (SAP)*			
429.	24175	*Taphozous georgianus (Common Sheath-tailed Bat)*			
430.		*Tasmanocoenis arcuata*			
431.		*Tesserodon novaehollandiae*			
432.		*Tesserodon tenebroides*			
433.		*Testudinella amphora*			
434.		*Testudinella patina*			
435.		*Thermosbaenacea sp.*			
436.	24845	*Threskiornis spinicollis (Straw-necked Ibis)*			
437.		*Tiporus lachlani*			
438.		*Tiporus tambreyi*			
439.		*Tipulidae type D (SAP)*			
440.	42351	*Todiramphus pyrrhopygius (Red-backed Kingfisher)*			
441.	25549	*Todiramphus sanctus (Sacred Kingfisher)*			
442.	48141	*Tribonyx ventralis (Black-tailed Native-hen)*			
443.		*Trichocarenum cylindricum*			
444.		*Trichocerca pusilla*			
445.		*Trichocerca similis*			
446.		*Trichocyclus nigropunctatus*			
447.		*Trichocyclus warianga*			
448.	39407	*Triops australiensis (Shield Shrimp)*			
449.		*Turbellaria sp.*			
450.	24851	*Turnix velox (Little Button-quail)*			
451.		*Unionicola crassipalpis*			
452.	25445	*Uperoleia russelli (Northwest Toadlet)*			
453.	41428	*Uperoleia saxatilis (Pilbara Toadlet)*			
454.	25209	*Varanus acanthurus (Spiny-tailed Monitor)*			
455.	25210	*Varanus brevicauda (Short-tailed Pygmy Monitor)*			
456.	25212	*Varanus eremius (Pygmy Desert Monitor)*			
457.	25216	*Varanus giganteus (Perentie)*			

	Name ID	Species Name	Naturalised	Conservation Code	[1]Endemic To Query Area
458.	25524	*Varanus panoptes (Yellow-spotted Monitor)*			
459.	25223	*Varanus panoptes subsp. rubidus*			
460.	25224	*Varanus pilbarensis (Pilbara Rock Monitor, Northern Pilbara Rock Goanna)*			
461.		*Velesunio wilsoni*			
462.		*Veliidae sp.*			
463.		*Venatrix pullastra*			
464.	24205	*Vespadelus finlaysoni (Finlayson's Cave Bat)*			
465.		*Vestalenula marmonieri*			
466.		*Wydundra kennedy*			
467.		*Zenodorus orbiculatus*			
468.		*Zoothamnium sp.*			
469.	24248	*Zyzomys argurus (Common Rock-rat)*			

Conservation Codes
T - Rare or likely to become extinct
X - Presumed extinct
IA - Protected under international agreement
S - Other specially protected fauna
1 - Priority 1
2 - Priority 2
3 - Priority 3
4 - Priority 4
5 - Priority 5

[1] For NatureMap's purposes, species flagged as endemic are those whose records are wholely contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.

Appendix C
Likelihood of Occurrence

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 is based on a distance analysis undertaken against 2020 DBCA database or approximate distance based on NatureMap record or approximate distance from literature review. High = Suitable habitat present and records less than 20 km from the Survey Area, Medium = Suitable habitat present and records between 20 km and 50 km from the Survey Area, and Low = No suitable habitat present and/or records greater than 50 km from the Survey Area, Unknown = Insufficient information available to classify . CR= Listed as Critically Endangered under the EPBC Act, EN = Listed as Endangered under the EBPC Act, VU = listed as Vulnerable under the EBPC Act. T = Threatened under the BC Act, P = Priority Listed, Ranked and Listed by the DBCA. Likelihoods are assessed both pre and post survey based on knowledge of the Survey Area, nearest known records, known flowering period of flora taxa and knowledge gained from the survey effort during ground truthing.

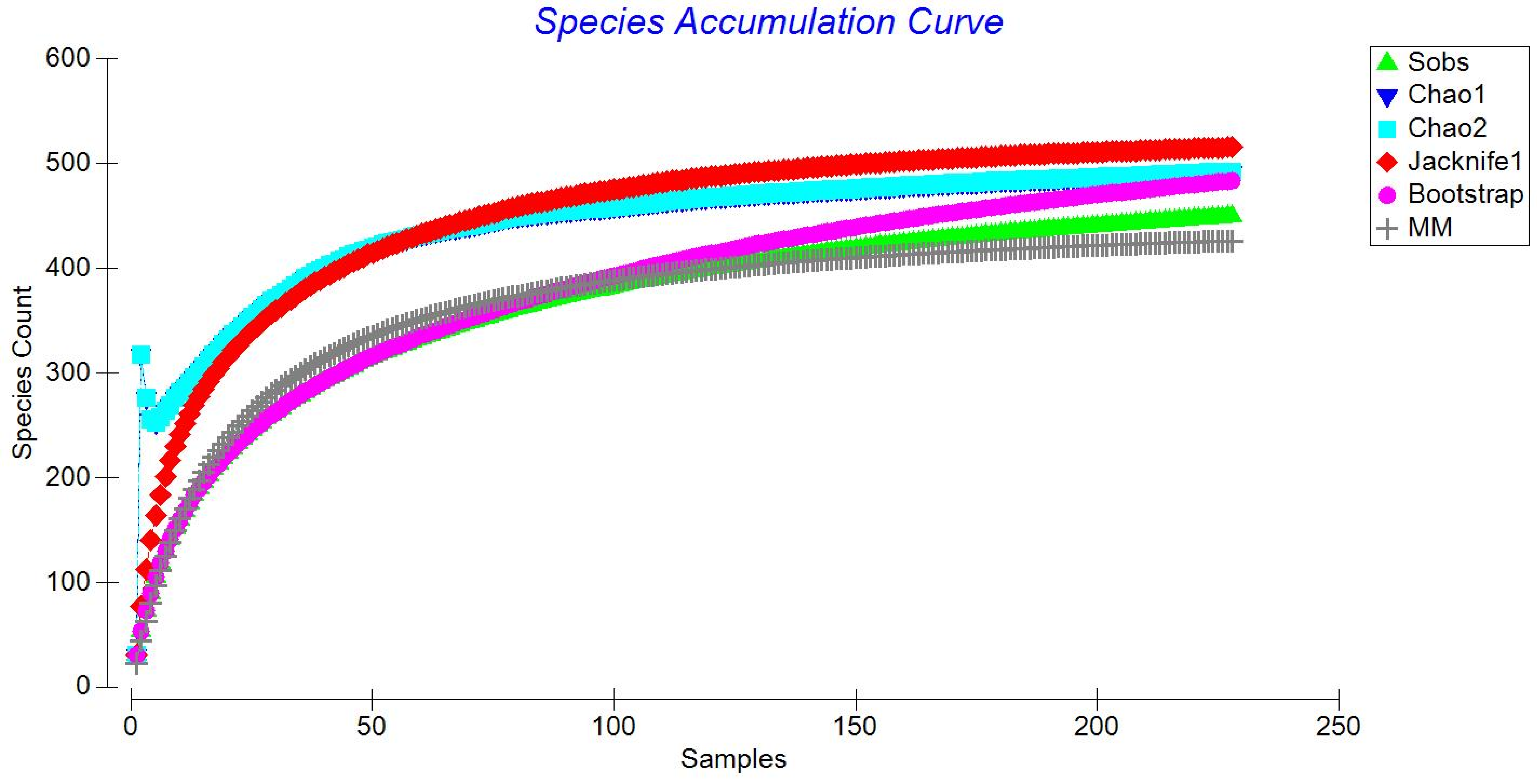
Species	Conservation Status		Source			Distance to Nearest Record (km)	Flowering Period	Prefered Habitat	Habitat occurs within the Survey Area	Pre-Survey Likelihood of Occurrence	Post-Survey Likelihood of Occurrence
	DBCA	EPBC	NatureMap	PMST	DBCA						
Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	P1		X		X	0.4	May-Oct	Flat hummock grassland with red-brown silty, clay loam or loamy sandplain.²	Yes	High	Recorded during Survey
Bothriochloa decipiens var. *cloncurrensis*	P1				X	44.0	-	Red-brown clay-loam.²	Yes	Medium	Medium
Helichrysum oligochaetum	P1				X	46.3	Aug to Nov	Red clay. Alluvial plains.²	Yes	Medium	Medium
Triodia mallota	P1				X	31.9	-	Lower slopes.² Occurs on rocky hillslopes that are a mixture of metasandstone and chert, but is not known from the pisolite mesas that are the dominant rocky substrate in the area.	Yes	Medium	Medium
Dicladanthera glabra	P2		X		X	16.9	Apr or Aug to Oct	Alluvium. Along watercourses, near rock pools. Deeply incised channels and gorges.²	No	High	Low
Paspalidium retiglume	P2				X	31.3	Apr	Clay.² Usually cracking clay.	Yes	Medium	Medium
Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	P3		X		X	8.3	Jun, Aug - Sep	Sandy plains.² Coastal and near coastal sand dunes, margins of estuaries and coastal plains, growing in red sand or clay, often in open scrubby vegetation.	Yes	High	High
Carpobrotus sp. Thevenard Island (M. White 050)	P3				X	24.7	Aug	Coarse white sand. Dune tops, disturbed areas.²	No	Medium	Low
Cyanthillium gracile	P3				X	23.3	Apr - Oct	Rocky gully, ironstone outcropping.²	Yes	Medium	Low
Eleocharis papillosa	P3		X		X	Within the Survey Area	Nov	Red clay over granite, open clay flats. Claypans.² Moist areas associated with seasonally wet marshes and lakes.	Yes	Previously Recorded	Previously Recorded
Eragrostis surreyana	P3				X	25.5	May - Sep	Soak areas, broad drainage areas, wet areas.²	Yes	Medium	Medium
Eremophila forrestii subsp. *viridis*	P3		X		X	Within the Survey Area	Aug	Red sand, rocky gully.² Many soil and vegetation types from skeletal soils to heavy clays.	Yes	Previously Recorded	Recorded during Survey
Euphorbia australis var. *glabra*	P3				X	29.1	May	Flat, red brown loam.²	Yes	Medium	Medium
Glycine falcata	P3				X	31.3	May or Jul	Black clayey sand. Along drainage depressions in crabhole plains on river floodplains.²	Yes	Medium	Medium
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301)	P3		X		X	6.7	May - Aug	Drainage. Red-brown sandy clay loam.²	Yes	High	Recorded during Survey
Owenia acidula	P3		X		X	5.2	-	Clay.²	Yes	High	Medium
Sida sp. Barlee Range (S. van Leeuwen 1642)	P3		X		X	12.6	Aug	Skeletal red soils pockets. Steep slope.²	Yes	High	Low
Solanum sp. Red Hill (S. van Leeuwen et al. PBS 5415)	P3		X		X	1.2	Mar - Oct	High in landscape, summit of hill, skeletal red brown gritty soil over Banded Iron Formation/shale.²	Yes	High	Low
Stackhousia clementii	P3		X		X	7.7	Nov- Mar	Skeletal soils. Sandstone hills.² Sand to cracking clays, gibber plains gilgai, often associated with limestone flats and ridges.	Yes	High	High
Stylidium weeliwolli	P3				X	26.7	Aug - Sep	Gritty sand soil, sandy clay. Edge of watercourses.²	Yes	Medium	Medium
Terminalia supranitifolia	P3				X	23.0	May or Jul or Dec	Sand. Among basalt rocks. Hill tops.²	No	Medium	Low
Themeda sp. Hamersley Station (M.E. Trudgen 11431)	P3				X	32.7	Aug	Red clay. Clay pan, grass plain.²	Yes	Medium	Medium
Triodia pisoliticola	P3		X		X	1.0	Mar - Jun	Ironstone mesas, slopes and gullies, or sometimes flat loam.	Yes	High	Recorded during Survey
Triumfetta echinata	P3		X		X	<1	Aug	Red sandy soils. Sand dunes.² Hummock grasslands gorwing on sand dunes.	Yes	High	High
Acacia bromilowiana	P4				X	41.1	Jul - Aug	Red skeletal stony loam, orange-brown pebbly,gravel loam, laterite, banded ironstone, basalt. Rocky hills, breakaways, scree slopes, gorges, creek beds.²	Yes	Medium	Low
Goodenia nuda	P4		X		X	Within the Survey Area	Apr - Aug	Red brown clay loam. Drainage lines, Floodplain.² Often in Mulga. Also recorded from sand inscoured river beds and from hillsides.	Yes	Previously Recorded	Recorded during Survey
Livistona alfredii	P4				X	36.6	Nov - Dec	Edges of permanent pools.²	No	Medium	Low

¹ Department of Agriculture, Water and Environment (2020) ²Western Australian Herbarium (2020)

Ptilotus mollis	P4		X		X	2.1	May or Sep	Stony hills and screes.[2] Steep rocky sites, usually in full sun on massive ironstone formations.	Yes	High	Low
Rhynchosia bungarensis	P4		X		X	4.5	May - Dec	Pebbly, shingly coarse sand amongst boulders. Banks of flow line in the mouth of a gully in a valley wall.[2]	Yes	High	Medium

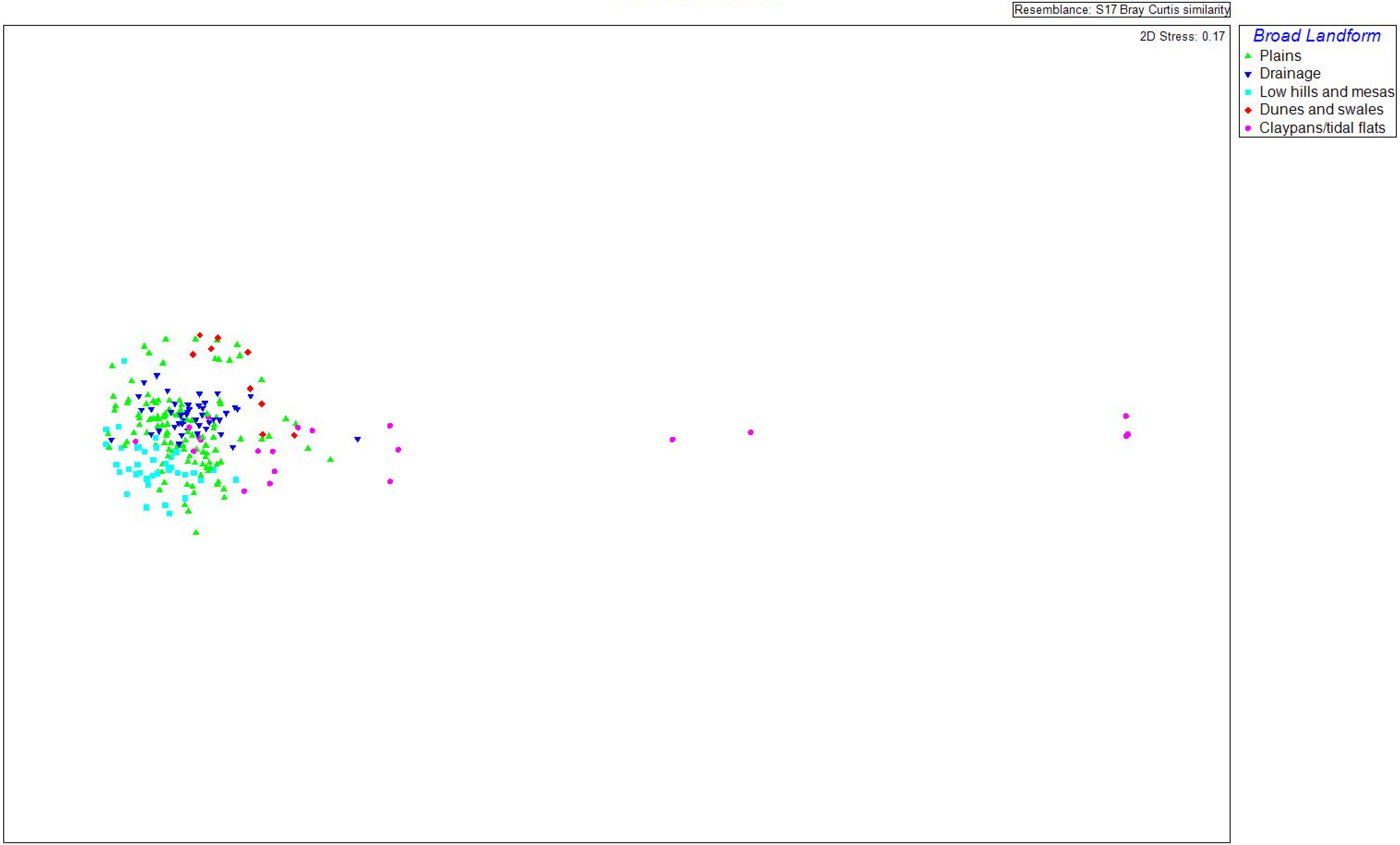
[1] Department of Agriculture, Water and Environment (2020) [2]Western Australian Herbarium (2020)

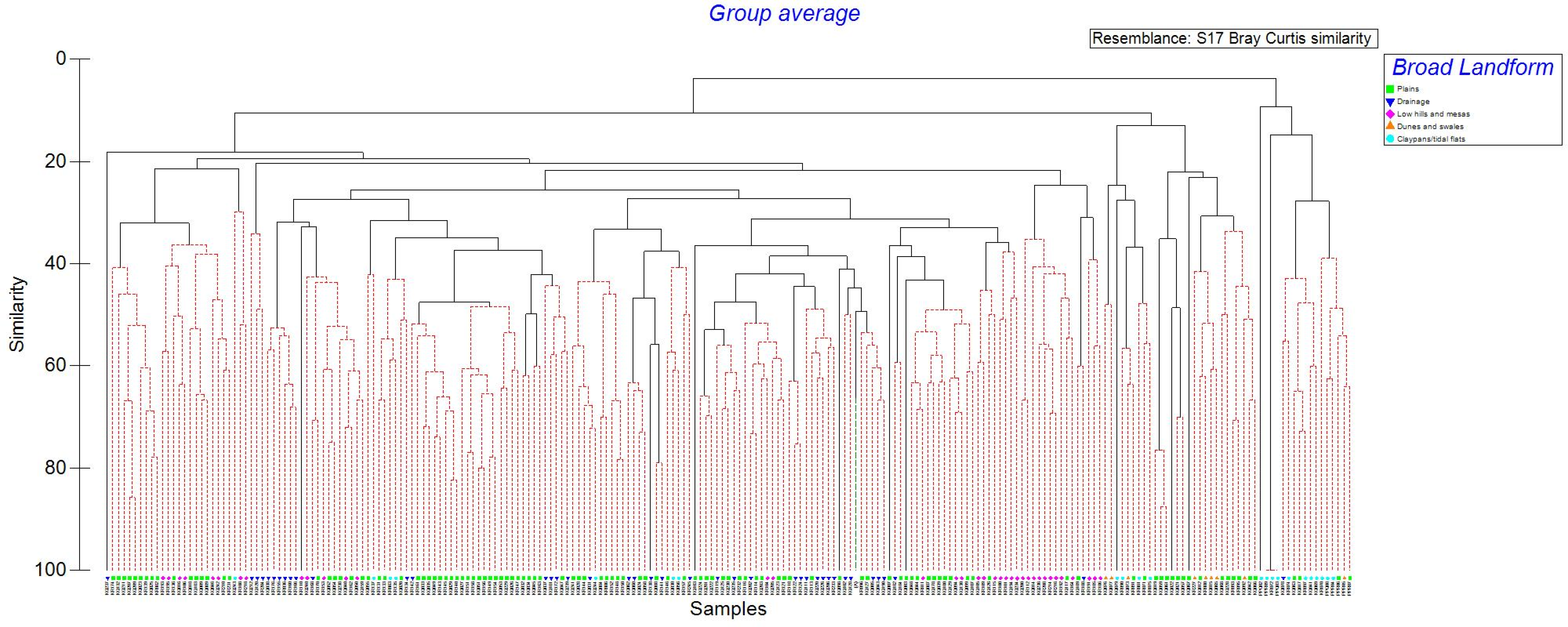
Appendix D
Statistical Analysis



Species Accumulation Curve
Species Count
Samples
0
100
200
300
400
500
600
0
50
100
150
200
250
Sobs
Chao1
Chao2
Jacknife1
Bootstrap
MM

NMDS No Annuals





Group average
Resemblance: S17 Bray Curtis similarity
Broad Landform
Plains
Drainage
Low hills and mesas
Dunes and swales
Claypans/tidal flats
Similarity
0
20
40
60
80
100
Samples

Appendix D. Table 1.

Species	Status	Name referred to for analysis
**Bidens bipinnata*	Omitted: Singleton record	NA
**Parkinsonia aculeata*	Omitted: Singleton record	NA
**Prosopis pallida*	Omitted: Singleton record	NA
?Myriocephalus oldfieldii	Omitted: May represent multiple species	NA
?Stenopetalum sphaerocarpum	Omitted: May represent multiple species	NA
Abutilon cunninghamii	Omitted: Singleton record	NA
Abutilon macrum	Omitted: Singleton record	NA
Abutilon sp.	Omitted: May represent multiple species	NA
Acacia ?colei	Omitted: May represent multiple species	NA
Acacia adsurgens	Omitted: Singleton record	NA
Acacia citrinoviridis	Omitted: Singleton record	NA
Acacia coriacea subsp. pendens	Omitted: Singleton record	NA
Acacia cuthbertsonii subsp. *cuthbertsonii*	Omitted: Singleton record	NA
Adriana tomentosa var. *tomentosa*	Omitted: Singleton record	NA
Alyogyne pinoniana var. *pinoniana*	Omitted: Singleton record	NA
Alysicarpus muelleri	Omitted: Singleton record	NA
Amphipogon sericeus	Omitted: Singleton record	NA
Aristida ingrata	Omitted: Singleton record	NA
Aristida sp.	Omitted: May represent multiple species	NA
Aristida holathera var. *holathera*	Omitted: Singleton record	NA

Species	Status	Name referred to for analysis
Asteraceae sp.	Omitted: May represent multiple species	NA
Atriplex codonocarpa	Omitted: Singleton record	NA
Bergia sp.	Omitted: May represent multiple species	NA
Boerhavia coccinea	Omitted: Singleton record	NA
Boerhavia repleta	Omitted: Singleton record	NA
Boerhavia sp.	Omitted: May represent multiple species	NA
Bonamia media	Omitted: Singleton record	NA
Bonamia pannosa	Omitted: Singleton record	NA
Bulbostylis barbata	Omitted: Singleton record	NA
Centipeda minima subsp. macrocephala	Referred to species	Centipeda minima
Chloris pumilio	Omitted: Singleton record	NA
Clerodendrum floribundum var. angustifolium	Omitted: Singleton record	NA
Corchorus crozophorifolius	Omitted: Singleton record	NA
Corchorus lasiocarpus subsp. lasiocarpus	Referred to species	Corchorus lasiocarpus
Corchorus sp.	Omitted: May represent multiple species	NA
Corchorus tridens	Omitted: Singleton record	NA
Corymbia ?zygophylla	Omitted: May represent multiple species	NA
Corymbia candida subsp. candida	Referred to species	Corymbia candida
Corymbia sp.	Omitted: May represent multiple species	NA
Crotalaria cunninghamii subsp. sturtii	Omitted: Singleton record	NA
Crotalaria medicaginea var. neglecta	Omitted: Singleton record	NA

Species	Status	Name referred to for analysis
Cullen graveolens	Omitted: Singleton record	NA
Cynodon sp.	Omitted: May represent multiple species	NA
Cyperus cunninghamii subsp. *cunninghamii*	Omitted: Singleton record	NA
Cyperus hesperius	Omitted: Singleton record	NA
Digitaria brownii	Omitted: Singleton record	NA
Diplopeltis eriocarpa	Omitted: Singleton record	NA
Dysphania rhadinostachya subsp. *inflata*	Referred to species	*Dysphania rhadinostachya*
Dysphania rhadinostachya subsp. *rhadinostachya*	Referred to species	*Dysphania rhadinostachya*
Enneapogon caerulescens	Omitted: Singleton record	NA
Enneapogon lindleyanus	Omitted: Singleton record	NA
Eragrostis dielsii	Omitted: Singleton record	NA
Eragrostis dielsii	Omitted: Singleton record	NA
Eragrostis eriopoda	Omitted: Singleton record	NA
Eragrostis eriopoda	Omitted: Singleton record	NA
Eremophila forrestii subsp. *?viridis (P3)*	Referred to species	*Eremophila forrestii*
Eremophila forrestii subsp. *forrestii*	Referred to species	*Eremophila forrestii*
Eremophila sp.	Omitted: May represent multiple species	NA
Eriachne ?benthamii	Omitted: May represent multiple species	NA
Eriachne benthamii	Omitted: Singleton record	NA
Euphorbia boophthona	Referred to species	*Euphorbia boophthona/tannensis*
Euphorbia careyi	Omitted: Singleton record	NA

Species	Status	Name referred to for analysis
Euphorbia myrtoides	Omitted: Singleton record	NA
Euphorbia tannensis subsp. *eremophila*	Referred to species	*Euphorbia boophthona/tannensis*
Flaveria trinervia	Omitted: Singleton record	NA
Frankenia ambita	Omitted: Singleton record	NA
Goodenia microptera	Omitted: Singleton record	NA
Goodenia nuda (P4)	Omitted: Singleton record	NA
Goodenia sp.	Omitted: May represent multiple species	NA
Grevillea wickhamii subsp. *hispidula*	Referred to species	*Grevillea wickhamii*
Grevillea wickhamii subsp. *macrodonta*	Referred to species	*Grevillea wickhamii*
Haloragis trigonocarpa	Omitted: Singleton record	NA
Hibiscus brachychlaenus	Omitted: Singleton record	NA
Hibiscus brachychlaenus	Omitted: Singleton record	NA
Hibiscus goldsworthii	Omitted: Singleton record	NA
Hibiscus sp.	Omitted: May represent multiple species	NA
Hibiscus sturtii var. *campylochlamys*	Referred to species	*Hibiscus sturtii*
Hibiscus sturtii var. *indet*	Referred to species	*Hibiscus sturtii*
Indet herb sp.	Omitted: May represent multiple species	NA
Indet Poaceae sp.	Omitted: May represent multiple species	NA
Indet sp.	Omitted: May represent multiple species	NA
Indigofera linifolia	Omitted: Singleton record	NA
Indigofera rugosa	Omitted: Singleton record	NA

Species	Status	Name referred to for analysis
Indigofera sp.	Omitted: May represent multiple species	NA
Iseilema dolichotrichum	Omitted: Singleton record	NA
Lysiana casuarinae	Omitted: Singleton record	NA
Maireana ?melanocoma	Omitted: May represent multiple species	NA
Maireana sp.	Omitted: May represent multiple species	NA
Maireana tomentosa subsp. *tomentosa*	Omitted: Singleton record	NA
Maireana melanocoma	Omitted: Singleton record	NA
Malvaceae sp.	Omitted: May represent multiple species	NA
Melaleuca bracteata	Omitted: Singleton record	NA
Melaleuca linophylla	Omitted: Singleton record	NA
Melhania oblongifolia	Omitted: Singleton record	NA
Minuria integerrima	Omitted: Singleton record	NA
Notoleptopus decaisnei	Omitted: Singleton record	NA
Paspalidium ?clementii	Omitted: May represent multiple species	NA
Paspalidium basicladum	Omitted: Singleton record	NA
Paspalidium rarum	Omitted: Singleton record	NA
Peplidium muelleri	Omitted: Singleton record	NA
Peripleura hispidula var. *setosa*	Omitted: Singleton record	NA
Perotis rara	Omitted: Singleton record	NA
Pimelea ammocharis	Omitted: Singleton record	NA
Pluchea dunlopii	Omitted: Singleton record	NA

Species	Status	Name referred to for analysis
Pluchea longiseta	Omitted: Singleton record	NA
Pluchea rubelliflora	Omitted: Singleton record	NA
Poaceae sp.	Omitted: May represent multiple species	NA
Polycarpaea longiflora	Omitted: Singleton record	NA
Polymeria ambigua	Omitted: Singleton record	NA
Portulaca conspicua	Omitted: Singleton record	NA
Pterocaulon sp.	Omitted: May represent multiple species	NA
Ptilotus appendiculatus	Omitted: May represent multiple species	NA
Ptilotus incanus	Omitted: Singleton record	NA
Ptilotus sp.	Omitted: May represent multiple species	NA
Ptilotus appendiculatus	Omitted: Singleton record	NA
Quoya paniculata	Omitted: Singleton record	NA
Rhodanthe humboldtiana	Omitted: Singleton record	NA
Rhodanthe psammophila	Omitted: Singleton record	NA
Rostellularia adscendens var. *clementii*	Omitted: Singleton record	NA
Santalum lanceolatum	Omitted: Singleton record	NA
Scaevola spinescens	Referred to species	*Scaevola spinescens*
Scaevola spinescens (broad leaf form)	Referred to species	*Scaevola spinescens*

Appendix E
Inventory of Vascular Flora and Species by Vegetation Type Matrix

Family	Taxon
Acanthaceae	*Avicennia marina* subsp. *marina*
	Dipteracanthus australasicus subsp. *australasicus*
	Rostellularia adscendens var. *clementii*
Aizoaceae	*Trianthema pilosum*
	Trianthema triquetrum
	Trianthema turgidifolium
Amaranthaceae	*Achyranthes aspera*
	**Aerva javanica*
	Alternanthera denticulata
	Alternanthera nana
	Amaranthus cuspidifolius
	Amaranthus sp.
	Amaranthus undulatus
	Gomphrena ?affinis subsp. *pilbarensis*
	Gomphrena affinis subsp. *pilbarensis*
	Gomphrena canescens
	Gomphrena cunninghamii
	Gomphrena sp.
	Ptilotus ?astrolasius
	Ptilotus ?fusiformis
	Ptilotus ?gomphrenoides
	Ptilotus ?polystachyus
	Ptilotus aervoides
	Ptilotus appendiculatus
	Ptilotus astrolasius
	Ptilotus auriculifolius
	Ptilotus axillaris
	Ptilotus calostachyus
	Ptilotus clementii
	Ptilotus exaltatus
	Ptilotus fusiformis
	Ptilotus gomphrenoides
	Ptilotus helipteroides
	Ptilotus incanus
	Ptilotus obovatus var. *obovatus*
	Ptilotus polystachyus
	Ptilotus sp.
	Ptilotus xerophilus
Apocynaceae	*Cynanchum viminale* subsp. *australe*
	Vincetoxicum lineare
Araliaceae	*Trachymene ?pilbarensis*
	Trachymene oleracea subsp. *oleracea*
	Trachymene pilbarensis
	Trachymene sp.
Asteraceae	*?Calotis plumulifera*
	?Myriocephalus oldfieldii
	Angianthus milnei
	**Bidens bipinnata*
	Blumea tenella

Family	Taxon
Asteraceae	*Calotis plumulifera*
	Centipeda minima subsp. *macrocephala*
	**Flaveria trinervia*
	Minuria integerrima
	Peripleura hispidula var. *setosa*
	Peripleura obovata
	Peripleura virgata
	Pluchea dentex
	Pluchea dunlopii
	Pluchea longiseta
	Pluchea rubelliflora
	Pluchea sp.
	Pterocaulon serrulatum var. *velutinum*
	Pterocaulon sp.
	Pterocaulon sphacelatum
	Pterocaulon sphaeranthoides
	Rhodanthe humboldtiana
	Rhodanthe margarethae
	Rhodanthe psammophila
	**Sonchus oleraceus*
	Streptoglossa ?bubakii
	Streptoglossa ?decurrens
	Streptoglossa bubakii
	Streptoglossa decurrens
	Streptoglossa liatroides
	Streptoglossa sp.
Boraginaceae	*Heliotropium crispatum*
	Heliotropium cunninghamii
	Heliotropium diversifolium
	Heliotropium heteranthum
	Heliotropium inexplicitum
	Heliotropium ovalifolium
	Heliotropium pachyphyllum
	Heliotropium sp.
	Trichodesma sp.
	Trichodesma zeylanicum var. *grandiflorum*
	Trichodesma zeylanicum var. *zeylanicum*
Brassicaceae	*Lepidium ?pholidogynum*
	Lepidium phlebopetalum
	Lepidium pholidogynum
	Lepidium platypetalum
Capparaceae	*Capparis spinosa* subsp. *nummularia*
Caryophyllaceae	*Polycarpaea corymbosa* var. *corymbosa*
	Polycarpaea holtzei
	Polycarpaea longiflora
Celastraceae	*Stackhousia ?muricata* subsp. annual (W. R. Barker 2172)
Chenopodiaceae	*?Sclerolaena costata*
	Atriplex bunburyana
	Atriplex codonocarpa

Family	Taxon
	Atriplex semilunaris
Chenopodiaceae	*Atriplex* sp.
	Chenopodiaceae sp.
	Dissocarpus paradoxus
	Dysphania kalpari
	Dysphania melanocarpa forma *leucocarpa*
	Dysphania melanocarpa forma *melanocarpa*
	Dysphania plantaginella
	Dysphania rhadinostachya subsp. *inflata*
	Dysphania rhadinostachya subsp. *rhadinostachya*
	Dysphania sp.
	Dysphania sphaerosperma
	Enchylaena tomentosa var. *tomentosa*
	Maireana ?melanocoma
	Maireana georgei
	Maireana melanocoma
	Maireana planifolia
	Maireana platycarpa
	Maireana sp.
	Maireana tomentosa subsp. *tomentosa*
	Neobassia astrocarpa
	Rhagodia eremaea
	Salsola australis
	Sclerolaena densiflora
	Sclerolaena diacantha
	Sclerolaena eriacantha
	Sclerolaena recurvicuspis
	Sclerolaena sp.
	Tecticornia auriculata
	Tecticornia halocnemoides subsp. *tenuis*
	Tecticornia indica subsp. *bidens*
	Tecticornia indica subsp. *leiostachya*
	Tecticornia sp. Sterile 1
	Tecticornia sp. Sterile 2
Cleomaceae	*Arivela viscosa*
Convolvulaceae	*Bonamia ?pilbarensis*
	Bonamia alatisemina
	Bonamia erecta
	Bonamia media
	Bonamia pannosa
	Bonamia pilbarensis
	Convolvulus clementii
	Duperreya commixta
	Evolvulus alsinoides var. *decumbens*
	Evolvulus alsinoides var. indet
	Evolvulus alsinoides var. *villosicalyx*
	Ipomoea coptica
	Ipomoea muelleri
	Ipomoea polymorpha

Family	Taxon
	Polymeria ambigua
	Polymeria sp.
Cucurbitaceae	**Citrullus amarus*
	**Citrullus colocynthis*
	Cucumis ?picrocarpus
	Cucumis melo
	Cucumis variabilis
Cyperaceae	*Bulbostylis barbata*
	Bulbostylis turbinata
	Cyperaceae sp.
	Cyperus bulbosus
	Cyperus cunninghamii subsp. *cunninghamii*
	Cyperus hesperius
	Cyperus iria
	Cyperus squarrosus
	Cyperus vaginatus
	Eleocharis papillosa
	Fimbristylis dichotoma
	Fimbristylis microcarya
	Fimbristylis simulans
Euphorbiaceae	*Adriana tomentosa* var. *tomentosa*
	Euphorbia ?boophthona /tannensis
	Euphorbia ?vaccaria
	Euphorbia australis var. *subtomentosa*
	Euphorbia biconvexa
	Euphorbia boophthona
	Euphorbia careyi
	**Euphorbia hirta*
	Euphorbia inappendiculata var. *inappendiculata* (P2)
	Euphorbia myrtoides
	Euphorbia sp.
	Euphorbia tannensis subsp. *eremophila*
	Euphorbia trigonosperma
	Euphorbia vaccaria var. *vaccaria*
Fabaceae	*Acacia ?colei* var. *colei*
	Acacia ?sericophylla
	Acacia adsurgens
	Acacia ancistrocarpa
	Acacia aptaneura
	Acacia arida
	Acacia atkinsiana
	Acacia bivenosa
	Acacia citrinoviridis
	Acacia colei var. *colei*
	Acacia colei var. indet
	Acacia coriacea subsp. *coriacea*
	Acacia coriacea subsp. *pendens*
	Acacia cowleana
	Acacia cuthbertsonii subsp. *cuthbertsonii*

Family	Taxon
	Acacia elachantha
	Acacia inaequilatera
	Acacia ligulata
Fabaceae	*Acacia ligulata* x *sclerosperma* subsp. *sclerosperma*
	Acacia marramamba
	Acacia pachycarpa
	Acacia pruinocarpa
	Acacia pyrifolia var. *pyrifolia*
	Acacia sclerosperma subsp. *sclerosperma*
	Acacia sericophylla
	Acacia sp.
	Acacia stellaticeps
	Acacia synchronicia
	Acacia tetragonophylla
	Acacia tetragonophylla x *trachycarpa*
	Acacia trachycarpa
	Acacia tumida var. *pilbarensis*
	Acacia wanyu
	Acacia xiphophylla
	Aeschynomene indica
	Alysicarpus muelleri
	Crotalaria cunninghamii subsp. *sturtii*
	Crotalaria medicaginea var. *neglecta*
	Cullen cinereum
	Cullen graveolens
	Cullen lachnostachys
	Cullen leucochaites
	Cullen martinii
	Cullen pogonocarpum
	Cullen sp.
	Fabaceae sp.
	Glycine canescens
	Indigofera boviperda subsp. *boviperda*
	Indigofera colutea
	Indigofera linifolia
	Indigofera monophylla
	Indigofera rugosa
	Indigofera sp.
	Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)
	Indigofera trita subsp. *trita*
	Isotropis atropurpurea
	Lotus cruentus
	Neptunia dimorphantha
	**Parkinsonia aculeata*
	**Prosopis pallida*
	Rhynchosia minima
	Senna artemisioides subsp. *helmsii*
	Senna artemisioides subsp. *helmsii* x *oligophylla*
	Senna artemisioides subsp. *oligophylla*

Family	Taxon
	Senna glutinosa subsp. *glutinosa*
	Senna glutinosa subsp. *glutinosa* x *stricta*
	Senna glutinosa subsp. *pruinosa*
	Senna notabilis
Fabaceae	*Senna sericea*
	Senna venusta
	Senna glutinosa subsp. ×*luerssenii*
	Sesbania cannabina
	Swainsona complanata
	Swainsona kingii
	Swainsona maccullochiana
	Swainsona pterostylis
	Swainsona sp.
	Tephrosia aff. *remotiflora*
	Tephrosia aff. *supina*
	Tephrosia clementii
	Tephrosia rosea var. *clementii*
	Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)
	Tephrosia sp.
	Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)
	Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)
	Tephrosia supina
	Tephrosia uniovulata
	**Vachellia farnesiana*
	Vigna lanceolata var. *lanceolata*
	Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)
Frankeniaceae	*Frankenia ambita*
Goodeniaceae	*Dampiera candicans*
	Goodenia corynocarpa
	Goodenia forrestii
	Goodenia lamprosperma
	Goodenia microptera
	Goodenia muelleriana
	Goodenia nuda (P4)
	Goodenia sp.
	Goodenia tenuiloba
	Goodenia triodiophila
	Scaevola sericophylla
	Scaevola spinescens
Gyrostemonaceae	*Codonocarpus cotinifolius*
Haloragaceae	*Haloragis* sp.
	Haloragis trigonocarpa
Hemerocallidaceae	*Corynotheca pungens*
Lamiaceae	*Clerodendrum floribundum* var. *angustifolium*
	Quoya loxocarpa
	Quoya paniculata
Lauraceae	*Cassytha capillaris*
Loranthaceae	*Lysiana casuarinae*

Family	Taxon
Lythraceae	*Ammannia baccifera*
	Ammannia multiflora
Malvaceae	*?Corchorus* sp.
	Abutilon ?sp. Pilbara (W.R. Barker 2025)
	Abutilon amplum
Malvaceae	*Abutilon cunninghamii*
	Abutilon fraseri subsp. *fraseri*
	Abutilon lepidum
	Abutilon macrum
	Abutilon malvifolium
	Abutilon otocarpum
	Abutilon sp.
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)
	Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)
	Abutilon sp. Pilbara (W.R. Barker 2025)
	Alyogyne pinoniana var. *pinoniana*
	Corchorus ?elachocarpus
	Corchorus ?laniflorus
	Corchorus ?sidoides subsp. *vermicularis*
	Corchorus ?tectus
	Corchorus crozophorifolius
	Corchorus elachocarpus
	Corchorus laniflorus
	Corchorus lasiocarpus subsp. *lasiocarpus*
	Corchorus lasiocarpus subsp. *parvus*
	Corchorus parviflorus
	Corchorus sidoides subsp. *vermicularis*
	Corchorus sp.
	Corchorus tectus
	Corchorus tridens
	Gossypium australe
	Gossypium robinsonii
	Hibiscus brachychlaenus
	Hibiscus burtonii
	Hibiscus coatesii
	Hibiscus goldsworthii
	Hibiscus leptocladus
	Hibiscus sp.
	Hibiscus sturtii var. *?grandiflorus*
	Hibiscus sturtii var. *campylochlamys*
	Hibiscus sturtii var. *grandiflorus*
	Hibiscus sturtii var. indet
	Hibiscus sturtii var. *platychlamys*
	Hibiscus verdcourtii
	Lawrencia densiflora
	Lawrencia viridigrisea
	Malvaceae sp.
	**Malvastrum americanum*
	Melhania oblongifolia

Family	Taxon
	Seringia exastia
	Seringia nephrosperma
	Sida ?cardiophylla
	Sida ?spinosa
	Sida aff. *fibulifera*
	Sida arenicola
Malvaceae	*Sida arsiniata*
	Sida echinocarpa
	Sida fibulifera
	Sida platycalyx
	Sida rohlenae subsp. *rohlenae*
	Sida sp.
	Sida sp. L (A.M. Ashby 4202)
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)
	Sida spinosa
	Triumfetta ?chaetocarpa
	Triumfetta appendiculata
	Triumfetta chaetocarpa
	Triumfetta clementii
	Triumfetta johnstonii
	Triumfetta maconochieana
	Triumfetta sp.
	Waltheria indica
Marsileaceae	*Marsilea exarata*
	Marsilea hirsuta
	Marsilea sp.
Menispermaceae	*Tinospora smilacina*
Molluginaceae	*Glinus oppositifolius*
	Trigastrotheca molluginea
Moraceae	*Ficus brachypoda*
Myrtaceae	*Corymbia candida* subsp. *candida*
	Corymbia hamersleyana
	Corymbia zygophylla
	Eucalyptus camaldulensis
	Eucalyptus leucophloia subsp. *leucophloia*
	Eucalyptus victrix
	Melaleuca argentea
	Melaleuca bracteata
	Melaleuca glomerata
	Melaleuca linophylla
Nyctaginaceae	*?Commicarpus australis*
	Boerhavia ?burbidgeana
	Boerhavia burbidgeana
	Boerhavia coccinea
	Boerhavia repleta
	Boerhavia schomburgkiana
	Boerhavia sp.
Oleaceae	*Jasminum didymum* subsp. *lineare*

Family	Taxon
Orobanchaceae	*?Striga curviflora*
	Striga squamigera
Passifloraceae	**Passiflora foetida* var. *hispida*
Phrymaceae	*Mimulus gracilis*
	Peplidium muelleri
Phyllanthaceae	*Notoleptopus decaisnei* var. *decaisnei*
	Phyllanthus erwinii
Phyllanthaceae	*Phyllanthus maderaspatensis*
	Phyllanthus sp.
Plantaginaceae	*Stemodia grossa*
	Stemodia sp. Onslow (A.A. Mitchell 76/148)
Plumbaginaceae	*Muellerolimon salicorniaceum*
Poaceae	*?Eriachne mucronata*
	?Eriochloa pseudoacrotricha
	Acrachne racemosa
	Amphipogon sericeus
	Aristida burbidgeae
	Aristida contorta
	Aristida holathera var. *holathera*
	Aristida inaequiglumis
	Aristida ingrata
	Aristida latifolia
	Aristida sp.
	Bothriochloa ewartiana
	**Cenchrus ciliaris*
	**Cenchrus setiger*
	Chloris ?pectinata
	Chloris pectinata
	Chloris pumilio
	Chrysopogon fallax
	Cymbopogon ambiguus
	Cymbopogon sp.
	Cynodon convergens
	Cynodon prostratus
	Cynodon sp.
	Dactyloctenium radulans
	Dichanthium fecundum
	Dichanthium sericeum subsp. *humilius*
	Digitaria brownii
	Digitaria ctenantha
	**Echinochloa colona*
	Enneapogon caerulescens
	Enneapogon polyphyllus
	Enteropogon ramosus
	Eragrostis ?dielsii
	Eragrostis cumingii
	Eragrostis dielsii
	Eragrostis eriopoda
	Eragrostis falcata

Family	Taxon
	Eragrostis leptocarpa
	Eragrostis tenellula
	Eragrostis xerophila
	Eriachne ?helmsii
	Eriachne aristidea
	Eriachne benthamii
	Eriachne flaccida
	Eriachne helmsii
Poaceae	*Eriachne mucronata*
	Eriachne obtusa
	Eriachne pulchella subsp. *dominii*
	Eriachne pulchella subsp. indet
	Eriachne pulchella subsp. *pulchella*
	Eriachne sp.
	Eriachne tenuiculmis
	Eriochloa pseudoacrotricha
	Eulalia aurea
	Iseilema dolichotrichum
	Iseilema eremaeum
	Iseilema membranaceum
	Iseilema sp.
	Iseilema vaginiflorum
	Leptochloa digitata
	Panicum decompositum
	Panicum laevinode
	Paraneurachne muelleri
	Paspalidium basicladum
	Paspalidium clementii
	Paspalidium rarum
	Paspalidium tabulatum
	Perotis rara
	Poaceae sp.
	Setaria dielsii
	**Setaria verticillata*
	Sporobolus ?virginicus
	Sporobolus australasicus
	Sporobolus mitchellii
	Themeda triandra
	Triodia avenoides
	Triodia epactia
	Triodia glabra
	Triodia longiceps
	Triodia pisolitica (P3)
	Triodia wiseana
	Triraphis mollis
	Urochloa holosericea subsp. *velutina*
	Urochloa occidentalis var. *occidentalis*
	Urochloa piligera
	Yakirra australiensis var. *australiensis*

Family	Taxon
Polygalaceae	*Polygala glaucifolia*
Portulacaceae	*Calandrinia polyandra*
	Calandrinia ptychosperma
	Calandrinia sp.
	Portulaca conspicua
	Portulaca oleracea
	**Portulaca pilosa*
Proteaceae	*Grevillea eriostachya*
	Grevillea pyramidalis subsp. *leucadendron*
Proteaceae	*Grevillea* sp.
	Grevillea stenobotrya
	Grevillea wickhamii subsp. *hispidula*
	Grevillea wickhamii subsp. indet
	Grevillea wickhamii subsp. *macrodonta*
	Hakea chordophylla
	Hakea lorea subsp. *lorea*
	Hakea stenophylla subsp. *stenophylla*
Pteridaceae	*Cheilanthes sieberi* subsp. *sieberi*
Rubiaceae	*Dolichocarpa crouchiana*
	Paranotis pterospora
	Psydrax latifolia
	Scleromitrion galioides
	Synaptantha tillaeacea var. *tillaeacea*
Santalaceae	*Santalum lanceolatum*
Sapindaceae	*Diplopeltis eriocarpa*
	Dodonaea coriacea
Scrophulariaceae	*Eremophila forrestii* subsp. *?viridis* (potential P3)
	Eremophila forrestii subsp. *forrestii*
	Eremophila forrestii subsp. *viridis* (P3)
	Eremophila fraseri subsp. *fraseri*
	Eremophila longifolia
	Eremophila maculata subsp. *brevifolia*
	Eremophila sp.
	Eremophila cuneifolia
Solanaceae	*Nicotiana ?benthamiana*
	Nicotiana benthamiana
	Nicotiana occidentalis subsp. *occidentalis*
	Nicotiana sp.
	Solanum ?horridum
	Solanum cleistogamum
	Solanum diversiflorum
	Solanum horridum
	Solanum lasiophyllum
	Solanum phlomoides
	Solanum sp.
Surianaceae	*Stylobasium spathulatum*
Thymelaeaceae	*Pimelea ammocharis*
Unknown	Indet herb sp.
Violaceae	*Afrohybanthus aurantiacus*

Family	Taxon
Zygophyllaceae	*Tribulus astrocarpus*
	Tribulus hirsutus
	Tribulus macrocarpus
	Tribulus occidentalis
	Tribulus platypterus
	Tribulus sp.
	**Tribulus suberosus*
	Tribulus terrestris

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
**Aerva javanica*			x			x										x													
**Bidens bipinnata*									x																				
**Cenchrus ciliaris*		x	x	x			x	x		x	x		x	x	x	x	x	x	x	x				x	x				
**Cenchrus setiger*			x	x			x	x		x	x		x			x													
**Citrullus amarus*													x																
**Citrullus colocynthis*																													
**Echinochloa colona*										x	x		x																
**Euphorbia hirta*										x	x			x															
**Flaveria trinervia*			x							x											x								
**Malvastrum americanum*								x		x	x		x	x		x													
**Parkinsonia aculeata*																													
**Passiflora foetida var. hispida*								x	x																				
**Portulaca pilosa*																								x					
**Prosopis pallida*							x						x																
**Setaria verticillata*								x		x	x		x	x		x													
**Sonchus oleraceus*										x	x																		
**Tribulus terrestris*								x					x			x													
**Vachellia farnesiana*							x	x		x	x		x	x	x	x													
?Calotis plumulifera							x																						
?Commicarpus australis																x													
?Corchorus sp.																													x
?Eriachne mucronata																													
?Eriochloa pseudoacrotricha										x																			
?Myriocephalus oldfieldii								x																					
?Sclerolaena costata																													
?Striga curviflora																													
Abutilon ?sp. Pilbara (W.R. Barker 2025)																													
Abutilon amplum													x																
Abutilon cunninghamii								x								x													
Abutilon fraseri subsp. fraseri											x																		
Abutilon lepidum								x	x	x	x	x	x	x	x	x			x		x	x							
Abutilon macrum								x						x		x													
Abutilon malvifolium													x																
Abutilon otocarpum								x		x	x	x	x	x		x					x								
Abutilon sp.								x	x					x															x
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)							x						x	x							x			x				x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)		x								x	x	x			x		x												
Abutilon sp. Pilbara (W.R. Barker 2025)								x	x	x		x	x	x		x					x	x							x
Acacia ?colei var. colei								x																					
Acacia ?sericophylla																													
Acacia adsurgens								x														x	x						
Acacia ancistrocarpa								x	x	x	x	x	x	x	x	x					x	x	x	x	x	x		x	x

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Acacia aptaneura																													
Acacia arida								x																x	x				
Acacia atkinsiana								x	x					x								x				x		x	x
Acacia bivenosa		x					x	x	x	x			x	x		x	x				x	x	x	x	x	x		x	x
Acacia citrinoviridis								x			x																		
Acacia colei var. colei									x				x	x		x	x												
Acacia colei var. indet													x																
Acacia coriacea subsp. coriacea										x	x																		
Acacia coriacea subsp. pendens									x																				
Acacia cowleana																x													
Acacia cuthbertsonii subsp. cuthbertsonii																													
Acacia elachantha								x						x															
Acacia inaequilatera								x	x			x		x								x	x			x		x	x
Acacia ligulata												x				x	x												
Acacia ligulata x sclerosperma subsp. sclerosperma Sens. Lat.																x													
Acacia marramamba																													
Acacia pachycarpa																													
Acacia pruinocarpa																												x	
Acacia pyrifolia var. pyrifolia										x	x		x			x						x					x	x	
Acacia sclerosperma subsp. sclerosperma												x			x	x	x	x											
Acacia sericophylla									x					x			x												
Acacia sp.																													
Acacia stellaticeps																	x	x											
Acacia synchronicia				x			x	x	x	x		x	x		x	x		x	x		x	x	x	x	x	x		x	x
Acacia tetragonophylla				x			x					x						x	x										
Acacia tetragonophylla x trachycarpa							x												x										
Acacia trachycarpa								x	x	x	x	x	x		x	x													
Acacia tumida var. pilbarensis								x	x				x	x								x							
Acacia wanyu								x	x					x							x							x	x
Acacia xiphophylla													x															x	
Achyranthes aspera																x								x					
Acrachne racemosa																x													
Adriana tomentosa var. tomentosa																x	x												
Aeschynomene indica				x			x																						
Afrohybanthus aurantiacus								x	x	x	x		x	x		x													x
Alternanthera denticulata							x	x		x	x																		
Alternanthera nana								x	x	x	x		x	x		x													
Alyogyne pinoniana var. pinoniana																	x												
Alysicarpus muelleri								x		x			x																
Amaranthus cuspidifolius								x		x	x		x			x					x	x	x	x	x				
Amaranthus sp.																					x								
Amaranthus undulatus										x	x		x															x	

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Ammannia baccifera											x																		
Ammannia multiflora											x		x																
Amphipogon sericeus																								x					
Angianthus milnei		x	x																										
Aristida burbidgeae																								x				x	
Aristida contorta										x			x	x	x		x	x						x	x		x		x
Aristida holathera var. holathera													x	x			x											x	x
Aristida inaequiglumis													x																
Aristida ingrata								x																					
Aristida latifolia																													
Aristida sp.																													
Arivela viscosa		x						x	x		x		x	x		x			x		x	x	x		x	x		x	
Atriplex bunburyana			x	x			x													x									
Atriplex codonocarpa			x																	x									
Atriplex semilunaris				x			x												x	x									
Atriplex sp.		x																											
Avicennia marina subsp. marina	x																												
Blumea tenella										x	x	x																	
Boerhavia ?burbidgeana														x															
Boerhavia burbidgeana													x	x		x													
Boerhavia coccinea								x	x				x	x	x	x					x	x	x	x	x				
Boerhavia repleta								x					x																
Boerhavia schomburgkiana																												x	
Boerhavia sp.			x				x	x					x																
Bonamia ?pilbarensis																							x						
Bonamia alatisemina									x					x			x	x	x										x
Bonamia erecta								x	x					x			x	x											
Bonamia media																						x						x	
Bonamia pannosa								x	x	x			x	x								x							
Bonamia pilbarensis													x	x							x	x	x	x	x			x	x
Bothriochloa ewartiana										x																			
Bulbostylis barbata		x						x	x	x		x	x	x	x	x	x	x	x		x	x	x	x	x	x		x	x
Bulbostylis turbinata													x																
Calandrinia polyandra												x																	
Calandrinia ptychosperma										x												x							
Calandrinia sp.							x	x					x						x										
Calotis plumulifera							x																						
Capparis spinosa subsp. nummularia																						x	x	x					
Cassytha capillaris								x	x								x	x	x					x	x				
Centipeda minima subsp. macrocephala							x	x		x	x		x	x															
Cheilanthes sieberi subsp. sieberi									x																				
Chenopodiaceae sp.			x																x										

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Chloris ?pectinata																													
Chloris pectinata							x	x		x				x															
Chloris pumilio			x																										
Chrysopogon fallax							x	x	x					x		x			x										
Clerodendrum floribundum var. angustifolium																x						x							
Codonocarpus cotinifolius								x	x					x										x					x
Convolvulus clementii										x																			
Corchorus ?elachocarpus								x																					x
Corchorus ?laniflorus										x							x												x
Corchorus ?sidoides subsp. vermicularis								x																					
Corchorus ?tectus										x				x			x												
Corchorus crozophorifolius													x	x															
Corchorus elachocarpus														x															
Corchorus laniflorus											x		x	x		x					x	x					x		x
Corchorus lasiocarpus subsp. lasiocarpus								x					x	x							x	x						x	
Corchorus lasiocarpus subsp. parvus								x								x													
Corchorus parviflorus																						x	x						
Corchorus sidoides subsp. vermicularis								x	x					x			x					x						x	
Corchorus sp.								x					x																x
Corchorus tectus								x	x	x		x	x	x															x
Corchorus tridens										x	x		x			x													
Corymbia candida subsp. candida								x		x				x	x								x						
Corymbia hamersleyana								x	x	x		x	x	x		x							x			x		x	x
Corymbia zygophylla																													x
Corynotheca pungens																	x												
Crotalaria cunninghamii subsp. sturtii										x							x			x									
Crotalaria medicaginea var. neglecta			x				x			x	x		x	x						x			x						
Cucumis ?picrocarpus										x	x																		
Cucumis melo										x	x																		
Cucumis variabilis							x	x	x	x	x		x	x		x						x	x			x	x		
Cullen cinereum							x																						
Cullen graveolens								x																					
Cullen lachnostachys								x						x															
Cullen leucochaites								x	x		x	x	x	x															x
Cullen martinii								x			x		x	x															
Cullen pogonocarpum			x			x	x	x	x	x	x	x							x	x		x							
Cullen sp.													x								x	x							
Cymbopogon ambiguus													x			x					x	x	x	x	x			x	
Cymbopogon sp.																											x		
Cynanchum viminale subsp. australe																													
Cynodon convergens								x					x																
Cynodon prostratus								x	x												x	x	x	x		x		x	

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Cynodon sp.				x																									
Cyperaceae sp.																													
Cyperus bulbosus		x	x	x		x	x													x									
Cyperus cunninghamii subsp. cunninghamii																						x	x					x	
Cyperus hesperius																						x	x						
Cyperus iria							x	x		x		x	x																
Cyperus squarrosus													x																
Cyperus vaginatus										x	x		x			x													
Dactyloctenium radulans		x	x	x		x	x	x		x	x		x			x			x	x		x			x				
Dampiera candicans									x					x															
Dichanthium fecundum											x		x																
Dichanthium sericeum subsp. humilius								x	x	x	x		x	x	x								x						
Digitaria brownii														x														x	x
Digitaria ctenantha													x															x	
Diplopeltis eriocarpa																	x												
Dipteracanthus australasicus subsp. australasicus																x													
Dissocarpus paradoxus			x				x																						
Dodonaea coriacea									x					x										x	x				
Dolichocarpa crouchiana								x					x								x	x	x		x	x	x		x
Duperreya commixta													x	x		x					x								
Dysphania kalpari													x									x							
Dysphania melanocarpa forma leucocarpa											x		x																
Dysphania melanocarpa forma melanocarpa													x																
Dysphania plantaginella						x														x									
Dysphania rhadinostachya subsp. inflata								x								x													
Dysphania rhadinostachya subsp. rhadinostachya							x	x	x	x	x		x	x	x	x					x	x	x	x	x	x		x	x
Dysphania sp.																x										x	x		
Dysphania sphaerosperma																													
Enchylaena tomentosa var. tomentosa		x	x				x	x					x			x							x	x				x	
Enneapogon caerulescens																					x	x			x		x		x
Enneapogon polyphyllus								x																	x				
Enteropogon ramosus										x	x			x															
Eragrostis ?dielsii																x													
Eragrostis cumingii								x		x	x		x	x		x						x							
Eragrostis dielsii			x										x																
Eragrostis eriopoda																			x								x		
Eragrostis falcata			x			x														x									
Eragrostis leptocarpa										x	x		x																
Eragrostis tenellula								x		x	x		x	x															
Eragrostis xerophila																													
Eremophila forrestii subsp. ?viridis (P3)																		x											
Eremophila forrestii subsp. forrestii								x																					

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Eremophila forrestii subsp. viridis (P3)																	x												
Eremophila fraseri subsp. fraseri																							x						
Eremophila longifolia								x						x		x						x						x	
Eremophila maculata subsp. brevifolia																			x										
Eremophila sp.																													
Eremophila cuneifolia																					x			x	x				
Eriachne ?helmsii																		x											
Eriachne aristidea									x	x		x	x	x															x
Eriachne benthamii																													
Eriachne flaccida				x			x		x				x																
Eriachne helmsii																	x	x											
Eriachne mucronata								x	x					x							x	x	x	x	x	x	x	x	
Eriachne obtusa																		x	x										
Eriachne pulchella subsp. dominii									x				x								x	x		x	x			x	x
Eriachne pulchella subsp. indet								x	x				x	x							x			x	x	x		x	x
Eriachne pulchella subsp. pulchella																					x	x	x			x		x	
Eriachne sp.								x																					
Eriachne tenuiculmis													x																
Eriochloa pseudoacrotricha			x							x	x																		
Eucalyptus camaldulensis										x	x		x																
Eucalyptus leucophloia subsp. leucophloia													x													x	x		
Eucalyptus victrix										x	x		x	x	x														
Eulalia aurea				x			x	x		x	x			x			x	x	x										
Euphorbia ?boophthona/tannensis								x																					
Euphorbia ?vaccaria																													x
Euphorbia australis var. subtomentosa								x	x		x		x	x	x	x					x	x	x		x	x	x	x	x
Euphorbia biconvexa								x	x	x	x			x		x													
Euphorbia boophthona		x					x	x	x	x	x	x	x	x	x	x					x	x	x			x		x	x
Euphorbia careyi													x									x	x						
Euphorbia inappendiculata var inappendiculata (P2)													x																
Euphorbia myrtoides																	x												
Euphorbia sp.														x															
Euphorbia tannensis subsp. eremophila								x	x	x	x		x	x	x	x						x							
Euphorbia trigonosperma			x				x		x	x	x		x	x		x				x									x
Euphorbia vaccaria var. vaccaria																													
Evolvulus alsinoides var. decumbens													x	x															
Evolvulus alsinoides var. indet																										x			
Evolvulus alsinoides var. villosicalyx								x	x	x	x	x	x	x	x	x	x		x		x	x	x	x	x			x	x
Fabaceae sp.		x		x				x										x					x						
Ficus brachypoda																							x						
Fimbristylis dichotoma								x			x		x						x		x	x				x			
Fimbristylis microcarya										x	x																		

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Fimbristylis simulans														x														x	x
Frankenia ambita			x			x														x									
Glinus oppositifolius													x																
Glycine canescens										x	x																		
Gomphrena ?affinis subsp. pilbarensis																													
Gomphrena canescens											x																		
Gomphrena cunninghamii								x													x	x	x	x	x	x		x	
Gomphrena sp.																										x			
Goodenia corynocarpa							x																						
Goodenia forrestii								x	x	x				x		x	x	x	x		x	x		x				x	
Goodenia lamprosperma													x																
Goodenia microptera								x	x			x	x	x		x	x	x			x	x	x	x	x	x		x	x
Goodenia muelleriana								x																					
Goodenia nuda (P4)								x				x																	
Goodenia sp.														x															x
Goodenia tenuiloba								x	x					x															
Goodenia triodiophila								x						x															
Gossypium australe								x					x	x		x						x	x					x	
Gossypium robinsonii										x	x		x	x		x						x	x						
Grevillea eriostachya																	x	x											x
Grevillea pyramidalis subsp. leucadendron													x			x						x							
Grevillea sp.																		x											
Grevillea stenobotrya																	x	x	x										
Grevillea wickhamii subsp. hispidula									x					x															
Grevillea wickhamii subsp. indet									x				x	x								x	x						x
Grevillea wickhamii subsp. macrodonta									x					x															x
Hakea chordophylla																							x						
Hakea lorea subsp. lorea								x	x			x				x						x		x		x		x	x
Hakea stenophylla subsp. stenophylla																	x												
Haloragis sp.																		x											x
Haloragis trigonocarpa														x															
Heliotropium crispatum		x								x	x								x		x		x						x
Heliotropium cunninghamii													x				x				x								
Heliotropium diversifolium																	x												
Heliotropium heteranthum								x						x							x	x						x	x
Heliotropium inexplicitum								x		x			x								x								
Heliotropium ovalifolium														x															
Heliotropium pachyphyllum													x									x	x						x
Heliotropium sp.																													
Hibiscus brachychlaenus													x				x												
Hibiscus burtonii																							x						
Hibiscus coatesii														x							x	x	x				x		

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Hibiscus goldsworthii																						x	x	x	x				
Hibiscus leptocladus														x								x							
Hibiscus sp.																									x				
Hibiscus sturtii var. ?grandiflorus																													
Hibiscus sturtii var. campylochlamys								x	x	x				x			x					x					x	x	
Hibiscus sturtii var. grandiflorus								x		x			x	x		x		x			x		x						
Hibiscus sturtii var. indet								x																					
Hibiscus sturtii var. platychlamys													x																
Hibiscus verdcourtii													x																
Indet herb sp.		x	x				x						x	x			x	x			x			x					
Indigofera boviperda subsp. boviperda								x	x			x	x	x			x	x	x										x
Indigofera colutea								x		x	x		x	x		x	x		x	x		x							
Indigofera linifolia								x		x	x		x	x		x			x	x									
Indigofera monophylla								x					x	x		x						x	x						x
Indigofera rugosa																											x		
Indigofera sp.			x								x																		
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)													x	x															
Indigofera trita subsp. trita										x						x				x									
Ipomoea coptica			x				x	x																					
Ipomoea muelleri							x	x	x	x	x	x	x	x	x														
Ipomoea polymorpha													x				x												
Iseilema dolichotrichum								x		x					x									x	x				
Iseilema eremaeum								x					x								x								
Iseilema membranaceum		x						x	x		x			x															
Iseilema sp.																								x					
Iseilema vaginiflorum									x				x																
Isotropis atropurpurea								x	x				x	x								x							
Jasminum didymum subsp. lineare													x	x		x						x	x					x	
Lawrencia densiflora																													
Lawrencia viridigrisea		x	x	x		x														x									
Lepidium ?pholidogynum								x															x		x				
Lepidium phlebopetalum																													
Lepidium pholidogynum		x	x					x													x				x				
Lepidium platypetalum																													
Leptochloa digitata											x																		
Lotus cruentus							x			x	x									x									
Lysiana casuarinae																x													
Maireana ?melanocoma			x																										
Maireana georgei		x					x																	x					
Maireana melanocoma																					x				x				
Maireana planifolia									x																				
Maireana platycarpa																													

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Maireana sp.		x		x			x												x						x				
Maireana tomentosa subsp. tomentosa			x				x																						
Maireana georgei		x	x																										
Malvaceae sp.								x	x	x				x	x		x							x	x	x			
Marsilea exarata								x					x																
Marsilea hirsuta								x		x																			
Marsilea sp.							x			x																			
Melaleuca argentea										x	x																		
Melaleuca bracteata													x																
Melaleuca glomerata										x	x		x																
Melaleuca linophylla										x																			
Melhania oblongifolia													x			x													
Mimulus gracilis								x		x	x																		
Minuria integerrima							x																						
Muellerolimon salicorniaceum						x																							
Neobassia astrocarpa						x														x									
Neptunia dimorphantha								x					x																
Nicotiana ?benthamiana										x	x																		
Nicotiana benthamiana																						x	x	x				x	
Nicotiana occidentalis subsp. occidentalis											x									x									
Nicotiana sp.							x																						
Notoleptopus decaisnei var. decaisnei								x			x		x	x		x						x	x				x		
Panicum decompositum				x				x					x					x											
Panicum laevinode								x			x																		
Paraneurachne muelleri									x					x								x							x
Paranotis pterospora																	x												
Paspalidium basicladum								x	x																x			x	
Paspalidium clementii		x						x				x	x	x	x	x					x	x	x	x	x	x	x	x	x
Paspalidium rarum								x		x	x		x	x															
Paspalidium tabulatum																							x		x				
Peplidium muelleri								x																					
Peripleura hispidula var. setosa									x																				
Peripleura obovata									x																				
Peripleura virgata																						x		x					
Perotis rara								x					x	x		x						x							
Phyllanthus erwinii								x	x	x	x	x	x	x	x						x	x		x				x	x
Phyllanthus maderaspatensis								x		x	x		x	x	x	x													
Phyllanthus sp.																													
Pimelea ammocharis																						x							
Pluchea dentex									x				x																
Pluchea dunlopii																													
Pluchea longiseta			x																										

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Pluchea rubelliflora								x																					
Pluchea sp.													x																
Poaceae sp.		x						x	x	x			x																
Polycarpaea corymbosa var. corymbosa								x	x				x						x		x	x	x			x		x	
Polycarpaea holtzei								x													x	x	x	x		x		x	x
Polycarpaea longiflora																						x	x					x	
Polygala glaucifolia								x	x									x					x		x				x
Polymeria ambigua												x	x	x															
Polymeria sp.														x															
Portulaca conspicua																					x								
Portulaca oleracea		x	x				x	x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	x	x		x	x
Psydrax latifolia																								x	x				
Pterocaulon serrulatum var. velutinum													x																
Pterocaulon sp.								x		x						x													
Pterocaulon sphacelatum								x	x	x	x		x	x						x									
Pterocaulon sphaeranthoides																													
Ptilotus ?astrolasius																												x	
Ptilotus ?fusiformis																													
Ptilotus ?gomphrenoides				x																									
Ptilotus ?polystachyus																		x	x										
Ptilotus aervoides													x	x							x	x						x	
Ptilotus appendiculatus								x						x								x							
Ptilotus astrolasius								x	x				x	x		x					x	x				x		x	x
Ptilotus auriculifolius								x	x				x			x					x	x	x		x			x	x
Ptilotus axillaris								x	x	x			x	x	x	x					x	x	x		x				x
Ptilotus calostachyus		x						x						x							x			x	x	x		x	x
Ptilotus clementii													x								x	x			x		x	x	
Ptilotus exaltatus		x	x	x			x	x	x				x	x		x	x	x	x		x			x	x			x	x
Ptilotus fusiformis								x	x	x	x		x	x								x	x					x	x
Ptilotus gomphrenoides								x					x									x							
Ptilotus helipteroides																								x					
Ptilotus incanus																						x							
Ptilotus obovatus var. obovatus									x													x	x			x	x		x
Ptilotus polystachyus							x			x					x		x	x	x	x									
Ptilotus sp.								x					x					x						x				x	x
Ptilotus xerophilus																													
Ptilotus appendiculatus								x																					
Quoya loxocarpa																	x												
Quoya paniculata																	x												
Rhagodia eremaea							x								x				x		x			x	x				
Rhodanthe humboldtiana			x																										
Rhodanthe margarethae																						x							

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Rhodanthe psammophila																	x												
Rhynchosia minima							x	x	x	x	x		x	x	x	x			x	x			x						
Rostellularia adscendens var. clementii										x	x																		
Salsola australis		x	x	x		x	x						x						x	x	x	x		x	x		x		
Santalum lanceolatum																													
Scaevola sericophylla																	x	x											
Scaevola spinescens		x					x	x								x	x	x	x										
Sclerolaena densiflora								x													x	x			x				
Sclerolaena diacantha			x																										
Sclerolaena eriacantha																									x				
Sclerolaena recurvicuspis			x																										
Sclerolaena sp.																							x						
Scleromitrion galioides											x																		
Senna artemisioides subsp. helmsii								x								x					x								
Senna artemisioides subsp. helmsii x oligophylla								x																					
Senna artemisioides subsp. oligophylla								x				x	x	x	x	x	x					x	x		x		x	x	
Senna glutinosa subsp. glutinosa														x		x					x	x	x	x	x	x	x	x	x
Senna glutinosa subsp. glutinosa x stricta																													
Senna glutinosa subsp. pruinosa																					x	x	x			x		x	x
Senna notabilis							x	x	x	x	x	x	x	x	x	x					x	x	x			x		x	x
Senna sericea																													
Senna venusta								x														x	x						
Senna glutinosa subsp. ×luerssenii																									x			x	x
Seringia exastia									x					x															x
Seringia nephrosperma									x					x				x											x
Sesbania cannabina			x				x			x	x								x										
Setaria dielsii										x			x																
Sida ?cardiophylla									x																				
Sida ?spinosa																													
Sida aff. fibulifera													x																
Sida arenicola																													
Sida arsiniata								x					x	x		x						x							
Sida echinocarpa								x	x		x		x	x		x					x	x						x	
Sida fibulifera								x	x	x			x	x		x		x	x	x	x							x	
Sida platycalyx																													
Sida rohlenae subsp. rohlenae										x	x		x	x		x												x	
Sida sp.										x	x		x	x	x	x													
Sida sp. L (A.M. Ashby 4202)								x					x																
Sida sp. Pilbara (A.A. Mitchell PRP 1543)								x	x			x		x							x	x	x	x					x
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)								x					x	x		x													
Sida spinosa										x	x	x	x	x		x						x	x						
Solanum ?horridum													x																

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Solanum cleistogamum		x					x	x	x	x	x	x			x						x	x	x	x		x		x	x
Solanum diversiflorum								x	x	x	x		x	x		x					x	x	x	x	x	x		x	x
Solanum horridum								x					x									x						x	
Solanum lasiophyllum		x					x	x					x				x	x	x										
Solanum phlomoides									x	x	x			x		x													
Solanum sp.								x			x			x												x			
Sporobolus ?virginicus																				x									
Sporobolus australasicus								x	x	x	x	x	x	x		x					x	x	x	x	x	x	x	x	x
Sporobolus mitchellii							x																						
Stackhousia ?muricata subsp. annual (W. R. Barker 2172)																					x								
Stemodia grossa								x		x			x																
Stemodia sp. Onslow (A.A. Mitchell 76/148)							x											x	x										
Streptoglossa ?bubakii																													
Streptoglossa ?decurrens								x																					
Streptoglossa bubakii																													x
Streptoglossa decurrens								x	x			x			x								x						x
Streptoglossa liatroides		x	x				x	x		x																			
Streptoglossa sp.		x	x				x	x	x	x	x		x	x							x	x	x	x	x			x	x
Striga squamigera								x	x		x		x										x						
Stylobasium spathulatum													x	x		x	x	x				x					x		
Swainsona complanata																													
Swainsona kingii		x	x				x																						
Swainsona maccullochiana													x																
Swainsona pterostylis			x	x		x	x													x									
Swainsona sp.		x						x																					
Synaptantha tillaeacea var. tillaeacea													x								x	x							
Tecticornia auriculata		x	x		x	x																							
Tecticornia halocnemoides subsp. tenuis		x	x		x																								
Tecticornia indica subsp. bidens			x																										
Tecticornia indica subsp. leiostachya			x			x	x																						
Tecticornia sp. Sterile 1	x				x	x																							
Tecticornia sp. Sterile 2						x																							
Tephrosia aff. remotiflora								x																					
Tephrosia aff. supina																													
Tephrosia clementii										x											x	x							
Tephrosia rosea var. clementii													x				x												
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)														x		x													
Tephrosia sp.													x																
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																						x	x					x	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)														x								x							
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)																													
Tephrosia supina													x	x															

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Tephrosia uniovulata														x								x							x
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)													x									x							
Themeda triandra													x	x															
Tinospora smilacina																						x							
Trachymene ?pilbarensis		x																											
Trachymene oleracea subsp. oleracea													x	x							x								x
Trachymene pilbarensis																		x											
Trachymene sp.		x											x						x							x			
Trianthema pilosum													x				x												
Trianthema triquetrum		x	x				x	x		x	x		x			x			x		x	x	x		x	x		x	
Trianthema turgidifolium							x											x	x										
Tribulus astrocarpus								x								x						x							
Tribulus hirsutus								x					x								x	x	x				x		x
Tribulus macrocarpus								x					x			x													x
Tribulus occidentalis																	x												
Tribulus platypterus																							x						
Tribulus sp.													x																
Tribulus suberosus																							x	x	x	x	x	x	
Trichodesma sp.																													
Trichodesma zeylanicum var. grandiflorum																	x												
Trichodesma zeylanicum var. zeylanicum								x	x				x	x			x		x		x	x	x	x		x			
Trigastrotheca molluginea								x	x				x	x							x	x	x	x		x		x	
Triodia avenoides																	x	x											
Triodia epactia		x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			x	x
Triodia glabra												x						x											
Triodia longiceps								x																					
Triodia wiseana									x				x	x							x	x	x	x	x	x	x	x	x
Triraphis mollis																				x									
Triumfetta ?chaetocarpa																													
Triumfetta appendiculata																													
Triumfetta chaetocarpa									x				x	x			x												x
Triumfetta clementii								x	x	x	x		x	x							x	x	x					x	x
Triumfetta johnstonii									x				x	x															
Triumfetta maconochieana																						x							
Triumfetta sp.													x															x	
Urochloa holosericea subsp. velutina																	x		x										
Urochloa occidentalis var. occidentalis								x					x																
Urochloa piligera										x	x		x																
Vigna lanceolata var. lanceolata										x	x		x	x															
Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)																				x									
Vincetoxicum lineare																													
Waltheria indica								x					x	x								x	x						

Taxon	CT01	CT02	CT03	CT04	CT05	CT06	CT07	DR01	DR02	DR03	DR04	DR05	DR06	DR07	DR08	DR09	DS01	DS02	DS03	DS04	HM01	HM02	HM03	HM04	HM05	HM06	HM07	HM08	HM09
Yakirra australiensis var. australiensis		x						x									x	x	x			x							x

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
**Aerva javanica*																								
**Bidens bipinnata*						x														x				
**Cenchrus ciliaris*		x	x		x	x										x	x			x	x		x	x
**Cenchrus setiger*																								
**Citrullus amarus*																								
**Citrullus colocynthis*																				x				
**Echinochloa colona*					x																x			
**Euphorbia hirta*																								
**Flaveria trinervia*			x																					
**Malvastrum americanum*	x				x						x		x					x		x	x			
**Parkinsonia aculeata*																				x				
**Passiflora foetida var. hispida*																								
**Portulaca pilosa*	x					x	x					x												
**Prosopis pallida*																								
**Setaria verticillata*											x						x			x				
**Sonchus oleraceus*																								
**Tribulus terrestris*																								
**Vachellia farnesiana*											x									x	x			
?Calotis plumulifera																								
?Commicarpus australis																								
?Corchorus sp.			x																					
?Eriachne mucronata		x																						
?Eriochloa pseudoacrotricha																								
?Myriocephalus oldfieldii																								
?Sclerolaena costata					x																			
?Striga curviflora																				x				
Abutilon ?sp. Pilbara (W.R. Barker 2025)					x														x	x				
Abutilon amplum																								
Abutilon cunninghamii																								
Abutilon fraseri subsp. fraseri	x										x													
Abutilon lepidum			x		x	x	x				x			x	x				x	x		x	x	
Abutilon macrum											x													
Abutilon malvifolium																				x				
Abutilon otocarpum			x		x	x					x												x	
Abutilon sp.			x		x	x	x	x			x					x		x	x					
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)																								
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)					x			x						x		x			x				x	
Abutilon sp. Pilbara (W.R. Barker 2025)	x		x		x	x				x	x		x		x									
Acacia ?colei var. colei																								
Acacia ?sericophylla		x																						
Acacia adsurgens																								
Acacia ancistrocarpa		x	x	x	x	x		x			x		x					x	x	x	x	x	x	

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Acacia aptaneura																				x	x	x		
Acacia arida																								
Acacia atkinsiana			x			x				x	x							x	x	x	x			
Acacia bivenosa		x	x	x	x	x	x	x	x	x	x	x	x		x			x	x	x	x		x	
Acacia citrinoviridis																								
Acacia colei var. colei		x	x		x						x													
Acacia colei var. indet																								
Acacia coriacea subsp. coriacea																								
Acacia coriacea subsp. pendens																								
Acacia cowleana																								
Acacia cuthbertsonii subsp. cuthbertsonii							x																	
Acacia elachantha																								
Acacia inaequilatera		x	x					x			x		x					x	x					x
Acacia ligulata																					x			
Acacia ligulata x sclerosperma subsp. sclerosperma Sens. Lat.																								
Acacia marramamba																			x					
Acacia pachycarpa		x		x				x											x					
Acacia pruinocarpa																								
Acacia pyrifolia var. pyrifolia											x		x							x				
Acacia sclerosperma subsp. sclerosperma														x										x
Acacia sericophylla		x																						
Acacia sp.											x													
Acacia stellaticeps		x		x																				
Acacia synchronicia	x		x		x	x	x	x			x	x	x	x	x	x			x	x	x	x	x	x
Acacia tetragonophylla					x															x	x		x	
Acacia tetragonophylla x trachycarpa																								
Acacia trachycarpa												x							x				x	
Acacia tumida var. pilbarensis										x	x													
Acacia wanyu			x			x	x				x								x	x	x	x		
Acacia xiphophylla	x				x									x	x	x	x		x			x	x	
Achyranthes aspera																								
Acrachne racemosa																								
Adriana tomentosa var. tomentosa																								
Aeschynomene indica																								
Afrohybanthus aurantiacus			x		x	x					x										x			
Alternanthera denticulata																								
Alternanthera nana			x		x						x									x	x			
Alyogyne pinoniana var. pinoniana																								
Alysicarpus muelleri											x									x				
Amaranthus cuspidifolius					x						x		x				x			x			x	
Amaranthus sp.																								
Amaranthus undulatus											x													

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Ammannia baccifera																								
Ammannia multiflora																								
Amphipogon sericeus																								
Angianthus milnei																								
Aristida burbidgeae																								
Aristida contorta	x	x	x		x	x		x			x	x	x	x	x			x	x	x				
Aristida holathera var. holathera	x					x				x	x								x					x
Aristida inaequiglumis			x																					
Aristida ingrata																								
Aristida latifolia					x																			
Aristida sp.			x																					
Arivela viscosa	x		x		x					x	x		x		x	x		x		x	x	x		
Atriplex bunburyana																								
Atriplex codonocarpa																								
Atriplex semilunaris																								
Atriplex sp.																								
Avicennia marina subsp. marina																								
Blumea tenella																					x			
Boerhavia ?burbidgeana																								
Boerhavia burbidgeana																								
Boerhavia coccinea					x			x			x		x				x	x					x	
Boerhavia repleta			x								x									x				
Boerhavia schomburgkiana																								
Boerhavia sp.																			x	x				
Bonamia ?pilbarensis																								
Bonamia alatisemina		x	x					x											x					
Bonamia erecta		x	x	x							x							x	x					
Bonamia media						x							x											
Bonamia pannosa			x		x			x			x		x	x				x	x					
Bonamia pilbarensis						x	x			x	x		x					x						
Bothriochloa ewartiana																								
Bulbostylis barbata		x	x		x						x		x	x	x			x	x	x		x		x
Bulbostylis turbinata					x															x		x	x	
Calandrinia polyandra					x			x						x										
Calandrinia ptychosperma											x		x											
Calandrinia sp.													x							x			x	x
Calotis plumulifera																								
Capparis spinosa subsp. nummularia																								
Cassytha capillaris				x		x	x								x									
Centipeda minima subsp. macrocephala																					x			
Cheilanthes sieberi subsp. sieberi			x			x	x					x			x					x				
Chenopodiaceae sp.						x						x	x		x									

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Chloris ?pectinata																				x			x	
Chloris pectinata																				x	x			
Chloris pumilio																								
Chrysopogon fallax			x		x	x	x				x							x	x	x			x	
Clerodendrum floribundum var. angustifolium																								
Codonocarpus cotinifolius						x							x											
Convolvulus clementii																								
Corchorus ?elachocarpus																								
Corchorus ?laniflorus																				x				
Corchorus ?sidoides subsp. vermicularis					x																			
Corchorus ?tectus			x																x	x	x			
Corchorus crozophorifolius																								
Corchorus elachocarpus																								
Corchorus laniflorus					x						x		x					x						
Corchorus lasiocarpus subsp. lasiocarpus			x		x			x																
Corchorus lasiocarpus subsp. parvus											x													
Corchorus parviflorus																								
Corchorus sidoides subsp. vermicularis										x														
Corchorus sp.			x			x							x						x					
Corchorus tectus	x		x			x				x	x								x	x				
Corchorus tridens			x		x						x		x					x		x	x			
Corymbia candida subsp. candida		x	x								x								x	x	x			
Corymbia hamersleyana		x	x								x		x					x	x		x			x
Corymbia zygophylla																			x					
Corynotheca pungens																								
Crotalaria cunninghamii subsp. sturtii																								
Crotalaria medicaginea var. neglecta											x													
Cucumis ?picrocarpus																				x				
Cucumis melo																								
Cucumis variabilis		x	x		x		x			x	x		x						x	x		x		
Cullen cinereum																								
Cullen graveolens										x														
Cullen lachnostachys							x												x					
Cullen leucochaites			x																					
Cullen martinii											x				x									
Cullen pogonocarpum			x		x					x			x		x								x	
Cullen sp.																								
Cymbopogon ambiguus																			x					
Cymbopogon sp.	x																							
Cynanchum viminale subsp. australe	x																							
Cynodon convergens																								
Cynodon prostratus	x				x	x	x					x	x		x	x			x					x

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Cynodon sp.																								
Cyperaceae sp.									x															
Cyperus bulbosus																								
Cyperus cunninghamii subsp. cunninghamii																								
Cyperus hesperius																								
Cyperus iria																				x	x			
Cyperus squarrosus																								
Cyperus vaginatus																								
Dactyloctenium radulans	x				x	x	x	x					x						x	x		x		
Dampiera candicans																								
Dichanthium fecundum																								
Dichanthium sericeum subsp. humilius			x		x	x	x										x			x	x	x	x	
Digitaria brownii																								
Digitaria ctenantha											x													
Diplopeltis eriocarpa																								
Dipteracanthus australasicus subsp. australasicus																								
Dissocarpus paradoxus																								
Dodonaea coriacea			x																					
Dolichocarpa crouchiana			x			x					x		x		x									
Duperreya commixta																								
Dysphania kalpari	x		x		x					x	x							x						
Dysphania melanocarpa forma leucocarpa																								
Dysphania melanocarpa forma melanocarpa																								
Dysphania plantaginella																								
Dysphania rhadinostachya subsp. inflata											x										x			
Dysphania rhadinostachya subsp. rhadinostachya	x		x		x	x				x	x		x		x			x	x	x	x	x	x	
Dysphania sp.						x							x			x		x	x					
Dysphania sphaerosperma															x									
Enchylaena tomentosa var. tomentosa	x	x			x		x						x		x	x	x		x					
Enneapogon caerulescens						x	x						x		x	x								
Enneapogon polyphyllus						x																		
Enteropogon ramosus					x																			
Eragrostis ?dielsii																								
Eragrostis cumingii											x									x			x	
Eragrostis dielsii					x								x						x					
Eragrostis eriopoda																								
Eragrostis falcata																								
Eragrostis leptocarpa																				x				
Eragrostis tenellula																					x			
Eragrostis xerophila											x						x							
Eremophila forrestii subsp. ?viridis (P3)																								
Eremophila forrestii subsp. forrestii					x						x													

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Eremophila forrestii subsp. viridis (P3)																								
Eremophila fraseri subsp. fraseri																								
Eremophila longifolia											x									x				
Eremophila maculata subsp. brevifolia																								
Eremophila sp.							x																	
Eremophila cuneifolia	x					x						x			x									
Eriachne ?helmsii																								
Eriachne aristidea	x		x			x		x			x		x					x	x					x
Eriachne benthamii																		x				x		
Eriachne flaccida					x																x		x	
Eriachne helmsii																								
Eriachne mucronata			x			x					x				x									
Eriachne obtusa																								
Eriachne pulchella subsp. dominii	x					x				x	x								x					
Eriachne pulchella subsp. indet	x		x		x	x		x			x		x		x	x			x			x		x
Eriachne pulchella subsp. pulchella	x		x		x	x	x					x	x			x			x					
Eriachne sp.																								
Eriachne tenuiculmis											x													
Eriochloa pseudoacrotricha																								
Eucalyptus camaldulensis																								
Eucalyptus leucophloia subsp. leucophloia															x									
Eucalyptus victrix			x																	x	x			
Eulalia aurea			x																		x		x	
Euphorbia ?boophthona/tannensis																								
Euphorbia ?vaccaria						x					x		x											
Euphorbia australis var. subtomentosa	x	x	x			x	x	x		x	x		x		x			x	x					x
Euphorbia biconvexa			x				x			x	x									x				
Euphorbia boophthona	x		x		x	x	x	x		x	x	x	x	x	x	x		x	x		x		x	
Euphorbia careyi																								
Euphorbia inappendiculata var inappendiculata (P2)																					x			
Euphorbia myrtoides																								
Euphorbia sp.																								
Euphorbia tannensis subsp. eremophila		x			x	x					x		x					x						
Euphorbia trigonosperma			x								x		x					x		x	x			
Euphorbia vaccaria var. vaccaria					x						x		x			x		x	x					
Evolvulus alsinoides var. decumbens											x													
Evolvulus alsinoides var. indet																								
Evolvulus alsinoides var. villosicalyx	x	x	x		x	x	x	x			x	x	x	x	x			x	x	x		x	x	
Fabaceae sp.																								
Ficus brachypoda																								
Fimbristylis dichotoma					x							x												
Fimbristylis microcarya																								

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Fimbristylis simulans																								
Frankenia ambita																								
Glinus oppositifolius																								
Glycine canescens																								
Gomphrena ?affinis subsp. pilbarensis	x																							
Gomphrena canescens																								
Gomphrena cunninghamii			x		x	x					x		x											
Gomphrena sp.																								
Goodenia corynocarpa																								
Goodenia forrestii	x		x		x	x	x				x		x		x	x			x					
Goodenia lamprosperma																								
Goodenia microptera	x	x	x		x	x				x	x		x	x	x	x		x	x					x
Goodenia muelleriana						x																		
Goodenia nuda (P4)			x																				x	
Goodenia sp.						x						x												
Goodenia tenuiloba			x		x																x			
Goodenia triodiophila																					x			
Gossypium australe					x					x	x		x					x						
Gossypium robinsonii											x		x											
Grevillea eriostachya				x																				
Grevillea pyramidalis subsp. leucadendron											x													
Grevillea sp.																								
Grevillea stenobotrya											x													
Grevillea wickhamii subsp. hispidula															x									
Grevillea wickhamii subsp. indet											x							x						
Grevillea wickhamii subsp. macrodonta										x														
Hakea chordophylla																								
Hakea lorea subsp. lorea		x	x			x		x			x		x						x	x			x	x
Hakea stenophylla subsp. stenophylla				x																				
Haloragis sp.						x																		
Haloragis trigonocarpa																								
Heliotropium crispatum					x								x										x	
Heliotropium cunninghamii																								
Heliotropium diversifolium																								
Heliotropium heteranthum	x		x		x	x					x	x	x		x	x								
Heliotropium inexplicitum					x	x		x						x				x	x	x			x	
Heliotropium ovalifolium											x									x				
Heliotropium pachyphyllum						x																		
Heliotropium sp.																			x					
Hibiscus brachychlaenus					x																			
Hibiscus burtonii					x																			
Hibiscus coatesii						x									x									

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Hibiscus goldsworthii																								
Hibiscus leptocladus						x							x											
Hibiscus sp.																								
Hibiscus sturtii var. ?grandiflorus													x											
Hibiscus sturtii var. campylochlamys			x			x		x			x		x											
Hibiscus sturtii var. grandiflorus	x		x		x	x	x	x		x	x		x		x					x	x	x	x	
Hibiscus sturtii var. indet						x												x						
Hibiscus sturtii var. platychlamys						x				x	x													
Hibiscus verdcourtii																	x							
Indet herb sp.		x	x	x												x			x	x				
Indigofera boviperda subsp. boviperda		x	x		x	x		x			x							x	x				x	
Indigofera colutea											x		x					x					x	x
Indigofera linifolia	x										x													
Indigofera monophylla			x			x														x	x			
Indigofera rugosa																								
Indigofera sp.													x											
Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) (P3)																								
Indigofera trita subsp. trita					x																			
Ipomoea coptica																								
Ipomoea muelleri			x		x						x			x						x	x	x		
Ipomoea polymorpha																								
Iseilema dolichotrichum			x		x	x						x				x				x			x	
Iseilema eremaeum						x	x															x		
Iseilema membranaceum						x									x					x	x			
Iseilema sp.			x			x																x		
Iseilema vaginiflorum	x																		x	x				
Isotropis atropurpurea		x	x								x									x				
Jasminum didymum subsp. lineare											x		x					x						
Lawrencia densiflora															x									
Lawrencia viridigrisea																								
Lepidium ?pholidogynum						x							x		x									
Lepidium phlebopetalum																							x	
Lepidium pholidogynum					x	x																		
Lepidium platypetalum																x								
Leptochloa digitata																								
Lotus cruentus																				x				
Lysiana casuarinae																								
Maireana ?melanocoma						x																		
Maireana georgei					x	x			x					x	x									
Maireana melanocoma	x				x	x									x									
Maireana planifolia	x				x										x	x								
Maireana platycarpa																x								

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Maireana sp.					x	x						x	x			x				x				
Maireana tomentosa subsp. tomentosa																								
Maireana georgei						x	x								x									
Malvaceae sp.		x	x		x	x	x	x				x	x			x		x						
Marsilea exarata																								
Marsilea hirsuta																								
Marsilea sp.																				x				
Melaleuca argentea																								
Melaleuca bracteata																								
Melaleuca glomerata																								
Melaleuca linophylla																								
Melhania oblongifolia											x		x					x						
Mimulus gracilis																								
Minuria integerrima																								
Muellerolimon salicorniaceum																								
Neobassia astrocarpa																								
Neptunia dimorphantha																				x	x			
Nicotiana ?benthamiana																								
Nicotiana benthamiana																								
Nicotiana occidentalis subsp. occidentalis																								
Nicotiana sp.																				x				
Notoleptopus decaisnei var. decaisnei			x		x						x		x					x						
Panicum decompositum					x	x	x																	
Panicum laevinode																								
Paraneurachne muelleri			x			x					x								x					
Paranotis pterospora																								
Paspalidium basicladum	x		x		x	x				x	x						x		x			x		
Paspalidium clementii			x		x	x	x				x		x	x	x	x		x	x	x	x	x	x	
Paspalidium rarum			x																	x		x	x	
Paspalidium tabulatum																								
Peplidium muelleri																								
Peripleura hispidula var. setosa																								
Peripleura obovata																								
Peripleura virgata																								
Perotis rara																								
Phyllanthus erwinii			x		x	x	x	x			x	x	x	x	x					x	x		x	
Phyllanthus maderaspatensis			x		x						x		x					x		x	x			
Phyllanthus sp.			x																					
Pimelea ammocharis																								
Pluchea dentex																								
Pluchea dunlopii					x														x			x		
Pluchea longiseta																								

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Pluchea rubelliflora																								
Pluchea sp.																								
Poaceae sp.			x	x					x										x	x	x			
Polycarpaea corymbosa var. corymbosa			x		x						x		x		x			x	x					x
Polycarpaea holtzei	x				x					x	x		x		x									
Polycarpaea longiflora																								
Polygala glaucifolia			x			x		x				x	x						x	x	x			x
Polymeria ambigua																								
Polymeria sp.								x												x				
Portulaca conspicua						x																		
Portulaca oleracea	x	x	x		x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Psydrax latifolia						x																		
Pterocaulon serrulatum var. velutinum											x													
Pterocaulon sp.			x										x		x									
Pterocaulon sphacelatum					x		x				x													
Pterocaulon sphaeranthoides											x								x					
Ptilotus ?astrolasius																								
Ptilotus ?fusiformis																			x					
Ptilotus ?gomphrenoides																								
Ptilotus ?polystachyus																			x					
Ptilotus aervoides	x		x		x						x		x	x	x			x	x					
Ptilotus appendiculatus										x														
Ptilotus astrolasius	x	x		x	x	x				x	x		x		x			x	x					
Ptilotus auriculifolius	x		x		x	x				x	x		x		x					x				
Ptilotus axillaris			x		x	x		x			x		x		x	x			x					x
Ptilotus calostachyus	x				x					x	x							x						
Ptilotus clementii	x		x			x				x	x		x											
Ptilotus exaltatus	x		x		x	x	x				x	x	x		x	x	x	x	x	x				
Ptilotus fusiformis	x		x		x			x		x	x		x		x			x	x					
Ptilotus gomphrenoides										x					x					x	x			
Ptilotus helipteroides	x																			x				
Ptilotus incanus																								
Ptilotus obovatus var. obovatus			x								x				x		x			x	x	x		
Ptilotus polystachyus					x																x			x
Ptilotus sp.	x					x						x	x							x				
Ptilotus xerophilus			x								x									x				
Ptilotus appendiculatus																								
Quoya loxocarpa																								
Quoya paniculata																								
Rhagodia eremaea	x				x		x								x	x	x					x		x
Rhodanthe humboldtiana																								
Rhodanthe margarethae																								

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Rhodanthe psammophila																								
Rhynchosia minima	x		x		x	x	x				x		x				x	x		x	x	x		
Rostellularia adscendens var. clementii																								
Salsola australis	x				x												x			x				
Santalum lanceolatum				x																				
Scaevola sericophylla																			x					
Scaevola spinescens				x		x	x		x		x													
Sclerolaena densiflora					x								x		x									
Sclerolaena diacantha						x																		
Sclerolaena eriacantha						x																		
Sclerolaena recurvicuspis																								
Sclerolaena sp.	x												x											
Scleromitrion galioides																								
Senna artemisioides subsp. helmsii						x	x				x													
Senna artemisioides subsp. helmsii x oligophylla					x	x																		
Senna artemisioides subsp. oligophylla			x			x	x	x			x		x			x	x	x		x	x	x	x	
Senna glutinosa subsp. glutinosa	x					x							x		x		x	x						
Senna glutinosa subsp. glutinosa x stricta	x					x									x	x								
Senna glutinosa subsp. pruinosa			x			x					x				x									
Senna notabilis	x		x		x	x	x	x		x	x	x	x	x	x	x		x	x	x	x		x	x
Senna sericea										x														
Senna venusta																								
Senna glutinosa subsp. ×luerssenii	x		x		x	x					x		x		x			x						
Seringia exastia																								
Seringia nephrosperma			x															x	x					
Sesbania cannabina																					x			
Setaria dielsii																				x	x			
Sida ?cardiophylla							x																	
Sida ?spinosa													x											
Sida aff. fibulifera																								
Sida arenicola					x						x													
Sida arsiniata			x		x	x	x	x			x		x		x									
Sida echinocarpa	x		x							x	x				x			x						
Sida fibulifera			x		x					x	x		x				x			x			x	x
Sida platycalyx								x																
Sida rohlenae subsp. rohlenae											x							x						
Sida sp.						x					x		x			x		x		x				
Sida sp. L (A.M. Ashby 4202)											x										x			
Sida sp. Pilbara (A.A. Mitchell PRP 1543)			x							x									x					
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)					x						x													
Sida spinosa			x		x						x			x										
Solanum ?horridum													x											

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Solanum cleistogamum			x		x	x	x				x		x						x	x	x		x	
Solanum diversiflorum	x		x		x	x		x			x	x	x		x			x		x	x		x	
Solanum horridum					x						x									x				
Solanum lasiophyllum		x			x		x																x	
Solanum phlomoides			x																x					
Solanum sp.												x								x				
Sporobolus ?virginicus																								
Sporobolus australasicus	x		x		x	x	x	x		x	x	x	x	x	x	x	x		x	x	x	x	x	x
Sporobolus mitchellii																								
Stackhousia ?muricata subsp. annual (W. R. Barker 2172)															x									
Stemodia grossa																			x					
Stemodia sp. Onslow (A.A. Mitchell 76/148)																								
Streptoglossa ?bubakii			x																					
Streptoglossa ?decurrens			x									x			x									
Streptoglossa bubakii																					x			
Streptoglossa decurrens			x		x	x		x					x	x	x					x	x	x		
Streptoglossa liatroides			x		x			x															x	
Streptoglossa sp.	x		x		x	x				x	x		x		x	x	x		x	x			x	
Striga squamigera			x																	x	x	x		
Stylobasium spathulatum								x			x		x											
Swainsona complanata							x																	
Swainsona kingii																								
Swainsona maccullochiana						x							x		x									
Swainsona pterostylis																								
Swainsona sp.						x	x																	
Synaptantha tillaeacea var. tillaeacea													x	x										x
Tecticornia auriculata																								
Tecticornia halocnemoides subsp. tenuis																								
Tecticornia indica subsp. bidens																								
Tecticornia indica subsp. leiostachya																								
Tecticornia sp. Sterile 1																								
Tecticornia sp. Sterile 2																								
Tephrosia aff. remotiflora																				x				
Tephrosia aff. supina																				x				
Tephrosia clementii						x									x									
Tephrosia rosea var. clementii																								
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186)																								
Tephrosia sp.											x													
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																								
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)																								
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)													x											
Tephrosia supina																			x		x			

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Tephrosia uniovulata		x																						
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)																								
Themeda triandra											x													
Tinospora smilacina																								
Trachymene ?pilbarensis																								
Trachymene oleracea subsp. oleracea						x					x													
Trachymene pilbarensis																								
Trachymene sp.					x						x													
Trianthema pilosum											x		x					x						
Trianthema triquetrum	x	x			x	x	x				x		x		x	x	x		x				x	
Trianthema turgidifolium									x															
Tribulus astrocarpus	x		x		x	x		x			x		x			x			x					
Tribulus hirsutus	x					x					x		x		x			x						
Tribulus macrocarpus			x		x	x					x		x		x			x	x	x				x
Tribulus occidentalis																								
Tribulus platypterus																								
Tribulus sp.			x			x									x									
Tribulus suberosus																								
Trichodesma sp.						x																		
Trichodesma zeylanicum var. grandiflorum																								
Trichodesma zeylanicum var. zeylanicum					x	x	x			x	x	x			x			x						
Trigastrotheca molluginea	x	x			x					x	x		x		x			x	x					
Triodia avenoides																								
Triodia epactia	x		x		x	x			x	x	x	x	x	x	x	x		x	x	x	x	x	x	x
Triodia glabra		x	x	x	x			x								x			x				x	x
Triodia longiceps	x					x	x					x			x									
Triodia wiseana	x				x	x	x			x			x		x									
Triraphis mollis																								
Triumfetta ?chaetocarpa			x																					
Triumfetta appendiculata											x													
Triumfetta chaetocarpa			x																					
Triumfetta clementii			x		x	x	x			x	x		x		x									
Triumfetta johnstonii																								
Triumfetta maconochieana																								
Triumfetta sp.			x		x						x		x					x						
Urochloa holosericea subsp. velutina																								
Urochloa occidentalis var. occidentalis																				x	x			
Urochloa piligera																								
Vigna lanceolata var. lanceolata																								
Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)																								
Vincetoxicum lineare			x																					
Waltheria indica											x													

Taxon	PL01	PL02	PL03	PL04	PL05	PL06	PL07	PL08	PL09	PL10	PL11	PL12	PL13	PL14	PL15	PL16	PL17	PL18	PL19	PL20	PL21	PL22	PL23	PL24
Yakirra australiensis var. australiensis	x	x	x		x			x			x		x					x	x				x	x

Appendix F
Threatened and Priority Flora Report Forms

Department of Biodiversity, Conservation and Attractions
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at http://dpaw.wa.gov.au under *Standard Report Forms*

TAXON: Abutilon sp. Onslow (F. Smith s.n. 10/9/61) **TPFL Pop. No:**
OBSERVATION DATE: 3/5/2021 **CONSERVATION STATUS:** P1 New population: ☒
OBSERVER/S Ben Eckermann **PHONE:**
ROLE: Senior Botanist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7590991
Long / Easting: 311134
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:
LAND TENURE:
Nature reserve, Timber reserve, Private property, Rail reserve, Shire road reserve
National park, State forest, Pastoral lease, MRWA road reserve, Other Crown reserve
Conservation park, Water reserve, UCL, SLK/Pole to, Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				12
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit ☒ Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	Current impact (N-E)	Potential impact (L-E)	Potential Threat Onset (S-L)
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au
RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:__________ **Sheet No.:**________ **Record Entered in Database** ☐

Department of Biodiversity, Conservation and Attractions
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand ☒	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other: Orange	
Drainage line					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)		Sand dune		
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Grevillea eriostachya tall sparse shrubland
2. Scaevola sericophylla and Crotalaria cunninghamii low sparse shrubland
3. Triodia low open hummock grassland (T. avenoides, T. epactia)
4. Yakirra australiensis var. australiensis and Bulbostylis barbata low sparse herbland

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good ☒ Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000262 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Abutilon sp. Onslow (F. Smith s.n. 10/9/61) **TPFL Pop. No:**

OBSERVATION DATE: 10/4/2021 **CONSERVATION STATUS:** P1 New population: ☒

OBSERVER/S Simon Colwill **PHONE:**

ROLE: Senior Botanist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7589897

Long / Easting: 313308

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve / National park / Conservation park / Timber reserve / State forest / Water reserve / Private property / Pastoral lease / UCL / Rail reserve / MRWA road reserve / SLK/Pole to / Shire road reserve / Other Crown reserve / Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				20
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT:

	No.	Size	Data attached	Total area of quadrats (m^2):
Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒ Immature fruit Fruit ☒ Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

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HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand ☒	Red	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay ☒	Grey	
Flat ☒	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line				Orange	
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Acacia stellaticeps low open shrubland
2. Triodia low hummock grassland (T. glabra, T. epactia)
3. Tecticornia low open samphire shrubland (T. auriculata, T. halocnemoides)
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good ☒ Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium ☒ Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Abutilon sp. Onslow (F. Smith s.n. 10/9/61) **TPFL Pop. No:**
OBSERVATION DATE: 16/5/2021 **CONSERVATION STATUS:** P1 New population: ☒
OBSERVER/S Simon Colwill, Bridget Duncan, Grant Buller, Scott Walker **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist, Graduate Ecologist, Principal Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7590084.5639669029
Long / Easting: 334649.91747134889
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve, Timber reserve, Private property, Rail reserve, Shire road reserve
National park, State forest, Pastoral lease, MRWA road reserve, Other Crown reserve
Conservation park, Water reserve, UCL, SLK/Pole to, Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				9060
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒ Immature fruit Fruit ☒ Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M

Please return completed form to **Species And Communities Branch** DBCA,
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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand ☒	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay ☒	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line ☒					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)				
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Eucalyptus victrix, E. camaldulensis, Corymbia hamersleyana low open woodland
2. Acacia mid sparse shrubland (A. synchronicia, A. xiphophylla, A. tetragonophylla, A. bivenosa, A. ancistrocarpa)
3. Triodia low open hummock grassland (T. glabra, T. epactia)
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good ☒ Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium ☒ Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000272, FB62000321, FB62000149 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
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TAXON: Eleocharis papillosa **TPFL Pop. No:**

OBSERVATION DATE: 4/5/2021 **CONSERVATION STATUS:** P3 New population: ☒

OBSERVER/S Ben Eckermann, Simon Colwill, Bridget Duncan, Grant Buller **PHONE:**

ROLE: Senior Botanist, Senior Botanist, Graduate Ecologist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7587420.6448924476

Long / Easting: 304462.87960401666

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve Timber reserve Private property Rail reserve Shire road reserve

National park State forest Pastoral lease MRWA road reserve Other Crown reserve

Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				270
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative ☒ Flowerbud Flower

Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M

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GOVERNMENT OF WESTERN AUSTRALIA

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Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated ☒
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam ☒	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line ☒					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist ☒ Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Acacia synchronicia mid sparse shrubland
2. Tecticornia auriculata samphire shrubland
3.
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

Salsola australis, Scaevola spinescens, *Cenchrus ciliaris

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good ☒ Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: ____ Year: ____ **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd: ____

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd: ____

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000262, FB62000037, FB62000272, FB62000321 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ____ WA Herb. ☒ Regional Herb. District Herb. Other: ____

ATTACHED: Map Mudmap Photo GIS data Field notes Other: ____

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
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TAXON: Euphorbia inappendiculata var. inappendiculata **TPFL Pop. No:**

OBSERVATION DATE: 13/4/2021 **CONSERVATION STATUS:** P2 New population: ☒

OBSERVER/S Bridget Duncan, Scott Walker **PHONE:**

ROLE: Graduate Ecologist, Principal Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7583040

Long / Easting: 354387

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve | Timber reserve | Private property | Rail reserve | Shire road reserve

National park | State forest | Pastoral lease | MRWA road reserve | Other Crown reserve

Conservation park | Water reserve | UCL | SLK/Pole to | Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				1
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower Immature fruit Fruit ☒ Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:________ **Sheet No.:**______ **Record Entered in Database** ☐

Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained ☒
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz ☒	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other: Clay, Loam, Sand	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element		Crabhole Clay Plain		
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry ☒ Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Acacia tall to mid open shrubland (A. ancistrocarpa, A. ligulata)
2. Triodia epactia low sparse hummock grassland
3. *Cenchrus ciliaris low sparse tussock grassland
4.

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded ☒ Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000272, FB62000149 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

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Threatened and Priority Flora Report Form

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TAXON: Euphorbia inappendiculata var. inappendiculata **TPFL Pop. No:**
OBSERVATION DATE: 23/5/2021 **CONSERVATION STATUS:** P2 New population: ☒
OBSERVER/S Ben Eckermann, Bridget Duncan **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: **COORDINATES:** (If UTM coords provided, **Zone** is also required) **METHOD USED:**
GDA94 / MGA94 ☒ DecDegrees DegMinSec UTMs ☒ GPS ☒ Differential GPS Map
AGD84 / AMG84 **Lat / Northing:** 7581045.5637786295 No. satellites: Map used:
WGS84 **Long / Easting:** 354922.66209301341 Boundary polygon captured Map Scale:
Unknown **ZONE:** 50K
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				1
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive
REPRODUCTIVE STATE: Clonal Vegetative ☒ Flowerbud Flower
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained ☒
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam ☒	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element		Creek		
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry ☒ Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Eucalyptus victrix low woodland
2. *Prosopis pallida tall sparse shrubland
3. Acacia synchrinicia mid sparse shrubland
4. Triodia epactia low sparse hummock grassland

ASSOCIATED SPECIES:
Other (non-dominant) spp

Cynodon convergens, *Cenchrus ciliaris, Sporobolus australasicus, Ipomoea muelleri, Sida fibulifera

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded ☒ Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000262, FB62000272 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

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Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Triodia pisoliticola
TPFL Pop. No:
OBSERVATION DATE: 21/5/2021 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Ben Eckermann, Bridget Duncan **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: **COORDINATES:** (If UTM coords provided, **Zone** is also required) **METHOD USED:**
GDA94 / MGA94 ☒ DecDegrees DegMinSec UTMs ☒ GPS ☒ Differential GPS Map
AGD84 / AMG84 **Lat / Northing:** 7564527.5350030717 No. satellites: Map used:
WGS84 **Long / Easting:** 416596.73135716992 Boundary polygon captured Map Scale:
Unknown **ZONE:** 50K
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				118
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained ☒
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element		Mesa		
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry ☒ Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.
2.
3.
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000262, FB62000272 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

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Version 1.3 August 2017

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TAXON: Indigofera sp. Bungaroo Creek (S. van Leeuwen 4301) **TPFL Pop. No:**
OBSERVATION DATE: 23/3/2021 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Bridget Duncan **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7561461
Long / Easting: 409049
ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve | Timber reserve | Private property | Rail reserve | Shire road reserve
National park | State forest | Pastoral lease | MRWA road reserve | Other Crown reserve
Conservation park | Water reserve | UCL | SLK/Pole to | Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				12
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
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RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
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HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other: Clay, Loam, Sand	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)		Flood plain		
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Eucalyptus mid woodland (E. camaldulensis, E. victrix)
2. Acacia tumida var. pilbarensis mid shrubland
3. Triodia epactia low open hummock grassland
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good ☒ Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium ☒ Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000037, FB62000272 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:____ **Sheet No.:**____ **Record Entered in Database** ☐

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Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Goodenia nuda **TPFL Pop. No:**
OBSERVATION DATE: 4/5/2021 **CONSERVATION STATUS:** P4 New population: ☒
OBSERVER/S Simon Colwill **PHONE:**
ROLE: Senior Botanist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7589648.7806068705
Long / Easting: 334150.96584779117
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:
LAND TENURE:
Nature reserve, Timber reserve, Private property, Rail reserve, Shire road reserve
National park, State forest, Pastoral lease, MRWA road reserve, Other Crown reserve
Conservation park, Water reserve, UCL, SLK/Pole to, Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				54
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

	No.	Size	Data attached	Total area of quadrats
Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au
RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

Department of Biodiversity, Conservation and Attractions

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay ☒	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other: Orange	
Drainage line ☒					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)				
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Acacia ancistrocarpa tall open shrubland
2. Triodia epactia low open hummock grassland
3.
4.

ASSOCIATED SPECIES: Other (non-dominant) spp

Corymbia hamersleyana, Hakea lorea subsp. lorea, Acacia tetragonophylla, Acacia sclerosperma subsp. sclerosperma, Triodia glabra

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good ☒ Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Goodenia nuda **TPFL Pop. No:**

OBSERVATION DATE: 12/4/2021 **CONSERVATION STATUS:** P4 New population: ☒

OBSERVER/S Simon Colwill, Grant Buller **PHONE:**

ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7584851

Long / Easting: 350862

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve Timber reserve Private property Rail reserve Shire road reserve

National park State forest Pastoral lease MRWA road reserve Other Crown reserve

Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				1
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒

Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:________ **Sheet No.:**______ **Record Entered in Database** ☐

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other: Clay sand	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)		<u>Sandy Plain</u>		
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Corymbia candida subsp. candida low isolated trees
2. Acacia tall to mid sparse shrubland (A. ancistrocarpa, A. bivenosa, A. inaequilatera, A. atkinsiana)
3. Triodia glabra low sparse hummock grassland
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good ☒ Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium ☒ Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000037, FB62000321 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Goodenia nuda **TPFL Pop. No:**
OBSERVATION DATE: 12/4/2021 **CONSERVATION STATUS:** P4 New population: ☒
OBSERVER/S Simon Colwill, Grant Buller **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7585044
Long / Easting: 352400
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				4
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au
RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:____________ **Sheet No.:**________ **Record Entered in Database** ☐

Department of Biodiversity, Conservation and Attractions
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone ☒	10-30%	Clay loam ☒	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)		Semi Drainage Plain		
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Corymbia candida subsp. candida low open woodland
2. Acacia tall open shrubland (A. ancistrocarpa, A. bivenosa)
3. Triodia low hummock grassland (T. glabra, T. epactia)
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good ☒ Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000321 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

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GOVERNMENT OF WESTERN AUSTRALIA

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TAXON: Goodenia nuda **TPFL Pop. No:**
OBSERVATION DATE: 29/4/2021 **CONSERVATION STATUS:** P4 New population: ☒
OBSERVER/S Ben Eckermann, Bridget Duncan **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: **COORDINATES:** (If UTM coords provided, **Zone** is also required) **METHOD USED:**
GDA94 / MGA94 ☒ DecDegrees DegMinSec UTMs ☒ GPS ☒ Differential GPS Map
AGD84 / AMG84 **Lat / Northing:** 7573644 No. satellites: Map used:
WGS84 **Long / Easting:** 371764 Boundary polygon captured Map Scale:
Unknown **ZONE:** 50K
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				1
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
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RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

Department of Biodiversity, Conservation and Attractions

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown ☒	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	Permanently inundated
Outcrop	Ironstone	10-30%	Clay loam	White	Tidal
Slope	Limestone	30-50%	Light clay	Grey	
Flat ☒	Quartz	50-100%	Peat	Black	
Open depression	Specify other:		Specify other: Clay sand	Specify other:	
Drainage line					
Closed depression					
Wetland					

Specific **Landform** Element

(Refer to field manual for additional values)

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Corymbia low woodland (C. candida subsp. candida, C. hamersleyana)
2. Acacia tall to mid open shrubland (A. colei var. colei, A. ancistrocarpa, A. bivenosa)
3. Triodia low open hummock grassland (T. longiceps, T. epactia)
4. Chrysopogon fallax tall sparse tussock grassland

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good ☒ Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000262, FB62000272 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

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Threatened and Priority Flora Report Form

Version 1.3 August 2017

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TAXON: Goodenia nuda
TPFL Pop. No:
OBSERVATION DATE: 1/10/2020
CONSERVATION STATUS: P4
New population: ☒
OBSERVER/S Megan Stone, Colleen McDonald
PHONE:
ROLE: Principal Botanist, Ecologist
ORGANISATION: 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region
LGA: Shire of Ashburton
Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7572678
Long / Easting: 376022
ZONE: 50K

METHOD USED:
GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				30
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au
RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:__________ **Sheet No.:**______ **Record Entered in Database** ☐

Department of **Biodiversity, Conservation and Attractions**

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	Permanently inundated
Outcrop	Ironstone	10-30%	Clay loam	White	Tidal
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000253, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Goodenia nuda **TPFL Pop. No:**
OBSERVATION DATE: 1/10/2020 **CONSERVATION STATUS:** P4 New population: ☒
OBSERVER/S Megan Stone, Colleen McDonald **PHONE:**
ROLE: Principal Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7575297
Long / Easting: 362521
ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				45
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	Permanently inundated
Outcrop	Ironstone	10-30%	Clay loam	White	
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.
2.
3.
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000253, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**
OBSERVATION DATE: 26/9/2020 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**
ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7590675
Long / Easting: 302566
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve, Timber reserve, Private property, Rail reserve, Shire road reserve
National park, State forest, Pastoral lease, MRWA road reserve, Other Crown reserve
Conservation park, Water reserve, UCL, SLK/Pole to, Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				29
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	Permanently inundated
Outcrop	Ironstone	10-30%	Clay loam	White	Tidal
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element (Refer to field manual for additional values)				
Wetland					

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**

OBSERVATION DATE: 26/9/2020 **CONSERVATION STATUS:** P3 New population: ☒

OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**

ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7589351

Long / Easting: 303742

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve | Timber reserve | Private property | Rail reserve | Shire road reserve

National park | State forest | Pastoral lease | MRWA road reserve | Other Crown reserve

Conservation park | Water reserve | UCL | SLK/Pole to | Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				6
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒ Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**
OBSERVATION DATE: 12/4/2021 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Grant Buller **PHONE:**
ROLE: Senior Botanist, Graduate Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown
COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7589857
Long / Easting: 306285
ZONE: 50K
METHOD USED: GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				222
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
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Threatened and Priority Flora Report Form

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HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand ☒	Red ☒	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression					
Wetland					

Specific **Landform** Element Dune Swale
(Refer to field manual for additional values)

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1. Grevillea stenobotrya, Acacia sclerosperma subsp. sclerosperma, Hakea stenophylla subsp. stenophylla mid open shrubland
2. Triodia epactia low hummock grassland
3.
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good ☒ Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low ☒ No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000321 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au
RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.
Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

Department of Biodiversity, Conservation and Attractions

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at http://dpaw.wa.gov.au under *Standard Report Forms*

TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**

OBSERVATION DATE: 25/9/2020 **CONSERVATION STATUS:** P3 New population: ☒

OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**

ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):

120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM: GDA94 / MGA94 ☒ AGD84 / AMG84 WGS84 Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required) DecDegrees DegMinSec UTMs ☒

Lat / Northing: 7590243

Long / Easting: 335861

ZONE: 50K

METHOD USED: GPS ☒ Differential GPS Map

No. satellites: Map used:

Boundary polygon captured Map Scale:

LAND TENURE:

Nature reserve, National park, Conservation park, Timber reserve, State forest, Water reserve, Private property, Pastoral lease, UCL, Rail reserve, MRWA road reserve, SLK/Pole to, Shire road reserve, Other Crown reserve, Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):

EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:

POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals

(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps Clonal stems

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				167
Dead				

Area of pop (m^2):

Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):

Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒ Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent

COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

Please return completed form to **Species And Communities Branch** DBCA, Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.
2.
3.
4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**
OBSERVATION DATE: 25/9/2020 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**
ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:

DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84
WGS84
Unknown

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees DegMinSec UTMs ☒
Lat / Northing: 7586048
Long / Easting: 337481
ZONE: 50K

METHOD USED:
GPS ☒ Differential GPS Map
No. satellites: Map used:
Boundary polygon captured Map Scale:

LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				196
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:

Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:

Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**
OBSERVATION DATE: 25/9/2020 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**
ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: **COORDINATES:** (If UTM coords provided, **Zone** is also required) **METHOD USED:**
GDA94 / MGA94 ☒ DecDegrees DegMinSec UTMs ☒ GPS ☒ Differential GPS Map
AGD84 / AMG84 **Lat / Northing:** 7586036 No. satellites: Map used:
WGS84 **Long / Easting:** 344332 Boundary polygon captured Map Scale:
Unknown **ZONE:** 50K
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive				564
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme. Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
•			

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Version 1.3 August 2017

HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
Crest	Granite	(on soil surface; eg gravel, quartz fields)	Sand	Red	Well drained
Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
Ridge	Laterite	0-10%	Loam	Yellow	
Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)
Additional records for this population are attached.

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

Submitter of Record: Bridget Duncan Role: Graduate Ecologist Signed: Date: 2 / 7 / 21

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TAXON: Eremophila forrestii subsp. viridis **TPFL Pop. No:**
OBSERVATION DATE: 25/9/2020 **CONSERVATION STATUS:** P3 New population: ☒
OBSERVER/S Simon Colwill, Colleen McDonald **PHONE:**
ROLE: Senior Botanist, Ecologist **ORGANISATION:** 360 Environmental

DESCRIPTION OF LOCATION (Provide at least nearest town/names locality, and the distance and direction to that place):
120km N of Newman, 172km E of Tom Price, 317km SE of Karratha

Reserve no:
DBCA DISTRICT: Pilbara region **LGA:** Shire of Ashburton Land manager present:
DATUM: **COORDINATES:** (If UTM coords provided, **Zone** is also required) **METHOD USED:**
GDA94 / MGA94 ☒ DecDegrees DegMinSec UTMs ☒ GPS ☒ Differential GPS Map
AGD84 / AMG84 **Lat / Northing:** 7571767.2714992976 No. satellites: Map used:
WGS84 **Long / Easting:** 381870.18741330021 Boundary polygon captured Map Scale:
Unknown **ZONE:** 50K
LAND TENURE:
Nature reserve Timber reserve Private property Rail reserve Shire road reserve
National park State forest Pastoral lease MRWA road reserve Other Crown reserve
Conservation park Water reserve UCL SLK/Pole to Specify other: Mining Lease

AREA ASSESSMENT: Edge survey Partial survey ☒ Full survey Area observed (m^2):
EFFORT: Time spent surveying (minutes): No. of minutes spent / 100 m^2:
POP'N COUNT ACCURACY: Actual ☒ Extrapolation Estimate Count Method: Actual count - individuals
(Refer to field manual for list)
WHAT COUNTED: Plants ☒ Clumps Clonal stems
TOTAL POP'N STRUCTURE:

	Mature:	**Juveniles:**	**Seedlings:**	**Totals:**
Alive				2
Dead				

Area of pop (m^2):
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. Size Data attached Total area of quadrats (m^2):
Summary Quad. Totals: Alive

REPRODUCTIVE STATE: Clonal Vegetative Flowerbud Flower ☒
Immature fruit Fruit Dehisced fruit Percentage in flower: %

CONDITION OF PLANTS: Healthy ☒ Moderate Poor Senescent
COMMENT:

THREATS – type, agent and supporting information: Eg clearing, too frequent fire, weed, disease. Refer to field manual for list of threats & agents. **Specify agent** where relevant. Rate current and potential threat impact: N=Nil, L=Low, M=Medium, H=High, E=Extreme Estimate time to potential impact: S=Short (<12mths), M=Medium (<5yrs), L=Long (5yrs+)	**Current impact (N-E)**	**Potential impact (L-E)**	**Potential Threat Onset (S-L)**
• Complete vegetation clearing - Mining enterprise	N	H	M
• Weed invasion - General	L	M	M
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HABITAT INFORMATION:

LANDFORM:	**ROCK TYPE:**	**LOOSE ROCK:**	**SOIL TYPE:**	**SOIL COLOUR:**	**DRAINAGE:**
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Hill	Dolerite		Sandy loam	Brown	Seasonally inundated
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Outcrop	Ironstone	10-30%	Clay loam	White	Permanently inundated
Slope	Limestone	30-50%	Light clay	Grey	
Flat	Quartz	50-100%	Peat	Black	Tidal
Open depression	Specify other:		Specify other:	Specify other:	
Drainage line					
Closed depression	Specific **Landform** Element				
Wetland	(Refer to field manual for additional values)				

CONDITION OF SOIL: Dry Moist Waterlogged Inundated

VEGETATION CLASSIFICATION*:
Eg: **1.** Banksia woodland (B. attenuata, B. illicifolia); **2.** Open shrubland (Hibbertia sp., Acacia spp.); **3.** Isolated clumps of sedges (Mesomelaena tetragona)

1.

2.

3.

4.

ASSOCIATED SPECIES:
Other (non-dominant) spp

* Please record up to four of the most representative vegetation layers (with up to three dominant species in each layer). Structural Formation should follow 2009 *Australian Soil and Land Survey Field Handbook* guidelines – refer to field manual for further information and structural formation table.

CONDITION OF HABITAT: Pristine Excellent Very good Good Degraded Completely degraded

COMMENT:

FIRE HISTORY: **Last Fire:** Season/Month: Year: **Fire Intensity:** High Medium Low No signs of fire

FENCING: Not required ☒ Present Replace / repair Required Length req'd:

ROADSIDE MARKERS: Not required ☒ Present Replace / reposition Required Quantity req'd:

OTHER COMMENTS: (Please include recommended management actions and/or implemented actions – include date. Also include details of additional data available, and how to locate it.)

DRF PERMIT/ LICENCE No: FB62000037, FB62000148 Note if only observing plants (i.e. no specimens or plant material is taken) then no permit/licence is required. For further information on permit and licencing requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website/ Any actions carried out under the licence/permit should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: WA Herb. ☒ Regional Herb. District Herb. Other:

ATTACHED: Map Mudmap Photo GIS data Field notes Other:

COPY SENT TO: Regional Office District Office Other:

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Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

Record entered by:______ **Sheet No.:**______ **Record Entered in Database** ☐

Department of **Biodiversity, Conservation and Attractions**
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please return completed form to **Species And Communities Branch** DBCA,
Locked Bag 104, BENTLY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer**, Species and Communities Branch.

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Appendix G
Site Sheets

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ003
Location MGA 50 382338 **mE** 7572162 **mN**

2020
Described by: MS, CM
Date: 07/06/2020
2021
Described by: BE, BD
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Gentle
Rock Type: Quartz
Soil Type: Sandy Loam
Soil Colour: Brown

Vegetation: *Acacia bivenosa and Acacia wanyu tall to mid sparse shrubland over Triodia longiceps and Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats, Vehicle tracks
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia wanyu	2.5	1	x	x	
Acacia cuthbertsonii subsp. cuthbertsonii	2.5	0.5	x	x	
Acacia synchronicia	2	0.5	x	x	
Acacia bivenosa	1.5	1	x	x	
Eremophila sp.	1.5	0.1	x	x	
Rhagodia eremaea	1.5	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.2	0.1	x	x	
Scaevola spinescens	1	1	x	x	
Senna artemisioides subsp. helmsii	1	0.1	x	x	
Swainsona complanata	1	0.1	x		
Trichodesma zeylanicum var. zeylanicum	0.6	0.1	x	x	
Triodia longiceps	0.5	12	x	x	
Triodia wiseana	0.5	8	x	x	
Abutilon lepidum	0.5	0.1		x	
Chrysopogon fallax	0.5	0.1	x	x	
Panicum decompositum	0.5	0.1		x	
Sida arsiniata	0.4	0.1		x	
Triumfetta clementii	0.4	0.1	x	x	
Dichanthium sericeum subsp. humilius	0.3	0.1	x	x	
Euphorbia boophthona	0.3	0.1	x	x	
Hibiscus sturtii var. grandiflorus	0.3	0.1		x	
Paspalidium clementii	0.3	0.1	x	x	
Pterocaulon sphacelatum	0.3	0.1		x	
Solanum cleistogamum	0.3	0.1		x	
**Portulaca pilosa*	0.2	0.1		x	
Abutilon sp.	0.2	0.1	x		
Cullen lachnostachys	0.2	0.1	x		
Euphorbia biconvexa	0.2	0.1	x	x	
Iseilema eremaeum	0.2	0.1		x	
Maireana georgei	0.2	0.1	x	x	
Malvaceae sp.	0.2	0.1		x	
Sida ?cardiophylla	0.2	0.1	x		
Cucumis variabilis	0.1	0.5	x	x	
Rhynchosia minima	0.1	0.5	x	x	
Bonamia pilbarensis	0.1	0.1	x		
Cassytha capillaris	0.1	0.1	x	x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1	x	x	
Cynodon prostratus	0.1	0.1	x	x	
Enchylaena tomentosa var. tomentosa	0.1	0.1	x	x	
Enneapogon caerulescens	0.1	0.1	x	x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia forrestii	0.1	0.1	x	x	
Phyllanthus erwinii	0.1	0.1	x	x	
Senna notabilis	0.1	0.1		x	
Solanum lasiophyllum	0.1	0.1	x		
Sporobolus australasicus	0.1	0.1	x	x	
Swainsona sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Dactyloctenium radulans	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ005
Location MGA 50 380716 **mE** 7571867 **mN**

2020
Described by: MS, CM
Date: 07/06/2020
2021
Described by: SC, BD
Date: 3/05/2021

Type: Quadrat 50 x 50 m
Landform: Drainage Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay Loam
Soil Colour: Brown, Orange

Vegetation: *Acacia bivenosa tall to mid open shrubland over Triodia epactia low hummock grassland with Chrysopogon fallax tall sparse tussock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: >10 years

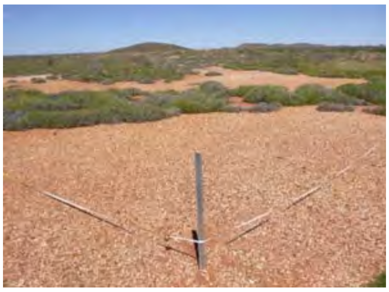
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded		Notes
			2020	2021	
Acacia ancistrocarpa	3	0.1	x	x	
Acacia bivenosa	2.5	8	x	x	
Acacia elachantha	2.5	0.1	x		
Acacia synchronicia	2.2	0.1	x	x	
Eremophila longifolia	2	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.3	0.1	x	x	
Chrysopogon fallax	0.6	5	x	x	
Gossypium australe	0.6	0.1	x	x	
Bonamia erecta	0.5	0.1		x	
Corymbia hamersleyana	0.5	0.1	x	x	
Triodia longiceps	0.5	0.1	x	x	
Triodia epactia	0.4	35	x	x	
Abutilon lepidum	0.4	0.1		x	
Indigofera monophylla	0.4	0.1	x	x	
Ptilotus exaltatus	0.4	0.1		x	
Corchorus lasiocarpus subsp. parvus	0.3	0.1	x	x	
Enchylaena tomentosa var. tomentosa	0.3	0.1	x	x	
Sida arsiniata	0.3	0.1	x	x	
Solanum cleistogamum	0.3	0.1	x	x	
**Setaria verticillata*	0.2	0.1		x	
Corchorus sidoides subsp. vermicularis	0.2	0.1	x		
Cucumis variabilis	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Enneapogon polyphyllus	0.2	0.1		x	
Euphorbia biconvexa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Goodenia microptera	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1	x	x	
Sporobolus australasicus	0.2	0.1		x	
Stemodia grossa	0.2	0.1	x		Outside quadrat
Streptoglossa sp.	0.2	0.1		x	
Abutilon otocarpum	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus ?sidoides subsp. vermicularis	0.1	0.1		x	
Cullen martinii	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Fimbristylis dichotoma	0.1	0.1		x	
Goodenia forrestii	0.1	0.1	x	x	
Hibiscus sturtii var. grandiflorus	0.1	0.1	x	x	
Indigofera colutea	0.1	0.1		x	
Iseilema membranaceum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1	x	x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1	x	x	
Poaceae sp.	0.1	0.1	x		
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1	x	x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1	x		
Solanum diversiflorum	0.1	0.1	x	x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Calandrinia sp.	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Yakirra australiensis var. australiensis	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ007
Location MGA 50 379271 **mE** 7572366 **mN**

2020
Described by: MS, CM
Date: 07/06/2020
2021
Described by: BE, BD
Date: 19/03/2021



Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Gentle
Rock Type: Ironstone, Quartz
Soil Type: Sandy Loam
Soil Colour: Brown, Orange

Vegetation: *Acacia bivenosa mid sparse shrubland over Senna artemisioides subsp. oligophylla low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Weeds
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Codonocarpus cotinifolius	4	0.1	x		Outside quadrat
Hakea lorea subsp. lorea	2	0.1	x		Outside quadrat
Senna glutinosa subsp. ×luerssenii	2	0.1	x	x	
Senna glutinosa subsp. pruinosa	1.8	0.1		x	
Acacia bivenosa	1.6	3	x	x	
Triodia wiseana	0.6	20	x	x	
Scaevola spinescens	0.5	0.1	x		Outside quadrat
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Indigofera monophylla	0.4	0.1			
Maireana georgei	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
Goodenia sp.	0.1	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Sida sp.	0.05	0.1		x	
Tribulus sp.	0.05	0.1		x	
Bonamia pilbarensis	0.02	0.1		x	
Dysphania sp.	0.02	0.1		x	
Haloragis sp.	0.02	0.1		x	
Solanum diversiflorum	0.02	0.1		x	
Streptoglossa sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ009
Location MGA 50 377499 **mE** 7572494 **mN**

2020
Described by: MS, CM
Date: 07/06/2020
2021
Described by: BE, BD
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sandy Clay Loam
Soil Colour: Brown, Orange

Vegetation: *Acacia xiphophylla tall to mid open shrubland over Triodia wiseana low open hummock grassland*

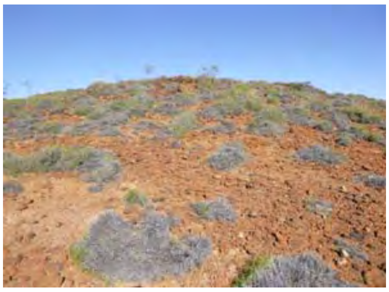
Condition: Very Good **Disturbance Type:** Grazing
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3.8	11	x	x	
Enchylaena tomentosa var. tomentosa	1.9	0.1	x	x	
Acacia bivenosa	1.3	0.1	x	x	
Senna glutinosa subsp. glutinosa	1.2	0.1		x	
Senna glutinosa subsp. ×luerssenii	1.2	0.1	x	x	
Eremophila cuneifolia	0.6	0.5	x	x	
Rhagodia eremaea	0.6	0.1	x		
Senna glutinosa subsp. glutinosa x stricta	0.6	0.1		x	
Triodia longiceps	0.6	0.1		x	
Acacia synchronicia	0.5	0.1		x	
Maireana planifolia	0.5	0.1		x	
Triodia wiseana	0.4	12		x	
Triodia epactia	0.3	0.5		x	
Aristida contorta	0.2	0.1		x	
Maireana melanocoma	0.2	0.1		x	
Maireana georgei	0.2	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Swainsona maccullochiana	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Euphorbia boophthona	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Iseilema membranaceum	0.05	0.1		x	
Paspalidium clementii	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Tribulus sp.	0.05	0.1		x	
Chenopodiaceae sp.	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	
Sporobolus australasicus	0.02	0.1		x	
Streptoglossa ?decurrens	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR011
Location MGA 50 379538 **mE** 7572093 **mN**



2020
Described by: MS, CM
Date: 07/06/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Releve 50 x 50 m
Landform: Low Hill
Slope: Steep
Rock Type: Sandstone
Soil Type: Fine Sand
Soil Colour: Light Brown

Vegetation: *Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	2	0.1	x	x	
Senna glutinosa subsp. pruinosa	1.2	0.1	x	x	
Eremophila cuneifolia	0.6	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	0.6	0.1		x	
Triodia wiseana	0.5	20	x	x	
Ptilotus auriculifolius	0.2	0.1		x	
**Bidens bipinnata*	0.1	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Goodenia muelleriana	0.1	0.1		x	
Hibiscus coatesii	0.1	0.1		x	
Iseilema sp.	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca conspicua	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sclerolaena eriacantha	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trichodesma sp.	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ012
Location MGA 50 305063 **mE** 7586714 **mN**

2020
Described by: BE, LG
Date: 07/06/2020
2021
Described by: SC, BE, BD, GB
Date: 17/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia stellaticeps mid open shrubland over Triodia epactia and Triodia avenoides low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Weeds, Litter
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Grevillea stenobotrya	2.2	0.5	x	x	
Stylobasium spathulatum	1.7	0.1	x	x	
Grevillea eriostachya	1.5	1		x	
Acacia stellaticeps	1.4	8	x	x	
Solanum lasiophyllum	1	0.1	x	x	
Scaevola spinescens	0.5	0.1	x	x	
Hibiscus sturtii var. grandiflorus	0.4	0.1		x	
Indigofera boviperda subsp. boviperda	0.4	0.1	x	x	
Triodia avenoides	0.3	10	x	x	
Bonamia erecta	0.3	0.1	x	x	
Ptilotus exaltatus	0.3	0.1		x	
Scaevola sericophylla	0.3	0.1		x	
Triodia epactia	0.2	25	x	x	
**Cenchrus ciliaris*	0.2	0.1	x	x	
Bonamia alatisemina	0.2	0.1		x	
Cassytha capillaris	0.2	0.1	x	x	
Goodenia forrestii	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ014
Location MGA 50 376126 **mE** 7572727 **mN**

2020
Described by: BE, LG
Date: 08/06/2020
2021
Described by: SC, GB
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Hill
Slope: Moderate
Rock Type: Ironstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa mid sparse shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 15 years

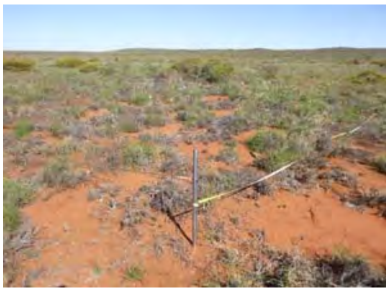
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Senna glutinosa subsp. glutinosa	1.5	0.1	x	x	
Senna glutinosa subsp. pruinosa	1.5	0.1	x	x	
Acacia ancistrocarpa	1.2	2	x	x	
Acacia bivenosa	0.8	0.1		x	
Rhagodia eremaea	0.7	0.1	x	x	
Acacia wanyu	0.6	0.1	x	x	
Acacia synchronicia	0.5	0.1	x	x	
Eremophila cuneifolia	0.5	0.1	x	x	
Senna artemisioides subsp. helmsii	0.5	0.1		x	
Triodia wiseana	0.4	25	x	x	
Corchorus laniflorus	0.4	0.1	x	x	
Duperreya commixta	0.3	0.1	x		
Eriachne mucronata	0.3	0.1	x		
Ptilotus calostachyus	0.3	0.1	x		
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1	x		
Cymbopogon ambiguus	0.2	0.1	x		
Solanum cleistogamum	0.2	0.1	x		
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	0.1	0.1	x	x	
Amaranthus cuspidifolius	0.1	0.1		x	
Amaranthus sp.	0.1	0.1		x	
Arivela viscosa	0.1	0.1	x	x	
Boerhavia coccinea	0.1	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1	x	x	
Gomphrena cunninghamii	0.1	0.1	x	x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ015
Location MGA 50 310318 **mE** 7589024 **mN**

2020
Described by: MS, CM
Date: 08/06/2020
2021
Described by: BE, BD
Date: 18/03/2021



Type: Quadrat 50 x 50 m
Landform: Dune Swale
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Red

Vegetation: *Acacia stellaticeps, Acacia sclerosperma subsp. sclerosperma, Hakea stenophylla subsp. stenophylla and Grevillea stenobotrya mid open shrubland over Triodia avenoides and Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia sclerosperma subsp. sclerosperma	2	0.1	x	x	
Acacia stellaticeps	1.5	3	x	x	
Grevillea stenobotrya	1.4	0.1	x		
Senna artemisioides subsp. oligophylla	1.3	0.1	x	x	
Hakea stenophylla subsp. stenophylla	1.2	0.1	x	x	
Alyogyne pinoniana var. pinoniana	0.8	0.1	x	x	
Grevillea eriostachya	0.6	0.1		x	
Triumfetta chaetocarpa	0.5	1	x	x	
Solanum lasiophyllum	0.5	0.1	x	x	
Triodia avenoides	0.4	25	x	x	
Diplopeltis eriocarpa	0.4	0.1	x		
Quoya paniculata	0.4	0.1	x	x	
Scaevola spinescens	0.4	0.1	x	x	
Triodia epactia	0.3	10	x	x	
Bonamia erecta	0.3	0.1	x	x	
Corchorus sidoides subsp. vermicularis	0.3	0.1	x	x	
Hibiscus brachychlaenus	0.3	0.1		x	
Bonamia alatisemina	0.2	0.1	x	x	
Cassytha capillaris	0.1	0.1	x	x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x		
Heliotropium diversifolium	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ016
Location MGA 50 376193 **mE** 7572655 **mN**

2020
Described by: BE, LG
Date: 08/06/2020
2021
Described by: SC, GB
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Mid Slope
Slope: Steep
Rock Type: Ironstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Triodia epactia low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: > 15 years

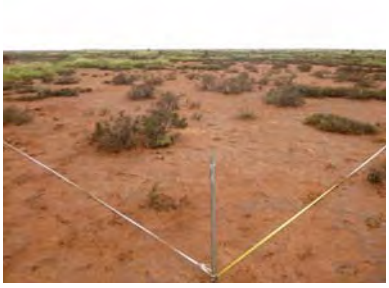
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	1	0.1	x	x	
Acacia bivenosa	0.5	0.1	x	x	
Rhagodia eremaea	0.3	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.3	0.1	x		
Triodia epactia	0.2	40	x	x	
**Cenchrus ciliaris*	0.2	0.1		x	
Triodia wiseana	0.2	0.1	x		
Paspalidium clementii	0.1	2		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ017
Location MGA 50 313310 **mE** 7589895 **mN**

2020
Described by: MS, CM
Date: 08/06/2020
2021
Described by: SC, GB
Date: 10/04/2021



Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay
Soil Colour: Brown, Orange

Vegetation: *Acacia stellaticeps low open shrubland over Triodia glabra and Triodia epactia low hummock grassland with Tecticornia auriculata and Tecticornia halocnemoides open chenopod shrubland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Triodia epactia	0.6	11	x	x	
Tecticornia halocnemoides subsp. tenuis	0.6	6	x	x	
Lawrencia viridigrisea	0.5	0.1	x		
Scaevola spinescens	0.4	0.1	x	x	
Tecticornia auriculata	0.3	5	x	x	
**Cenchrus ciliaris*	0.3	0.1	x	x	
Maireana sp.	0.3	0.1	x	x	
Ptilotus calostachyus	0.3	0.1	x		
Maireana georgei	0.2	0.1	x	x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Cyperus bulbosus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Indet herb sp.	0.1	0.1	x		
Iseilema membranaceum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Swainsona sp.	0.1	0.1		x	
Trachymene ?pilbarensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ018
Location MGA 50 373360 **mE** 7573384 **mN**

2020
Described by: BE, LG
Date: 08/06/2020
2021
Described by: SC, GB
Date: 18/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall to mid open shrubland over Triodia longiceps low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle tracks/scats
Fire Age: > 15 years

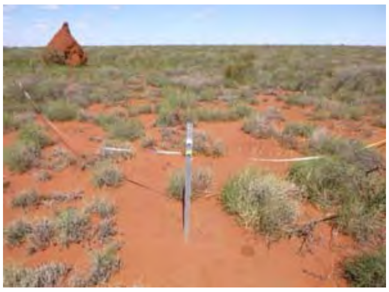
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	2	11	x	x	
Triodia longiceps	0.3	9		x	
**Portulaca pilosa*	0.2	0.1		x	
Maireana melanocoma	0.2	0.1	x	x	
Cynodon prostratus	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ019
Location MGA 50 317004 **mE** 7590552 **mN**

2020
Described by: MS, CM
Date: 08/06/2020
2021
Described by: BE, BD
Date: 20/03/2021



Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown, Red

Vegetation: *Acacia bivenosa and Grevillea eriostachya mid isolated shrubs over Acacia stellaticeps low sparse shrubland over Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia ancistrocarpa	1.6	0.1	x	x	
Acacia pachycarpa	1.6	0.1	x	x	
Acacia bivenosa	1.4	0.5	x	x	
Grevillea eriostachya	1.2	0.5	x	x	
Scaevola spinescens	1.2	0.1	x	x	
Acacia stellaticeps	0.7	5	x	x	
Triodia glabra	0.3	40	x	x	
Bonamia erecta	0.2	0.1	x	x	
Cassytha capillaris	0.1	0.1		x	
Poaceae sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ020
Location MGA 50 370571 **mE** 7574207 **mN**

2020
Described by: BE, LG
Date: 08/06/2020
2021
Described by: SC, GB
Date: 18/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Corymbia candida subsp. candida low isolated trees over Acacia bivenosa and Acacia ancistrocarpa low sparse shrubland over Triodia longiceps and Triodia epactia low open hummock grassland over Chrysopogon fallax low sparse tussock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia inaequilatera	3.5	0.1	x	x	
Corymbia candida subsp. candida	3	0.5	x	x	
Acacia ?colei var. colei	2	0.1	x	x	
Cullen leucochaites	2	0.1	x		
Acacia bivenosa	1	4	x	x	
Acacia ancistrocarpa	1	3	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Triodia longiceps	0.4	15	x	x	
Triodia epactia	0.2	10		x	
Indigofera monophylla	0.2	1		x	
Euphorbia biconvexa	0.2	0.1		x	
Chrysopogon fallax	0.1	5		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1			
Boerhavia sp.	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Fimbristylis dichotoma	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Goodenia muelleriana	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1			
Iseilema dolichotrichum	0.1	0.1			
Iseilema eremaeum	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1			
Panicum laevinode	0.1	0.1			
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Stemodia grossa	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1			
Streptoglossa liatroides	0.1	0.1			
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ021
Location MGA 50 321321 **mE** 7590106 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: BE, BD
Date: 17/03/2021

Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Red

Vegetation: *Corymbia candida subsp. candida and Corymbia hamersleyana low isolated trees over Acacia ancistrocarpa, Hakea chordophylla and Acacia pachycarpa tall to mid isolated shrubs over Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: 1-5 years

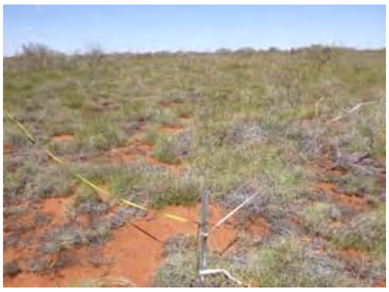
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	2.2	0.1	x	x	
Corymbia hamersleyana	2	1	x	x	
Acacia ancistrocarpa	2	0.1	x	x	
Hakea lorea subsp. lorea	2	0.1	x	x	
Acacia pachycarpa	1.8	0.1	x	x	
Acacia bivenosa	0.5	0.1	x		Outside quadrat
Acacia colei var. colei	0.5	0.1	x		Outside quadrat
Triodia glabra	0.3	40	x	x	
Acacia ?sericophylla	0.3	0.1		x	
Bonamia erecta	0.1	0.1		x	
Indet herb sp.	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ022
Location MGA 50 326121 **mE** 7590069 **mN**

2020
Described by: BE, LG
Date: 09/06/2020
2021
Described by: SC, GB
Date: 20/03/2021



Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low isolated trees over Acacia ancistrocarpa mid isolated shrubs over Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 15 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Acacia sericophylla	3	0.1	x	x	
Acacia ancistrocarpa	2.5	1.5	x	x	
Corymbia hamersleyana	2	1	x	x	
Hakea lorea subsp. lorea	1.5	0.1	x	x	
Tephrosia uniovulata	0.5	0.1	x	x	
Aristida contorta	0.4	0.1		x	
Triodia glabra	0.3	32	x	x	
**Cenchrus ciliaris*	0.2	0.1		x	
Cucumis variabilis	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Isotropis atropurpurea	0.2	0.1			
?Eriachne mucronata	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia erecta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ023
Location MGA 50 334910 **mE** 7588027 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

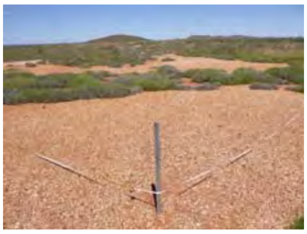
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	2.5	12	x	x	
Rhagodia eremaea	2	0.1	x	x	
Acacia synchronicia	1.6	0.1	x	x	
Triodia epactia	0.4	17	x	x	
Enchylaena tomentosa var. tomentosa	0.3	0.1	x	x	
Maireana sp.	0.3	0.1	x		
Abutilon lepidum	0.2	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Chrysopogon fallax	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Maireana planifolia	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus polystachyus	0.2	0.1		x	
Sida spinosa	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Streptoglossa decurrens	0.2	0.1		x	
?Sclerolaena costata	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia polyandra	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Sida arsiniata	0.1	0.1		x	
Senna notabilis	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ024
Location MGA 50 337240 **mE** 7587944 **mN**

2020
Described by: BE, CM
Date: 14/06/2020
2021
Described by: BE, GB
Date: 3/05/2021



Type: Quadrat 50 x 50 m
Landform: Flood out of Major Creek
Slope: N/A
Rock Type: Ironstone, Riverstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix mid woodland over Acacia trachycarpa and Melaleuca glomerata tall sparse shrubland over Triodia epactia low open hummock grassland with Enteropogon ramosus and *Cenchrus ciliaris low open tussock grassland*

Condition: Poor **Disturbance Type:** Grazing, Weeds
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	12	12	x	x	
Corymbia hamersleyana	6	0.1	x	x	
Melaleuca glomerata	3	0.5	x	x	
Acacia trachycarpa	2.5	4	x	x	
Rhynchosia minima	1.8	11	x	x	
Acacia ancistrocarpa	1.8	0.1	x	x	
**Vachellia farnesiana*	1.5	0.1	x	x	
Acacia pyrifolia var. pyrifolia	1.5	0.1	x	x	
Cyperus vaginatus	0.8	0.1		x	
Sesbania cannabina	0.8	0.1		x	
**Setaria verticillata*	0.7	0.5		x	
Triodia epactia	0.6	15		x	
**Flaveria trinervia*	0.6	0.1		x	
**Malvastrum americanum*	0.5	6		x	
?Eriochloa pseudoacrotricha	0.5	2		x	
**Cenchrus setiger*	0.5	0.1		x	
**Sonchus oleraceus*	0.5	0.1		x	
Setaria dielsii	0.5	0.1		x	
Solanum diversiflorum	0.5	0.1		x	
Sida spinosa	0.4	10		x	
**Cenchrus ciliaris*	0.4	3		x	
Abutilon lepidum	0.4	0.1		x	
Euphorbia tannensis subsp. eremophila	0.4	0.1		x	
Heliotropium crispatum	0.4	0.1			
Ipomoea muelleri	0.4	0.1		x	
**Echinochloa colona*	0.3	2		x	
Paspalidium rarum	0.3	1		x	
Bothriochloa ewartiana	0.3	0.5		x	
Afrohybanthus aurantiacus	0.3	0.1		x	
Alternanthera denticulata	0.3	0.1		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Corchorus tectus	0.3	0.1		x	
Cucumis melo	0.3	0.1		x	
Cyperus iria	0.3	0.1		x	
Dichanthium sericeum subsp. humilius	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Enteropogon ramosus	0.3	0.1		x	
Eragrostis cumingii	0.3	0.1		x	
Eragrostis tenellula	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Hibiscus sturtii var. campylochlamys	0.3	0.1		x	
Phyllanthus maderaspatensis	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Sida fibulifera	0.3	0.1		x	
Solanum phlomoides	0.3	0.1		x	
Stemodia grossa	0.3	0.1		x	
Chloris pectinata	0.2	6		x	
**Euphorbia hirta*	0.2	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.2	0.1		x	
Blumea tenella	0.2	0.1		x	
Corchorus ?laniflorus	0.2	0.1		x	
Corchorus tridens	0.2	0.1		x	
Euphorbia biconvexa	0.2	0.1		x	
Glycine canescens	0.2	0.1	x	x	
Indigofera colutea	0.2	0.1		x	
Indigofera linifolia	0.2	0.1		x	
Indigofera trita subsp. trita	0.2	0.1			
Nicotiana ?benthamiana	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1	x	x	
Solanum cleistogamum	0.2	0.1	x	x	
Streptoglossa sp.	0.2	0.1		x	
Vigna lanceolata var. lanceolata	0.2	0.1	x	x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Marsilea hirsuta	0.1	0.1		x	
Mimulus gracilis	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Rostellularia adscendens var. clementii	0.1	0.1		x	
Tephrosia clementii	0.1	0.1	x		
Trianthema triquetrum	0.1	0.1		x	
Calandrinia ptychosperma	0.05	0.1		x	
Centipeda minima subsp. macrocephala	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus axillaris	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ025
Location MGA 50 338686 **mE** 7588241 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: BD, SW
Date: 16/04/2021

Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Orange, Red

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	3	25	x	x	
Rhagodia eremaea	1.9	0.1	x	x	
Acacia synchronicia	1	0.1	x	x	
Maireana sp.	0.6	0.1	x		
Enchylaena tomentosa var. tomentosa	0.5	0.1	x	x	
Triodia glabra	0.3	15		x	
**Cenchrus ciliaris*	0.2	0.1	x		
Sporobolus australasicus	0.2	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Maireana planifolia	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Malvaceae sp.	0.05	0.1		x	
Tribulus astrocarpus	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ026
Location MGA 50 344663 **mE** 7586607 **mN**

2020
Described by: BE, LG
Date: 09/06/2020
2021
Described by: SC, GB
Date: 18/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low isolated trees over Acacia ancistrocarpa and Acacia inaequilatera tall sparse shrubland over Triodia glabra and Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Infrastructure
Fire Age: > 15 years

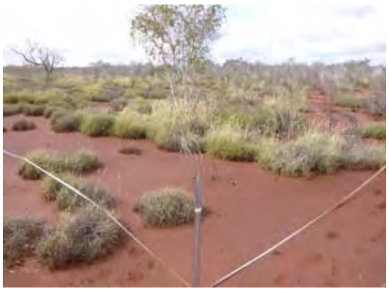
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	3	0.5	x	x	
Acacia ancistrocarpa	3	0.1	x	x	
Acacia inaequilatera	2.4	1	x	x	
Corymbia candida subsp. candida	1	0.1	x		Outside quadrat
Triodia glabra	0.3	28		x	
Triodia epactia	0.3	3		x	
Paspalidium clementii	0.2	0.1		x	
Abutilon ?sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Boerhavia sp.	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia erecta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania sp.	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia vaccaria var. vaccaria	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium sp.	0.1	0.1		x	
Pluchea dunlopii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus ?fusiformis	0.1	0.1		x	
Ptilotus ?polystachyus	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Stemodia grossa	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KQ027
Location	MGA 50 342034 **mE** 7588352 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: SC, GB
Date: 12/04/2021



Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: Ironstone, Quartz, N/A
Soil Type: Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia candida subsp. candida and Corymbia zygophylla low isolated trees over Acacia ancistrocarpa tall to mid shrubland to open shrubland over Triodia glabra low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia candida subsp. candida	3	0.5	x	x	
Corymbia zygophylla	3	0.5	x	x	
Acacia ancistrocarpa	2.5	12	x	x	
Acacia xiphophylla	2	0.1	x		
Hakea lorea subsp. lorea	1.5	0.5	x		
Acacia inaequilatera	1.5	0.1	x	x	
Acacia trachycarpa	1.5	0.1	x	x	
Seringia nephrosperma	0.7	0.1	x	x	
Poaceae sp.	0.6	0.1		x	
Acacia marramamba	0.5	0.1		x	
Triodia glabra	0.4	20		x	
Bonamia erecta	0.3	0.1		x	
Scaevola sericophylla	0.3	0.1			
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ028
Location MGA 50 355022 **mE** 7582422 **mN**

2020
Described by: BE, LG
Date: 09/06/2020
2021
Described by: SC, GB
Date: 14/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia aptaneura tall shrubland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: >10 years

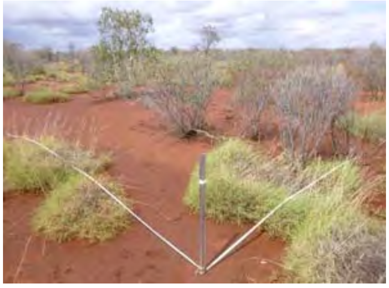
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia aptaneura	6	40	x		
Eucalyptus victrix	4	0.1	x		
Acacia atkinsiana	3	0.1	x		
Corymbia candida subsp. candida	0.5	0.1	x		
Ptilotus xerophilus	0.4	0.1		x	
Senna artemisioides subsp. oligophylla	0.4	0.1	x	x	
Triodia epactia	0.2	0.1	x	x	
Portulaca oleracea	0.1	1		x	
Dactyloctenium radulans	0.1	0.5		x	
Paspalidium clementii	0.1	0.5		x	
**Cenchrus ciliaris*	0.1	0.1		x	
**Malvastrum americanum*	0.1	0.1		x	
Abutilon ?sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Abutilon malvifolium	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia sp.	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Chloris ?pectinata	0.1	0.1		x	
Corchorus ?laniflorus	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Isotropis atropurpurea	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tephrosia aff. supina	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ029
Location MGA 50 350861 **mE** 7584849 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: SC, GB
Date: 12/04/2021



Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia candida subsp. candida low isolated trees over Acacia ancistrocarpa, Acacia bivenosa, Acacia inaequilatera and Acacia atkinsiana tall to mid sparse shrubland over Triodia glabra low sparse hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	3	0.5	x	x	
Acacia inaequilatera	2.5	0.1	x	x	
Acacia ancistrocarpa	2	3	x	x	
Acacia atkinsiana	2	0.1	x	x	
Acacia bivenosa	1.5	1	x	x	
Hakea lorea subsp. lorea	0.7	0.1	x	x	
Triodia glabra	0.5	7	x	x	
Chrysopogon fallax	0.4	0.5	x	x	
**Cenchrus ciliaris*	0.3	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia nuda (P4)	0.1	0.1		x	
Indigofera monophylla	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ030
Location MGA 50 354390 **mE** 7583041 **mN**

2020
Described by: BE, LG
Date: 09/06/2020
2021
Described by: BD, SW
Date: 13/04/2021

Type: Quadrat 50 x 50 m
Landform: Crabhole Clay Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa and Acacia ligulata tall to mid open shrubland over Triodia epactia low sparse hummock grassland with *Cenchrus ciliaris low sparse tussock grassland*

Condition: Poor **Disturbance Type:** Grazing
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia ancistrocarpa	3	10	x	x	
Acacia atkinsiana	3	0.1	x	x	
Acacia tetragonophylla	1.7	0.1	x	x	
Acacia ligulata	1.2	1	x	x	
Acacia wanyu	1	0.1		x	
Acacia bivenosa	0.8	0.1	x		
**Malvastrum americanum*	0.4	0.1		x	
Acacia synchronicia	0.4	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.4	0.1		x	
Arivela viscosa	0.3	0.1		x	
Streptoglossa decurrens	0.2	31		x	
Eragrostis tenellula	0.2	0.5		x	
Chloris pectinata	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Iseilema membranaceum	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	11		x	
**Cenchrus ciliaris*	0.1	3			
Triodia epactia	0.1	3		x	
Corchorus tridens	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Neptunia dimorphantha	0.1	0.1			
Phyllanthus maderaspatensis	0.1	0.1		x	
Poaceae sp.	0.1	0.1			
Portulaca oleracea	0.1	0.1		x	
Ptilotus gomphrenoides	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sesbania cannabina	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Striga squamigera	0.1	0.1		x	
Urochloa occidentalis var. occidentalis	0.1	0.1		x	
Euphorbia inappendiculata var inappendiculata (P2)	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ031
Location MGA 50 353639 **mE** 7582968 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: SC, GB
Date: 13/04/2021

Type: Quadrat 50 x 50 m
Landform: Broad Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia aptaneura tall shrubland over Triodia epactia low isolated hummock grasses*

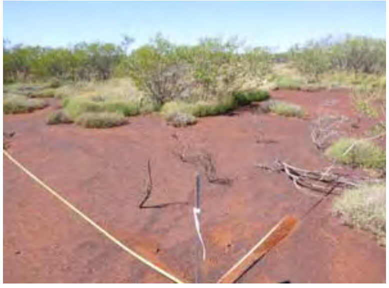
Condition: Good
Disturbance Type: Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia aptaneura	6	55	x	x	
Corymbia candida subsp. candida	2.3	0.1	x	x	Outside quadrat
Acacia synchronicia	1	0.1	x		Outside quadrat
Acacia atkinsiana	0.5	0.1	x	x	
Hakea lorea subsp. lorea	0.5	0.1		x	
Eragrostis leptocarpa	0.3	0.1		x	
Chloris ?pectinata	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Triodia epactia	0.15	1		x	
Paspalidium clementii	0.1	5		x	
Abutilon lepidum	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Isotropis atropurpurea	0.1	0.1		x	
Maireana sp.	0.1	0.1		x	
Marsilea sp.	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Polymeria sp.	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus xerophilus	0.1	0.1			
Senna artemisioides subsp. oligophylla	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tephrosia aff. supina	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Ipomoea muelleri	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ032
Location MGA 50 360626 **mE** 7577803 **mN**



2020
Described by: BE, LG
Date: 10/06/2020
2021
Described by: SC, GB
Date: 16/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana and Acacia inaequilatera tall to mid sparse shrubland over Triodia glabra low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia atkinsiana	2	8	x	x	
Acacia inaequilatera	2	1	x	x	
Acacia ancistrocarpa	1.8	0.1	x	x	Outside quadrat
Vincetoxicum lineare	1	0.1	x		
Triumfetta chaetocarpa	0.3	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Goodenia microptera	0.2	0.1	x	x	
Hibiscus sturtii var. campylochlamys	0.2	0.1		x	
Pterocaulon sp.	0.2	0.1		x	
Triodia glabra	0.1	12		x	
Isotropis atropurpurea	0.1	1		x	
Aristida contorta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Chrysopogon fallax	0.1	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus sp.	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum phlomoides	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ033
Location MGA 50 356658 **mE** 7581391 **mN**

2020
Described by: MS, CM
Date: 09/06/2020
2021
Described by: BD, SW
Date: 14/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Quartz
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Acacia atkinsiana and Acacia ancistrocarpa tall to mid sparse shrubland over Triodia epactia low sparse hummock grassland with Poaceae sp. low isolated tussock grasses*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia atkinsiana	2	5	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Hakea lorea subsp. lorea	1.6	0.1	x	x	
Acacia ancistrocarpa	1.5	2	x	x	
Triodia epactia	0.6	3	x	x	
Acacia wanyu	0.5	0.1	x		Outside quadrat
Poaceae sp.	0.4	0.05	x		
Chrysopogon fallax	0.3	0.5		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Triodia glabra	0.3	0.1		x	
Bonamia erecta	0.2	0.1		x	
Ptilotus aervoides	0.2	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Aristida contorta	0.1	0.1			
Bonamia alatisemina	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1			
Goodenia microptera	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Corchorus sp.	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ034
Location MGA 50 362130 **mE** 7577013 **mN**

2020
Described by: BE, LG
Date: 10/06/2020
2021
Described by: SC, BD
Date: 16/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Acacia atkinsiana and Acacia bivenosa tall shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	4.5	3	x	x	
Acacia colei var. colei	4	0.1	x	x	
Hakea lorea subsp. lorea	3	0.1	x	x	
Acacia atkinsiana	2.5	50	x	x	
Acacia ancistrocarpa	2.5	0.1	x	x	
Acacia bivenosa	2	1	x	x	
Chrysopogon fallax	0.7	0.1		x	
Isotropis atropurpurea	0.7	0.1	x	x	
Acacia inaequilatera	0.5	0.1		x	
Seringia nephrosperma	0.5	0.1		x	
Aristida sp.	0.4	0.1			
Triodia epactia	0.3	35		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Triodia glabra	0.3	0.1		x	
Bonamia erecta	0.2	1		x	
**Flaveria trinervia*	0.2	0.1		x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Cucumis variabilis	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Paraneurachne muelleri	0.2	0.1		x	
Pterocaulon sp.	0.2	0.1		x	
Ptilotus exaltatus	0.2	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
Streptoglossa liatroides	0.2	0.1		x	
Triumfetta chaetocarpa	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cullen leucochaites	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Solanum phlomoides	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ035
Location MGA 50 358034 **mE** 7579407 **mN**

2020
Described by: MS, CM
Date: 10/06/2020
2021
Described by: BD, SW
Date: 14/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay Loam
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana tall closed shrubland over Triodia epactia and Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	3.5	75	x	x	
Hakea lorea subsp. lorea	2.5	0.1	x	x	
Acacia bivenosa	2	0.1	x	x	
Acacia inaequilatera	1.8	0.1	x	x	
Acacia ancistrocarpa	1.6	0.1	x	x	
Seringia nephrosperma	1.6	0.1	x		
Cucumis variabilis	1.5	0.1		x	
Poaceae sp.	0.6	1	x		
Triodia epactia	0.5	32		x	
Chrysopogon fallax	0.5	0.1			
Triodia glabra	0.4	1			
Corchorus sp.	0.3	0.1			
?Corchorus sp.	0.2	0.1		x	
Abutilon otocarpum	0.2	0.1		x	
Abutilon sp.	0.2	0.1			
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Bonamia alatisemina	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Isotropis atropurpurea	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Bonamia erecta	0.1	0.1		x	
Corchorus tectus	0.1	0.1			
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Malvaceae sp.	0.1	0.1			
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Rhynchosia minima	0.1	0.1			
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1			
Sporobolus australasicus	0.1	0.1		x	
Triumfetta chaetocarpa	0.1	0.1		x	
Indet herb sp.	0.01	0.1			
Ipomoea muelleri	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR036
Location MGA 50 364169 **mE** 7576509 **mN**

2020
Described by: BE, LG
Date: 10/06/2020
2021
Described by: BD, SW
Date: 14/04/2021

Type: Releve 50 x 50 m
Landform: Minor Creek
Slope: Flat
Rock Type: Riverstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Acacia colei var. colei (and Grevillea wickhamii subsp. macrodonta) mid open shrubland over Triodia epactia low sparse hummock grassland with Eriachne mucronata low sparse tussock grassland and Bonamia erecta isolated herbs*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	3.5	5	x	x	
Acacia bivenosa	2	0.1	x	x	
Grevillea wickhamii subsp. macrodonta	1.8	2	x	x	
Gossypium robinsonii	1.8	0.1	x	x	
Senna glutinosa subsp. glutinosa	1.5	0.1	x	x	
Dodonaea coriacea	1.3	0.1	x	x	
Ptilotus calostachyus	1.3	0.1	x	x	
Acacia colei var. colei	1	20	x	x	
Indigofera monophylla	0.5	0.1		x	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 1160	0.5	0.1		x	
Tephrosia uniovulata	0.5	0.1		x	
Chrysopogon fallax	0.4	0.1		x	
Dampiera candicans	0.4	0.1		x	
Digitaria brownii	0.4	0.1			
Seringia nephrosperma	0.4	0.1			
Eriachne mucronata	0.3	5		x	
Afrohybanthus aurantiacus	0.3	0.1		x	
Corchorus laniflorus	0.3	0.1		x	
Goodenia sp.	0.3	0.1		x	
Hibiscus sturtii var. campylochlamys	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1		x	
Triumfetta chaetocarpa	0.3	0.1			
Solanum diversiflorum	0.25	0.1		x	
Triodia epactia	0.2	8		x	
Aristida contorta	0.2	0.1		x	
Aristida holathera var. holathera	0.2	0.1			
Euphorbia boophthona	0.2	0.1		x	
Isotropis atropurpurea	0.2	0.1		x	
Bonamia erecta	0.1	1		x	
Bonamia pannosa	0.1	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1			
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Fimbristylis simulans	0.1	0.1		x	
Paraneurachne muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1			
Portulaca oleracea	0.1	0.1			
Ptilotus axillaris	0.1	0.1		x	
Rhynchosia minima	0.1	0.1			
Senna notabilis	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1			
Ptilotus aervoides	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ037
Location MGA 50 362882 **mE** 7577226 **mN**

2020
Described by: MS, CM
Date: 10/06/2020
2021
Described by: BD, SW
Date: 11/04/2021

Type: Quadrat 50 x 50 m
Landform: Drainage Line
Slope: Flat
Rock Type: N/A
Soil Type: Clay Loam
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low isolated trees over Acacia atkinsiana tall closed shrubland over Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Litter, Cattle tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	3	0.1	x	x	
Acacia atkinsiana	2.5	70	x	x	
Acacia ancistrocarpa	2.5	0.1	x	x	
Ipomoea muelleri	2.5	0.1	x	x	
Abutilon lepidum	1.7	0.1		x	
Afrohybanthus aurantiacus	1	0.5		x	
Triumfetta chaetocarpa	0.8	0.1	x	x	
Acacia trachycarpa	0.7	0.1	x	x	
Cullen leucochaites	0.7	0.1		x	
Isotropis atropurpurea	0.7	0.1		x	
Seringia nephrosperma	0.7	0.1			
Triodia epactia	0.6	19		x	
Corchorus tectus	0.6	0.1			
Paraneurachne muelleri	0.6	0.1		x	
Poaceae sp.	0.6	0.1			
Eriachne flaccida	0.5	0.1			
Indigofera boviperda subsp. boviperda	0.5	0.1		x	
Peripleura obovata	0.5	0.1		x	
Solanum diversiflorum	0.5	0.1		x	
Triodia wiseana	0.5	0.1		x	
Peripleura hispidula var. setosa	0.4	0.1			
Pterocaulon sphacelatum	0.4	0.1		x	
Ptilotus obovatus var. obovatus	0.4	0.1		x	
Sida ?cardiophylla	0.4	0.1			
Solanum cleistogamum	0.4	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.4	0.1		x	
**Bidens bipinnata*	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Boerhavia coccinea	0.3	0.1		x	
Cullen pogonocarpum	0.3	0.1		x	
Euphorbia biconvexa	0.3	0.1		x	
Euphorbia trigonosperma	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1			
Acacia synchronicia	0.2	0.1			
Alternanthera nana	0.2	0.1		x	
Bonamia erecta	0.2	0.1			
Chrysopogon fallax	0.2	0.1		x	
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Striga squamigera	0.2	0.1		x	
**Passiflora foetida var. hispida*	0.1	0.1			
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Cucumis variabilis	0.1	0.1	x		
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia forrestii	0.1	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ038
Location MGA 50 366501 **mE** 7575607 **mN**

2020
Described by: BE, LG
Date: 10/06/2020
2021
Described by: SC, GB
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Drainage Line
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Acacia colei var. colei low isolated shrubs over Isotropis atropurpurea, Corchorus sidoides subsp. vermicularis, Indigofera boviperda subsp. boviperda and Bonamia erecta low sparse shrubland over Triodia epactia low open hummock grassland with Chrysopogon fallax low open tussock grassland*

Condition: Very Good **Disturbance Type:** Fire evidence
Fire Age: 1-5 years

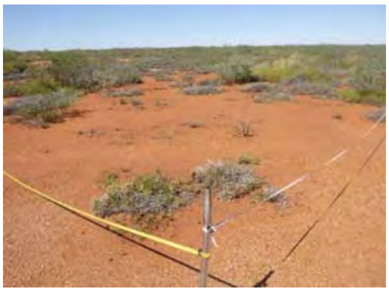
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	9	x	x	
Acacia colei var. colei	1	1	x	x	
Grevillea wickhamii subsp. macrodonta	1	0.1	x	x	
Acacia atkinsiana	0.5	0.1	x	x	
Ptilotus calostachyus	0.5	0.1	x	x	
Chrysopogon fallax	0.4	1.5	x	x	
Corchorus sidoides subsp. vermicularis	0.4	0.5	x	x	
Isotropis atropurpurea	0.4	0.5	x	x	
Acacia sericophylla	0.4	0.1		x	
Hibiscus leptocladus	0.4	0.1		x	
Seringia nephrosperma	0.4	0.1		x	
Bonamia erecta	0.3	1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Acacia ancistrocarpa	0.3	0.1			
Acacia bivenosa	0.3	0.1		x	
Corchorus laniflorus	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Tephrosia uniovulata	0.3	0.1		x	
Themeda triandra	0.3	0.1		x	
Triumfetta clementii	0.3	0.1		x	
Triodia epactia	0.2	4		x	
Indigofera boviperda subsp. boviperda	0.2	0.5		x	
Dampiera candicans	0.2	0.1		x	
Duperreya commixta	0.2	0.1			
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Goodenia sp.	0.2	0.1			
Hibiscus sturtii var. campylochlamys	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia pannosa	0.1	0.1			
Bulbostylis barbata	0.1	0.1		x	
Corchorus elachocarpus	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia sp.	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indet herb sp.	0.1	0.1			
Paraneurachne muelleri	0.1	0.1		x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1	x		
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ039
Location MGA 50 367924 **mE** 7575314 **mN**

2020
Described by: MS, CM
Date: 10/06/2020
2021
Described by: BE, BD
Date: 28/04/2021



Type: Quadrat 50 x 50 m
Landform: Rocky Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sandy Clay
Soil Colour: Brown, Orange

Vegetation: *Acacia bivenosa and Acacia synchronicia mid open shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 10 years

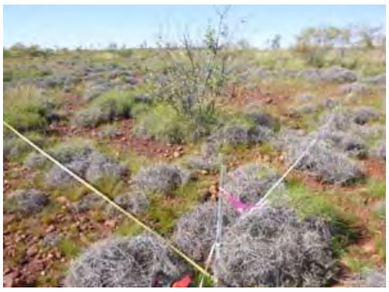
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Senna glutinosa subsp. pruinosa	1.6	0.1	x	x	
Acacia bivenosa	1.5	11	x	x	
Acacia atkinsiana	1.5	0.1		x	
Senna glutinosa subsp. glutinosa x stricta	1	0.1		x	
Triodia wiseana	0.6	25	x	x	
Senna glutinosa subsp. ×luerssenii	0.6	0.1	x	x	
Acacia synchronicia	0.5	2	x	x	
Acacia ancistrocarpa	0.5	0.1	x	x	Outside quadrat
Heliotropium pachyphyllum	0.3	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.3	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Haloragis sp.	0.2	0.1		x	
Iseilema dolichotrichum	0.2	0.1		x	
Maireana georgei	0.2	0.1		x	
Abutilon sp.	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Euphorbia ?vaccaria	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1			
Goodenia microptera	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Malvaceae sp.	0.1	0.1			
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Heliotropium heteranthum	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	
Ptilotus exaltatus	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ040
Location MGA 50 365937 **mE** 7575568 **mN**

2020
Described by: BE, LG
Date: 10/06/2020
2021
Described by: BE, BD
Date: 28/04/2021



Type: Quadrat 50 x 50 m
Landform: Hill
Slope: Gentle
Rock Type: Basalt
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle, Grazing
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	2	1	x	x	
Acacia ancistrocarpa	2	0.5	x	x	
Codonocarpus cotinifolius	2	0.1	x	x	
Grevillea wickhamii subsp. macrodonta	2	0.1	x	x	
Grevillea eriostachya	1.5	0.1		x	
Acacia atkinsiana	1	0.1	x	x	
Ptilotus calostachyus	0.5	0.1		x	
Triodia wiseana	0.4	26	x	x	
Corchorus laniflorus	0.4	0.1		x	
Seringia nephrosperma	0.4	0.1		x	
Indigofera monophylla	0.3	0.1		x	
Aristida holathera var. holathera	0.2	0.1		x	
Goodenia sp.	0.2	0.1		x	
Fimbristylis simulans	0.1	15		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Euphorbia ?vaccaria	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ041
Location MGA 50 304635 **mE** 7590144 **mN**

2020
Described by: MS, LG
Date: 11/06/2020
2021
Described by: SC, GB
Date: 14/04/2021

Type: Quadrat 50 x 50 m
Landform: Sub-saline Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Medium Clay
Soil Colour: Brown, Orange

Vegetation: *Tecticornia auriculata tall open chenopod shrubland over Poaceae sp. low sparse tussock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: Unknown

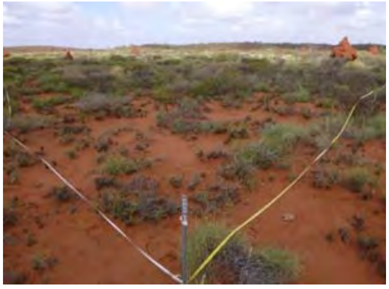
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Tecticornia auriculata	0.6	11		x	
Eriochloa pseudoacrotricha	0.3	0.1		x	
Tecticornia halocnemoides subsp. tenuis	0.3	0.1	x	x	
Maireana georgei	0.2	0.1	x		Outside quadrat
**Cenchrus ciliaris*	0.1	0.1	x		Outside quadrat
Cyperus bulbosus	0.1	0.1	x	x	
Dactyloctenium radulans	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ042
Location MGA 50 307350 **mE** 7586235 **mN**

2020
Described by: BE, CM
Date: 11/06/2020
2021
Described by: SC, GB
Date: 11/04/2021



Type: Quadrat 50 x 50 m
Landform: Sandy Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Acacia sclerosperma subsp. sclerosperma mid isolated shrubs over Acacia stellaticeps low sparse shrubland over Triodia epactia and Triodia glabra low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats, weeds
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia stellaticeps	1.2	9	x	x	
Acacia sclerosperma subsp. sclerosperma	1.2	1	x	x	
Acacia tetragonophylla	1.2	0.1	x	x	
Triodia epactia	0.5	15	x	x	
Triodia glabra	0.5	12	x	x	
Acacia synchronicia	0.5	0.1	x		
Scaevola sericophylla	0.5	0.1		x	
Scaevola spinescens	0.3	0.1	x		
Solanum lasiophyllum	0.3	0.1	quadrat		Outside quadrat
Eriachne helmsii	0.2	0.1		x	
Yakirra australiensis var. australiensis	0.2	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Cassytha capillaris	0.1	0.1		x	
Fabaceae sp.	0.1	0.1		x	
Indet herb sp.	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ043
Location MGA 50 381944 **mE** 7572227 **mN**

2020
Described by: MS, LG
Date: 11/06/2020
2021
Described by: BE, BD
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Broad Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Medium Clay, Heavy Clay
Soil Colour: Light Brown

Vegetation: *Acacia ancistrocarpa (with Acacia bivenosa) tall to mid closed shrubland to shrubland over Triodia epactia and Triodia longiceps tall to low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats, Weeds
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia elachantha	4	0.1	x	x	
Acacia ancistrocarpa	3.2	50	x	x	
Acacia synchronicia	2	0.1		x	
Cucumis variabilis	2	0.1		x	
Senna artemisioides subsp. helmsii x oligophylla	1.5	1		x	
Acacia bivenosa	1.2	3	x	x	
Senna artemisioides subsp. oligophylla	1.2	0.1	x	x	
Triodia longiceps	1	6	x	x	
Chrysopogon fallax	0.7	0.5		x	
Triodia epactia	0.6	14		x	
Scaevola spinescens	0.6	0.1		x	
Alysicarpus muelleri	0.5	0.1		x	
**Malvastrum americanum*	0.4	0.1		x	
Abutilon lepidum	0.4	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.4	0.1			
Afrohybanthus aurantiacus	0.4	0.1		x	
Cullen lachnostachys	0.4	0.1			
Triumfetta clementii	0.4	0.1		x	
Eragrostis tenellula	0.3	0.5		x	
Chloris pectinata	0.3	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.3	0.1		x	
Fimbristylis dichotoma	0.2	1		x	
Sida fibulifera	0.2	1		x	
**Cenchrus ciliaris*	0.2	0.1		x	
Abutilon otocarpum	0.2	0.1		x	
Centipeda minima subsp. macrocephala	0.2	0.1			
Corchorus tectus	0.2	0.1			
Cyperus iria	0.2	0.1			
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Euphorbia biconvexa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Hibiscus sturtii var. grandiflorus	0.2	0.1		x	
Pluchea rubelliflora	0.2	0.1			
Pterocaulon sphacelatum	0.2	0.1			
Ptilotus exaltatus	0.2	0.1		x	
Sida arsiniata	0.1	2		x	
Rhynchosia minima	0.1	0.5		x	
**Passiflora foetida var. hispida*	0.1	0.1			
**Vachellia farnesiana*	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1			
Cynodon prostratus	0.1	0.1			
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1			
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1	x	x	
Ipomoea muelleri	0.1	0.1		x	
Marsilea exarata	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Peplidium muelleri	0.1	0.1	x		
Phyllanthus erwinii	0.1	0.1	x	x	
Poaceae sp.	0.1	0.1	x		
Portulaca oleracea	0.1	0.1	x	x	
Ptilotus appendiculatus	0.1	0.1	x		
Senna notabilis	0.1	0.1	x	x	
Solanum diversiflorum	0.1	0.1	x	x	
Solanum lasiophyllum	0.1	0.1	x		
Sporobolus australasicus	0.1	0.1	x	x	
Trianthema triquetrum	0.1	0.1	x	x	
Pterocaulon sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ044
Location MGA 50 378182 **mE** 7572033 **mN**

2020
Described by: BE, CM
Date: 11/06/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50 m
Landform: Undulating Plain
Slope: Gentle
Rock Type: Ironstone, Quartz
Soil Type: Clay, Gravel, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia bivenosa and Eremophila cuneifolia mid isolated shrubs over Triodia wiseana low open hummock grassland*

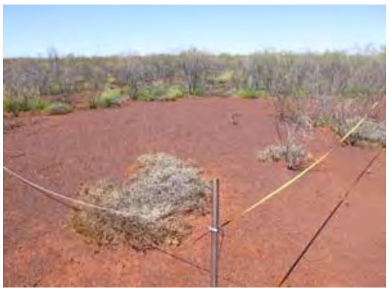
Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eremophila cuneifolia	1.2	0.5	x	x	
Acacia bivenosa	1	1	x	x	
Senna glutinosa subsp. pruinosa	0.8	0.1	x	x	
Triodia wiseana	0.5	11	x	x	
Psydrax latifolia	0.3	0.1	x		Outside quadrat
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1	x	x	
Maireana ?melanocoma	0.2	0.1	x	x	
Abutilon lepidum	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Chrysopogon fallax	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Haloragis sp.	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Hibiscus leptocladus	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Iseilema eremaeum	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1			
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1			
Trianthema triquetrum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Euphorbia boophthona	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Portulaca conspicua	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ045
Location MGA 50 359382 **mE** 7579204 **mN**



2020
Described by: MS, LG
Date: 12/06/2020
2021
Described by: BD, SW
Date: 16/04/2021

Type: Quadrat 50 x 50 m
Landform: Stony Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Sandy Clay
Soil Colour: Red

Vegetation: *Acacia atkinsiana and Acacia ancistrocarpa tall to mid closed shrubland to shrubland over Triodia glabra and Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia ancistrocarpa	2	1	x	x	
Acacia atkinsiana	1.6	50	x	x	
Acacia bivenosa	1.5	0.1	x	x	Outside quadrat
Acacia synchronicia	1.4	0.1	x	x	
Acacia wanyu	1.3	0.1	x	x	Outside quadrat
Cucumis variabilis	1.3	0.1		x	
Hakea lorea subsp. lorea	1.2	0.1	x	x	
Triodia glabra	0.4	30	x	x	
Ptilotus xerophilus	0.4	0.1		x	
Triodia epactia	0.3	10		x	
Afrohybanthus aurantiacus	0.3	0.1		x	
Cullen leucochaites	0.3	0.1		x	
Isotropis atropurpurea	0.3	0.1		x	
Triumfetta clementii	0.3	0.1		x	
Bulbostylis barbata	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Iseilema dolichotrichum	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Triumfetta chaetocarpa	0.2	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum phlomoides	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	
Tribulus sp.	0.02	0.1		x	
Indet herb sp.	0.01	0.1			
Poaceae sp.	0.01	0.01			

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ046
Location MGA 50 376693 **mE** 7572421 **mN**

2020
Described by: BE, CM
Date: 11/06/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50 m
Landform: Hill
Slope: Moderate, Gentle
Rock Type: Ironstone, Mudstone
Soil Type: Gravel, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eremophila cuneifolia low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Triodia wiseana	0.5	10	x	x	
Eremophila cuneifolia	0.5	5	x	x	
Triodia epactia	0.3	2		x	
Rhagodia eremaea	0.2	0.1	x	x	
Trichodesma zeylanicum var. zeylanicum	0.2	0.1		x	
**Flaveria trinervia*	0.1	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Acacia synchronicia	0.1	0.1	x	x	
Amaranthus cuspidifolius	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Iseilema eremaeum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca conspicua	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Stackhousia ?muricata subsp. annual (W. R. Barker	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ047		
Location	MGA 50	358259 **mE**	7579924 **mN**

2020
Described by: MS, LG
Date: 12/06/2020
2021
Described by: SC, GB
Date: 14/04/2021

Type:	Quadrat	50 x 50 m
Landform:	Stony Plain	
Slope:	Flat	
Rock Type:	Ironstone	
Soil Type:	Sandy Clay Loam	
Soil Colour:	Red	

Vegetation: *Corymbia hamersleyana low open woodland over Acacia atkinsiana and Acacia ancistrocarpa tall to mid open shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Corymbia hamersleyana	4	2	x	x	
Acacia ancistrocarpa	2.5	2	x	x	
Acacia atkinsiana	2.3	2	x	x	
Grevillea wickhamii subsp. macrodonta	2	0.1	x		
Triodia epactia	1	40	x	x	
Chrysopogon fallax	0.5	0.5	x	x	
Bonamia erecta	0.2	0.1	x	x	
Abutilon lepidum	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Dampiera candicans	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Isotropis atropurpurea	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ048
Location MGA 50 376830 **mE** 7572639 **mN**

2020
Described by: BE, CM
Date: 11/06/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia bivenosa tall open shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	2.1	17	x	x	
Scaevola spinescens	0.9	0.1	x	x	
Senna glutinosa subsp. pruinosa	0.6	0.1		x	
Triodia wiseana	0.5	40	x	x	
Eremophila cuneifolia	0.5	0.1	x	x	
Eriachne mucronata	0.5	0.1	x	x	
Indigofera monophylla	0.4	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.3	0.1	x	x	
Paraneurachne muelleri	0.2	0.1	x	x	
Abutilon sp.	0.1	0.1		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Maireana melanocoma	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ049
Location MGA 50 352199 **mE** 7583980 **mN**

2020
Described by: MS, LG
Date: 12/06/2020
2021
Described by: SC, GB
Date: 13/04/2021

Type: Quadrat 50 x 50 m
Landform: Stony Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sandy Clay Loam
Soil Colour: Red

Vegetation: *Corymbia candida subsp. candida low isolated trees over Acacia ancistrocarpa, Acacia atkinsiana and Acacia inaequilatera tall shrubland over Triodia glabra low hummock grassland*

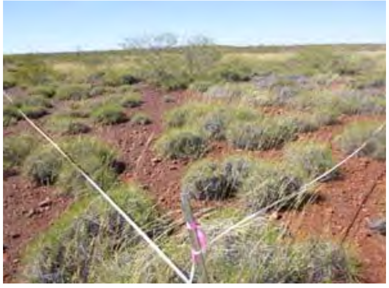
Condition: Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia atkinsiana	3	1	x	x	
Acacia inaequilatera	3	0.5	x	x	
Corymbia candida subsp. candida	3	0.5	x	x	
Acacia ancistrocarpa	2.5	31	x	x	
Eucalyptus victrix	2.5	0.1	x	x	
Hakea lorea subsp. lorea	1.4	0.1	x	x	
Acacia bivenosa	1	0.1		x	
Triodia glabra	0.5	31	x	x	
Aristida inaequiglumis	0.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.4	0.1	x	x	
Eriachne mucronata	0.3	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Abutilon sp.	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Chrysopogon fallax	0.1	0.1		x	
Corchorus ?tectus	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sida spinosa	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa ?decurrens	0.1	0.1		x	
Triumfetta chaetocarpa	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ050
Location MGA 50 366581 **mE** 7575965 **mN**



2020
Described by: BE, CM
Date: 12/06/2020
2021
Described by: BE, BD
Date: 28/04/2021

Type: Quadrat 50 x 50 m
Landform: Low Hill
Slope: Gentle
Rock Type: Ironstone, Volcanic (not basalt)
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia zygophylla	2.5	0.1		x	
Acacia atkinsiana	1.2	1	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Acacia synchronicia	0.8	0.1	x	x	
Triodia wiseana	0.5	20	x	x	
Tephrosia uniovulata	0.4	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Corchorus ?elachocarpus	0.3	0.1		x	
Corchorus laniflorus	0.3	0.1		x	
Heliotropium pachyphyllum	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Corchorus ?elachocarpus	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Indigofera monophylla	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.5		x	
Abutilon sp.	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Codonocarpus cotinifolius	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Grevillea wickhamii subsp. macrodonta	0.1	0.1	x	x	
Paraneurachne muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Euphorbia ?vaccaria	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ051
Location MGA 50 347118 **mE** 7585900 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Medium Clay
Soil Colour: Brown, Red

Vegetation: *Corymbia zygophylla low isolated trees over Acacia ancistrocarpa and Acacia inaequilatera tall isolated shrubs over Acacia bivenosa mid isolated shrubs over Triodia glabra low hummock grassland with Poaceae sp. low isolated tussock grasses*

Condition: Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia zygophylla	4	0.5	x	x	
Acacia inaequilatera	3	0.5	x	x	
Acacia ancistrocarpa	3	0.1	x		
Acacia bivenosa	2	0.5	x	x	
Hakea lorea subsp. lorea	1.8	0.5	x	x	
Poaceae sp.	0.6	1	x		
Triodia glabra	0.5	50	x	x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Chrysopogon fallax	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1	x	x	
Euphorbia boophthona	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ052
Location MGA 50 366238 **mE** 7576458 **mN**

2020
Described by: BE, CM
Date: 12/06/2020
2021
Described by: SC, GB
Date: 19/03/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana tall open shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	2.8	11	x	x	
Grevillea wickhamii subsp. macrodonta	2.1	0.1	x	x	
Hakea lorea subsp. lorea	1.6	0.1	x		
Codonocarpus cotinifolius	1.5	0.1	x	x	
Acacia ancistrocarpa	1.2	0.1	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Seringia nephrosperma	0.6	0.1	x	x	
Triodia wiseana	0.5	18	x	x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna glutinosa subsp. pruinosa	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ053
Location MGA 50 331310 **mE** 7588867 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz gravel
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa and Acacia inaequilatera tall to mid isolated shrubs over Acacia bivenosa mid isolated shrubs over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

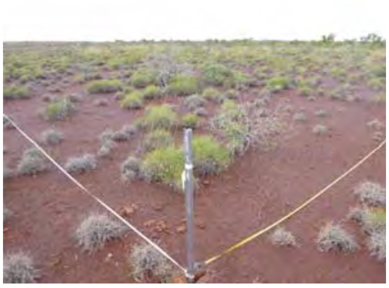
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	3	0.5	x	x	
Acacia ancistrocarpa	2	0.5	x	x	
Acacia bivenosa	1.5	1	x	x	
Hakea lorea subsp. lorea	1.4	0.1	x		Outside quadrat
Acacia synchronicia	0.6	0.1	x	x	
Triodia glabra	0.4	31	x	x	
Bonamia erecta	0.2	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Bonamia alatisemina	0.05	0.1		x	
Indigofera boviperda subsp. boviperda	0.05	0.1		x	
Ptilotus fusiformis	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	
Aristida contorta	0.01	0.1	x	x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ054		
Location	MGA 50	364516 **mE**	7577031 **mN**

2020
Described by: BE, CM
Date: 12/06/2020
2021
Described by: BD, SW
Date: 14/04/2021



Type: Quadrat 50 x 50 m
Landform: Undulating Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Grevillea wickhamii subsp. macrodonta tall isolated shrubs over Acacia ancistrocarpa and Acacia atkinsiana mid to low isolated shrubs over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Grevillea wickhamii subsp. macrodonta	2	0.5	x	x	
Acacia ancistrocarpa	1.2	0.5	x	x	
Acacia atkinsiana	1	0.5	x	x	
Hakea lorea subsp. lorea	1	0.1	x	x	
Codonocarpus cotinifolius	0.9	0.1	x	x	
Triodia wiseana	0.5	19	x	x	
Acacia bivenosa	0.5	0.1		x	
Triodia epactia	0.5	0.1	x		
Aristida contorta	0.2	0.1		x	
Eriachne pulchella subsp. indet	0.2	0.1		x	
Ptilotus calostachyus	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Goodenia microptera	0.05	0.1		x	
Ptilotus sp.	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ055
Location MGA 50 329345 **mE** 7589603 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: BD, SW
Date: 10/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Quartz, Ironstone Gravel
Soil Type: Sandy Clay
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera, Acacia ancistrocarpa and Acacia bivenosa tall to mid isolated shrubs over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia inaequilatera	3	0.5	x	x	
Acacia pachycarpa	3	0.1	x	x	
Acacia ancistrocarpa	2	0.5	x	x	
Acacia bivenosa	1.8	0.5	x	x	
Stylobasium spathulatum	1.6	0.1	x		
Acacia synchronicia	1	0.1	x	x	
Triodia glabra	0.4	31	x	x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ056
Location MGA 50 354839 **mE** 7583152 **mN**

2020
Described by: BE, CM
Date: 12/06/2020
2021
Described by: BD, SW
Date: 13/04/2021

Type: Quadrat 50 x 50 m
Landform: Crab Hole Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Brown, Red

Vegetation: *Acacia aptaneura and Acacia ancistrocarpa tall to mid open shrubland over *Cenchrus ciliaris low sparse tussock grassland with *Bidens bipinnata low isolated herbs*

Condition: Poor **Disturbance Type:** Grazing, Weeds, Cattle tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia aptaneura	5	13	x	x	
Corymbia candida subsp. candida	4.5	0.1	x	x	
**Parkinsonia aculeata*	3.9	0.1	x	x	
**Vachellia farnesiana*	2	0.1	x		
Eremophila longifolia	1.9	0.1	x	x	
Acacia ancistrocarpa	1.7	1	x	x	
Acacia wanyu	1.7	0.1	x	x	
Acacia tetragonophylla	1.5	0.1		x	
**Malvastrum americanum*	0.5	0.1	x	x	
Arivela viscosa	0.5	0.1		x	
Isotropis atropurpurea	0.4	0.1		x	
Streptoglossa decurrens	0.4	0.1		x	
Corchorus ?tectus	0.3	0.1		x	
Hakea lorea subsp. lorea	0.3	0.1	x		
Senna artemisioides subsp. oligophylla	0.3	0.1	x	x	
Dichanthium sericeum subsp. humilius	0.2	11		x	
**Bidens bipinnata*	0.2	0.1	x	x	
Chrysopogon fallax	0.2	0.1		x	
Indigofera monophylla	0.2	0.1	x	x	
Striga squamigera	0.2	0.1		x	
Ptilotus gomphrenoides	0.1	3		x	
Ipomoea muelleri	0.1	0.5	x	x	
**Citrullus colocynthis*	0.1	0.1	x	x	
?Striga curviflora	0.1	0.1		x	
Acacia pyrifolia var. pyrifolia	0.1	0.1		x	
Cucumis ?picrocarpus	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Iseilema membranaceum	0.1	0.1		x	
Lotus cruentus	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1	x	x	
Poaceae sp.	0.1	0.1	x		
Portulaca oleracea	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Senna notabilis	0.1	0.1	x	x	
Sida sp.	0.1	0.1	x		
Solanum diversiflorum	0.1	0.1		x	
Solanum sp.	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Corchorus tridens	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Neptunia dimorphantha	0.05	0.1	x		
Polymeria sp.	0.05	0.1		x	
Rhynchosia minima	0.03	0.1	x	x	
**Cenchrus ciliaris*	0.01	4	x		
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ057
Location MGA 50 324006 **mE** 7589630 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: SC, GB
Date: 11/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Quartz, Ironstone Gravel
Soil Type: Sandy With Patches Of Clay
Soil Colour: Orange, Red

Vegetation: *Corymbia candida subsp. candida and Corymbia hamersleyana low isolated trees over Acacia inaequilatera, Acacia ancistrocarpa and Acacia pachycarpa tall to mid isolated shrubs over Triodia glabra low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	4	0.5	x	x	
Acacia inaequilatera	3	0.5	x	x	
Acacia ancistrocarpa	2	0.5	x	x	
Acacia pachycarpa	2	0.5	x	x	
Acacia bivenosa	2	0.1	x		
Corymbia hamersleyana	1.8	0.5	x	x	
Acacia stellaticeps	1.2	0.1	x	x	
Hakea lorea subsp. lorea	1.2	0.1	x	x	
Triodia glabra	0.5	18	x	x	
Enchylaena tomentosa var. tomentosa	0.3	0.1	x	x	
Solanum lasiophyllum	0.3	0.1	x	x	
Bonamia erecta	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Portulaca oleracea	0.1	0.1	x	x	
Ptilotus astrolasius	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1	x		
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ058
Location MGA 50 337288 **mE** 7588209 **mN**

2020
Described by: BE, CM
Date: 13/06/2020
2021
Described by: SC, BD
Date: 3/05/2021

Type: Quadrat 50 x 50 m
Landform: Flood out of Major Creek
Slope: N/A
Rock Type: Riverstone
Soil Type: Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix and Corymbia hamersleyana mid to low open woodland over Acacia trachycarpa and Acacia pyrifolia var. pyrifolia mid open shrubland over Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Weeds, Cattle tracks/scats
Fire Age: Unknown

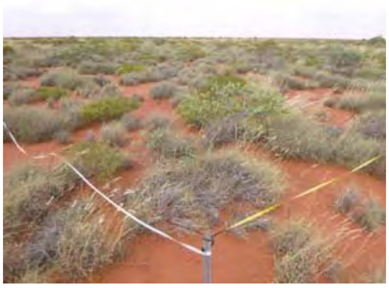
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	12	7	x	x	
Eucalyptus camaldulensis	12	2		x	
Corymbia hamersleyana	7	1	x	x	
Acacia coriacea subsp. coriacea	3	0.1	x	x	Outside quadrat
**Vachellia farnesiana*	1.6	0.1	x	x	
Acacia ancistrocarpa	1.6	0.1	x	x	
Acacia trachycarpa	1.5	15	x	x	
Acacia pyrifolia var. pyrifolia	1.5	0.5	x	x	
Melaleuca glomerata	1.5	0.1	x	x	
Acacia bivenosa	1.3	0.1	x	x	
Sesbania cannabina	1.3	0.1		x	
Bothriochloa ewartiana	1.2	0.1	x	x	
Gossypium robinsonii	1.1	0.1	x	x	
Triodia epactia	0.5	20	x	x	
Crotalaria medicaginea var. neglecta	0.5	0.1		x	
Enteropogon ramosus	0.5	0.1	x	x	
Eriochloa pseudoacrotricha	0.5	0.1		x	
Pterocaulon sp.	0.5	0.1	x	x	
Amaranthus undulatus	0.4	0.1		x	
Chloris pectinata	0.3	0.1		x	
Eragrostis tenellula	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1	x	x	
Sida spinosa	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
**Echinochloa colona*	0.2	0.1		x	
**Setaria verticillata*	0.2	0.1		x	
Abutilon lepidum	0.2	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.2	0.1		x	
Alternanthera denticulata	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Bonamia pannosa	0.2	0.1		x	
Cucumis ?picrocarpus	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1	x	x	
Indigofera linifolia	0.2	0.1		x	
Nicotiana ?benthamiana	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Solanum cleistogamum	0.2	0.1		x	
Solanum phlomoides	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1	x	x	
Abutilon otocarpum	0.1	0.1		x	
Alternanthera nana	0.1	0.1	x	x	
Alysicarpus muelleri	0.1	0.1		x	
Convolvulus clementii	0.1	0.1		x	
Corchorus ?tectus	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Eragrostis leptocarpa	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1	x	x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Glycine canescens	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ059
Location MGA 50 315682 **mE** 7589824 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: BD, SW
Date: 10/04/2021



Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sand
Soil Colour: Red

Vegetation: *Hakea stenophylla subsp. stenophylla and Grevillea eriostachya mid sparse shrubland over Acacia stellaticeps, Acacia bivenosa and Scaevola spinescens low open shrubland over Triodia glabra low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Grevillea eriostachya	1.5	2	x	x	
Santalum lanceolatum	1.5	0.1	x	x	
Hakea stenophylla subsp. stenophylla	1.2	1	x	x	
Acacia bivenosa	0.7	1	x	x	
Triodia glabra	0.5	40	x	x	
Acacia stellaticeps	0.5	10	x	x	
Scaevola spinescens	0.3	0.1	x	x	
Cassytha capillaris	0.2	0.1		x	
Bonamia erecta	0.05	0.1		x	
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ060
Location MGA 50 337179 **mE** 7588288 **mN**

2020
Described by: BE, CM
Date: 13/06/2020
2021
Described by: SC, BD
Date: 3/05/2021

Type: Quadrat 50 x 50 m
Landform: Major Creek
Slope: Various
Rock Type: Riverstone
Soil Type: Gravel, Loam
Soil Colour: Brown, Orange, Red

Vegetation: *Eucalyptus camaldulensis and Melaleuca argentea mid woodland over Acacia trachycarpa (and *Vachellia farnesiana) tall sparse shrubland over Melaleuca glomerata mid open shrubland over Triodia epactia low sparse hummock grassland with *Cenchrus ciliaris and *Cenchrus setiger low sparse tussock grassland and Cyperus vaginatus low isolated sedges*

Condition: Poor **Disturbance Type:** Grazing, Weeds, Cattle tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Eucalyptus camaldulensis	14	10	x	x	
Melaleuca argentea	12	7	x	x	
**Vachellia farnesiana*	3.5	0.5	x	x	
Acacia coriacea subsp. coriacea	3.5	0.1	x	x	Outside quadrat
Acacia trachycarpa	2	6	x	x	
Melaleuca glomerata	1.5	23	x	x	
Acacia ancistrocarpa	1.5	0.1	x		
Euphorbia tannensis subsp. eremophila	1.2	0.1	x		
Acacia pyrifolia var. pyrifolia	1	0.1	x	x	
Cyperus vaginatus	0.9	0.5	x	x	
Rhynchosia minima	0.8	0.1	x	x	
Triodia epactia	0.5	4	x	x	
Leptochloa digitata	0.5	0.1	x		
**Setaria verticillata*	0.4	0.1	x	x	
Enteropogon ramosus	0.3	0.1	x		
Panicum laevinode	0.3	0.1	x		
**Cenchrus ciliaris*	0.2	2	x		
**Cenchrus setiger*	0.2	1	x		
**Euphorbia hirta*	0.2	0.1	x		
**Malvastrum americanum*	0.2	0.1		x	
Eragrostis tenellula	0.2	0.1	x	x	
Eriochloa pseudoacrotricha	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Fimbristylis dichotoma	0.2	0.1	x		
Rostellularia adscendens var. clementii	0.2	0.1		x	
Solanum sp.	0.2	0.1		x	
Euphorbia biconvexa	0.15	0.1	x		
**Echinochloa colona*	0.1	0.1	x	x	
Alternanthera denticulata	0.1	0.1		x	
Amaranthus undulatus	0.1	0.1		x	
Ammannia multiflora	0.1	0.1		x	
Arivela viscosa	0.1	0.1	x	x	
Blumea tenella	0.1	0.1	x	x	
Centipeda minima subsp. macrocephala	0.1	0.1	x	x	
Corchorus tridens	0.1	0.1	x		
Cucumis ?picrocarpus	0.1	0.1	x	x	
Cullen martinii	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania melanocarpa forma leucocarpa	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1	x		
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Fimbristylis microcarya	0.1	0.1		x	
Glycine canescens	0.1	0.1	x	x	
Gossypium robinsonii	0.1	0.1	x		
Indigofera colutea	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1	x	x	
Nicotiana ?benthamiana	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1	x	x	
Portulaca oleracea	0.1	0.1		x	
Scleromitrion galioides	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ061
Location MGA 50 315346 **mE** 7590675 **mN**

2020
Described by: MS, LG
Date: 13/06/2020
2021
Described by: BD, SW
Date: 10/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sand
Soil Colour: Red

Vegetation: *Acacia bivenosa mid sparse shrubland over Acacia stellaticeps low open shrubland over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	1.2	0.1	x	x	
Acacia stellaticeps	0.5	15	x	x	
Grevillea eriostachya	0.5	0.1	x	x	
Ptilotus astrolasius	0.5	0.1	x		
Scaevola spinescens	0.5	0.1	x	x	Outside quadrat
Triodia glabra	0.4	60	x	x	
Bonamia erecta	0.2	0.1		x	
Cassytha capillaris	0.2	0.1		x	
Hakea stenophylla subsp. stenophylla	0.2	0.1	x	x	
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ062
Location MGA 50 337334 **mE** 7587842 **mN**

2020
Described by: BE, CM
Date: 14/06/2020
2021
Described by: BE, BD
Date: 23/05/2021

Type: Quadrat 50 x 50 m
Landform: Major Creek
Slope: Steep, Flat
Rock Type: Riverstone
Soil Type: Clay, Loam, Sand
Soil Colour: Orange, Red

Vegetation: *Eucalyptus camaldulensis, Eucalyptus victrix and Melaleuca argentea mid to low woodland over Melaleuca glomerata, Acacia trachycarpa and Acacia coriacea subsp. coriacea tall open shrubland over Triodia epactia low sparse hummock grassland with *Cenchrus ciliaris, Enteropogon ramosus, Eragrostis cumingii, Eragrostis tenellula and Leptochloa digitata tall to mid open tussock grassland and Cyperus vaginatus tall sparse sedgeland*

Condition: Poor **Disturbance Type:** Grazing, Weeds
Fire Age: > 15 years

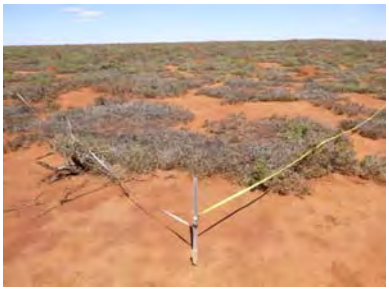
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus camaldulensis	14	16	x	x	
Eucalyptus victrix	11	2	x	x	
Melaleuca argentea	9	3	x	x	
Acacia citrinoviridis	5	0.1		x	
Melaleuca glomerata	4	10	x	x	
Acacia coriacea subsp. coriacea	2.2	1	x	x	
Acacia trachycarpa	2	2	x	x	
Sesbania cannabina	2	0.1		x	
Rhynchosia minima	1.5	5	x	x	
Vigna lanceolata var. lanceolata	1.5	0.5	x	x	
Abutilon lepidum	1	0.1		x	
**Setaria verticillata*	0.9	15	x	x	
**Vachellia farnesiana*	0.9	0.1	x	x	
Cyperus vaginatus	0.8	3	x	x	
Glycine canescens	0.8	0.5	x	x	
Gossypium robinsonii	0.8	0.1		x	
Dichanthium fecundum	0.7	1		x	
Eulalia aurea	0.7	0.1		x	
Leptochloa digitata	0.6	5	x	x	
Enteropogon ramosus	0.6	1	x	x	
Sida rohlenae subsp. rohlenae	0.6	1		x	
Lotus cruentus	0.6	0.1		x	
**Malvastrum americanum*	0.5	7	x	x	
Triodia epactia	0.5	5	x	x	
Abutilon otocarpum	0.5	0.1		x	
Nicotiana occidentalis subsp. occidentalis	0.5	0.1		x	
Pterocaulon sphacelatum	0.5	0.1	x	x	
**Sonchus oleraceus*	0.4	0.1		x	
Amaranthus cuspidifolius	0.4	0.1		x	
Arivela viscosa	0.4	0.1		x	
Corchorus laniflorus	0.4	0.1		x	
Dysphania melanocarpa forma leucocarpa	0.4	0.1		x	
Eragrostis leptocarpa	0.4	0.1		x	
Heliotropium crispatum	0.4	0.1		x	
Eragrostis tenellula	0.3	5	x	x	
**Cenchrus ciliaris*	0.3	3	x	x	
**Cenchrus setiger*	0.3	1		x	
Ammannia baccifera	0.3	0.5		x	
Dichanthium sericeum subsp. humilius	0.3	0.5		x	
**Euphorbia hirta*	0.3	0.1	x	x	
Abutilon fraseri subsp. fraseri	0.3	0.1		x	
Afrohybanthus aurantiacus	0.3	0.1		x	
Ammannia multiflora	0.3	0.1		x	
Crotalaria medicaginea var. neglecta	0.3	0.1		x	
Cullen leucochaites	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1	x	x	
Euphorbia biconvexa	0.3	0.1	x		
Euphorbia boophthona	0.3	0.1	x	x	
Euphorbia tannensis subsp. eremophila	0.3	0.1		x	
Fimbristylis dichotoma	0.3	0.1	x	x	
Indigofera sp.	0.3	0.1		x	
Phyllanthus erwinii	0.3	0.1	x	x	
Phyllanthus maderaspatensis	0.3	0.1	x	x	
Rostellularia adscendens var. clementii	0.3	0.1	x	x	
Streptoglossa sp.	0.3	0.1		x	
Urochloa piligera	0.3	0.1		x	
**Echinochloa colona*	0.2	0.1	x	x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.2	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ063
Location MGA 50 313111 **mE** 7588800 **mN**

2020
Described by: MS, LG
Date: 14/06/2020
2021
Described by: BE, BD
Date: 18/03/2021



Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Tecticornia auriculata low open chenopod shrubland with Triodia epactia low open hummock grassland*

Condition: Good
Disturbance Type: Grazing, Fire evidence, Cattle tracks/scats, Weeds
Fire Age: > 5 years

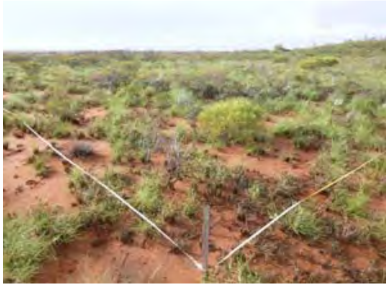
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	0.7	0.1	x	x	
Scaevola spinescens	0.7	0.1	x	x	
Poaceae sp.	0.6	0.1	x		
Tecticornia halocnemoides subsp. tenuis	0.5	0.1	x	x	
Triodia epactia	0.4	18	x	x	
Tecticornia auriculata	0.4	15	x	x	
**Cenchrus ciliaris*	0.3	0.1	x	x	
Solanum lasiophyllum	0.3	0.1	x		
Solanum cleistogamum	0.2	0.1		x	
Swainsona kingii	0.2	0.1	x		
Cyperus bulbosus	0.1	1		x	
Heliotropium crispatum	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Fabaceae sp.	0.05	0.1		x	
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ065
Location MGA 50 306285 **mE** 7589858 **mN**

2020
Described by: MS, LG
Date: 14/06/2020
2021
Described by: SC, GB
Date: 12/04/2021



Type: Quadrat 50 x 50 m
Landform: Dune Swale
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Red

Vegetation: *Grevillea stenobotrya, Acacia sclerosperma subsp. sclerosperma and Hakea stenophylla subsp. stenophylla mid open shrubland over Triodia epactia low hummock grassland*

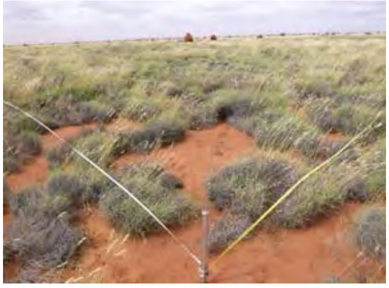
Condition: Very Good **Disturbance Type:** Grazing, Fire evidence, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Grevillea stenobotrya	2	0.5	x	x	
Acacia colei var. colei	1.8	0.1	x	x	
Acacia sclerosperma subsp. sclerosperma	1.5	1	x	x	
Stylobasium spathulatum	1.5	0.1	x	x	Outside quadrat
Acacia bivenosa	1.4	0.1	x	x	
Hakea stenophylla subsp. stenophylla	1.2	10	x	x	
Acacia ligulata	1	0.1	x		
Acacia stellaticeps	0.6	0.1	x	x	
Solanum lasiophyllum	0.6	0.1	x	x	
Eremophila forrestii subsp. viridis (P3)	0.4	0.1		x	
Bonamia erecta	0.3	0.1	x	x	
Triodia avenoides	0.3	0.1	x	x	
Eriachne helmsii	0.2	0.1		x	
Triodia epactia	0.1	31	x	x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Cassytha capillaris	0.1	0.1	x	x	
Corchorus ?tectus	0.1	0.1		x	
Eulalia aurea	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1	x	x	
Goodenia microptera	0.1	0.1		x	
Heliotropium cunninghamii	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1	x	x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Quoya loxocarpa	0.1	0.1		x	
Urochloa holosericea subsp. velutina	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Indet herb sp.	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ066
Location MGA 50 311828 **mE** 7588194 **mN**



2020
Described by: MS, LG
Date: 14/06/2020
2021
Described by: SC, GB
Date: 10/04/2021

Type: Quadrat 50 x 50 m
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clayey Sand
Soil Colour: Orange, Red

Vegetation: *Acacia stellaticeps low sparse shrubland over Triodia glabra low hummock grassland*

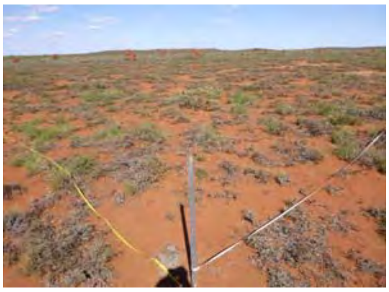
Condition: Good **Disturbance Type:** Grazing, Cattle tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia stellaticeps	0.5	1	x	x	
Triodia glabra	0.4	31	x	x	
Scaevola spinescens	0.4	0.1	x	x	
Triodia avenoides	0.4	0.1	x		
Triodia epactia	0.2	0.1		x	
Cassytha capillaris	0.1	0.1		x	
Eriachne helmsii	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ067
Location MGA 50 314347 **mE** 7590638 **mN**



2020
Described by: MS, BD
Date: 23/09/2020
2021
Described by: SC, GB
Date: 20/03/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Quartz
Soil Type: Clayey Sand
Soil Colour: Red

Vegetation: *Acacia bivenosa mid sparse shrubland over Scaevola spinescens low sparse shrubland over Triodia epactia low hummock grassland with Maireana georgei and Trianthema turgidifolium low sparse chenopod shrubland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: > 5 years

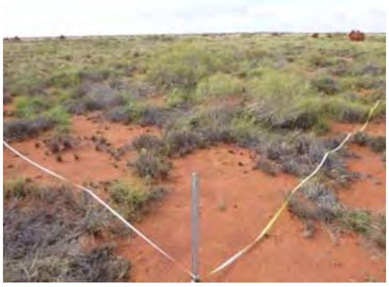
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	1.4	3	x	x	
Scaevola spinescens	0.5	1	x	x	
Triodia epactia	0.4	40	x	x	
Maireana georgei	0.3	1	x	x	
Trianthema turgidifolium	0.2	1	x	x	
Cyperaceae sp.	0.1	0.1		x	
Poaceae sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ068
Location MGA 50 311750 **mE** 7589783 **mN**

2020
Described by: SC, CM
Date: 23/09/2020
2021
Described by: SC, GB
Date: 10/04/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia sclerosperma subsp. sclerosperma and Acacia stellaticeps low sparse shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia sclerosperma subsp. sclerosperma	0.8	2	x	x	
Eulalia aurea	0.6	0.1	x	x	
Acacia stellaticeps	0.5	1	x	x	
Triodia epactia	0.3	75	x	x	
Eriachne obtusa	0.3	0.1	x	x	
Stemodia sp. Onslow (A.A. Mitchell 76/148)	0.3	0.1	x	x	
Cassytha capillaris	0.2	0.1	x	x	
Eriachne ?helmsii	0.2	0.1		x	
Trianthema turgidifolium	0.2	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Goodenia forrestii	0.1	0.1	x		
Polygala glaucifolia	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ069
Location MGA 50 314002 **mE** 7590472 **mN**

2020
Described by: MS, BD
Date: 23/09/2020
2021
Described by: SC, GB
Date: 10/04/2021

Type: Quadrat 50 x 50
Landform: Claypan
Slope: Flat
Rock Type: Quartz
Soil Type: Clayey Sand
Soil Colour: Red

Vegetation: *Tecticornia auriculata and Tecticornia halocnemoides low isolated chenopod shrubs over Angianthus milnei and Lepidium pholidogynum low sparse forbland*

Condition: Poor **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Tecticornia auriculata	0.4	0.1	x	x	
Tecticornia halocnemoides subsp. tenuis	0.4	0.1	x	x	
Tecticornia indica subsp. leiostachya	0.4	0.1		x	
Angianthus milnei	0.1	1	x		
Lepidium pholidogynum	0.1	1	x		
**Cenchrus ciliaris*	0.1	0.1		x	
Chenopodiaceae sp.	0.1	0.1		x	
Cyperus bulbosus	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1	x	x	
Indet herb sp.	0.1	0.1	x		
Indigofera sp.	0.1	0.1	x	x	
Ptilotus exaltatus	0.1	0.1		x	
Streptoglossa liatroides	0.1	0.1	x	x	
Swainsona kingii	0.1	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR070
Location MGA 50 309439 **mE** 7588325 **mN**

2020
Described by: SC, CM
Date: 23/09/2020
2021
Described by: BE, BD
Date: 20/03/2021

Type: Releve 50 x 50
Landform: Claypan Lake
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Lawrencia viridigrisea low isolated shrubs over Salsola australis and Atriplex bunburyana low isolated chenopod shrubs over Ptilotus exaltatus low isolated forbs*

Condition: Good **Disturbance Type:** Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Lawrencia viridigrisea	0.5	0.1	x		
Salsola australis	0.3	0.1	x	x	
Atriplex bunburyana	0.2	0.1	x	x	
Cyperus bulbosus	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1	x		
Fabaceae sp.	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR071
Location MGA 50 302971 **mE** 7592627 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: BE, BD
Date: 18/03/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay
Soil Colour: Red

Vegetation: *Acacia tetragonophylla tall open shrubland over Scaevola spinescens low open shrubland over Enchylaena tomentosa var. tomentosa mid sparse chenopod shrubland over *Cenchrus setiger and *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Litter, Fauna tracks/scats, Fence wire
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia tetragonophylla	3	15	x		
Acacia tetragonophylla x trachycarpa	2	0.5	x	x	
Scaevola spinescens	1.4	25	x	x	
Enchylaena tomentosa var. tomentosa	1.2	5	x	x	
**Cenchrus setiger*	0.6	6	x	x	
**Cenchrus ciliaris*	0.6	0.1	x	x	
Atriplex bunburyana	0.6	0.1	x		
Rhagodia eremaea	0.6	0.1	x	x	
**Prosopis pallida*	0.5	0.1	x	x	
Sporobolus mitchellii	0.4	3	x	x	
Chrysopogon fallax	0.4	0.1	x		
Eriachne flaccida	0.4	0.1	x		
Eulalia aurea	0.4	0.1		x	
Solanum lasiophyllum	0.4	0.1	x	x	
Trianthema triquetrum	0.3	1		x	
Chloris pectinata	0.3	0.1		x	
Triodia epactia	0.3	0.1		x	
Acacia synchronicia	0.2	0.1	x	x	
Maireana georgei	0.2	0.1	x		
Maireana tomentosa subsp. tomentosa	0.2	0.1		x	
Ptilotus exaltatus	0.2	0.1	x	x	
Rhynchosia minima	0.2	0.1		x	
Salsola australis	0.2	0.1	x	x	
Sesbania cannabina	0.2	0.1		x	
Trianthema turgidifolium	0.2	0.1	x	x	
Portulaca oleracea	0.1	3		x	
Boerhavia sp.	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Indet herb sp.	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR072
Location MGA 50 303585 **mE** 7592688 **mN**

2020
Described by: SC, CM
Date: 24/09/2020
2021
Described by: BE, BD
Date: 18/03/2021

Type: Releve 50 x 50
Landform: Lake Bed
Slope: Flat
Rock Type: N/A
Soil Type: Loam, Soft Clay
Soil Colour: Brown

Vegetation: *Tecticornia auriculata low isolated chenopod shrubs*

Condition: Good **Disturbance Type:** Fauna tracks/scats
Fire Age: Unknown

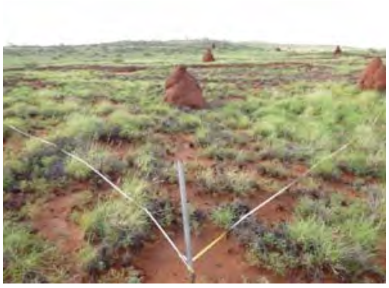
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Tecticornia auriculata	0.4	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ073
Location MGA 50 303185 **mE** 7591538 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: SC, GB
Date: 11/04/2021



Type: Quadrat 50 x 50
Landform: Dune Swale
Slope: Undulating
Rock Type: N/A
Soil Type: Sand With Clayey Patches
Soil Colour: Red

Vegetation: *Acacia tetragonophylla mid sparse shrubland over Triodia epactia low hummock grassland over *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia tetragonophylla	1.5	1	x	x	
Acacia tetragonophylla x trachycarpa	1.4	0.1	x	x	
Acacia synchronicia	0.7	0.1	x	x	
Scaevola spinescens	0.7	0.1	x	x	
Eulalia aurea	0.6	0.1		x	
Triodia epactia	0.3	50	x	x	
**Cenchrus ciliaris*	0.3	1	x	x	
Trachymene sp.	0.3	0.1	x		
Atriplex semilunaris	0.2	0.1	x	x	
Salsola australis	0.2	0.1		x	
Indigofera colutea	0.1	3		x	
Indigofera linifolia	0.1	0.5		x	
Arivela viscosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1	x	x	
Trianthema turgidifolium	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KR074
Location	MGA 50 303634 **mE** 7592663 **mN**

2020
Described by: SC, CM
Date: 24/09/2020
2021
Described by: BE, BD
Date: 18/03/2021

Type: Releve 25 x 100
Landform: Lake Bank
Slope: Gentle
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Tecticornia auriculata and Tecticornia indica subsp. leiostachya low open chenopod shrubland over *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Tecticornia auriculata	1.1	12	x	x	
Atriplex bunburyana	0.7	0.1	x	x	
Tecticornia indica subsp. leiostachya	0.5	2	x		
Sesbania cannabina	0.5	0.1	x	x	
Triodia epactia	0.5	0.1	x	x	
**Cenchrus ciliaris*	0.4	1	x	x	
**Cenchrus setiger*	0.4	1		x	
Sclerolaena recurvicuspis	0.4	0.1	x	x	
Eragrostis falcata	0.3	0.1	x		
Frankenia ambita	0.3	0.1	x		
Lawrencia viridigrisea	0.3	0.1	x		
Tecticornia halocnemoides subsp. tenuis	0.3	0.1	x	x	
Portulaca oleracea	0.2	0.1		x	
Cyperus bulbosus	0.1	3		x	
Dactyloctenium radulans	0.1	1		x	
**Flaveria trinervia*	0.1	0.1	x	x	
Enchylaena tomentosa var. tomentosa	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Salsola australis	0.1	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR075
Location MGA 50 304072 **mE** 7591183 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: SC, GB
Date: 14/04/2021

Type: Releve 50 x 50
Landform: Cracking Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Red

Vegetation: *Acacia synchronicia tall sparse shrubland over Eriachne flaccida and Sporobolus mitchellii tall to low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

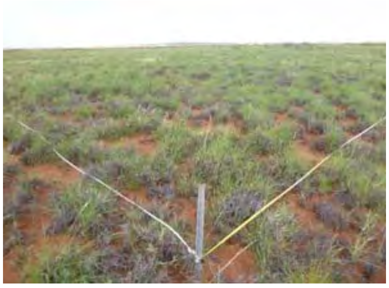
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	3	5	x	x	
**Vachellia farnesiana*	1.9	0.1	x	x	
Stemodia sp. Onslow (A.A. Mitchell 76/148)	0.6	0.1	x	x	
Eriachne flaccida	0.5	5		x	
Acacia tetragonophylla	0.5	0.1	x	x	
Chrysopogon fallax	0.5	0.1	x		
Rhagodia eremaea	0.5	0.1	x	x	
Scaevola spinescens	0.4	0.1		x	
Minuria integerrima	0.3	0.1	x		
Streptoglossa liatroides	0.3	0.1	x		
Sporobolus mitchellii	0.2	1.5	x	x	
Atriplex bunburyana	0.2	0.1	x		
Atriplex semilunaris	0.1	0.1	x		
Cucumis variabilis	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dissocarpus paradoxus	0.1	0.1	x		
Enchylaena tomentosa var. tomentosa	0.1	0.1		x	
Eulalia aurea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ076
Location MGA 50 303678 **mE** 7592547 **mN**

2020
Described by: SC, CM
Date: 24/09/2020
2021
Described by: SC, GB
Date: 11/04/2021



Type: Quadrat 50 x 50
Landform: Flat Sand Sub Dunal
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown

Vegetation: *Triodia epactia low hummock grassland over *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: > 5 years

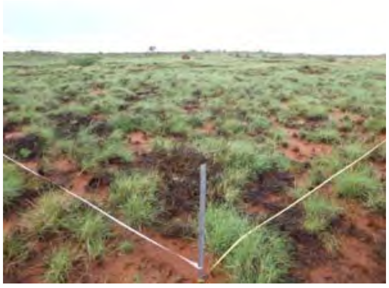
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Grevillea stenobotrya	0.9	0.1	x	x	
Rhagodia eremaea	0.9	0.1	x		
Eragrostis eriopoda	0.5	0.1	x		
Eriachne obtusa	0.5	0.1	x	x	
Scaevola spinescens	0.5	0.1	x	x	
Solanum lasiophyllum	0.5	0.1	x		
Triodia epactia	0.4	45	x	x	
Chrysopogon fallax	0.4	0.5		x	
**Cenchrus ciliaris*	0.2	2	x	x	
Cassytha capillaris	0.2	0.1	x		
Abutilon lepidum	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Urochloa holosericea subsp. velutina	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Goodenia forrestii	0.05	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ077
Location MGA 50 304320 **mE** 7590850 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: SC, GB
Date: 12/04/2021



Type: Quadrat 50 x 50
Landform: Dune Swale
Slope: Undulating
Rock Type: N/A
Soil Type: Sand
Soil Colour: Red

Vegetation: *Acacia tetragonophylla x trachycarpa mid sparse shrubland over Triodia epactia low hummock grassland over *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

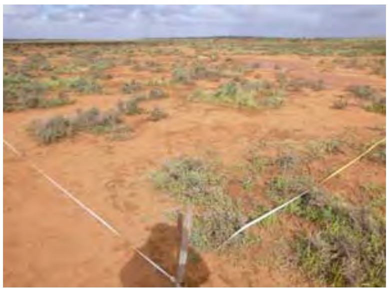
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia tetragonophylla x trachycarpa	2	1	x	x	
Acacia tetragonophylla	2	0.1		x	
Chrysopogon fallax	0.6	0.1	x		
Eremophila maculata subsp. brevifolia	0.5	0.1		x	
Rhagodia eremaea	0.5	0.1	x	x	
Triodia epactia	0.4	55	x	x	
**Cenchrus ciliaris*	0.4	1	x	x	
Chenopodiaceae sp.	0.4	0.1		x	
Trachymene sp.	0.4	0.1	x	x	
Eriachne obtusa	0.2	0.1		x	
Fimbristylis dichotoma	0.2	0.1		x	
Maireana sp.	0.2	0.1		x	
Indigofera colutea	0.1	0.5		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Sesbania cannabina	0.1	0.1		x	
Trianthema turgidifolium	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ078
Location MGA 50 303986 **mE** 7592385 **mN**

2020
Described by: SC, CM
Date: 24/09/2020
2021
Described by: SC, GB
Date: 11/04/2021



Type: Quadrat 50 x 50
Landform: Flat Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Loam, Sand, Soft Clay
Soil Colour: Brown

Vegetation: *Tecticornia indica subsp. leiostachya and Tecticornia indica subsp. bidens low sparse chenopod shrubland over *Cenchrus ciliaris low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Tecticornia indica subsp. bidens	0.5	1	x	x	
Chloris pumilio	0.5	0.1	x		
Tecticornia auriculata	0.5	0.1	x	x	
Tecticornia indica subsp. leiostachya	0.3	8	x	x	
Tecticornia halocnemoides subsp. tenuis	0.3	0.1	x	x	
Maireana tomentosa subsp. tomentosa	0.2	0.1	x		
Sclerolaena recurvicuspis	0.15	0.1	x		
**Aerva javanica*	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Cyperus bulbosus	0.1	0.1		x	
Dissocarpus paradoxus	0.1	0.1	x	x	
Eragrostis falcata	0.1	0.1	x	x	
Ipomoea coptica	0.1	0.1		x	
Maireana ?melanocoma	0.1	0.1		x	
Pluchea longiseta	0.1	0.1	x		
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Sclerolaena diacantha	0.1	0.1	x		
Streptoglossa sp.	0.1	0.1		x	
Swainsona pterostylis	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
**Cenchrus ciliaris*	0.05	1	x	x	
Angianthus milnei	0.05	0.1	x		
Atriplex codonocarpa	0.05	0.1	x		
Boerhavia sp.	0.05	0.1	x	x	
Dactyloctenium radulans	0.05	0.1	x	x	
Indet herb sp.	0.05	0.1	x		
Rhodanthe humboldtiana	0.05	0.1	x		
Streptoglossa liatroides	0.05	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ079
Location MGA 50 304359 **mE** 7588451 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: BD, SW
Date: 10/04/2021

Type: Quadrat 50 x 50
Landform: Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Brown

Vegetation: **Vachellia farnesiana (and Acacia synchronicia) tall open shrubland over Eriachne flaccida and Sporobolus mitchellii low open tussock grassland*

Condition: Poor **Disturbance Type:** Weeds, Grazing, Litter, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
**Vachellia farnesiana*	3	12	x	x	
Acacia synchronicia	2.5	1	x	x	
Chrysopogon fallax	0.7	0.1	x		
Eriachne flaccida	0.3	15	x	x	
Cullen pogonocarpum	0.2	1		x	
Aeschynomene indica	0.2	0.1		x	
Nicotiana sp.	0.2	0.1		x	
Solanum lasiophyllum	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Swainsona pterostylis	0.2	0.1		x	
Sporobolus mitchellii	0.1	6	x	x	
Euphorbia boophthona	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Maireana sp.	0.1	0.1		x	
Centipeda minima subsp. macrocephala	0.05	0.1		x	
Goodenia corynocarpa	0.05	0.1		x	
Lotus cruentus	0.05	0.1		x	
Marsilea sp.	0.05	0.1		x	
Euphorbia trigonosperma	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR080
Location MGA 50 305581 **mE** 7589136 **mN**

2020
Described by: SC, CM
Date: 24/09/2020
2021
Described by: BE, BD
Date: 18/03/2021

Type: Releve 25 x 100
Landform: Dune
Slope: Moderate
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown, Red

Vegetation: *Grevillea stenobotrya tall sparse shrubland over Hakea stenophylla subsp. stenophylla, Acacia stellaticeps and Scaevola sericophylla low open shrubland over Triodia epactia (and Triodia avenoides) low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Grevillea stenobotrya	2.5	9	x	x	
Acacia sericophylla	2	0.1		x	
Hakea stenophylla subsp. stenophylla	1	2	x	x	
Acacia stellaticeps	0.9	2	x	x	
Stylobasium spathulatum	0.8	0.1		x	
Scaevola sericophylla	0.6	5	x	x	
Adriana tomentosa var. tomentosa	0.5	0.1	x	x	
Hibiscus brachychlaenus	0.5	0.1		x	
Crotalaria cunninghamii subsp. sturtii	0.4	0.1	x	x	
Triodia avenoides	0.3	0.1	x	x	
Triodia epactia	0.2	13	x	x	
Heliotropium diversifolium	0.2	0.1		x	
Solanum lasiophyllum	0.2	0.1	x	x	
Bulbostylis barbata	0.1	1		x	
Euphorbia myrtoides	0.1	1		x	
Bonamia erecta	0.1	0.1	x	x	
Ipomoea polymorpha	0.1	0.1		x	
Rhodanthe psammophila	0.1	0.1	x		
Trianthema pilosum	0.1	0.1		x	
Urochloa holosericea subsp. velutina	0.1	0.1	x		
Yakirra australiensis var. australiensis	0.1	0.1	x	x	
Trichodesma zeylanicum var. zeylanicum	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR081
Location MGA 50 306994 **mE** 7588041 **mN**

2020
Described by: MS, BD
Date: 24/09/2020
2021
Described by: SC, GB
Date: 14/04/2021

Type: Releve 50 x 50
Landform: Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Brown

Vegetation: *Acacia tetragonophylla, *Vachellia farnesiana and Acacia synchronicia tall sparse shrubland over Tecticornia auriculata low sparse chenopod shrubland over Eriachne flaccida and Sporobolus mitchellii low open tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Litter, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia tetragonophylla	2	2	x	x	
**Vachellia farnesiana*	2	1.5	x	x	
Acacia synchronicia	2	1	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Enchylaena tomentosa var. tomentosa	1	0.5	x	x	
Eulalia aurea	0.4	0.1		x	
Eriachne flaccida	0.3	15	x	x	
Sporobolus mitchellii	0.2	10	x	x	
Tecticornia indica subsp. leiostachya	0.2	1.5		x	
Cullen cinereum	0.2	0.1		x	
Sesbania cannabina	0.2	0.1		x	
?Calotis plumulifera	0.1	0.1		x	
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	0.1	0.1	x	x	
Alternanthera denticulata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Calotis plumulifera	0.1	0.1	x	x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Cyperus bulbosus	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Goodenia corynocarpa	0.1	0.1		x	
Ipomoea coptica	0.1	0.1		x	
Marsilea sp.	0.1	0.1		x	
Nicotiana sp.	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Scaevola spinescens	0.1	0.1	x	x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Swainsona kingii	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR082
Location MGA 50 336286 **mE** 7588403 **mN**

2020
Described by: SC, CM
Date: 25/09/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Brown

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia epactia and Triodia glabra low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	2.5	12	x	x	
Rhagodia eremaea	1	0.1	x	x	
Acacia synchronicia	0.5	0.1	x	x	
Triodia epactia	0.4	12	x	x	
Maireana planifolia	0.3	0.1		x	
Triodia glabra	0.2	3	x	x	
Maireana sp.	0.2	0.1	x		
Paspalidium clementii	0.2	0.1		x	
Abutilon lepidum	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR083
Location MGA 50 332528 **mE** 7588357 **mN**

2020
Described by: MS, BD
Date: 25/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Clay Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay
Soil Colour: Red

Vegetation: *Acacia synchronicia low sparse shrubland over Triodia glabra low hummock grassland*

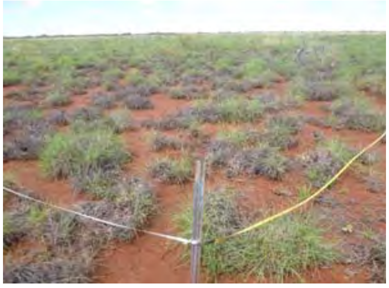
Condition: Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	1	1.5	x	x	
Triodia glabra	0.3	35	x	x	
Aristida contorta	0.2	0.1	x	x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polymeria sp.	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa liatroides	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ084
Location MGA 50 335892 **mE** 7587785 **mN**



2020
Described by: SC, CM
Date: 25/09/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Soft Clay
Soil Colour: Brown

Vegetation: *Acacia synchronicia mid sparse shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: Unknown

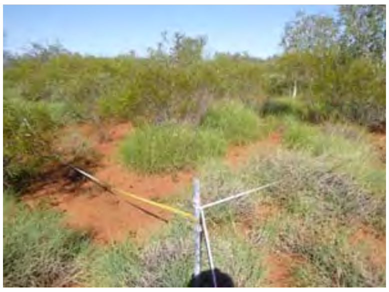
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	2.5	0.1	x		Outside quadrat
Acacia sclerosperma subsp. sclerosperma	1.8	0.1	x	x	
Acacia synchronicia	1.1	1.5	x	x	
Triodia epactia	0.3	69	x	x	
Bonamia pannosa	0.2	0.1		x	
Aristida contorta	0.1	0.5		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Calandrinia polyandra	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ085
Location MGA 50 371764 **mE** 7573644 **mN**

2020
Described by: MS, BD
Date: 25/09/2020
2021
Described by: BE, BD
Date: 29/04/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay
Soil Colour: Brown, Red

Vegetation: *Corymbia candida subsp. candida and Corymbia hamersleyana low woodland over Acacia colei var. colei, Acacia ancistrocarpa and Acacia bivenosa tall to mid open shrubland over Triodia longiceps (and Triodia epactia) low open hummock grassland with Chrysopogon fallax tall sparse tussock grassland.*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	4	8	x	x	
Corymbia hamersleyana	4	1	x	x	Outside quadrat
Acacia tumida var. pilbarensis	3	6	x	x	
Acacia ancistrocarpa	2	5	x	x	
Acacia atkinsiana	1.8	3	x	x	
Acacia bivenosa	1.5	1.5	x	x	
Eremophila longifolia	1.4	0.1	x	x	
Chrysopogon fallax	0.6	12	x	x	
Indigofera monophylla	0.6	0.1		x	
Waltheria indica	0.6	0.1		x	
Triodia longiceps	0.5	20	x	x	
Triodia epactia	0.5	5	x	x	
Abutilon lepidum	0.4	0.1	x	x	
Bonamia erecta	0.4	0.1	x	x	
Euphorbia biconvexa	0.4	0.1		x	
Gossypium australe	0.4	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.4	0.1		x	
Corchorus sp.	0.3	0.1	x		
Goodenia nuda (P4)	0.3	0.1		x	
Isotropis atropurpurea	0.3	0.1	x	x	
Ptilotus auriculifolius	0.3	0.1		x	
Abutilon otocarpum	0.2	0.1		x	
Corchorus tectus	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Scaevola spinescens	0.2	0.1	x	x	
Sida fibulifera	0.2	0.1	x	x	
Portulaca oleracea	0.1	0.5	x	x	
Alternanthera nana	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Euphorbia ?boophthona/tannensis	0.1	0.1	x		
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Iseilema membranaceum	0.1	0.1		x	
Panicum laevinode	0.1	0.1	x		
Paspalidium rarum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Calandrinia sp.	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR086
Location MGA 50 336462 **mE** 7587480 **mN**

2020
Described by: SC, CM
Date: 25/09/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Soft Clay
Soil Colour: Brown

Vegetation: *Acacia synchronicia mid isolated shrubs over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	1.4	0.1	x	x	
Acacia xiphophylla	0.5	0.1		x	
Triodia epactia	0.2	50	x	x	
Euphorbia boophthona	0.2	0.1		x	
Maireana georgei	0.2	0.1	x	x	
Sida spinosa	0.2	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ087
Location MGA 50 375131 **mE** 7572905 **mN**

2020
Described by: MS, BD
Date: 25/09/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sandy Clay Loam
Soil Colour: Red

Vegetation: *Acacia bivenosa and Eremophila cuneifolia mid sparse shrubland over Triodia wiseana and Triodia longiceps low open hummock grassland*

Condition: Very Good **Disturbance Type:** Vehicle tracks, Fauna tracks/scats, Infrastructure
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia bivenosa	1.5	5	x	x	
Eremophila cuneifolia	1.2	1	x	x	
Acacia wanyu	1.2	0.1	x	x	
Acacia synchronicia	1	0.1	x	x	
Triodia wiseana	0.6	5	x	x	
Senna glutinosa subsp. ×luerssenii	0.6	0.1	x	x	
Triodia epactia	0.5	0.1	x	x	
Acacia ancistrocarpa	0.4	0.1		x	
Ptilotus exaltatus	0.4	0.1	x	x	
Indigofera monophylla	0.3	0.1		x	
Panicum decompositum	0.3	0.1		x	
Maireana melanocoma	0.2	0.1	x	x	
Trichodesma zeylanicum var. zeylanicum	0.2	0.1		x	
Triodia longiceps	0.1	5		x	
**Cenchrus ciliaris*	0.1	0.1		x	
**Portulaca pilosa*	0.1	0.1		x	
Abutilon lepidum	0.1	0.1	x	x	
Abutilon otocarpum	0.1	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Bonamia media	0.1	0.1		x	
Chenopodiaceae sp.	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Iseilema eremaeum	0.1	0.1	x	x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca conspicua	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna artemisioides subsp. helmsii	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1	x		
Trianthema triquetrum	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ088		
Location	MGA 50	337693 **mE**	7588184 **mN**

2020
Described by: SC, CM
Date: 25/09/2020
2021
Described by: BD, SW
Date: 16/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Soft Clay
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix and Corymbia sp. low open woodland over Triodia epactia low open hummock grassland*

Condition: Good
Disturbance Type: Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia candida subsp. candida	5	1		x	
Eucalyptus victrix	5	1	x	x	
**Vachellia farnesiana*	3	0.1	x	x	
Acacia ancistrocarpa	1.7	0.1	x	x	
Acacia synchronicia	1.2	0.1	x	x	
Acacia sclerosperma subsp. sclerosperma	1.1	0.1	x	x	
Acacia trachycarpa	0.7	0.1	x	x	
Rhagodia eremaea	0.5	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.3	0.1		x	
Triodia epactia	0.2	25	x	x	
**Cenchrus ciliaris*	0.2	0.1		x	
Abutilon lepidum	0.2	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Ptilotus polystachyus	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Portulaca oleracea	0.1	1		x	
Ipomoea muelleri	0.1	0.5		x	
Aristida contorta	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ089
Location MGA 50 375130 **mE** 7573032 **mN**

2020
Described by: MS, BD
Date: 25/09/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Sandy Clay Loam
Soil Colour: Red

Vegetation: *Acacia xiphophylla tall to mid open shrubland over Eremophila cuneifolia low sparse shrubland over Triodia wiseana low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Vehicle tracks, Fauna tracks/scats, Infrastructure
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	4	12	x	x	
Acacia synchronicia	1.6	0.1	x		
Cynanchum viminale subsp. australe	1.2	0.1	x		
Eremophila cuneifolia	1	1	x	x	
Rhagodia eremaea	0.7	0.1		x	
Triodia wiseana	0.5	9	x	x	
Triodia longiceps	0.3	0.1		x	
Enchylaena tomentosa var. tomentosa	0.2	0.1	x	x	
Maireana melanocoma	0.2	0.1	x	x	
**Portulaca pilosa*	0.1	0.1		x	
Abutilon fraseri subsp. fraseri	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR090
Location MGA 50 303913 **mE** 7588809 **mN**

2020
Described by: SC, CM
Date: 26/09/2020
2021
Described by: BD, SW
Date: 10/04/2021

Type: Releve 50 x 50
Landform: Lake Bed
Slope: Flat
Rock Type: N/A
Soil Type: Medium Clay
Soil Colour: Light Brown

Vegetation: *Acacia synchronicia tall sparse shrubland over Eulalia aurea low sparse tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	3	2	x	x	
Atriplex bunburyana	0.6	0.1	x		
Acacia tetragonophylla	0.5	0.1	x		
Salsola australis	0.4	0.1		x	
Eulalia aurea	0.3	1	x	x	
Atriplex semilunaris	0.3	0.1		x	
Eriachne flaccida	0.3	0.1		x	
Swainsona pterostylis	0.3	0.1		x	
**Cenchrus ciliaris*	0.2	0.1	x	x	
Triodia epactia	0.2	0.1	x	x	
**Cenchrus setiger*	0.1	0.1		x	
Aeschynomene indica	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Maireana sp.	0.1	0.1		x	
Panicum decompositum	0.1	0.1	x	x	
Cynodon sp.	0.05	0.1	x		
Ptilotus ?gomphrenoides	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR091
Location MGA 50 305030 **mE** 7587899 **mN**

2020
Described by: MS, BD
Date: 26/09/2020
2021
Described by: SC, GB
Date: 10/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Triodia epactia low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Litter, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia tetragonophylla	1.4	0.1	x	x	
Acacia synchronicia	1	0.1	x	x	
Triodia epactia	0.5	35	x	x	
Atriplex semilunaris	0.3	0.1	x	x	
**Cenchrus ciliaris*	0.2	0.1		x	
Ptilotus polystachyus	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Indigofera colutea	0.1	1		x	
Indigofera linifolia	0.1	1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trianthema turgidifolium	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ092		
Location	MGA 50	306189 **mE**	7589098 **mN**

2020
Described by: SC, CM
Date: 26/09/2020
2021
Described by: BD, SW
Date: 10/04/2021

Type: Quadrat 50 x 50
Landform: Swale
Slope: Gentle, Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown

Vegetation: *Acacia stellaticeps low open shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Eremophila forrestii subsp. ?viridis (P3)	1.5	0.1	x	x	
Grevillea sp.	1.5	0.1		x	
Seringia nephrosperma	0.7	0.1		x	
Acacia stellaticeps	0.6	15	x	x	
Scaevola spinescens	0.5	0.1	x	x	
Triodia epactia	0.4	50	x	x	
Eriachne helmsii	0.4	0.1		x	
Aristida contorta	0.2	0.1		x	
Bonamia erecta	0.2	0.1		x	
Bonamia alatisemina	0.1	0.1	x		
Panicum decompositum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR093
Location MGA 50 305525 **mE** 7588676 **mN**

2020
Described by: MS, BD
Date: 26/09/2020
2021
Described by: SC, GB
Date: 17/03/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sandy With Clay Crust
Soil Colour: Red

Vegetation: *Acacia stellaticeps mid open shrubland over Triodia epactia low hummock grassland*

Condition: Good
Fire Age: 1-5 years
Disturbance Type: Grazing, Vehicle tracks, Fauna tracks/scats, Litter, Weeds

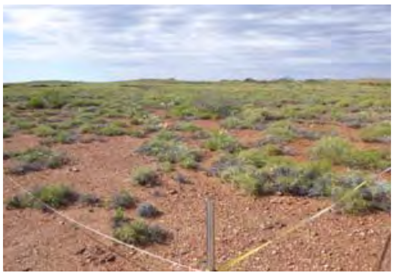
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia stellaticeps	1.2	15	x	x	
Acacia tetragonophylla	0.6	0.1		x	
Triodia epactia	0.4	40	x	x	
Scaevola spinescens	0.4	0.1	x	x	
Eriachne ?helmsii	0.3	0.1		x	
Eriachne obtusa	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1	x	x	
Solanum lasiophyllum	0.3	0.1		x	
Goodenia forrestii	0.2	0.1		x	
Yakirra australiensis var. australiensis	0.2	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cassytha capillaris	0.1	0.1	x	x	
Ptilotus ?polystachyus	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ094
Location MGA 50 399841 **mE** 7562797 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, GB
Date: 2/05/2021



Type: Quadrat 50 x 50
Landform: Plateau of Gently Undulating Area
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia synchronicia, Senna glutinosa subsp. pruinosa and Acacia bivenosa tall isolated shrubs over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	2.5	0.1	x	x	
Senna glutinosa subsp. pruinosa	2.5	0.1	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Maireana melanocoma	0.5	0.1		x	
Ptilotus auriculifolius	0.4	0.5		x	
Triodia wiseana	0.3	35	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.5		x	
Senna notabilis	0.3	0.5		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Hibiscus coatesii	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Triumfetta clementii	0.3	0.1		x	
Euphorbia australis var. subtomentosa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Goodenia forrestii	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Heliotropium crispatum	0.2	0.1		x	
Heliotropium cunninghamii	0.2	0.1	x		
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus calostachyus	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Bulbostylis barbata	0.1	5		x	
Abutilon otocarpum	0.1	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Cullen sp.	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Fimbristylis dichotoma	0.1	0.1		x	
Indet herb sp.	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Sclerolaena densiflora	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia clementii	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Heliotropium heteranthum	0.05	0.1		x	
Heliotropium inexplicitum	0.05	0.1		x	
Lepidium pholidogynum	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Ptilotus aervoides	0.05	0.1		x	
Ptilotus axillaris	0.05	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR095
Location MGA 50 306903 **mE** 7588916 **mN**

2020
Described by: MS, BD
Date: 26/09/2020
2021
Described by: SC, GB
Date: 17/03/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Sand With Clay Crust
Soil Colour: Red

Vegetation: *Acacia tetragonophylla tall sparse shrubland over Triodia epactia low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Litter
Fire Age: 1-5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Acacia tetragonophylla	2.5	1.5	x	x	
Stemodia sp. Onslow (A.A. Mitchell 76/148)	1	0.1	x		
Scaevola spinescens	0.6	0.1	x		
Triodia epactia	0.4	35	x	x	
Trachymene sp.	0.4	0.1	x		
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Cassytha capillaris	0.1	0.1	x	x	
Heliotropium crispatum	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus ?polystachyus	0.1	0.1		x	
Ptilotus ?polystachyus	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port			
Site:	KR096			
Location	MGA 50	401663 **mE**	7561736 **mN**	

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia bivenosa low sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Poor **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats, horses
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
**Vachellia farnesiana*	2	0.1	x	x	
Acacia tumida var. pilbarensis	1.1	0.1		x	
Acacia bivenosa	0.8	2	x	x	
Acacia synchronicia	0.8	0.1	x	x	
Acacia wanyu	0.6	0.1		x	
**Malvastrum americanum*	0.5	0.1		x	
Acacia ancistrocarpa	0.5	0.1	x	x	
Acacia elachantha	0.5	0.1	x	x	
Arivela viscosa	0.5	0.1		x	
Triodia epactia	0.4	15	x	x	
Abutilon sp.	0.4	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.4	0.1		x	
Alysicarpus muelleri	0.4	0.1		x	
Cullen lachnostachys	0.4	0.1		x	
Eriachne sp.	0.3	0.1		x	
Euphorbia biconvexa	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	2		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Chloris pectinata	0.2	0.1		x	
Dysphania rhadinostachya subsp. inflata	0.2	0.1		x	
Hibiscus sturtii var. grandiflorus	0.2	0.1		x	
Indigofera linifolia	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Senna notabilis	0.2	0.1	x	x	
Sporobolus australasicus	0.1	11		x	
**Tribulus terrestris*	0.1	0.1		x	
Abutilon otocarpum	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia muelleriana	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Neptunia dimorphantha	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus gomphrenoides	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Striga squamigera	0.1	0.1		x	
Tephrosia aff. remotiflora	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR097
Location MGA 50 313722 **mE** 7590432 **mN**

2020
Described by: MS, BD
Date: 26/09/2020
2021
Described by: BE, BD
Date: 20/03/2021

Type: Releve 50 x 50
Landform: Island in Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Sandy Clay
Soil Colour: Red

Vegetation: *Tecticornia auriculata and Tecticornia halocnemoides low chenopod shrubland over Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Scaevola spinescens	1.2	0.1	x	x	
Triodia epactia	0.5	25	x	x	
Tecticornia auriculata	0.4	0.5	x	x	
**Cenchrus ciliaris*	0.3	0.1	x	x	
Enchylaena tomentosa var. tomentosa	0.3	0.1		x	
Tecticornia halocnemoides subsp. tenuis	0.3	0.1	x	x	
Euphorbia boophthona	0.2	0.1		x	
Maireana georgei	0.2	0.1	x		
Solanum lasiophyllum	0.2	0.1	x		
Dactyloctenium radulans	0.1	0.5	x	x	
Angianthus milnei	0.1	0.1	x		
Arivela viscosa	0.1	0.1		x	
Atriplex sp.	0.1	0.1		x	
Lepidium pholidogynum	0.1	0.1	x		
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1	x	x	
Salsola australis	0.1	0.1	x		
Streptoglossa liatroides	0.1	0.1	x	x	
Trachymene sp.	0.1	0.1	x	x	
Trianthema triquetrum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Bulbostylis barbata	0.05	0.1		x	
Cyperus bulbosus	0.05	0.1		x	
Fabaceae sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ098		
Location	MGA 50	404466 **mE**	7561321 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, GB
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia xiphophylla tall sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Weeds
Fire Age: >10 years

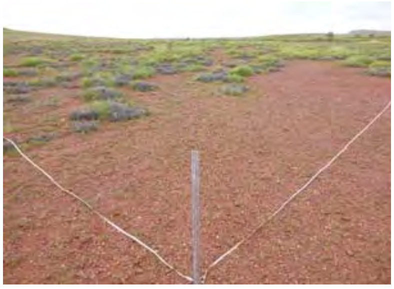
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	2	x	x	
Acacia ancistrocarpa	1.5	0.1	x	x	
Acacia synchronicia	1.3	0.1	x	x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.8	0.1		x	
Maireana melanocoma	0.6	0.1	x	x	
Pterocaulon sphacelatum	0.6	0.1	x	x	
Enchylaena tomentosa var. tomentosa	0.5	0.1		x	
Goodenia forrestii	0.5	0.1		x	
Maireana georgei	0.5	0.1	x		
Triodia epactia	0.4	28	x	x	
Pluchea dunlopii	0.4	0.1	x		
Trichodesma zeylanicum var. zeylanicum	0.4	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	1		x	
**Malvastrum americanum*	0.3	0.1	x	x	
Abutilon lepidum	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1	x	x	
Sida fibulifera	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Streptoglossa sp.	0.3	0.1		x	
Trianthema triquetrum	0.2	4	x	x	
Alternanthera nana	0.2	0.1		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.2	0.1		x	
Corchorus tridens	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Fimbristylis dichotoma	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1	x	x	
Senna notabilis	0.2	0.1	x	x	
Solanum horridum	0.2	0.1	x	x	
Triumfetta clementii	0.2	0.1		x	
**Echinochloa colona*	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Lepidium pholidogynum	0.1	0.1	x	x	
Portulaca oleracea	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Cynodon prostratus	0.05	3		x	
Ptilotus aervoides	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ099
Location MGA 50 400491 **mE** 7562339 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 2/05/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa, Acacia synchronicia and Acacia bivenosa mid to low isolated shrubs over Triodia epactia (and Triodia wiseana) low open hummock grassland*

Condition: Good **Disturbance Type:** Fauna tracks/scats, Hydrological change, cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia ancistrocarpa	1.1	0.1	x		
Acacia synchronicia	1	0.1	x		
Triodia epactia	0.5	29	x	x	
Triodia wiseana	0.5	0.5	x	x	
Acacia bivenosa	0.5	0.1	x		
Eriachne pulchella subsp. pulchella	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus exaltatus	0.2	0.1		x	
Streptoglossa decurrens	0.2	0.1		x	
Bonamia pilbarensis	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Maireana sp.	0.1	0.1	x	x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1	x	x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Sclerolaena densiflora	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1	x	x	
Streptoglossa sp.	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Cynodon prostratus	0.05	0.5		x	
Goodenia forrestii	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KR100
Location	MGA 50 404930 **mE** 7561290 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type:	Releve 50 x 50
Landform:	Banded Ironstone Formation Ridge
Slope:	Moderate, Flat
Rock Type:	Ironstone
Soil Type:	Clay, Loam
Soil Colour:	Brown

Vegetation: *Acacia bivenosa low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Hakea chordophylla	4	0.1	x	x	
Ficus brachypoda	2	0.1	x	x	
Acacia synchronicia	1.5	0.1	x	x	
Acacia ancistrocarpa	1	0.1	x	x	
Acacia bivenosa	0.8	1	x	x	
Tribulus suberosus	0.8	0.1	x	x	
Acacia adsurgens	0.6	0.1		x	
Senna glutinosa subsp. pruinosa	0.6	0.1		x	
Capparis spinosa subsp. nummularia	0.5	0.1	x	x	
Cymbopogon ambiguus	0.5	0.1	x	x	
Eremophila fraseri subsp. fraseri	0.5	0.1	x	x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	0.1		x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	0.5	0.1	x	x	
Triodia wiseana	0.4	12	x	x	
Senna glutinosa subsp. glutinosa	0.4	0.1		x	
Sida spinosa	0.4	0.1	x	x	
Indigofera monophylla	0.3	0.1		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Arivela viscosa	0.2	0.1		x	
Cyperus hesperius	0.2	0.1	x	x	
Eriachne mucronata	0.2	0.1	x	x	
Hibiscus coatesii	0.2	0.1		x	
Nicotiana benthamiana	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Streptoglossa decurrens	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus parviflorus	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enchylaena tomentosa var. tomentosa	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia careyi	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus burtonii	0.1	0.1		x	
Hibiscus goldsworthii	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1	x	x	
Sclerolaena sp.	0.1	0.1		x	
Senna venusta	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Cynodon prostratus	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR101
Location MGA 50 400648 **mE** 7562356 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Ironstone Hillock
Slope: Moderate
Rock Type: Ironstone
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera mid isolated shrubs over Triodia wiseana low hummock grassland*

Condition: Good **Disturbance Type:** Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	1.5	0.1	x	x	
Senna venusta	1	0.1		x	
Triodia wiseana	0.5	31	x	x	
Acacia bivenosa	0.5	0.1	x	x	
Corchorus parviflorus	0.5	0.1	x	x	
Hibiscus coatesii	0.5	0.1		x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 730(	0.4	0.1		x	
Abutilon lepidum	0.3	0.1		x	
Cymbopogon ambiguus	0.3	0.1		x	
Nicotiana benthamiana	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Eriachne mucronata	0.2	0.1		x	
Indigofera monophylla	0.2	0.1		x	
Sclerolaena densiflora	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cyperus hesperius	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus appendiculatus	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Senna artemisioides subsp. oligophylla	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1	x	x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ102
Location MGA 50 407326 **mE** 7561290 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, GB
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Loamy Clay
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana and Corymbia candida low open woodland over Acacia colei var. colei and Gossypium robinsonii tall sparse shrubland over Stylobasium spathulatum, Senna notabilis and *Malvastrum americanum low sparse shrubland*

Condition: Poor **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: Unknown

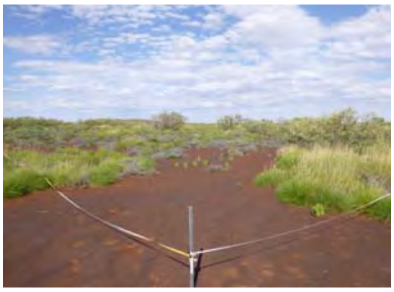
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	7	5	x	x	
Corymbia hamersleyana	7	1	x	x	
Gossypium robinsonii	3	2	x	x	
Acacia tumida var. pilbarensis	2.5	12	x	x	
Acacia elachantha	2.5	0.1	x	x	
Grevillea wickhamii subsp. hispidula	2	0.1	x	x	
Acacia bivenosa	1.5	0.1	x	x	
**Malvastrum americanum*	1	7	x	x	
Gossypium australe	1	3	x	x	
**Vachellia farnesiana*	1	0.1		x	
Eulalia aurea	1	0.1	x	x	
Stylobasium spathulatum	0.8	1.5	x	x	
Waltheria indica	0.7	18		x	
Abutilon otocarpum	0.6	0.1		x	
Indigofera monophylla	0.6	0.1	x	x	
Abutilon macrum	0.5	0.1		x	
Arivela viscosa	0.5	0.1		x	
Corchorus laniflorus	0.5	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.5	0.1	x	x	
Cullen lachnostachys	0.5	0.1	x		
Jasminum didymum subsp. lineare	0.5	0.1	x	x	
Rhynchosia minima	0.5	0.1	x	x	
Sida rohlenae subsp. rohlenae	0.5	0.1	x	x	
Senna notabilis	0.4	5	x	x	
**Setaria verticillata*	0.4	0.1		x	
Enteropogon ramosus	0.4	0.1		x	
Euphorbia boophthona	0.4	0.1	x	x	
Indigofera colutea	0.4	0.1	x	x	
Phyllanthus maderaspatensis	0.4	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.4	0.1		x	
Tephrosia supina	0.4	0.1		x	
Ipomoea muelleri	0.3	3	x	x	
Alternanthera nana	0.3	2	x	x	
Polymeria ambigua	0.3	1		x	
**Euphorbia hirta*	0.3	0.1		x	
Chloris pectinata	0.3	0.1		x	
Corchorus crozophorifolius	0.3	0.1	x		
Eragrostis tenellula	0.3	0.1		x	
Euphorbia biconvexa	0.3	0.1		x	
Indigofera linifolia	0.3	0.1	x	x	
Paspalidium rarum	0.3	0.1		x	
Ptilotus appendiculatus	0.3	0.1	x	x	
Triodia epactia	0.3	0.1	x	x	
Vigna lanceolata var. lanceolata	0.3	0.1		x	
Eragrostis cumingii	0.2	15	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1	x	x	
Iseilema membranaceum	0.2	0.1		x	
Portulaca oleracea	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1	x	x	
Sporobolus australasicus	0.2	0.1	x	x	
Streptoglossa sp.	0.2	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp.	0.1	0.1	x		
Boerhavia ?burbidgeana	0.1	0.1		x	
Centipeda minima subsp. macrocephala	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1	x	x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Duperreya commixta	0.1	0.1	x		
Euphorbia australis var. subtomentosa	0.1	0.1	x		
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium ovalifolium	0.1	0.1	x		
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1	x	x	
Sida echinocarpa	0.1	0.1	x	x	
Sida fibulifera	0.1	0.1	x		
Goodenia triodiophila	0.01	0.1	x		
Ptilotus axillaris	0.01	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ103
Location MGA 50 403073 **mE** 7561501 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: BE, GB
Date: 1/05/2021



Type: Quadrat 50 x 50
Landform: Gravely Plain, Very Low Plateau
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana and Acacia bivenosa mid open shrubland over Triodia epactia and Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Hydrological change, Vehicle tracks
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	4	10	x	x	
Grevillea wickhamii subsp. macrodonta	2	0.1	x	x	
Triodia epactia	1.2	20	x	x	
Acacia tumida var. pilbarensis	1.2	0.1	x	x	
Acacia bivenosa	1.1	1	x	x	
Senna sericea	1	0.1	x		
Triodia wiseana	0.6	15	x	x	
Arivela viscosa	0.5	0.1		x	
Senna notabilis	0.5	0.1	x	x	
Hibiscus sturtii var. grandiflorus	0.4	0.1		x	
Ptilotus auriculifolius	0.4	0.1		x	
Ptilotus calostachyus	0.4	0.1		x	
Ptilotus fusiformis	0.4	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.4	0.1		x	
Triumfetta clementii	0.4	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Aristida holathera var. holathera	0.3	0.1		x	
Corchorus tectus	0.3	0.1		x	
Cullen graveolens	0.3	0.1		x	
Dysphania kalpari	0.3	0.1		x	
Euphorbia biconvexa	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Gossypium australe	0.3	0.1		x	
Paspalidium basicladum	0.3	0.1		x	
Ptilotus astrolasius	0.3	0.1		x	
Ptilotus clementii	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1		x	
Sporobolus australasicus	0.3	0.1		x	
Cucumis variabilis	0.2	0.1		x	
Cullen pogonocarpum	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Hibiscus sturtii var. platychlamys	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus appendiculatus	0.1	0.1		x	
Ptilotus gomphrenoides	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Corchorus sidoides subsp. vermicularis	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR104
Location MGA 50 407930 **mE** 7561433 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, BD
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Foot Slope (of distant calcrete hills to the Sout
Slope: Flat
Rock Type: Granite, Ironstone, Calcrete
Soil Type: Loam, Soft Clay
Soil Colour: Light Brown

Vegetation: *Acacia synchronicia and Acacia bivenosa tall sparse shrubland over Senna glutinosa subsp. x luerssenii low sparse shrubland over Triodia wiseana and Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	2.5	5	x	x	
Acacia bivenosa	2.2	2	x	x	
Acacia inaequilatera	1.9	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.8	1.5	x	x	
Triodia wiseana	0.4	15	x	x	
Triodia epactia	0.4	8	x	x	
Senna artemisioides subsp. oligophylla	0.4	0.1		x	
Corchorus laniflorus	0.3	0.5		x	
Arivela viscosa	0.3	0.1		x	
Enchylaena tomentosa var. tomentosa	0.3	0.1		x	
Euphorbia tannensis subsp. eremophila	0.3	0.1		x	
Streptoglossa sp.	0.3	0.1		x	
**Malvastrum americanum*	0.2	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Swainsona maccullochiana	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Trianthema triquetrum	0.1	1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia ?vaccaria	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Sclerolaena densiflora	0.1	0.1	x	x	
Senna notabilis	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Cynodon prostratus	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	
Ptilotus aervoides	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ105
Location MGA 50 406651 **mE** 7561337 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Low Chert Outcropping
Slope: Gentle
Rock Type: ?Chert
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eremophila fraseri subsp. fraseri mid open shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia inaequilatera	1.9	0.1	x	x	
Eremophila fraseri subsp. fraseri	1.5	15	x	x	
Senna glutinosa subsp. pruinosa	1.5	0.1		x	
Acacia bivenosa	1.2	0.1	x	x	
Acacia synchronicia	1	0.1	x	x	
Senna glutinosa subsp. glutinosa	0.8	0.1	x	x	
Triodia wiseana	0.5	35	x	x	
Corchorus parviflorus	0.5	0.1	x	x	
Triodia epactia	0.5	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Bonamia ?pilbarensis	0.2	0.1		x	
Heliotropium pachyphyllum	0.2	0.1		x	
Indigofera monophylla	0.2	0.1	x	x	
Rhynchosia minima	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1	x	x	
Tribulus platypterus	0.2	0.1		x	
Arivela viscosa	0.1	0.1	x	x	
Bonamia pilbarensis	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Gossypium australe	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Striga squamigera	0.1	0.1	x	x	
Tribulus hirsutus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Triumfetta clementii	0.05	0.1		x	
Cynodon prostratus	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KR106
Location	MGA 50 408143 **mE** 7561150 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, BD
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Foot Slope (of distant calcrete hills to the Sout
Slope: Gentle
Rock Type: Ironstone, Calcrete
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia xiphophylla tall sparse shrubland over Acacia bivenosa and Acacia synchronicia low sparse shrubland over Triodia wiseana and Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	2.8	6	x	x	
Senna glutinosa subsp. ×luerssenii	1.5	0.1	x	x	
Acacia bivenosa	0.8	1	x	x	
Acacia synchronicia	0.8	1	x	x	
Triodia wiseana	0.4	20	x	x	
Triodia epactia	0.4	1	x		
Cassytha capillaris	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Dolichocarpa crouchiana	0.2	0.1		x	
Ptilotus obovatus var. obovatus	0.2	0.1		x	
Stackhousia ?muricata subsp. annual (W. R. Barker	0.2	0.1		x	
Dysphania sphaerosperma	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Lawrencia densiflora	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Arivela viscosa	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Streptoglossa sp.	0.05	0.1		x	
Trianthema triquetrum	0.05	0.1		x	
Chenopodiaceae sp.	0.02	0.1		x	
Solanum diversiflorum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ107
Location MGA 50 406473 **mE** 7561158 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Rocky Ironstone Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia synchronicia mid sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia synchronicia	1.2	0.5	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Triodia epactia	0.5	20	x	x	
Streptoglossa decurrens	0.3	0.1		x	
Triumfetta clementii	0.3	0.1		x	
Chenopodiaceae sp.	0.2	0.1		x	
Corchorus laniflorus	0.2	0.1	x		
Eriachne pulchella subsp. pulchella	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1	x	x	
Bulbostylis barbata	0.1	0.5		x	
Trianthema triquetrum	0.1	0.5		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Pterocaulon sp.	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Sclerolaena sp.	0.1	0.1	x		
Solanum cleistogamum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Cynodon prostratus	0.05	1		x	
Calandrinia sp.	0.05	0.1		x	
Heliotropium heteranthum	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Sida fibulifera	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR108
Location MGA 50 408176 **mE** 7560973 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, GB
Date: 23/03/2021

Type: Releve 50 x 50
Landform: Low Hilltop
Slope: Gentle
Rock Type: Calcrete
Soil Type: Clay Loam
Soil Colour: Brown

Vegetation: *Eucalyptus leucophloia subsp. leucophloia low isolated trees over Acacia pyrifolia var. pyrifolia and Stylobasium spathulatum mid to low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus leucophloia subsp. leucophloia	3.5	0.1	x	x	
Acacia pyrifolia var. pyrifolia	1.5	1	x		
Cymbopogon sp.	0.6	0.1		x	
Stylobasium spathulatum	0.5	1	x	x	
Senna glutinosa subsp. glutinosa	0.4	0.1		x	
Triodia wiseana	0.3	15	x	x	
Corchorus laniflorus	0.3	1		x	
Cucumis variabilis	0.3	0.1		x	
Enneapogon caerulescens	0.3	0.1	x	x	
Hibiscus sturtii var. campylochlamys	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Ptilotus obovatus var. obovatus	0.3	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.3	0.1	x	x	
Tribulus suberosus	0.3	0.1	x	x	
Aristida contorta	0.2	0.1	x		
Eragrostis eriopoda	0.2	0.1		x	
Eriachne mucronata	0.2	0.1	x	x	
Indigofera rugosa	0.2	0.1	x	x	
Ptilotus clementii	0.2	0.1		x	
Tribulus hirsutus	0.2	0.1		x	
Hibiscus coatesii	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Dysphania sp.	0.05	0.1		x	
Salsola australis	0.05	0.1		x	
Dolichocarpa crouchiana	0.03	0.1		x	
Euphorbia australis var. subtomentosa	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR109
Location MGA 50 406862 **mE** 7561421 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type: Releve 50 x 50
Landform: Ironstone Hill
Slope: Moderate
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eremophila fraseri subsp. fraseri (and Acacia bivenosa) low open shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	6	0.1	x	x	
Corymbia candida subsp. candida	3	0.1	x	x	
Ficus brachypoda	2.5	0.1	x		Outside quadrat
Gossypium robinsonii	2	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.2	0.1	x	x	
Senna glutinosa subsp. glutinosa	1.2	0.1	x	x	
Acacia synchronicia	1	0.1	x		
Eremophila fraseri subsp. fraseri	0.8	9	x	x	
Grevillea wickhamii subsp. indet	0.8	0.1		x	
Jasminum didymum subsp. lineare	0.8	0.1	x	x	
Arivela viscosa	0.7	0.1		x	
Senna glutinosa subsp. pruinosa	0.7	0.1	x	x	
Triodia wiseana	0.5	40	x	x	
Acacia bivenosa	0.5	1	x	x	
Cymbopogon ambiguus	0.5	0.1	x	x	
Dichanthium sericeum subsp. humilius	0.4	0.1		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Eriachne mucronata	0.3	0.1	x	x	
Fabaceae sp.	0.3	0.1		x	
Paspalidium tabulatum	0.3	0.1		x	
Boerhavia coccinea	0.2	0.1	x	x	
Bulbostylis barbata	0.2	0.1		x	
Corchorus parviflorus	0.2	0.1	x	x	
Cyperus cunninghamii subsp. cunninghamii	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Polycarpaea longiflora	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Tribulus platypterus	0.2	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Gossypium australe	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Indigofera monophylla	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Sida spinosa	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Waltheria indica	0.1	0.1		x	
Cynodon prostratus	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR110
Location MGA 50 408373 **mE** 7561051 **mN**

2020
Described by: SC, BD
Date: 27/09/2020
2021
Described by: BE, GB
Date: 23/03/2021

Type: Releve 50 x 50
Landform: Foot Hills
Slope: Gentle
Rock Type: Ironstone, Calcrete
Soil Type: Clay Loam
Soil Colour: Dark Brown

Vegetation: *Acacia inaequilatera tall sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	2.2	1.5	x	x	
Hakea lorea subsp. lorea	2	0.1	x	x	
Stylobasium spathulatum	0.8	0.1	x	x	
Corchorus laniflorus	0.7	0.5		x	
Tephrosia uniovulata	0.5	0.1		x	
Triodia wiseana	0.4	15	x	x	
Eriachne mucronata	0.3	0.1		x	
Heliotropium pachyphyllum	0.3	0.1		x	
Acacia bivenosa	0.2	0.1		x	
Indigofera monophylla	0.2	0.1		x	
Ptilotus incanus	0.2	0.1	x		
Senna notabilis	0.1	0.1		x	
Tribulus hirsutus	0.05	0.5		x	
Bonamia media	0.05	0.1	x	x	
Ptilotus aervoides	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ111
Location MGA 50 409102 **mE** 7561542 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: SC, BD
Date: 23/03/2021

Type: Quadrat 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown

Vegetation: *Eucalyptus victrix mid open woodland over Acacia pyrifolia mid sparse shrubland over Triodia epactia low sparse hummock grassland*

Condition: Poor **Disturbance Type:** Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	15	1	x	x	
Acacia colei var. colei	1.5	0.1	x		
Acacia pyrifolia var. pyrifolia	1.3	1	x	x	
Gossypium robinsonii	1.2	0.1	x	x	
Corchorus tectus	0.8	0.1	x	x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 730(	0.6	0.1	x	x	
Triumfetta chaetocarpa	0.6	0.1	x	x	
Triodia epactia	0.5	2	x	x	
Arivela viscosa	0.5	0.1	x	x	
Senna notabilis	0.5	0.1	x	x	
Amaranthus undulatus	0.3	0.1		x	
Indigofera colutea	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Euphorbia careyi	0.2	0.1	x	x	
Goodenia microptera	0.2	0.1		x	
Acacia ancistrocarpa	0.1	0.1	x		
Afrohybanthus aurantiacus	0.1	0.1		x	
Boerhavia sp.	0.1	0.1	x		
Bonamia pilbarensis	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1	x	x	
Hibiscus sturtii var. grandiflorus	0.1	0.1	x	x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Poaceae sp.	0.1	0.1	x		
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Sida fibulifera	0.1	0.1	x	x	
Sida rohlenae subsp. rohlenae	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1	x	x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Trachymene sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus sp.	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR112
Location MGA 50 412346 **mE** 7561759 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: N/A
Date: N/A

Type: Releve 50 x 50
Landform: Low Rocky Outcropping
Slope: Moderate
Rock Type: Ironstone, Calcrete
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia xiphophylla mid sparse shrubland over Triodia wiseana low sparse hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	1.5	1	x		
Acacia bivenosa	0.5	0.1	x		
Acacia synchronicia	0.5	0.1	x		
Eucalyptus leucophloia subsp. leucophloia	0.5	0.1	x		
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x		
Triodia wiseana	0.3	6	x		
Eriachne mucronata	0.2	0.1	x		
Maireana georgei	0.1	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR113
Location MGA 50 409049 **mE** 7561461 **mN**

2020
Described by: MS, CM
Date: 27/09/2020
2021
Described by: BD, SC
Date: 23/03/2021

Type: Releve 50 x 50
Landform: Flood Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eucalyptus camaldulensis and Eucalyptus victrix mid woodland over Acacia tumida var. pilbarensis (and Gossypium robinsonii) mid shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle, Weeds
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus camaldulensis	15	10	x	x	
Eucalyptus victrix	15	10	x	x	
Acacia tumida var. pilbarensis	3	31	x	x	
**Vachellia farnesiana*	2	0.1		x	
Acacia colei var. colei	2	0.1	x	x	
Indigofera sp. Bungaroo Creek (S. van Leeuwen 430:	2	0.1	x	x	
Aristida inaequiglumis	1.5	0.1		x	
Triumfetta chaetocarpa	1.4	0.1	x	x	
Gossypium robinsonii	1.2	2	x	x	
Duperreya commixta	1.2	0.1		x	
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	1	0.1		x	
Cymbopogon ambiguus	0.9	0.1	x	x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	0.9	0.1	x	x	
Grevillea pyramidalis subsp. leucadendron	0.7	0.1		x	
Arivela viscosa	0.6	2	x	x	
Gossypium australe	0.6	0.1	x	x	
Jasminum didymum subsp. lineare	0.6	0.1		x	
Triodia epactia	0.5	12	x	x	
Amaranthus undulatus	0.5	0.1		x	
Iseilema eremaeum	0.5	0.1		x	
Stylobasium spathulatum	0.5	0.1		x	
Urochloa piligera	0.5	0.1		x	
Waltheria indica	0.5	0.1		x	
Abutilon amplum	0.4	0.1		x	
Dichanthium fecundum	0.4	0.1		x	
**Cenchrus ciliaris*	0.3	0.1		x	
**Cenchrus setiger*	0.3	0.1		x	
**Setaria verticillata*	0.3	0.1		x	
Corchorus tridens	0.3	0.1		x	
Digitaria ctenantha	0.3	0.1		x	
Eriachne pulchella subsp. dominii	0.3	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.3	0.1		x	
**Malvastrum americanum*	0.2	5		x	
Notoleptopus decaisnei var. decaisnei	0.2	5		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1	x		
Acacia pyrifolia var. pyrifolia	0.2	0.1	x	x	
Alysicarpus muelleri	0.2	0.1		x	
Bonamia pannosa	0.2	0.1		x	
Corchorus tectus	0.2	0.1	x	x	
Dysphania melanocarpa forma leucocarpa	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Eragrostis tenellula	0.2	0.1		x	
Eriachne tenuiculmis	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Euphorbia trigonosperma	0.2	0.1		x	
Pterocaulon serrulatum var. velutinum	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Sida arsiniata	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Tephrosia supina	0.2	0.1		x	
Themeda triandra	0.2	0.1		x	
Triumfetta sp.	0.2	0.1		x	
Vigna lanceolata var. lanceolata	0.2	0.1		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Boerhavia sp.	0.1	0.1	x	x	
Bonamia pilbarensis	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Euphorbia careyi	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Hibiscus sturtii var. platychlamys	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1	x	x	
Indigofera colutea	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polymeria ambigua	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Rhynchosia minima	0.1	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.1	0.1	x	x	
Senna notabilis	0.1	0.1	x	x	
Sida fibulifera	0.1	0.1	x	x	
Sida rohlenae subsp. rohlenae	0.1	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR114
Location MGA 50 412415 **mE** 7561540 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: BE, GB
Date: 23/03/2021

Type: Releve 50 x 50
Landform: Flood Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay Loam
Soil Colour: Brown, Red

Vegetation: *Acacia synchronicia and Acacia bivenosa tall open shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Weeds
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Corymbia hamersleyana	5	0.1	x		Outside quadrat
Acacia synchronicia	3.5	7	x	x	
Acacia bivenosa	2.2	7	x	x	
Stylobasium spathulatum	2	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.7	0.1	x	x	
Amaranthus cuspidifolius	0.7	0.1		x	
Acacia ancistrocarpa	0.6	0.1	x	x	
Euphorbia trigonosperma	0.5	0.1		x	
Ptilotus clementii	0.5	0.1		x	
Senna notabilis	0.5	0.1		x	
Triodia epactia	0.4	20	x	x	
**Malvastrum americanum*	0.4	0.1		x	
Gossypium australe	0.4	0.1		x	
Melhania oblongifolia	0.4	0.1		x	
Sida arsiniata	0.4	0.1		x	
Solanum diversiflorum	0.4	0.1	x	x	
Notoleptopus decaisnei var. decaisnei	0.3	0.5		x	
Aristida contorta	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Boerhavia coccinea	0.3	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Dactyloctenium radulans	0.3	0.1		x	
Hibiscus sturtii var. ?grandiflorus	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Sporobolus australasicus	0.2	0.5		x	
Enchylaena tomentosa var. tomentosa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Indigofera colutea	0.2	0.1		x	
Trianthema triquetrum	0.2	0.1		x	
Dysphania sp.	0.1	0.5		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus leptocladus	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Euphorbia vaccaria var. vaccaria	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	
Heliotropium heteranthum	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR115
Location MGA 50 409757 **mE** 7561625 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: SC, GB
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Low Quartz/Ironstone Outcropping
Slope: Moderate
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: <1year

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia inaequilatera	2	1.5	x	x	
Clerodendrum floribundum var. angustifolium	2	0.1	x	x	
Capparis spinosa subsp. nummularia	1.5	0.1	x	x	
Gossypium robinsonii	1.2	0.1	x	x	
Grevillea pyramidalis subsp. leucadendron	1	0.1	x		
Tinospora smilacina	1	0.1		x	
Jasminum didymum subsp. lineare	0.8	0.1	x	x	
Acacia ancistrocarpa	0.7	0.1	x	x	
Acacia pyrifolia var. pyrifolia	0.7	0.1		x	
Waltheria indica	0.7	0.1		x	
Corchorus sidoides subsp. vermicularis	0.6	0.1	x	x	
Senna glutinosa subsp. glutinosa	0.6	0.1	x	x	
Triumfetta maconochieana	0.6	0.1	x	x	
Triodia wiseana	0.5	11	x	x	
Arivela viscosa	0.5	0.1	x	x	
Corchorus laniflorus	0.5	0.1		x	
Cymbopogon ambiguus	0.5	0.1	x	x	
Eremophila longifolia	0.5	0.1		x	
Eriachne mucronata	0.5	0.1	x	x	
Gossypium australe	0.5	0.1	x	x	
Hibiscus leptocladus	0.5	0.1	x		
Isotropis atropurpurea	0.5	0.1		x	
Ptilotus clementii	0.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	0.5	0.1	x	x	
Acacia atkinsiana	0.4	0.1		x	
Acacia synchronicia	0.4	0.1	x	x	
Amaranthus cuspidifolius	0.3	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Cyperus cunninghamii subsp. cunninghamii	0.3	0.1	x	x	
Hakea lorea subsp. lorea	0.3	0.1		x	
Hibiscus sturtii var. campylochlamys	0.3	0.1		x	
Indigofera colutea	0.3	0.1		x	
Paraneurachne muelleri	0.3	0.1		x	
Ptilotus astrolasius	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Hibiscus goldsworthii	0.2	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Polycarpaea longiflora	0.2	0.1	x	x	
Senna notabilis	0.2	0.1	x	x	
Solanum cleistogamum	0.2	0.1	x	x	
Triodia epactia	0.2	0.1		x	
Gomphrena cunninghamii	0.15	0.1	x	x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bonamia pilbarensis	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1	x	x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1	x	x	
Dysphania kalpari	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1	x	x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia careyi	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1	x	x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Perotis rara	0.1	0.1	x	x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Rhodanthe margarethae	0.1	0.1		x	
Sida spinosa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1	x	x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR116
Location MGA 50 413090 **mE** 7561624 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: BE, BD
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay Loam
Soil Colour: Brown

Vegetation: *Acacia xiphophylla, Acacia synchronicia and Acacia bivenosa tall to mid open shrubland over Triodia epactia low sparse hummock grassland*

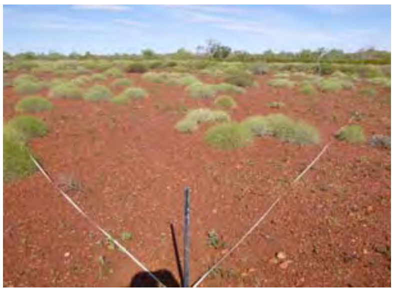
Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST			**Year Recorded**		
Taxon	**Height (cm)**	**Cover (%)**	**2020**	**2021**	**Notes**
Acacia synchronicia	3	1	x	x	
Acacia xiphophylla	2.5	11	x	x	
Acacia bivenosa	1.5	1	x		
Maireana planifolia	0.7	0.1		x	
Senna artemisioides subsp. helmsii x oligophylla	0.5	0.1		x	
Hibiscus burtonii	0.4	0.1		x	
Triodia epactia	0.3	3	x	x	
Enteropogon ramosus	0.3	0.1		x	
Enchylaena tomentosa var. tomentosa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Sclerolaena densiflora	0.2	0.1		x	
**Malvastrum americanum*	0.1	0.1		x	
Abutilon sp.	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus laniflorus	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Ptilotus aervoides	0.05	0.1	x		
Tribulus astrocarpus	0.02	0.5		x	
Heliotropium heteranthum	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ117
Location MGA 50 410047 **mE** 7561664 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: SC, GB
Date: 30/04/2021



Type: Quadrat 50 x 50
Landform: Stony Plain
Slope: Gentle
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia wanyu (with mixed Acacia spp.) mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia wanyu	1.5	2	x	x	
Acacia ancistrocarpa	1.5	0.1	x	x	
Acacia atkinsiana	1.5	0.1	x		Outside quadrat
Acacia bivenosa	1.5	0.1	x	x	
Corymbia hamersleyana	1.5	0.1	x		Outside quadrat
Acacia synchronicia	1.3	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.2	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	1.2	0.1	x	x	
Senna glutinosa subsp. glutinosa	0.8	0.1		x	
Triodia wiseana	0.5	11	x	x	
Ptilotus calostachyus	0.4	0.1		x	
Triodia epactia	0.3	0.1		x	
Arivela viscosa	0.2	0.1		x	
Corchorus sidoides subsp. vermicularis	0.2	0.1		x	
Ptilotus clementii	0.2	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus ?astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Ptilotus aervoides	0.02	1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR118
Location MGA 50 414158 **mE** 7561542 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: BE, GB
Date: 22/03/2021

Type: Releve 50 x 50
Landform: Flood Plain Shoulder
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia synchronicia and Stylobasium spathulatum tall sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	5	5	x	x	
Hakea lorea subsp. lorea	3	0.1	x	x	
Acacia synchronicia	2.5	3	x	x	
Acacia ancistrocarpa	2.5	0.1	x	x	
Senna glutinosa subsp. glutinosa	2.5	0.1	x	x	
Stylobasium spathulatum	2.1	1	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Acacia pyrifolia var. pyrifolia	1.8	0.1	x		
Jasminum didymum subsp. lineare	1.6	0.1		x	
Acacia colei var. colei	1.5	0.1		x	
Acacia ligulata x sclerosperma subsp. sclerosperma	1.3	0.1	x		
Senna artemisioides subsp. oligophylla	1.2	0.1	x	x	
Acacia sclerosperma subsp. sclerosperma	1	0.1		x	
Gossypium robinsonii	1	0.1		x	
Corchorus laniflorus	0.6	0.1		x	
Scaevola spinescens	0.6	0.1		x	
Arivela viscosa	0.5	0.5		x	
**Setaria verticillata*	0.5	0.1		x	
Eragrostis ?dielsii	0.5	0.1		x	
Senna notabilis	0.5	0.1		x	
Sida sp.	0.5	0.1		x	
Triodia epactia	0.4	13	x	x	
Abutilon cunninghamii	0.4	0.1		x	
Abutilon otocarpum	0.4	0.1		x	
Euphorbia biconvexa	0.4	0.1		x	
Sida arsiniata	0.4	0.1		x	
**Cenchrus setiger*	0.3	0.1		x	
Boerhavia coccinea	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.3	0.1		x	
Gossypium australe	0.3	0.1	x	x	
Indigofera linifolia	0.3	0.1		x	
Melhania oblongifolia	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Sida rohlenae subsp. rohlenae	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Dysphania sp.	0.2	0.5		x	
Corchorus tridens	0.2	0.1		x	
Eragrostis cumingii	0.2	0.1		x	
Indigofera colutea	0.2	0.1		x	
Perotis rara	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Alternanthera nana	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR119
Location MGA 50 410365 **mE** 7561502 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: BE, BD
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Broad Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Acacia atkinsiana (with Acacia ancistrocarpa and Acacia wanyu) tall shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 1-5 years

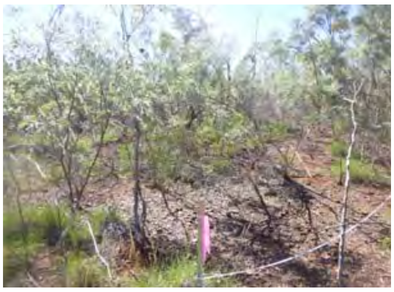
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	7	2	x	x	
Corymbia candida subsp. candida	5	0.1	x		
Acacia atkinsiana	3	50	x	x	
Acacia ancistrocarpa	3	1	x	x	
Acacia bivenosa	3	0.1	x	x	
Acacia synchronicia	3	0.1	x	x	
Hakea lorea subsp. lorea	3	0.1		x	
**Vachellia farnesiana*	2	0.1	x	x	
Acacia inaequilatera	2	0.1	x	x	
Jasminum didymum subsp. lineare	2	0.1	x	x	
Stylobasium spathulatum	2	0.1	x	x	
Acacia wanyu	1.8	0.1	x	x	
Eremophila forrestii subsp. forrestii	1.5	1	x		
Senna artemisioides subsp. oligophylla	1.5	0.1	x	x	
Scaevola spinescens	0.8	0.1	x		
Ptilotus obovatus var. obovatus	0.6	0.1		x	
Triumfetta appendiculata	0.6	0.1		x	
Triodia epactia	0.5	28	x	x	
Euphorbia tannensis subsp. eremophila	0.5	0.1	x	x	
Indigofera boviperda subsp. boviperda	0.5	0.1	x	x	
Rhynchosia minima	0.5	0.1		x	
Triumfetta clementii	0.4	1	x	x	
Abutilon fraseri subsp. fraseri	0.4	0.1		x	
Arivela viscosa	0.4	0.1		x	
Chrysopogon fallax	0.4	0.1		x	
Sida rohlenae subsp. rohlenae	0.3	0.1		x	
Trachymene oleracea subsp. oleracea	0.3	0.1		x	
Eragrostis cumingii	0.2	0.1		x	
Euphorbia biconvexa	0.2	0.1		x	
Gomphrena cunninghamii	0.2	0.1		x	
Ptilotus calostachyus	0.2	0.1		x	
**Malvastrum americanum*	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus tectus	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia ?vaccaria	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Melhania oblongifolia	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Pterocaulon sphaeranthoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Alternanthera nana	0.05	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ120		
Location	MGA 50	414373 **mE**	7561462 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: BE, GB
Date: 23/03/2021



Type:	Quadrat	25 x 100
Landform:	Drainage	
Slope:	Flat	
Rock Type:	Ironstone	
Soil Type:	Clay Loam	
Soil Colour:	Brown	

Vegetation: *Eucalyptus victrix mid woodland over Melaleuca glomerata (and Melaleuca bracteata) tall to mid shrubland over Triodia epactia low sparse hummock grassland with Cyperus vaginatus tall sparse tussock grassland*

Condition: Very Good | **Disturbance Type:** Fauna tracks/scats, Weeds
Fire Age: >10 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eucalyptus victrix	10	11	x	x	
Acacia colei var. indet	3	0.1		x	
Gossypium robinsonii	3	0.1	x	x	
Melaleuca glomerata	2.1	25	x	x	
Acacia bivenosa	1.5	0.1	x	x	
Acacia synchronicia	1.5	0.1	x	x	
**Setaria verticillata*	1.4	0.1		x	
Jasminum didymum subsp. lineare	1.4	0.1		x	
Melaleuca bracteata	1.2	1.5	x	x	
Acacia pyrifolia var. pyrifolia	1	0.1	x	x	
Stylobasium spathulatum	0.8	0.1	x		
Amaranthus undulatus	0.6	0.1		x	
Euphorbia trigonosperma	0.6	0.1		x	
Cyperus vaginatus	0.5	0.5	x	x	
Corchorus crozophorifolius	0.5	0.1		x	
Corchorus laniflorus	0.5	0.1		x	
Corchorus tridens	0.5	0.1		x	
Hibiscus brachychlaenus	0.5	0.1		x	
Triumfetta clementii	0.5	0.1		x	
Melhania oblongifolia	0.4	0.1		x	
Solanum diversiflorum	0.4	0.1		x	
Boerhavia coccinea	0.3	0.5		x	
Abutilon amplum	0.3	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Euphorbia tannensis subsp. eremophila	0.3	0.1	x	x	
Ptilotus clementii	0.3	0.1		x	
Sida fibulifera	0.3	0.1		x	
Sporobolus australasicus	0.3	0.1		x	
Triodia epactia	0.2	3	x	x	
Arivela viscosa	0.2	0.5	x	x	
Notoleptopus decaisnei var. decaisnei	0.2	0.5		x	
Abutilon lepidum	0.2	0.1		x	
Eragrostis dielsii	0.2	0.1		x	
Indigofera colutea	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Bonamia pilbarensis	0.1	0.1	x	x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Indet herb sp.	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Swainsona maccullochiana	0.1	0.1		x	
Tephrosia sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR121
Location MGA 50 411502 **mE** 7561503 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: SC, BD
Date: 23/03/2021

Type: Releve 50 x 50
Landform: Ironstone Stoney Plain
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa, Acacia atkinsiana, Acacia synchronicia, Acacia wanyu and Acacia bivenosa mid to low sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	2	0.1	x	x	
Corymbia hamersleyana	2	0.1	x	x	
Acacia ancistrocarpa	1.5	2	x	x	
Acacia atkinsiana	1.5	2	x	x	
Hakea lorea subsp. lorea	1.5	0.1		x	
Acacia wanyu	1.4	1	x	x	
Acacia synchronicia	1	2	x	x	
Acacia bivenosa	1	1	x	x	
Triodia epactia	0.5	11	x	x	
Phyllanthus maderaspatensis	0.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Senna glutinosa subsp. pruinosa	0.5	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x	x	
Sida arsiniata	0.4	0.1		x	
Hibiscus sturtii var. campylochlamys	0.3	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Pterocaulon serrulatum var. velutinum	0.2	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Eriachne tenuiculmis	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gossypium australe	0.1	0.1		x	
Gossypium robinsonii	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1	x	x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trachymene sp.	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR122
Location MGA 50 414404 **mE** 7561012 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: SC, GB
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia ligulata x sclerosperma subsp. sclerosperma Sens. Lat., Acacia ligulata, Acacia synchronicia, Acacia bivenosa and Acacia trachycarpa tall closed shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Weeds
Fire Age: > 15 years

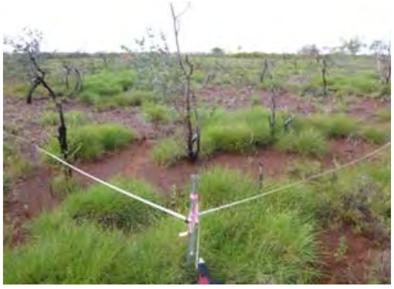
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	7	5	x	x	
Acacia bivenosa	5	2	x	x	
Acacia ligulata x sclerosperma subsp. sclerosperma S	4	45	x	x	
Acacia synchronicia	4	10	x	x	
Acacia trachycarpa	4	1	x	x	
Acacia cowleana	4	0.1	x	x	
Hakea lorea subsp. lorea	4	0.1		x	
Acacia ligulata	3	20	x	x	
**Vachellia farnesiana*	2.5	0.1	x	x	
Acacia ancistrocarpa	2.5	0.1		x	
Stylobasium spathulatum	1.8	0.1		x	
Jasminum didymum subsp. lineare	0.8	0.1	x	x	
Corchorus laniflorus	0.6	0.1		x	
Cymbopogon ambiguus	0.6	0.1		x	
**Aerva javanica*	0.5	0.1		x	
Abutilon otocarpum	0.5	0.1		x	
Adriana tomentosa var. tomentosa	0.5	0.1		x	
Amaranthus cuspidifolius	0.5	0.1		x	
Cyperus vaginatus	0.5	0.1		x	
Duperreya commixta	0.5	0.1		x	
Enchylaena tomentosa var. tomentosa	0.5	0.1		x	
Gossypium australe	0.5	0.1	x	x	
Ptilotus astrolasius	0.5	0.1		x	
Scaevola spinescens	0.5	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Triodia epactia	0.4	11	x	x	
Achyranthes aspera	0.4	0.1		x	
Eremophila longifolia	0.4	0.1		x	
Euphorbia tannensis subsp. eremophila	0.4	0.1		x	
Melhania oblongifolia	0.4	0.1		x	
Phyllanthus maderaspatensis	0.4	0.1		x	
Solanum diversiflorum	0.4	0.1		x	
Solanum phlomoides	0.4	0.1		x	
**Cenchrus ciliaris*	0.3	0.1		x	
**Cenchrus setiger*	0.3	0.1		x	
**Malvastrum americanum*	0.3	0.1		x	
Abutilon cunninghamii	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Alternanthera nana	0.2	0.1		x	
Cucumis variabilis	0.2	0.1		x	
Dysphania rhadinostachya subsp. inflata	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Sida spinosa	0.2	0.1		x	
**Tribulus terrestris*	0.1	0.1		x	
Acrachne racemosa	0.1	0.1		x	
Boerhavia burbidgeana	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Lysiana casuarinae	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Pterocaulon sp.	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KQ123
Location	MGA 50 415974 **mE** 7559459 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: BE, BD
Date: 30/04/2021



Type:	Quadrat 50 x 50
Landform:	Rocky Ironstone Plain
Slope:	Flat
Rock Type:	Ironstone
Soil Type:	Sandy Clay Loam
Soil Colour:	Brown, Red

Vegetation: *Acacia inaequilatera tall sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Hakea lorea subsp. lorea	2.1	0.1	x	x	
Acacia inaequilatera	2	2	x	x	
Acacia ancistrocarpa	1	0.1	x	x	
Acacia atkinsiana	1	0.1	x		
Ptilotus calostachyus	0.6	0.1		x	
Triodia epactia	0.5	15	x	x	
Acacia synchronicia	0.5	0.1		x	
Arivela viscosa	0.5	0.1		x	
Acacia bivenosa	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Sida arenicola	0.3	0.1		x	
Waltheria indica	0.3	0.1		x	
Ptilotus astrolasius	0.2	6		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	1		x	
Aristida contorta	0.2	0.1		x	
Aristida holathera var. holathera	0.2	0.1		x	
Corymbia hamersleyana	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Gossypium australe	0.2	0.1		x	
Tribulus macrocarpus	0.2	0.1		x	
Bulbostylis barbata	0.1	3		x	
Abutilon sp.	0.1	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Corchorus laniflorus	0.1	0.1		x	
Corchorus tectus	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Hibiscus sturtii var. platychlamys	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Sida sp.	0.1	0.1	x	x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Euphorbia ?vaccaria	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR124
Location MGA 50 415799 **mE** 7559925 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: SC, GB
Date: 30/04/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low woodland over Acacia ligulata x sclerosperma subsp. sclerosperma Sens. Lat., Acacia ligulata, Acacia synchronicia, Stylobasium spathulatum, Acacia bivenosa and Acacia trachycarpa closed shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	7	11	x	x	
Acacia bivenosa	5	3	x	x	
Acacia ligulata x sclerosperma subsp. sclerosperma S	4	45	x	x	
Acacia synchronicia	4	10	x	x	
Acacia trachycarpa	4	1	x	x	
Acacia cowleana	4	0.1	x	x	
Acacia ligulata	3	20	x	x	
Senna glutinosa subsp. glutinosa	2.5	0.5		x	
Clerodendrum floribundum var. angustifolium	2.5	0.1		x	
Gossypium robinsonii	2.5	0.1	x	x	
Acacia pyrifolia var. pyrifolia	2.3	0.1		x	
**Vachellia farnesiana*	2	0.1	x	x	
Hakea lorea subsp. lorea	2	0.1	x	x	
Stylobasium spathulatum	1.2	8	x	x	
Abutilon cunninghamii	1.2	0.1		x	
Duperreya commixta	1.2	0.1		x	
Abutilon lepidum	0.8	0.1		x	
Cucumis variabilis	0.8	0.1		x	
Cymbopogon ambiguus	0.8	0.1		x	
Jasminum didymum subsp. lineare	0.8	0.1	x	x	
Senna artemisioides subsp. helmsii	0.8	0.1	x	x	
Abutilon macrum	0.7	0.1		x	
Chrysopogon fallax	0.7	0.1		x	
Grevillea pyramidalis subsp. leucadendron	0.7	0.1		x	
Solanum phlomoides	0.7	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.6	0.1		x	
Euphorbia tannensis subsp. eremophila	0.6	0.1		x	
**Malvastrum americanum*	0.5	2		x	
Arivela viscosa	0.5	0.1		x	
Corchorus lasiocarpus subsp. parvus	0.5	0.1		x	
Cyperus vaginatus	0.5	0.1		x	
Eremophila longifolia	0.5	0.1		x	
Gossypium australe	0.5	0.1	x	x	
Indigofera monophylla	0.5	0.1		x	
Scaevola spinescens	0.5	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Triodia epactia	0.4	11	x	x	
Notoleptopus decaisnei var. decaisnei	0.4	0.5		x	
Ptilotus astrolasius	0.4	0.5		x	
**Aerva javanica*	0.4	0.1		x	
Corchorus laniflorus	0.4	0.1	x	x	
Dipteracanthus australasicus subsp. australasicus	0.4	0.1		x	
Indigofera trita subsp. trita	0.4	0.1		x	
Solanum diversiflorum	0.4	0.1		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Dysphania rhadinostachya subsp. inflata	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Enchylaena tomentosa var. tomentosa	0.3	0.1		x	
Euphorbia trigonosperma	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Sida arsiniata	0.3	0.1		x	
Sida fibulifera	0.3	0.1		x	
Melhania oblongifolia	0.2	0.5	x	x	
**Setaria verticillata*	0.2	0.1		x	
?Commicarpus australis	0.2	0.1		x	
Euphorbia australis var. subtomentosa	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.2	0.1		x	
Sida spinosa	0.2	0.1		x	
Tephrosia rosea var. Fortescue creeks (M.I.H. Brooke	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
**Tribulus terrestris*	0.1	0.1		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Lysiana casuarinae	0.1	0.1	x	x	
Perotis rara	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ125
Location MGA 50 416480 **mE** 7558432 **mN**

2020
Described by: MS, CM
Date: 28/09/2020
2021
Described by: SC, GB
Date: 30/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Acacia ancistrocarpa and Acacia inaequilatera mid sparse shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

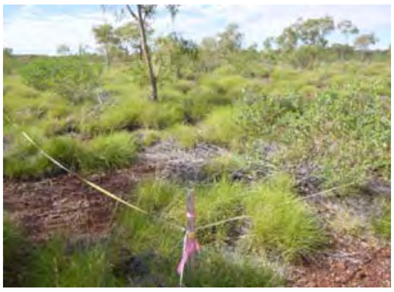
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	10	3	x	x	
Acacia inaequilatera	2	2	x	x	
Cucumis variabilis	1.5	0.1		x	
Acacia ancistrocarpa	1.2	3	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Abutilon lepidum	0.8	0.1		x	
**Setaria verticillata*	0.7	0.1		x	
**Vachellia farnesiana*	0.6	0.1		x	
Abutilon macrum	0.6	0.1		x	
Triodia epactia	0.5	45	x	x	
Gossypium australe	0.5	0.5		x	
Arivela viscosa	0.5	0.1	x	x	
Jasminum didymum subsp. lineare	0.5	0.1		x	
Phyllanthus maderaspatensis	0.5	0.1		x	
Corchorus laniflorus	0.4	0.1		x	
Digitaria ctenantha	0.4	0.1		x	
Dysphania rhadinostachya subsp. inflata	0.4	0.1		x	
Ptilotus auriculifolius	0.4	0.1		x	
Ptilotus fusiformis	0.4	0.1		x	
Sida echinocarpa	0.4	0.1		x	
Waltheria indica	0.4	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	1		x	
Melhania oblongifolia	0.3	0.5	x		
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Corchorus lasiocarpus subsp. parvus	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Paraneurachne muelleri	0.3	0.1		x	
Ptilotus astrolasius	0.3	0.1		x	
**Malvastrum americanum*	0.2	0.1		x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Euphorbia australis var. subtomentosa	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Indigofera linifolia	0.2	0.1		x	
Ipomoea muelleri	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sida arsiniata	0.2	0.1		x	
Sida sp. L (A.M. Ashby 4202)	0.2	0.1		x	
Sida spinosa	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Alternanthera nana	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Boerhavia repleta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ126		
Location	MGA 50	415758 **mE**	7560381 **mN**

2020
Described by: SC, BD
Date: 28/09/2020
2021
Described by: BE, BD
Date: 30/04/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone/calcrete
Soil Type: Clay Loam
Soil Colour: Dark Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia synchronicia tall sparse shrubland over Acacia bivenosa low sparse shrubland and Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Codonocarpus cotinifolius	6	0.1	x	x	
Corymbia hamersleyana	4	5	x	x	
Hakea lorea subsp. lorea	3	0.1	x	x	
Acacia inaequilatera	2.2	0.1	x	x	
Acacia synchronicia	2	1	x	x	
Gossypium robinsonii	2	0.1		x	
Senna glutinosa subsp. glutinosa	2	0.1	x	x	
Acacia bivenosa	0.5	4	x	x	
Triodia epactia	0.4	25	x	x	
Triodia wiseana	0.4	20		x	
Gossypium australe	0.3	0.1		x	
Cucumis variabilis	0.2	0.1		x	
Gomphrena cunninghamii	0.2	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus laniflorus	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia ?vaccaria	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Indigofera sp.	0.1	0.1		x	
Jasminum didymum subsp. lineare	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al.	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	
Tribulus macrocarpus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ127
Location MGA 50 405884 **mE** 7561099 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: BE, GB
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Stony Ironstone Plain (in broad drain)
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa, Acacia adsurgens and Acacia synchronicia tall sparse shrubland over Acacia bivenosa mid sparse shrubland over Triodia epactia low hummock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia adsurgens	3	1.5	x	x	
Acacia ancistrocarpa	2.5	2	x	x	
Acacia elachantha	2.5	0.1	x	x	
**Vachellia farnesiana*	2	2	x	x	
Acacia synchronicia	2	0.5	x	x	
Hakea lorea subsp. lorea	1.8	0.1	x	x	
Acacia bivenosa	1.5	5	x	x	
**Malvastrum americanum*	0.6	1		x	
Euphorbia boophthona	0.6	0.1		x	
Senna artemisioides subsp. oligophylla	0.6	0.1	x	x	
Triodia epactia	0.5	35	x	x	
Cullen graveolens	0.4	0.1	x	x	
Cyperus iria	0.4	0.1		x	
Phyllanthus maderaspatensis	0.4	0.1		x	
Rhynchosia minima	0.4	0.1	x	x	
Sida echinocarpa	0.4	0.1		x	
Urochloa occidentalis var. occidentalis	0.4	0.1		x	
Alternanthera denticulata	0.3	0.1		x	
Alternanthera nana	0.3	0.1		x	
Bonamia erecta	0.3	0.1		x	
Corchorus sidoides subsp. vermicularis	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Eragrostis tenellula	0.3	0.1		x	
Euphorbia australis var. subtomentosa	0.3	0.1		x	
Hibiscus sturtii var. grandiflorus	0.3	0.1		x	
Indigofera linifolia	0.3	0.1		x	
Ipomoea coptica	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Sida fibulifera	0.3	0.1	x	x	
Streptoglossa sp.	0.3	0.1		x	
Boerhavia coccinea	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1	x	x	
Fimbristylis dichotoma	0.2	0.1		x	
Gomphrena cunninghamii	0.2	0.1		x	
Mimulus gracilis	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1		x	
Sclerolaena densiflora	0.2	0.1		x	
Senna notabilis	0.2	0.1	x	x	
Solanum sp.	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1	x	x	
Cynodon prostratus	0.1	1		x	
Abutilon lepidum	0.1	0.1		x	
Malvaceae sp.	0.1	0.1	x	x	
Marsilea hirsuta	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus gomphrenoides	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Centipeda minima subsp. macrocephala	0.05	0.1		x	
Trigastrotheca molluginea	0.05	0.1		x	
Heliotropium heteranthum	0.03	0.1		x	
Polycarpaea holtzei	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ128
Location MGA 50 403848 **mE** 7561453 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: SC, BD
Date: 1/05/2021

Type: Quadrat 50 x 50
Landform: Drainage Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia colei var. colei (and Acacia atkinsiana) tall closed shrubland over Triodia epactia low closed hummock grassland over Afrohybanthus aurantiacus low sparse forbland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 15 years

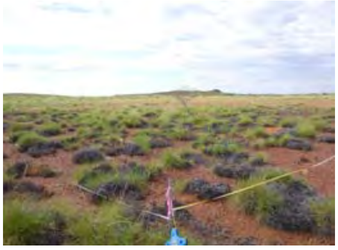
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	6	3	x	x	
Acacia tumida var. pilbarensis	4	80		x	
Acacia atkinsiana	3	1	x	x	
Acacia ancistrocarpa	2	0.1	x	x	
Gossypium robinsonii	2	0.1	x	x	
Acacia wanyu	1.3	0.1		x	
Acacia bivenosa	1.2	0.1	x	x	
Eremophila longifolia	1	0.1	x		
Seringia exastia	1	0.1	x	x	
Grevillea wickhamii subsp. hispidula	0.8	0.1		x	
Triodia epactia	0.5	75	x	x	
**Malvastrum americanum*	0.5	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.5	0.1		x	
Cucumis variabilis	0.5	0.1	x	x	
Indigofera monophylla	0.5	0.1	x	x	
Jasminum didymum subsp. lineare	0.5	0.1	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.5	0.1	x	x	
**Setaria verticillata*	0.4	0.1		x	
Chrysopogon fallax	0.4	0.1		x	
Waltheria indica	0.4	0.1		x	
Afrohybanthus aurantiacus	0.3	10	x	x	
Corchorus tectus	0.3	0.1		x	
Eriachne mucronata	0.3	0.1	x		
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.3	0.1	x	x	
Triumfetta clementii	0.3	0.1		x	
Alternanthera nana	0.2	0.1	x	x	
Bonamia erecta	0.2	0.1	x	x	
Corchorus lasiocarpus subsp. lasiocarpus	0.2	0.1		x	
Cullen martinii	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Notoleptopus decaisnei var. decaisnei	0.2	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1	x	x	
Senna notabilis	0.2	0.1		x	
Sida sp.	0.2	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon macrum	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.05	0.1	x	x	
Isotropis atropurpurea	0.05	0.1	x	x	
Ptilotus axillaris	0.05	0.1	x	x	
Rhynchosia minima	0.05	0.1	x	x	
Sporobolus australasicus	0.05	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ129
Location MGA 50 400166 **mE** 7562575 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: BE, GB
Date: 2/05/2021



Type: Quadrat 50 x 50
Landform: Ironstone Plain
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera and Acacia synchronicia mid sparse shrubland over Triodia wiseana and Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia ancistrocarpa	2	0.1	x	x	
Acacia synchronicia	1.9	1.5	x		
Senna glutinosa subsp. pruinosa	1.8	0.1	x		
Acacia inaequilatera	1.5	1	x		
Acacia bivenosa	1.5	0.1	x	x	
Senna glutinosa subsp. glutinosa	1.5	0.1	x		
Grevillea wickhamii subsp. indet	1.1	0.1	x		
Acacia tumida var. pilbarensis	0.8	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.7	0.1		x	
Triodia epactia	0.5	10	x	x	
Triodia wiseana	0.5	2	x	x	
Pimelea ammocharis	0.5	0.1	x		
Ptilotus auriculifolius	0.5	0.1		x	
Abutilon lepidum	0.4	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.4	0.1		x	
Indigofera monophylla	0.4	0.1		x	
Sida arsiniata	0.4	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1		x	
Acacia adsurgens	0.3	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.3	0.1		x	
Corchorus sidoides subsp. vermicularis	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.3	0.1		x	
Goodenia forrestii	0.3	0.1		x	
Hibiscus coatesii	0.3	0.1		x	
Hibiscus leptocladus	0.3	0.1		x	
Ptilotus astrolasius	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Dysphania kalpari	0.2	0.1		x	
Fimbristylis dichotoma	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Ptilotus axillaris	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Tephrosia clementii	0.2	0.1		x	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 1160	0.2	0.1		x	
Bulbostylis barbata	0.1	7		x	
Boerhavia coccinea	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Peripleura virgata	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Solanum horridum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Calandrinia ptychosperma	0.05	0.1		x	
Cullen sp.	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Dolichocarpa crouchiana	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus gomphrenoides	0.05	0.1		x	
Sclerolaena densiflora	0.05	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.05	0.1		x	
Trianthema triquetrum	0.05	0.1		x	
Tribulus hirsutus	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.5		x	
Dactyloctenium radulans	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ130
Location MGA 50 399257 **mE** 7563072 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: SC, BD
Date: 2/05/2021

Type: Quadrat 25 x 100
Landform: Low Quartz Rise
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Clay Loam
Soil Colour: Brown

Vegetation: *Acacia xiphophylla and Acacia bivenosa tall sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	2.5	1.5	x	x	
Senna glutinosa subsp. pruinosa	2.1	0.1	x	x	
Acacia bivenosa	1.5	1	x	x	
Acacia synchronicia	1	0.1	x	x	
Grevillea wickhamii subsp. hispidula	0.7	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	0.6	0.1	x	x	
Hibiscus coatesii	0.5	0.1		x	
Triodia wiseana	0.3	20	x	x	
Ptilotus fusiformis	0.3	0.1		x	
Senna glutinosa subsp. glutinosa	0.3	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Cassytha capillaris	0.2	0.1		x	
Cullen martinii	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Maireana melanocoma	0.2	0.1	x	x	
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Pterocaulon sp.	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus gomphrenoides	0.1	0.1		x	
Sclerolaena densiflora	0.1	0.1		x	
Sida arsiniata	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Tephrosia clementii	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR131
Location MGA 50 333068 **mE** 7589209 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Sandy Clay
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall open shrubland over Acacia bivenosa mid sparse shrubland over Triodia epactia (and Triodia glabra) low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	2.5	11	x	x	
Acacia bivenosa	1.8	2	x	x	
Acacia synchronicia	1.4	0.1	x	x	
Acacia tetragonophylla	1.2	0.1	x	x	
Triodia epactia	0.5	40	x	x	
Triodia glabra	0.4	2	x	x	
Abutilon lepidum	0.1	0.1		x	
Abutilon otocarpum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Calandrinia polyandra	0.1	0.1		x	
Corchorus ?sidoides subsp. vermicularis	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Sida arsiniata	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa liatroides	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ132
Location MGA 50 336059 **mE** 7589735 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: SC, GB
Date: 16/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Loamy Clay Sand
Soil Colour: Brown, Red

Vegetation: *Acacia sclerosperma subsp. sclerosperma low sparse shrubland over Triodia glabra (and Triodia epactia) low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	3	0.1		x	
Hakea lorea subsp. lorea	1.6	0.1	x	x	Outside quadrat
Acacia sclerosperma subsp. sclerosperma	0.6	1	x	x	
Acacia inaequilatera	0.5	0.1	x	x	Outside quadrat
Acacia synchronicia	0.5	0.1	x	x	
Rhagodia eremaea	0.4	0.1	x		
Triodia glabra	0.3	40	x	x	
Triodia epactia	0.3	1	x	x	
Aristida holathera var. holathera	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR133
Location MGA 50 334208 **mE** 7589745 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall isolated shrubs over Acacia bivenosa and Acacia synchronicia low sparse shrubland over Triodia glabra low hummock grassland over Portulaca oleracea low isolated herbs*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	2.5	0.5		x	
Acacia bivenosa	0.8	0.5	x	x	
Acacia synchronicia	0.5	0.5		x	
Triodia glabra	0.4	31	x	x	
Amaranthus cuspidifolius	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Portulaca oleracea	0.1	0.5		x	
**Cenchrus ciliaris*	0.1	0.1		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Chloris ?pectinata	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Lepidium phlebopetalum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Senna artemisioides subsp. oligophylla	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR134
Location MGA 50 335715 **mE** 7589243 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Releve 25 x 100
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia ancistrocarpa (and Acacia sclerosperma subsp. sclerosperma) tall shrubland over Triodia glabra and Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

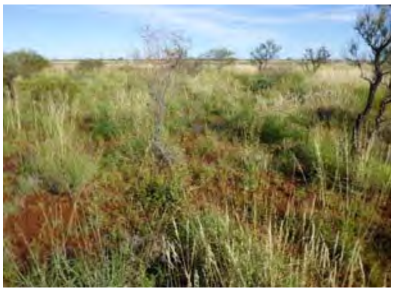
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	6.5	1	x	x	
Acacia ancistrocarpa	3	50	x	x	
Hakea lorea subsp. lorea	3	0.1		x	
Acacia trachycarpa	2.2	0.1	x		
Acacia sclerosperma subsp. sclerosperma	2	1	x	x	
Acacia tetragonophylla	2	0.1	x		
Acacia ligulata	1.6	0.1	x		
Acacia inaequilatera	1	0.1	x	x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.5	0.1	x	x	
Acacia synchronicia	0.5	0.1	x	x	
Sida spinosa	0.5	0.1	x	x	
Triodia glabra	0.4	25	x		
Triodia epactia	0.3	25	x	x	
Cyperus iria	0.2	0.1		x	
Goodenia nuda (P4)	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1	x	x	
Paspalidium clementii	0.2	0.1		x	
Phyllanthus erwinii	0.1	0.5	x	x	
Solanum cleistogamum	0.1	0.5	x	x	
Abutilon lepidum	0.1	0.1	x	x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Blumea tenella	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia polyandra	0.1	0.1		x	
Corchorus tectus	0.1	0.1	x		
Cullen leucochaites	0.1	0.1	x	x	
Cullen pogonocarpum	0.1	0.1	x		
Eriachne aristidea	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1	x		
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia microptera	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna artemisioides subsp. oligophylla	0.1	0.1	x		
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1	x	x	
Streptoglossa decurrens	0.1	0.1		x	
Ipomoea muelleri	0.05	0.5	x	x	
Abutilon otocarpum	0.05	0.1	x		
Polymeria ambigua	0.05	0.1	x		
Sporobolus australasicus	0.05	0.1	x	x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR135		
Location	MGA 50	334133 **mE**	7589571 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021



Type: Releve 50 x 50
Landform: Claypan
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Brown, Orange

Vegetation: *Hakea lorea subsp. lorea, Acacia ancistrocarpa and Acacia tetragonophylla tall to mid sparse shrubland over Triodia epactia low sparse hummock grassland with Eulalia aurea and Chrysopogon fallax low open tussock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Hakea lorea subsp. lorea	2.5	2	x	x	
Acacia ancistrocarpa	2	6	x	x	
Acacia tetragonophylla	1.8	1	x	x	
Acacia bivenosa	1.6	0.1	x	x	
Chrysopogon fallax	0.6	2		x	
Acacia synchronicia	0.6	0.1	x	x	
Acacia trachycarpa	0.6	0.1	x	x	
Triodia epactia	0.5	5	x	x	
Eulalia aurea	0.5	2		x	
Triodia glabra	0.5	0.1	x	x	
Eriachne flaccida	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Goodenia nuda (P4)	0.2	0.1		x	
Hibiscus sturtii var. grandiflorus	0.2	0.1		x	
Sida fibulifera	0.2	0.1	x	x	
Solanum cleistogamum	0.2	0.1		x	
Solanum lasiophyllum	0.2	0.1	x	x	
Abutilon otocarpum	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Chloris ?pectinata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna artemisioides subsp. oligophylla	0.1	0.1	x	x	
Senna notabilis	0.1	0.1	x	x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1	x	x	
Streptoglossa liatroides	0.1	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR136
Location MGA 50 337857 **mE** 7585622 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Gently Undulating
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown

Vegetation: *Acacia synchronicia and Acacia bivenosa mid sparse shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia synchronicia	1.5	1	x	x	
Acacia bivenosa	1.1	1	x	x	
Triodia epactia	0.5	31	x	x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium crispatum	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR137
Location MGA 50 334396 **mE** 7587453 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: BD, SW
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Clay Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Triodia glabra low open hummock grassland*

Condition: Good **Disturbance Type:** Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Hakea lorea subsp. lorea	1.8	0.1	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Acacia synchronicia	1.2	0.1	x	x	
Senna artemisioides subsp. oligophylla	1	0.1	x	x	
Triodia glabra	0.5	15	x	x	
Acacia inaequilatera	0.3	0.1	x	x	
Euphorbia boophthona	0.2	0.1		x	
Hibiscus sturtii var. campylochlamys	0.2	0.1		x	
Abutilon sp.	0.1	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Aristida contorta	0.1	0.1	x	x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Calandrinia polyandra	0.1	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Malvaceae sp.	0.1	0.1	x		
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Sida arsiniata	0.1	0.1		x	
Sida platycalyx	0.1	0.1	x		
Sporobolus australasicus	0.1	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Streptoglossa decurrens	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR138
Location MGA 50 337513 **mE** 7586030 **mN**

2020
Described by: SC, BD
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 25 x 100
Landform: Incised Channel
Slope: Gentle, Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Eucalyptus victrix low open woodland over Melaleuca glomerata, Acacia trachycarpa and *Vachellia farnesiana tall to mid closed shrubland over Triodia epactia low sparse hummock grassland with Cyperus vaginatus low sparse sedgeland*

Condition: Very Good **Disturbance Type:** Weeds
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Eucalyptus camaldulensis	8	1		x	
Eucalyptus victrix	7	8	x	x	
Melaleuca glomerata	5	75	x	x	
Melaleuca argentea	5	0.1	x	x	
Acacia trachycarpa	2	12	x	x	
Melaleuca linophylla	2	0.1	x	x	
**Vachellia farnesiana*	1.5	2	x	x	
Acacia ancistrocarpa	1.5	0.1	x	x	
Cyperus vaginatus	0.5	1	x	x	
Triodia epactia	0.4	5	x	x	
Urochloa piligera	0.4	1		x	
Eulalia aurea	0.4	0.1	x	x	
Phyllanthus maderaspatensis	0.4	0.1	x	x	
**Cenchrus ciliaris*	0.3	0.1	x	x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1	x	x	
Afrohybanthus aurantiacus	0.3	0.1	x	x	
Eragrostis cumingii	0.3	0.1	x	x	
Rhynchosia minima	0.3	0.1	x	x	
Sesbania cannabina	0.3	0.1	x	x	
Euphorbia boophthona	0.2	0.1	x	x	
Pterocaulon sphacelatum	0.2	0.1	x	x	
Sporobolus australasicus	0.2	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.15	0.1	x	x	
**Echinochloa colona*	0.1	0.1	x	x	
**Malvastrum americanum*	0.1	0.1	x	x	
**Setaria verticillata*	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Crotalaria cunninghamii subsp. sturtii	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Eragrostis tenellula	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Streptoglossa liatroides	0.1	0.1		x	
Euphorbia trigonosperma	0.05	0.1	x	x	
Senna notabilis	0.05	0.1	x	x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR139
Location MGA 50 336595 **mE** 7586423 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: SC, GB
Date: 4/11/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla mid shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	1.5	35	x	x	
Triodia epactia	0.5	19	x	x	
Acacia synchronicia	0.5	0.1	x	x	
Rhagodia eremaea	0.5	0.1		x	
Abutilon ?sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Maireana planifolia	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Sida spinosa	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR140		
Location	MGA 50	351979 **mE**	7585209 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Red

Vegetation: *Corymbia candida subsp. candida low open woodland over Acacia atkinsiana, Acacia inaequilatera and Acacia ancistrocarpa tall to mid shrubland over Triodia epactia and Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Corymbia candida subsp. candida	6	1	x	x	
Acacia atkinsiana	3	31	x	x	
Acacia inaequilatera	3	1	x	x	
Acacia bivenosa	2	0.1	x	x	
Acacia ancistrocarpa	1.5	1	x	x	
Hakea lorea subsp. lorea	1.5	0.1	x	x	
Triodia epactia	0.4	35	x	x	
Triodia glabra	0.3	5	x	x	
Chrysopogon fallax	0.2	0.1	x	x	
Alternanthera nana	0.1	0.1		x	
Boerhavia repleta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia biconvexa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa ?decurrens	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR141
Location MGA 50 337201 **mE** 7585993 **mN**

2020
Described by: MS, CM
Date: 29/09/2020
2021
Described by: SC, GB
Date: 15/04/2021

Type: Releve 50 x 50
Landform: Narrow Drainage
Slope: Flat
Rock Type: Ironstone, Quartz, Riverstone
Soil Type: Sand
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix (and Corymbia candida subsp. candida) low woodland over Acacia ancistrocarpa mid sparse shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Eucalyptus victrix	10	10	x	x	
Corymbia candida subsp. candida	8	1	x	x	
Acacia ancistrocarpa	2	1	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Acacia trachycarpa	1.8	0.1	x	x	
**Vachellia farnesiana*	1.5	0.1	x	x	
Acacia synchronicia	1.2	0.1	x	x	
Triodia epactia	0.5	40	x	x	
Abutilon lepidum	0.5	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
**Setaria verticillata*	0.1	0.1		x	
Blumea tenella	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium rarum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Pterocaulon sp.	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1	x	x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa liatroides	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR142		
Location	MGA 50	352276 **mE**	7585123 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Semi Drainage Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia candida subsp. candida low open woodland over Acacia ancistrocarpa and Acacia bivenosa tall open shrubland over Triodia glabra and Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia candida subsp. candida	5	1	x	x	
Acacia ancistrocarpa	3	15	x	x	
Acacia bivenosa	2	1	x	x	
Acacia wanyu	1.5	0.1	x	x	
Triodia glabra	0.5	30	x	x	
Triodia epactia	0.5	10	x	x	
Alternanthera nana	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia repleta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Corchorus ?tectus	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eulalia aurea	0.1	0.1		x	
Euphorbia biconvexa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia nuda (P4)	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa ?decurrens	0.1	0.1		x	
Striga squamigera	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR143
Location MGA 50 352523 **mE** 7582883 **mN**

2020
Described by: MS, CM
Date: 30/09/2020
2021
Described by: SC, GB
Date: 13/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana tall shrubland over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia bivenosa	3	0.1	x	x	
Corymbia candida subsp. candida	3	0.1		x	
Acacia atkinsiana	2	40	x	x	
Acacia ancistrocarpa	1.5	0.1	x	x	
Acacia inaequilatera	1.5	0.1	x	x	
Acacia synchronicia	1.5	0.1	x	x	
Solanum phlomoides	1	0.1	x	x	
Hakea lorea subsp. lorea	0.7	0.1	x	x	
Triodia glabra	0.5	31	x	x	
Portulaca oleracea	0.1	0.5		x	
Abutilon lepidum	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cullen leucochaites	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Sida spinosa	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Triumfetta chaetocarpa	0.1	0.1		x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR144		
Location	MGA 50	352676 **mE**	7584790 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay Loam
Soil Colour: Red

Vegetation: *Corymbia candida subsp. candida low open woodland over Acacia aptaneura tall shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Weeds
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia aptaneura	6	55	x	x	
Corymbia candida subsp. candida	5	1	x	x	
Triodia epactia	0.3	11	x	x	
Paspalidium clementii	0.1	15	x	x	
Abutilon lepidum	0.1	1		x	
**Bidens bipinnata*	0.1	0.1		x	
**Setaria verticillata*	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Arivela viscosa	0.1	0.1		x	
Boerhavia repleta	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia biconvexa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Setaria dielsii	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1	x	x	
Tephrosia aff. remotiflora	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR145
Location MGA 50 352708 **mE** 7582671 **mN**

2020
Described by: MS, CM
Date: 30/09/2020
2021
Described by: SC, GB
Date: 13/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa (and Acacia inaequilatera) tall shrubland over Triodia glabra low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	3.5	1	x	x	
Acacia ancistrocarpa	2.5	31	x	x	
Acacia atkinsiana	2	0.1	x	x	
Hakea lorea subsp. lorea	1.5	0.1	x	x	
Triodia glabra	0.5	29	x	x	
Acacia bivenosa	0.5	0.1	x	x	
Chrysopogon fallax	0.4	0.1	x	x	
Abutilon lepidum	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Iseilema sp.	0.1	0.1	x	x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR146
Location MGA 50 353238 **mE** 7584403 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SW, BD
Date: 13/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clayey Sand
Soil Colour: Red

Vegetation: *Corymbia hamersleyana, Corymbia candida subsp. candida and Eucalyptus victrix low open woodland over Acacia ancistrocarpa tall shrubland over Triodia epactia low sparse hummock grassland with *Cenchrus ciliaris and Eriachne flaccida low open tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	6	1	x	x	
Eucalyptus victrix	6	1	x	x	
Corymbia hamersleyana	5	1.5	x	x	
Acacia aptaneura	4	0.1	x	x	
**Vachellia farnesiana*	3	0.1	x	x	
Acacia ancistrocarpa	2.5	50	x	x	
Acacia atkinsiana	1.2	0.1	x	x	
Acacia wanyu	0.7	0.1		x	
Indigofera monophylla	0.4	0.1		x	
**Cenchrus ciliaris*	0.3	10	x		
Triodia epactia	0.3	5	x	x	
**Malvastrum americanum*	0.3	0.1		x	
Eulalia aurea	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Eriachne flaccida	0.2	1	x	x	
Arivela viscosa	0.2	0.1		x	
Blumea tenella	0.2	0.1	x	x	
Corchorus ?tectus	0.2	0.1		x	
Corchorus tridens	0.2	0.1		x	
Cyperus iria	0.2	0.1		x	
Eragrostis tenellula	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Goodenia tenuiloba	0.2	0.1		x	
Ptilotus obovatus var. obovatus	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sesbania cannabina	0.2	0.1		x	
Streptoglossa decurrens	0.2	0.1		x	
Striga squamigera	0.2	0.1	x	x	
**Echinochloa colona*	0.1	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1	x	x	
Polygala glaucifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Setaria dielsii	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1	x	x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia supina	0.1	0.1	x		
Afrohybanthus aurantiacus	0.05	0.1	x	x	
Alternanthera nana	0.05	0.1	x	x	
Centipeda minima subsp. macrocephala	0.05	0.1	x	x	
Dysphania rhadinostachya subsp. inflata	0.05	0.1	x		
Goodenia triodiophila	0.05	0.1	x		
Paspalidium clementii	0.05	0.1	x	x	
Phyllanthus erwinii	0.05	0.1	x	x	
Rhynchosia minima	0.05	0.1	x	x	
Sida sp. L (A.M. Ashby 4202)	0.05	0.1	x		
Streptoglossa bubakii	0.05	0.1	x		

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR147
Location MGA 50 350764 **mE** 7586117 **mN**

2020
Described by: MS, CM
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa, Acacia wanyu, Acacia synchronicia, Acacia bivenosa and Acacia inaequilatera tall open shrubland over Triodia glabra low open hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	2.5	1	x	x	
Acacia ancistrocarpa	2	11	x	x	
Acacia synchronicia	2	3	x	x	
Acacia atkinsiana	2	0.1	x	x	
Acacia wanyu	1.8	5	x	x	
Acacia bivenosa	1.8	1.5	x	x	
Triodia glabra	0.5	15		x	
Abutilon sp.	0.1	0.1	x	x	
Aristida contorta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus ?tectus	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR148
Location MGA 50 353518 **mE** 7584149 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SW, BD
Date: 13/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clayey Sand
Soil Colour: Red

Vegetation: *Acacia synchronicia, Acacia aptaneura, Acacia ancistrocarpa and Acacia xiphophylla tall to mid sparse shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: < 1 year

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia xiphophylla	4	1	x		
Acacia synchronicia	3	4	x	x	
Acacia aptaneura	3	3	x	x	
Acacia ancistrocarpa	1.7	2	x	x	
Senna artemisioides subsp. oligophylla	0.6	0.1		x	
Triodia epactia	0.5	80	x	x	
Sporobolus australasicus	0.2	0.1		x	
Arivela viscosa	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Ipomoea muelleri	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR149
Location MGA 50 341717 **mE** 7587027 **mN**

2020
Described by: MS, CM
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia candida subsp. candida low open woodland over Acacia ancistrocarpa, Acacia inaequilatera and Hakea chordophylla tall open shrubland over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia candida subsp. candida	6	1	x	x	
Acacia inaequilatera	3	2	x	x	
Acacia ancistrocarpa	1.8	11	x	x	
Hakea lorea subsp. lorea	1.8	1.5	x	x	
Triodia glabra	0.5	45	x	x	
Bonamia alatisemina	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR150
Location MGA 50 353786 **mE** 7584134 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 18/03/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia xiphophylla, Acacia synchronicia and Acacia aptaneura tall open shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia aptaneura	5	2	x	x	
Acacia xiphophylla	3	9	x	x	
Acacia synchronicia	3	7	x	x	
Senna artemisioides subsp. oligophylla	1.2	0.1	x		
Acacia wanyu	1	0.1	x	x	
Rhagodia eremaea	1	0.1		x	
Acacia ancistrocarpa	0.4	0.1		x	
Triodia epactia	0.3	25		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Paspalidium rarum	0.2	0.1		x	
Arivela viscosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Iseilema eremaeum	0.1	0.1	x	x	
Iseilema sp.	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Pluchea dunlopii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR151
Location MGA 50 342675 **mE** 7588993 **mN**

2020
Described by: MS, CM
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa, Acacia trachycarpa and Acacia inaequilatera tall to mid open shrubland over Triodia glabra low hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia candida subsp. candida	4	0.1		x	Outside quadrat
Acacia inaequilatera	2.5	1	x	x	
Acacia ancistrocarpa	2	15	x	x	
Hakea lorea subsp. lorea	2	0.1	x	x	
Acacia trachycarpa	1.5	2	x	x	
Triodia glabra	0.5	31	x	x	
Cymbopogon ambiguus	0.5	0.1	x		
Solanum phlomoides	0.5	0.1	x	x	
Triodia epactia	0.5	0.1	x	x	
Abutilon sp.	0.1	0.1		x	
Acacia marramamba	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Cullen lachnostachys	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Heliotropium inexplicitum	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR152
Location MGA 50 354057 **mE** 7584066 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SW, BD
Date: 13/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia aptaneura, Acacia xiphophylla and Acacia synchronicia tall open shrubland over Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Litter
Fire Age: >10 years

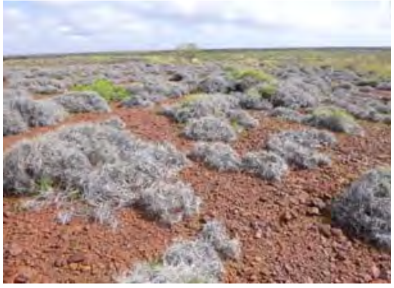
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia aptaneura	6	11	x	x	
Acacia xiphophylla	4	2	x	x	
Acacia synchronicia	1.5	1	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1	x	x	
Triodia epactia	0.3	2	x	x	
Arivela viscosa	0.3	0.1		x	
Eriachne benthamii	0.3	0.1	x		
Abutilon lepidum	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.5		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Striga squamigera	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR153		
Location	MGA 50	362416 **mE**	7575406 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: SW, BD
Date: 11/04/2021



Type: Releve 50 x 50
Landform: Low Hills
Slope: Undulating
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia spp. mid isolated shrubs over Triodia wiseana low hummock grassland*

Condition: Very Good
Disturbance Type: Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	0.1	x		
Acacia inaequilatera	2	0.1	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Acacia synchronicia	1.8	0.1	x		
Hakea lorea subsp. lorea	1.8	0.1	x		
Senna glutinosa subsp. glutinosa	1.5	0.1	x		
Senna glutinosa subsp. pruinosa	1.5	0.1		x	
Acacia ancistrocarpa	1.2	0.1	x	x	
Acacia atkinsiana	1.2	0.1	x	x	
Triodia wiseana	0.5	35	x	x	
Codonocarpus cotinifolius	0.5	0.1	x	x	
Aristida contorta	0.2	0.1		x	
Polygala glaucifolia	0.2	0.1		x	
Streptoglossa bubakii	0.2	0.1		x	
Trachymene oleracea subsp. oleracea	0.2	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.5		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Fimbristylis simulans	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR154
Location MGA 50 343877 **mE** 7586347 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia inaequilatera and Acacia ancistrocarpa and tall sparse shrubland over Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	4	1.5	x	x	
Acacia ancistrocarpa	3	3	x	x	
Acacia bivenosa	2	0.1	x	x	
Hakea lorea subsp. lorea	0.8	0.1	x	x	
Triodia glabra	0.4	35	x	x	
Acacia marramamba	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR155
Location MGA 50 362231 **mE** 7575399 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: BD, SC
Date: 11/04/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone, Riverstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low woodland over Acacia colei var. colei mid sparse shrubland over Triodia epactia and Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	5	11	x	x	
Acacia bivenosa	2.7	0.1		x	
Acacia colei var. colei	2	5	x	x	
Acacia ancistrocarpa	2	0.1	x	x	
Acacia atkinsiana	2	0.1	x	x	
Acacia inaequilatera	1.7	0.1		x	
Triodia epactia	0.8	35	x	x	
Triodia wiseana	0.8	5	x	x	
Tephrosia uniovulata	0.7	0.1	x		
Corchorus laniflorus	0.5	0.1	x	x	
Corchorus ?tectus	0.3	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Dampiera candicans	0.3	0.1		x	
Eriachne aristidea	0.3	0.1		x	
Goodenia tenuiloba	0.3	0.1	x	x	
Indigofera monophylla	0.3	0.1		x	
Indigofera sp. Bungaroo Creek (S. van Leeuwen 43(	0.3	0.1	x		
Trachymene oleracea subsp. oleracea	0.3	0.1	x	x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1	x	x	
Euphorbia trigonosperma	0.2	0.1		x	
Paraneurachne muelleri	0.2	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Haloragis trigonocarpa	0.1	0.1	x		
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR156		
Location	MGA 50	344534 **mE**	7587307 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 16/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay Loam Sand
Soil Colour: Red

Vegetation: *Corymbia candida subsp. candida low isolated trees over Acacia ancistrocarpa and Acacia trachycarpa tall to mid shrubland over Triodia epactia and Triodia glabra low open hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia zygophylla	7	0.1	x	x	
Acacia pachycarpa	6	0.1		x	
Acacia inaequilatera	4	0.1	x	x	
Acacia ancistrocarpa	2.3	0.6	x	x	
Acacia trachycarpa	2	1	x	x	
Acacia bivenosa	1	0.1		x	
Hakea lorea subsp. lorea	0.5	0.1		x	
Bonamia erecta	0.4	0.1		x	
Triodia epactia	0.3	10	x	x	
Triodia glabra	0.3	5	x	x	
Cucumis variabilis	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Aristida holathera var. holathera	0.2	0.1		x	
Bonamia alatisemina	0.2	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR157
Location MGA 50 362523 **mE** 7576091 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: BD, SC
Date: 11/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia bivenosa mid sparse shrubland over Triodia epactia low hummock grassland with *Cenchrus ciliaris low open tussock grassland*

Condition: Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia synchronicia	2.5	1	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Acacia colei var. colei	1.2	0.1	x	x	
Triodia epactia	0.6	31	x	x	
Aristida latifolia	0.6	0.1		x	
**Cenchrus ciliaris*	0.5	0.1	x	x	
Panicum decompositum	0.5	0.1	x	x	
Acacia ancistrocarpa	0.4	0.1	x	x	
Eriachne flaccida	0.3	1		x	
Dichanthium sericeum subsp. humilius	0.3	0.1		x	
Triumfetta clementii	0.3	0.1		x	
Boerhavia coccinea	0.2	0.1		x	
Goodenia tenuiloba	0.2	0.1		x	
Indigofera trita subsp. trita	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Solanum lasiophyllum	0.2	0.1		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Senna notabilis	0.1	0.1	x	x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR158
Location MGA 50 344882 **mE** 7587621 **mN**

2020
Described by: SC, BD
Date: 30/09/2020
2021
Described by: SC, GB
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Red

Vegetation: *Acacia inaequilatera and Acacia ancistrocarpa tall open shrubland over Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

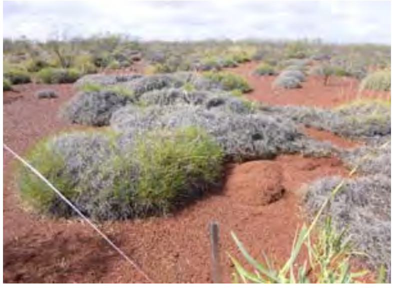
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	4	7	x	x	
Acacia bivenosa	3	0.1	x	x	
Acacia ancistrocarpa	2	5	x	x	
Acacia trachycarpa	1	0.1	x	x	
Hakea lorea subsp. lorea	0.5	0.1		x	
Triodia glabra	0.4	31	x	x	
Aristida contorta	0.1	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cucumis variabilis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triodia epactia	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ159
Location MGA 50 362095 **mE** 7576236 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: BD, SC
Date: 11/04/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana mid shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	5	0.1	x	x	Outside quadrat
Acacia atkinsiana	2	35	x	x	
Acacia bivenosa	1.8	0.1	x	x	
Codonocarpus cotinifolius	1.8	0.1	x		
Triodia wiseana	0.8	31	x	x	
Corchorus laniflorus	0.3	0.1		x	
Digitaria brownii	0.3	0.1		x	
Aristida contorta	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Corchorus ?laniflorus	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Grevillea wickhamii subsp. indet	0.1	0.1		x	
Indigofera monophylla	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Corchorus sp.	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR160
Location MGA 50 363387 **mE** 7575467 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: BD, SW
Date: 14/04/2021

Type: Releve 25 x 100
Landform: Drainage
Slope: Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia colei var. colei and Grevillea wickhamii mid open shrubland over Triodia wiseana low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	6	8	x	x	
Acacia colei var. colei	1.6	31	x	x	
Grevillea wickhamii subsp. indet	1.3	8	x	x	
Codonocarpus cotinifolius	1	0.1	x	x	
Ptilotus calostachyus	1	0.1	x	x	
Senna glutinosa subsp. glutinosa	1	0.1	x		
Triumfetta johnstonii	0.8	0.1		x	
Corchorus laniflorus	0.5	0.5		x	
Acacia ancistrocarpa	0.5	0.1	x		
Dampiera candicans	0.5	0.1	x	x	
Hibiscus sturtii var. campylochlamys	0.5	0.1	x	x	
Tephrosia uniovulata	0.5	0.1	x	x	
Corchorus lasiocarpus subsp. lasiocarpus	0.4	0.1	x	x	
Goodenia sp.	0.4	0.1		x	
Paraneurachne muelleri	0.4	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1	x	x	
Eriachne mucronata	0.3	0.1	x	x	
Hibiscus coatesii	0.3	0.1		x	
Hibiscus leptocladus	0.3	0.1	x		
Indigofera monophylla	0.3	0.1	x	x	
Isotropis atropurpurea	0.3	0.1		x	
Triodia wiseana	0.2	9	x	x	
Afrohybanthus aurantiacus	0.2	0.1	x	x	
Solanum sp.	0.2	0.1		x	
Acacia bivenosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x		
Bonamia pilbarensis	0.05	0.1	x		
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR161
Location MGA 50 362620 **mE** 7577703 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: BD, SC
Date: 11/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana tall shrubland over Triodia epactia and Triodia glabra low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia atkinsiana	3	35	x	x	
Acacia inaequilatera	3	0.1		x	
Acacia bivenosa	2.5	0.1	x	x	
Acacia wanyu	2.5	0.1		x	
Hakea lorea subsp. lorea	2	0.1	x	x	
Acacia synchronicia	1.8	0.1	x		
Triodia epactia	0.5	30	x	x	
Triodia glabra	0.5	10	x	x	
Acacia ancistrocarpa	0.4	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Solanum cleistogamum	0.2	0.1		x	
Triumfetta ?chaetocarpa	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Streptoglossa ?bubakii	0.1	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Solanum diversiflorum	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR162
Location MGA 50 363420 **mE** 7575331 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 14/04/2021

Type: Releve 25 x 100
Landform: Plain
Slope: Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia atkinsiana, Acacia ancistrocarpa and Acacia bivenosa tall to mid sparse shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	4	0.1		x	
Acacia atkinsiana	3.5	5	x	x	
Acacia inaequilatera	3	0.1	x	x	
Codonocarpus cotinifolius	3	0.1	x	x	
Acacia ancistrocarpa	2.5	2	x	x	
Acacia bivenosa	1.2	2	x	x	
Triodia wiseana	0.5	50	x	x	
Indigofera monophylla	0.5	0.1	x	x	
Aristida contorta	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Ptilotus calostachyus	0.2	0.1		x	
Corchorus laniflorus	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Paraneurachne muelleri	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR163
Location MGA 50 362953 **mE** 7578246 **mN**

2020
Described by: MS, CM
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana, Acacia wanyu, Acacia ancistrocarpa, Acacia synchronicia and Acacia bivenosa mid open shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats, Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	2	7	x	x	
Acacia ancistrocarpa	2	1	x	x	
Acacia wanyu	1.8	3	x	x	
Acacia bivenosa	1.8	1	x	x	
Acacia synchronicia	1.2	5	x	x	
Triodia epactia	0.7	35	x	x	
Senna glutinosa subsp. pruinosa	0.7	0.5		x	
Aristida contorta	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Corchorus sp.	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Goodenia tenuiloba	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sida arsiniata	0.2	0.1		x	
Streptoglossa decurrens	0.2	0.1		x	
Triumfetta chaetocarpa	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.1	0.1		x	
Cullen leucochaites	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Indigofera monophylla	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Solanum phlomoides	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Cullen pogonocarpum	0.05	0.1		x	
Dodonaea coriacea	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR164
Location MGA 50 363278 **mE** 7576401 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 25 x 100
Landform: Stony Hills
Slope: Gently Undulating
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Senna glutinosa subsp. glutinosa, Acacia synchronicia, Acacia ancistrocarpa, Acacia wanyu and Acacia bivenosa tall to mid sparse shrubland over Triodia wiseana low hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Senna glutinosa subsp. glutinosa	2.5	1	x	x	
Acacia synchronicia	2.3	1	x	x	
Acacia ancistrocarpa	1.8	1	x		
Acacia wanyu	1.6	1	x	x	
Acacia bivenosa	1.2	1	x	x	
Senna glutinosa subsp. ×luerssenii	1	0.1	x	x	
Triodia wiseana	0.5	45	x	x	
Paspalidium clementii	0.3	0.1		x	
Streptoglossa decurrens	0.3	0.1		x	
?Corchorus sp.	0.2	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Haloragis sp.	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Solanum cleistogamum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Trachymene oleracea subsp. oleracea	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Ptilotus obovatus var. obovatus	0.05	0.1		x	
Tribulus macrocarpus	0.05	0.1		x	
Euphorbia trigonosperma	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR166
Location MGA 50 363649 **mE** 7576594 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 14/04/2021

Type: Releve 25 x 100
Landform: Drainage
Slope: Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia colei var. colei and Grevillea wickhamii mid open shrubland over Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Corymbia hamersleyana	6	8	x	x	
Acacia colei var. colei	1.6	9	x	x	
Grevillea wickhamii subsp. indet	1.3	2	x	x	
Cullen leucochaites	1.2	0.1	x	x	
Codonocarpus cotinifolius	1	0.1	x		
Ptilotus calostachyus	1	0.1	x	x	
Acacia atkinsiana	0.5	0.1	x	x	
Dampiera candicans	0.5	0.1	x	x	
Tephrosia uniovulata	0.5	0.1	x	x	
Corchorus lasiocarpus subsp. lasiocarpus	0.4	0.1	x	x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	0.1	x	x	
Triumfetta johnstonii	0.4	0.1	x	x	
Aristida contorta	0.3	0.1		x	
Bonamia alatisemina	0.3	0.1		x	
Eriachne mucronata	0.3	0.1	x		
Hibiscus leptocladus	0.3	0.1	x		
Hibiscus sturtii var. campylochlamys	0.3	0.1	x	x	
Indigofera monophylla	0.3	0.1	x	x	
Polymeria sp.	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Triodia epactia	0.2	5	x	x	
Afrohybanthus aurantiacus	0.2	0.1	x	x	
Bonamia erecta	0.2	0.1	x	x	
Dodonaea coriacea	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Goodenia sp.	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Fimbristylis simulans	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Paraneurachne muelleri	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Malvaceae sp.	0.05	0.1	x		
Senna notabilis	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR168
Location MGA 50 363335 **mE** 7577482 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain Semi Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia atkinsiana (Acacia ancistrocarpa and Grevillea wickhamii subsp. hispidula) tall shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia atkinsiana	3	45	x	x	
Acacia ancistrocarpa	3	1	x	x	
Grevillea wickhamii subsp. hispidula	3	1	x	x	
Acacia inaequilatera	2.5	0.1		x	
Triodia epactia	0.5	71	x	x	
Cucumis variabilis	0.5	0.1	x	x	
Indigofera boviperda subsp. boviperda	0.4	0.1	x	x	
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Eriachne pulchella subsp. indet	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR170
Location MGA 50 363673 **mE** 7577334 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia atkinsiana, Acacia ancistrocarpa and Acacia inaequilatera tall sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	3	5	x	x	
Codonocarpus cotinifolius	3	0.1	x	x	
Acacia ancistrocarpa	2.2	1	x	x	
Acacia inaequilatera	2.2	1	x	x	
Grevillea wickhamii subsp. indet	0.6	0.1		x	
Triodia epactia	0.4	20	x	x	
Euphorbia boophthona	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Ptilotus obovatus var. obovatus	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Senna notabilis	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR172
Location MGA 50 364160 **mE** 7577972 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana and Acacia coriacea subsp. pendens low open woodland over Acacia ancistrocarpa, Grevillea wickhamii and Acacia bivenosa tall to mid open shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia coriacea subsp. pendens	4	1	x	x	
Corymbia hamersleyana	4	1	x	x	
Grevillea wickhamii subsp. indet	3	1.5	x	x	
Acacia synchronicia	3	0.1		x	
Acacia inaequilatera	2.5	0.1	x	x	
Acacia ancistrocarpa	2.2	10	x	x	
Acacia colei var. colei	2.1	0.1	x	x	
Acacia bivenosa	2	1	x	x	
Solanum phlomoides	1.5	0.1	x	x	
Triodia epactia	1	75	x	x	
Acacia atkinsiana	1	0.1	x	x	
Chrysopogon fallax	1	0.1	x	x	
Eriachne mucronata	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Paraneurachne muelleri	0.3	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Bonamia erecta	0.1	0.1	x	x	
Bulbostylis barbata	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR174
Location MGA 50 363891 **mE** 7577974 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	11	x	x	
Triodia epactia	0.3	8	x	x	
Maireana planifolia	0.3	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR176
Location MGA 50 363394 **mE** 7577737 **mN**

2020
Described by: SC, BD
Date: 01/10/2020
2021
Described by: SW, BD
Date: 12/04/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown

Vegetation: *Eucalyptus victrix and Corymbia hamersleyana low open woodland over Acacia colei var. colei and Grevillea wickhamii subsp. hispidula tall sparse shrubland over Acacia bivenosa and Corchorus lasiocarpus subsp. lasiocarpus low sparse shrubland over Chrysopogon fallax tall sparse tussock grassland with Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	7	2	x	x	
Corymbia hamersleyana	5	2	x	x	
Acacia colei var. colei	3	10	x	x	
Gossypium robinsonii	3	2	x	x	
Grevillea wickhamii subsp. hispidula	3	1	x	x	
Cullen leucochaites	3	0.1	x		
Acacia inaequilatera	2	0.1	x	x	
**Vachellia farnesiana*	1.7	0.1		x	
Ptilotus calostachyus	1	0.1	x	x	
Gossypium australe	0.8	0.1	x	x	
Acacia ancistrocarpa	0.7	0.1		x	
Chrysopogon fallax	0.6	1	x	x	
Corchorus laniflorus	0.6	0.1		x	
**Cenchrus ciliaris*	0.5	30		x	
Acacia bivenosa	0.5	1	x		
Dampiera candicans	0.5	0.1	x	x	
Goodenia sp.	0.5	0.1	x	x	
Isotropis atropurpurea	0.5	0.1	x		
Corchorus lasiocarpus subsp. lasiocarpus	0.4	4	x	x	
Rhynchosia minima	0.4	0.1	x	x	
Sida spinosa	0.4	0.1		x	
Triumfetta johnstonii	0.4	0.1	x	x	
Afrohybanthus aurantiacus	0.3	0.1	x	x	
Arivela viscosa	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1	x		
Tephrosia rosea var. Fortescue creeks (M.I.H. Brool	0.3	0.1	x		
Triodia epactia	0.2	1	x	x	
Alternanthera nana	0.2	0.1		x	
Bonamia erecta	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Hibiscus sturtii var. campylochlamys	0.2	0.1	x	x	
Sida arsiniata	0.2	0.1		x	
Solanum phlomoides	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Tephrosia uniovulata	0.2	0.1	x	x	
Boerhavia burbidgeana	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. decumbens	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ177
Location MGA 50 370263 **mE** 7573797 **mN**

2020
Described by: MS, SC
Date: 28/10/2020
2021
Described by: BE, BD
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Drainage Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Light Brown, Red

Vegetation: *Corymbia candida subsp. candida low open woodland over Acacia ancistrocarpa, Acacia tumida var. pilbarensis, Acacia bivenosa tall to mid open shrubland over Senna artemisioides subsp. oligophylla low sparse shrubland over Triodia epactia and Triodia longiceps low hummock grassland with Chrysopogon fallax tall open tussock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia candida subsp. candida	4.5	2	x	x	
Acacia tumida var. pilbarensis	3	4	x	x	
Acacia synchronicia	3	0.1	x	x	
Acacia ancistrocarpa	2.5	12	x	x	
Acacia bivenosa	1.8	1.5	x	x	
Senna artemisioides subsp. helmsii	1.2	0.1	x		
Chrysopogon fallax	0.8	11	x	x	
Senna artemisioides subsp. oligophylla	0.8	1	x	x	
Acacia atkinsiana	0.8	0.1	x	x	
Triodia longiceps	0.5	10	x	x	
Senna artemisioides subsp. helmsii x oligophylla	0.5	0.1	x		
Bonamia erecta	0.4	0.1	x	x	
Corchorus tectus	0.4	0.1	x	x	
Gossypium australe	0.4	0.1	x		
Triodia epactia	0.3	25	x	x	
Isotropis atropurpurea	0.3	0.1	x	x	
Arivela viscosa	0.2	0.1		x	
Chloris pectinata	0.2	0.1	x	x	
Cucumis variabilis	0.2	0.1	x		
Eremophila longifolia	0.2	0.1	x		
Euphorbia biconvexa	0.2	0.1		x	
Goodenia forrestii	0.2	0.1		x	
Heliotropium inexplicitum	0.2	0.1		x	
Sida sp. L (A.M. Ashby 4202)	0.2	0.1	x		
Streptoglossa decurrens	0.2	0.1		x	
Portulaca oleracea	0.1	2		x	
Abutilon cunninghamii	0.1	0.1	x		
Abutilon otocarpum	0.1	0.1		x	
Alternanthera nana	0.1	0.1	x	x	
Calandrinia sp.	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dichanthium sericeum subsp. humilius	0.1	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. indet	0.1	0.1		x	
Iseilema membranaceum	0.1	0.1		x	
Lepidium pholidogynum	0.1	0.1	x		
Phyllanthus erwinii	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1	x	x	
Sida fibulifera	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1	x	x	
Polygala glaucifolia	0.05	0.1		x	
Ptilotus sp.	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ178
Location MGA 50 369832 **mE** 7575336 **mN**

2020
Described by: MS, SC
Date: 28/10/2020
2021
Described by: BE, BD
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia bivenosa and Acacia synchronicia mid to low shrubland over Triodia wiseana low sparse hummock grassland with Paraneurachne muelleri low sparse tussock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Codonocarpus cotinifolius	3	0.1	x	x	
Acacia bivenosa	1.8	35	x	x	
Acacia synchronicia	0.8	2	x	x	
Acacia ancistrocarpa	0.8	0.1	x	x	
Senna artemisioides subsp. helmsii x oligophylla	0.5	0.1	x		
Senna artemisioides subsp. oligophylla	0.5	0.1		x	
Senna glutinosa subsp. glutinosa x stricta	0.5	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x		
Triodia epactia	0.5	0.1	x		
Abutilon lepidum	0.4	0.1		x	
Dichanthium sericeum subsp. humilius	0.4	0.1		x	
Hibiscus sturtii var. platychlamys	0.4	0.1		x	
Lepidium pholidogynum	0.4	0.1	x	x	
Triodia wiseana	0.3	7	x	x	
Triodia longiceps	0.3	0.5		x	
**Cenchrus ciliaris*	0.3	0.1		x	
Acacia atkinsiana	0.3	0.1	x	x	
Aristida holathera var. holathera	0.3	0.1		x	
Maireana melanocoma	0.3	0.1	x	x	
Sida arsiniata	0.3	0.1		x	
Corchorus tectus	0.2	1	x	x	
Paraneurachne muelleri	0.2	1	x	x	
Enneapogon caerulescens	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Maireana sp.	0.2	0.1		x	
Senna artemisioides subsp. helmsii	0.2	0.1	x		
Streptoglossa decurrens	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Goodenia microptera	0.1	1		x	
Cassytha capillaris	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Hibiscus sturtii var. campylochlamys	0.1	0.1	x	x	
Iseilema membranaceum	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Sclerolaena diacantha	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Heliotropium inexplicitum	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Tribulus astrocarpus	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ179		
Location	MGA 50	371416 **mE**	7574768 **mN**

2020
Described by: MS, SC
Date: 28/10/2020
2021
Described by: BE, BD
Date: 28/04/2021

Type: Quadrat 50 x 50
Landform: Drainage Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia candida subsp. candida low isolated trees over Acacia ancistrocarpa, Acacia bivenosa and Acacia tumida var. pilbarensis tall to mid shrubland over Corchorus tectus low sparse shrubland over Triodia longiceps and Triodia epactia low open hummock grassland with Indigofera boviperda subsp. boviperda low sparse forbland*

Condition: Very Good **Disturbance Type:** Weeds
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Corymbia candida subsp. candida	7	0.5	x	x	
Codonocarpus cotinifolius	4	0.1	x	x	
Acacia tumida var. pilbarensis	2.8	1	x	x	
Acacia ancistrocarpa	2	50	x	x	
Acacia bivenosa	1.6	7	x	x	
Gossypium australe	1	0.1	x	x	
Chrysopogon fallax	0.8	0.5	x	x	
Cullen lachnostachys	0.5	0.1	x		
Hakea lorea subsp. lorea	0.5	0.1	x		
Triodia longiceps	0.4	8	x	x	
Triodia epactia	0.4	4	x	x	
Senna artemisioides subsp. oligophylla	0.4	0.1	x	x	
Indigofera boviperda subsp. boviperda	0.3	5	x	x	
Euphorbia boophthona	0.3	0.1	x	x	
Isotropis atropurpurea	0.3	0.1	x	x	
Ptilotus auriculifolius	0.3	0.1		x	
Ptilotus exaltatus	0.3	0.1	x		
Sida arsiniata	0.3	0.1	x	x	
Streptoglossa decurrens	0.3	0.1	x	x	
Corchorus tectus	0.2	8	x	x	
**Cenchrus ciliaris*	0.2	0.1	x	x	
Abutilon macrum	0.2	0.1	x	x	
Bonamia erecta	0.2	0.1		x	
Corchorus ?elachocarpus	0.2	0.1		x	
Cucumis variabilis	0.2	0.1	x	x	
Cullen pogonocarpum	0.2	0.1	x		
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Goodenia tenuiloba	0.2	0.1	x		
Hibiscus sturtii var. grandiflorus	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1	x		
Sida fibulifera	0.2	0.1	x	x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1	x	x	
Solanum diversiflorum	0.2	0.1	x	x	
Abutilon otocarpum	0.1	0.1	x	x	
Alternanthera nana	0.1	0.1	x	x	
Dactyloctenium radulans	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis tenellula	0.1	0.1		x	
Euphorbia biconvexa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1	x	x	
Fimbristylis dichotoma	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1	x	x	
Hibiscus sturtii var. campylochlamys	0.1	0.1	x		
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1	x	x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1	x		
Sida sp. L (A.M. Ashby 4202)	0.1	0.1	x		
Sporobolus australasicus	0.1	0.1	x	x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1	x	x	
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ180		
Location	MGA 50	374503 **mE**	7574178 **mN**

2020
Described by: MS, SC
Date: 28/10/2020
2021
Described by: BE, BD
Date: 29/04/2021

Type:	Quadrat	50 x 50
Landform:	Plain	
Slope:	Flat	
Rock Type:	Quartz	
Soil Type:	Clay, Loam	
Soil Colour:	Light Brown	

Vegetation: *Acacia bivenosa and Senna glutinosa subsp. glutinosa tall to mid open shrubland over Triodia wiseana low hummock grassland with Paraneurachne muelleri low sparse tussock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Acacia bivenosa	2.1	14	x	x	
Acacia wanyu	1.6	0.1	x	x	
Acacia synchronicia	1.5	0.1	x	x	
Senna glutinosa subsp. pruinosa	1.5	0.1	x	x	
Senna glutinosa subsp. glutinosa	1.2	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	1.2	0.1	x	x	
Senna glutinosa subsp. glutinosa x stricta	0.5	0.5		x	
Eremophila cuneifolia	0.5	0.1	x	x	
Triodia wiseana	0.3	25	x	x	
Maireana melanocoma	0.3	0.1	x	x	
Paraneurachne muelleri	0.3	0.1	x	x	
Enneapogon caerulescens	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Sporobolus australasicus	0.1	0.5		x	
Abutilon lepidum	0.1	0.1		x	
Abutilon sp.	0.1	0.1		x	
Enneapogon polyphyllus	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Haloragis sp.	0.1	0.1		x	
Hibiscus sturtii var. indet	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	
Sclerolaena diacantha	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Streptoglossa decurrens	0.1	0.1		x	
Swainsona maccullochiana	0.1	0.1		x	
Swainsona sp.	0.1	0.1		x	
Tephrosia clementii	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Euphorbia ?vaccaria	0.05	0.1		x	
Ptilotus auriculifolius	0.05	0.1		x	
Cynodon prostratus	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ181
Location MGA 50 370164 **mE** 7575413 **mN**

2020
Described by: MS, SC
Date: 28/10/2020
2021
Described by: BE, BD
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Drainage Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Corymbia hamersleyana low open woodland over Grevillea wickhamii subsp. hispidula, Acacia ancistrocarpa, Acacia tumida var. pilbarensis, Acacia atkinsiana and Acacia wanyu tall shrubland over Acacia bivenosa and Acacia synchronicia mid to low sparse shrubland over Triodia epactia (and Triodia wiseana) low hummock open grassland with Indigofera boviperda subsp. boviperda and Bonamia erecta low sparse forbland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

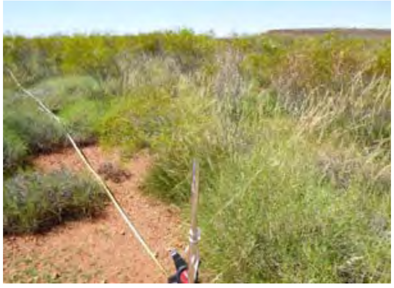
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	8	1	x	x	
Acacia ancistrocarpa	3	35	x	x	
Acacia atkinsiana	3	2	x	x	
Grevillea wickhamii subsp. hispidula	2.5	3	x	x	
Acacia tumida var. pilbarensis	2.5	1	x	x	
Acacia wanyu	2.1	0.1	x	x	
Acacia sericophylla	2	0.1	x	x	
Acacia bivenosa	1.5	0.1	x	x	
Acacia synchronicia	1.4	1	x		
Chrysopogon fallax	1	0.5	x	x	
Codonocarpus cotinifolius	1	0.1	x	x	
Acacia inaequilatera	0.8	0.1	x	x	
Seringia exastia	0.6	0.5		x	
Triodia epactia	0.5	25	x	x	
Triodia wiseana	0.5	3	x	x	
Hakea lorea subsp. lorea	0.5	0.1	x	x	
Bonamia erecta	0.3	5	x	x	
Indigofera boviperda subsp. boviperda	0.3	3	x	x	
Cassytha capillaris	0.3	0.1	x	x	
Eriachne mucronata	0.3	0.1	x	x	
Goodenia microptera	0.3	0.1		x	
Paraneurachne muelleri	0.3	0.1	x	x	
Ptilotus astrolasius	0.3	0.1		x	
Goodenia tenuiloba	0.2	0.1	x		
Hibiscus sturtii var. campylochlamys	0.2	0.1	x		
Paspalidium basicladum	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1	x	x	
Streptoglossa decurrens	0.2	0.1		x	
Trigastrotheca molluginea	0.2	0.1	x	x	
Abutilon sp.	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus sidoides subsp. vermicularis	0.1	0.1		x	
Corchorus tectus	0.1	0.1	x		
Cynodon prostratus	0.1	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1	x	x	
Iseilema membranaceum	0.1	0.1	x		
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1	x	x	
Triumfetta clementii	0.1	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ182
Location MGA 50 375758 **mE** 7573625 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: BE, BD
Date: 20/03/2021



Type: Quadrat 50 x 50
Landform: Drainage Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia ancistrocarpa and Acacia bivenosa tall to mid shrubland over Triodia epactia and Triodia longiceps low hummock grassland*

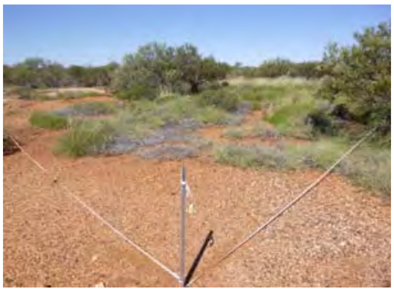
Condition: Very Good **Disturbance Type:** Cattle
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia tumida var. pilbarensis	3	0.1	x		Outside quadrat
Acacia inaequilatera	2.5	0.1	x		Outside quadrat
Acacia ancistrocarpa	2.1	35	x	x	
Acacia wanyu	2.1	0.1		x	Outside quadrat
Acacia bivenosa	1.5	5	x	x	
Acacia synchronicia	1.5	0.1	x	x	
Trichodesma zeylanicum var. zeylanicum	0.6	0.1		x	
Triodia epactia	0.5	37	x	x	
Triodia longiceps	0.5	8	x	x	
Indigofera monophylla	0.5	0.1	x	x	
Bonamia erecta	0.4	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Chrysopogon fallax	0.2	0.1	x	x	
Fimbristylis dichotoma	0.2	0.1	x	x	
Iseilema dolichotrichum	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Abutilon sp.	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Swainsona sp.	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.05	0.1		x	
Euphorbia biconvexa	0.05	0.1		x	
Euphorbia boophthona	0.05	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.05	0.1		x	
Paspalidium clementii	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Streptoglossa ?decurrens	0.05	0.1		x	
Triumfetta clementii	0.05	0.1		x	
Goodenia microptera	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ183		
Location	MGA 50	378637 **mE**	7571546 **mN**



2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: SC, GB
Date: 29/04/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia xiphophylla tall sparse shrubland over and Eremophila cuneifolia low sparse shrubland over Triodia wiseana and Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Cattle
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	8	x	x	
Senna glutinosa subsp. glutinosa	1.1	0.1		x	
Eremophila cuneifolia	0.8	1	x	x	
Triodia wiseana	0.5	7	x	x	
Cynanchum viminale subsp. australe	0.5	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x	x	
Triodia longiceps	0.5	0.1	x	x	
Triodia epactia	0.4	5	x	x	
Maireana melanocoma	0.3	0.1	x	x	
Cynodon prostratus	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	
Sclerolaena sp.	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ184
Location MGA 50 377549 **mE** 7573193 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: BE, BD
Date: 19/03/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia spp. tall to mid isolated shrubs over Triodia longiceps low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Acacia synchronicia	2.5	0.1	x		Outside quadrat
Acacia trachycarpa	2.5	0.1	x		Outside quadrat
Acacia bivenosa	1.2	0.1	x		Outside quadrat
Eremophila cuneifolia	0.5	0.1	x	x	Outside quadrat
Triodia longiceps	0.4	32	x	x	
Triodia epactia	0.4	0.1	x	x	
Fimbristylis dichotoma	0.1	0.5		x	
**Portulaca pilosa*	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1			
Iseilema dolichotrichum	0.1	0.1		x	
Maireana sp.	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Streptoglossa ?decurrens	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Cynodon prostratus	0.05	0.5		x	
Cheilanthes sieberi subsp. sieberi	0.05	0.1		x	
Chenopodiaceae sp.	0.05	0.1		x	
Eriachne pulchella subsp. pulchella	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Ptilotus sp.	0.05	0.1		x	
Solanum sp.	0.05	0.1		x	
Malvaceae sp.	0.03	0.1		x	
Senna notabilis	0.03	0.1		x	
Solanum diversiflorum	0.03	0.1		x	
Goodenia sp.	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	
Sporobolus australasicus	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR185
Location MGA 50 379161 **mE** 7573327 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: BE, GB
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Mesa Top
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia arida mid sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Codonocarpus cotinifolius	4	0.1	x	x	
Acacia arida	1.2	6	x	x	
Dodonaea coriacea	1.2	0.1	x	x	
Psydrax latifolia	0.5	0.1	x	x	
Hakea lorea subsp. lorea	0.4	0.1		x	
Triodia epactia	0.3	12	x	x	
Amphipogon sericeus	0.3	0.1	x	x	
Cassytha capillaris	0.3	0.1	x	x	
Eriachne mucronata	0.3	0.1	x	x	
Ptilotus calostachyus	0.2	0.1	x	x	
Bonamia pilbarensis	0.1	0.1	x	x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Malvaceae sp.	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Ptilotus sp.	0.05	0.1		x	
Streptoglossa sp.	0.05	0.1		x	
Trigastrotheca molluginea	0.05	0.1		x	
Goodenia forrestii	0.02	0.1		x	
Indet herb sp.	0.01	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR186
Location MGA 50 379060 **mE** 7573366 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: BE, GB
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Mesa Slope
Slope: Steep, Moderate
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia bivenosa mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Senna glutinosa subsp. glutinosa	1.5	0.1	x	x	
Acacia bivenosa	1.2	4	x	x	
Acacia arida	1.2	0.1	x	x	
Dodonaea coriacea	0.5	0.1	x		
Psydrax latifolia	0.5	0.1	x	x	
Triodia wiseana	0.4	15	x	x	
Triodia epactia	0.4	0.1	x	x	
Acacia synchronicia	0.3	0.1		x	
Cassytha capillaris	0.3	0.1	x		
Cymbopogon ambiguus	0.3	0.1	x		
Eriachne mucronata	0.3	0.1	x	x	
Paspalidium tabulatum	0.3	0.1		x	
Enneapogon caerulescens	0.2	0.1		x	
Ptilotus clementii	0.2	0.1		x	
Ptilotus exaltatus	0.2	0.1		x	
Enneapogon polyphyllus	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Aristida contorta	0.05	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Bulbostylis barbata	0.05	0.1		x	
Dolichocarpa crouchiana	0.05	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Hibiscus sp.	0.05	0.1	x	x	
Polygala glaucifolia	0.05	0.1		x	
Streptoglossa sp.	0.05	0.1		x	
Portulaca oleracea	0.02	0.1		x	
Solanum diversiflorum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR188
Location MGA 50 380072 **mE** 7573143 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: SC, BD
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia bivenosa, Acacia wanyu, Acacia elachantha and Acacia synchronicia tall to mid open shrubland and over Indigofera monophylla low sparse shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

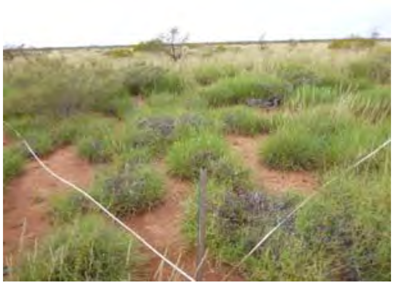
SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Codonocarpus cotinifolius	4	0.1	x	x	
Acacia elachantha	3	1	x	x	
Acacia citrinoviridis	3	0.1	x	x	
Acacia arida	2.5	0.1	x	x	
Acacia trachycarpa	2.2	0.1	x	x	
Acacia bivenosa	2.1	5	x	x	
Acacia ancistrocarpa	2	0.1	x	x	
Acacia atkinsiana	2	0.1	x	x	
Acacia synchronicia	1.8	1	x	x	
Acacia wanyu	1.5	3	x	x	
Indigofera monophylla	1	1		x	
Cassytha capillaris	0.8	1	x	x	
Triodia epactia	0.5	80	x	x	
Senna artemisioides subsp. oligophylla	0.5	0.1		x	
Acacia inaequilatera	0.4	0.1		x	
Chrysopogon fallax	0.4	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Solanum cleistogamum	0.3	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.2	0.1		x	
Eragrostis cumingii	0.2	0.1		x	
Senna venusta	0.2	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.2	0.1	x	x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1	x	x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KQ189
Location	MGA 50 381767 **mE** 7573627 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: SC, BD
Date: 3/05/2021



Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia inaequilatera, Acacia bivenosa, Acacia ancistrocarpa and Bonamia erecta tall sparse shrubland over Triodia epactia low closed hummock grassland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	3	2	x	x	
Corymbia hamersleyana	2.2	0.1	x	x	
Acacia elachantha	2	0.1	x	x	
Acacia ancistrocarpa	1.5	1	x	x	
Acacia bivenosa	1.2	2	x	x	
Acacia arida	1.2	0.1	x	x	
Acacia wanyu	0.8	0.1	x	x	
Cassytha capillaris	0.5	0.5	x	x	
Triodia epactia	0.4	40	x	x	
Acacia synchronicia	0.3	0.1	x	x	
Bonamia erecta	0.3	0.1	x	x	
Eriachne mucronata	0.3	0.1	x	x	
Poaceae sp.	0.3	0.1	x		
Chrysopogon fallax	0.2	0.1	x	x	
Indigofera monophylla	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Fimbristylis dichotoma	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Isotropis atropurpurea	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1	x		
Trigastrotheca molluginea	0.1	0.1		x	
Ptilotus astrolasius	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ190
Location MGA 50 381904 **mE** 7571766 **mN**

2020
Described by: MS, SC
Date: 29/10/2020
2021
Described by: BE, GB
Date: 3/05/2021

Type: Quadrat 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa (and Acacia bivenosa) tall shrubland over Senna artemisioides subsp. helmsii, Senna artemisioides subsp. oligophylla and Scaevola spinescens mid to low sparse shrubland over Triodia epactia and Triodia longiceps tall to low sparse hummock grassland with Ipomoea muelleri low sparse forbland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

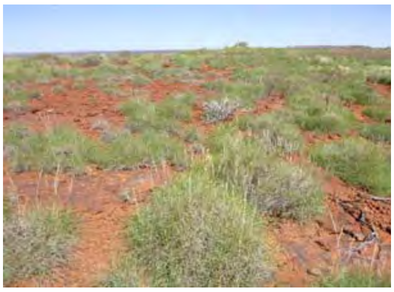
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia ancistrocarpa	2.5	60	x	x	
**Vachellia farnesiana*	2.5	0.1	x	x	
Acacia elachantha	2.5	0.1		x	
Acacia bivenosa	2	8	x	x	
Acacia synchronicia	2	0.1	x	x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	2	0.1	x	x	
Senna artemisioides subsp. oligophylla	1.5	1.5	x	x	
Senna artemisioides subsp. helmsii	1.5	1	x	x	
Triodia longiceps	1.2	3	x	x	
Gossypium australe	1.2	0.5	x	x	
Acacia wanyu	1.1	0.1	x	x	
Aristida ingrata	1.1	0.1	x	x	
Rhynchosia minima	1	0.5	x	x	
Eremophila forrestii subsp. forrestii	0.8	0.1		x	
**Cenchrus ciliaris*	0.7	5	x	x	
Eulalia aurea	0.7	0.5	x	x	
Isotropis atropurpurea	0.7	0.1	x	x	
Scaevola spinescens	0.7	0.1	x	x	
Abutilon lepidum	0.6	0.1		x	
Triodia epactia	0.5	6	x	x	
Ipomoea muelleri	0.5	1	x	x	
Corchorus tectus	0.5	0.5	x	x	
**Malvastrum americanum*	0.5	0.1	x	x	
Cucumis variabilis	0.5	0.1	x		
Euphorbia biconvexa	0.5	0.1		x	
Panicum decompositum	0.5	0.1		x	
Hibiscus sturtii var. campylochlamys	0.4	1	x	x	
Chrysopogon fallax	0.4	0.5	x	x	
Chloris pectinata	0.4	0.1	x	x	
Dichanthium sericeum subsp. humilius	0.4	0.1	x	x	
Eragrostis tenellula	0.4	0.1	x	x	
Eremophila longifolia	0.4	0.1		x	
Ptilotus astrolasius	0.4	0.1	x		
Solanum diversiflorum	0.4	0.1		x	
Waltheria indica	0.4	0.1		x	
Sida fibulifera	0.3	2		x	
Alysicarpus muelleri	0.3	0.1	x	x	
Cullen leucochaites	0.3	0.1		x	
Cynodon convergens	0.3	0.1		x	
Cyperus iria	0.3	0.1	x	x	
Eragrostis cumingii	0.3	0.1	x	x	
Goodenia forrestii	0.3	0.1	x	x	
Iseilema membranaceum	0.3	0.1	x	x	
Ptilotus appendiculatus	0.3	0.1		x	
Ptilotus exaltatus	0.3	0.1		x	
Solanum horridum	0.3	0.1	x	x	
**Cenchrus setiger*	0.2	1		x	
Alternanthera nana	0.2	0.5	x	x	
Dactyloctenium radulans	0.2	0.1	x	x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1	x	x	
Fimbristylis dichotoma	0.2	0.1		x	
Marsilea hirsuta	0.2	0.1		x	
Paspalidium rarum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1	x	x	
Trianthema triquetrum	0.2	0.1		x	
Abutilon otocarpum	0.1	0.5	x	x	
?Myriocephalus oldfieldii	0.1	0.1	x		
Boerhavia repleta	0.1	0.1	x		
Centipeda minima subsp. macrocephala	0.1	0.1	x	x	
Fabaceae sp.	0.1	0.1		x	
Goodenia triodiophila	0.1	0.1	x		
Marsilea exarata	0.1	0.1	x		
Perotis rara	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1	x	x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1	x		
Sida sp. L (A.M. Ashby 4202)	0.1	0.1	x		
Streptoglossa liatroides	0.1	0.1	x		
Triumfetta clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR191
Location MGA 50 380480 **mE** 7572698 **mN**

2020
Described by: MS, SC
Date: 30/10/2020
2021
Described by: SC, GB
Date: 19/03/2021



Type: Releve 50 x 50
Landform: Mesa Top
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia arida mid sparse shrubland over Triodia epactia low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia arida	1.2	2	x	x	
Acacia bivenosa	1.2	0.1	x	x	
Capparis spinosa subsp. nummularia	0.8	0.1	x	x	
Acacia synchronicia	0.5	0.1	x	x	
Hibiscus goldsworthii	0.5	0.1	x		
Psydrax latifolia	0.5	0.1	x	x	
Tribulus suberosus	0.5	0.1	x	x	
Eremophila cuneifolia	0.4	0.1	x	x	
Rhagodia eremaea	0.4	0.1	x	x	
Triodia epactia	0.3	25	x	x	
Cymbopogon ambiguus	0.2	0.1	x	x	
Eriachne mucronata	0.2	0.1	x	x	
Salsola australis	0.2	0.1	x	x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Iseilema sp.	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR192
Location MGA 50 380452 **mE** 7572770 **mN**

2020
Described by: MS, SC
Date: 30/10/2020
2021
Described by: SC, GB
Date: 19/03/2021

Type: Releve 50 x 50
Landform: Mesa Slope
Slope: Steep, Moderate
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Acacia bivenosa and Eremophila cuneifolia mid to low sparse shrubland over Triodia wiseana and Triodia epactia low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	1.2	1	x	x	
Senna glutinosa subsp. glutinosa	1.2	0.1	x	x	
Acacia ancistrocarpa	0.5	0.1	x		
Eremophila cuneifolia	0.5	0.1	x	x	
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x		
Tribulus suberosus	0.4	0.1		x	
Triodia epactia	0.3	10	x	x	
Triodia wiseana	0.3	10	x	x	
Senna artemisioides subsp. oligophylla	0.3	0.1		x	
Amaranthus cuspidifolius	0.1	0.1	x	x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Maireana sp.	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR193
Location MGA 50 379636 **mE** 7572872 **mN**

2020
Described by: MS, SC
Date: 30/10/2020
2021
Described by: BE, GB
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Mesa Slope
Slope: Steep, Moderate
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia bivenosa mid sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Excellent **Disturbance Type:** Hydrological change
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia bivenosa	1.2	0.1	x	x	
Senna glutinosa subsp. glutinosa	0.7	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.5	0.1	x	x	
Ptilotus auriculifolius	0.4	0.1		x	
Triodia wiseana	0.3	15	x	x	
Boerhavia coccinea	0.3	0.1		x	
Dolichocarpa crouchiana	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Sporobolus australasicus	0.3	0.1		x	
Streptoglossa sp.	0.3	0.1		x	
Trianthema triquetrum	0.3	0.1		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Enneapogon caerulescens	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Lepidium pholidogynum	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Hibiscus goldsworthii	0.05	0.1		x	
Malvaceae sp.	0.05	0.1		x	
Sclerolaena densiflora	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ194
Location MGA 50 379451 **mE** 7573194 **mN**

2020
Described by: MS, SC
Date: 30/10/2020
2021
Described by: SC, BD
Date: 2/05/2021

Type: Quadrat 50 x 50
Landform: Mesa Top
Slope: Gentle, Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia arida mid sparse shrubland over Triodia epactia and Triodia wiseana low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	1.8	0.1		x	
Acacia ancistrocarpa	1.8	0.1		x	
Acacia arida	1.2	2	x	x	
Acacia bivenosa	1	0.1	x	x	
Codonocarpus cotinifolius	0.8	0.1	x	x	
Psydrax latifolia	0.8	0.1	x	x	
Rhagodia eremaea	0.8	0.1		x	
Senna glutinosa subsp. glutinosa	0.8	0.1		x	
Dodonaea coriacea	0.5	0.1		x	
Hibiscus goldsworthii	0.5	0.1		x	
Aristida burbidgeae	0.4	0.1		x	
Cymbopogon ambiguus	0.4	0.1	x	x	
Triodia epactia	0.3	15	x	x	
Triodia wiseana	0.3	10	x	x	
Achyranthes aspera	0.3	0.1		x	
Enchylaena tomentosa var. tomentosa	0.3	0.1		x	
Eriachne mucronata	0.3	0.1	x	x	
Maireana georgei	0.2	0.1	x		
Nicotiana benthamiana	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
**Portulaca pilosa*	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Aristida contorta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Peripleura virgata	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus helipteroides	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Cynodon prostratus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR195
Location MGA 50 379465 **mE** 7573139 **mN**

2020
Described by: MS, SC
Date: 30/10/2020
2021
Described by: SC, BD
Date: 2/05/2021

Type: Releve 50 x 50
Landform: Mesa Slope
Slope: Steep, Moderate
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown

Vegetation: *Acacia bivenosa mid sparse shrubland over Triodia wiseana (and Triodia epactia) low open hummock grassland*

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Psydrax latifolia	1.5	0.1		x	
Senna glutinosa subsp. glutinosa	1.5	0.1		x	
Acacia bivenosa	1.1	1	x	x	
Triodia wiseana	0.3	15	x	x	
Triodia epactia	0.3	1	x	x	
Eremophila cuneifolia	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Enneapogon caerulescens	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Lepidium ?pholidogynum	0.1	0.1		x	
Maireana melanocoma	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Sclerolaena eriacantha	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ200
Location MGA 50 412307 **mE** 7561904 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Quadrat 50 x 50
Landform: Low hill
Slope: Gentle
Rock Type: Shale
Soil Type: Clay, Loam
Soil Colour: Light Brown

Vegetation: *Eucalyptus leucophloia subsp. leucophloia low isolated trees over Acacia ancistrocarpa, Acacia atkinsiana and Acacia bivenosa low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Excellent **Disturbance Type:** Litter
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus leucophloia subsp. leucophloia	6	0.5		x	
Acacia ancistrocarpa	1	1		x	
Acacia atkinsiana	1	1		x	
Acacia bivenosa	0.5	1		x	
Triodia wiseana	0.4	25		x	
Acacia synchronicia	0.3	0.1		x	
Eriachne mucronata	0.3	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KQ201
Location	MGA 50 416745 **mE** 7563838 **mN**

2020
Described by: N/A
Date: N/A

2021
Described by: BE, GB
Date: 21/03/2021

Type:	Quadrat 50 x 50
Landform:	Stony plain
Slope:	Flat
Rock Type:	Basalt, Ironstone
Soil Type:	Loam, Sand
Soil Colour:	Dark Brown

Vegetation: *Corymbia hamersleyana low open woodland over Acacia ancistrocarpa and Acacia inaequilatera tall sparse shrubland over Ptilotus astrolasius low sparse shrubland over Triodia epactia low open hummock grassland over Bulbostylis barbata and Arivela viscosa low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	4	1		x	
Acacia ancistrocarpa	2.5	3		x	
Acacia inaequilatera	2.4	0.5		x	
Acacia bivenosa	1.4	0.1		x	
Senna glutinosa subsp. ×luerssenii	1.4	0.1		x	
Jasminum didymum subsp. lineare	1.2	0.1		x	
Triodia epactia	0.7	23		x	
Senna artemisioides subsp. oligophylla	0.6	0.1		x	
Eriachne benthamii	0.4	0.1		x	
Euphorbia tannensis subsp. eremophila	0.4	0.1		x	
Sida echinocarpa	0.4	0.1		x	
Boerhavia coccinea	0.3	0.1		x	
Bonamia erecta	0.3	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.3	0.1		x	
Gossypium australe	0.3	0.1		x	
Arivela viscosa	0.2	0.5		x	
Aristida contorta	0.2	0.1		x	
Indigofera colutea	0.2	0.1		x	
Corchorus laniflorus	0.15	0.1		x	
Ptilotus astrolasius	0.1	4		x	
Bulbostylis barbata	0.1	1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Bonamia pannosa	0.05	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Euphorbia boophthona	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Heliotropium inexplicitum	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Solanum diversiflorum	0.05	0.1		x	
Trigastrotheca molluginea	0.05	0.1		x	
Malvaceae sp.	0.04	0.1		x	
Dysphania sp.	0.03	0.5		x	
Abutilon sp.	0.03	0.1		x	
Euphorbia vaccaria var. vaccaria	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ202
Location MGA 50 413506 **mE** 7562144 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Quadrat 50 x 50
Landform: Interdrainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia synchronicia and Acacia ancistrocarpa low to mid sparse shrubland over Triodia epactia low open hummock grassland over Arivela viscosa low sparse herbland*

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia pyrifolia var. pyrifolia	2	0.1		x	
Acacia ancistrocarpa	1.5	2		x	
Stylobasium spathulatum	1.5	0.1		x	
Acacia synchronicia	1	5		x	
Arivela viscosa	0.5	1		x	
Acacia bivenosa	0.5	0.1		x	
Triodia epactia	0.3	20		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Sida arsiniata	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Boerhavia coccinea	0.2	0.1		x	
Dactyloctenium radulans	0.2	0.1		x	
Eragrostis dielsii	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Indigofera colutea	0.2	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Sida ?spinosa	0.2	0.1		x	
Yakirra australiensis var. australiensis	0.2	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia ptychosperma	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gossypium australe	0.1	0.1		x	
Hibiscus sturtii var. grandiflorus	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum ?horridum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Bonamia media	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.05	0.1		x	
Tribulus hirsutus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ203
Location MGA 50 416333 **mE** 7563387 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 21/03/2021

Type: Quadrat 50 x 50
Landform: Stony plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Dark Brown

Vegetation: *Acacia xiphophylla tall open shrubland over Ptilotus astrolasius low isolated shrubs over Triodia epactia and Triodia wiseana low sparse shrubland over Dysphania kalpari low isolated herbs*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3.7	12		x	
Acacia ancistrocarpa	1.9	0.1		x	
Rhynchosia minima	1.9	0.1		x	
Eremophila forrestii subsp. forrestii	1.8	0.1		x	
Acacia bivenosa	1.6	0.1		x	
Senna glutinosa subsp. ×luerssenii	1.3	0.1		x	
Triodia wiseana	0.5	2		x	
Sida arenicola	0.5	0.1		x	
Triodia epactia	0.4	6		x	
Arivela viscosa	0.4	0.1		x	
Boerhavia coccinea	0.4	0.1		x	
Euphorbia tannensis subsp. eremophila	0.4	0.1		x	
Hibiscus brachychlaenus	0.4	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.4	0.1		x	
Triumfetta clementii	0.4	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Solanum cleistogamum	0.3	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Enchylaena tomentosa var. tomentosa	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Gomphrena cunninghamii	0.2	0.1		x	
Trianthema triquetrum	0.2	0.1		x	
Tribulus macrocarpus	0.2	0.1		x	
Dysphania kalpari	0.1	0.5		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Trachymene sp.	0.1	0.1		x	
Ptilotus astrolasius	0.05	0.5		x	
Bulbostylis barbata	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Gossypium australe	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Sporobolus australasicus	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	
Goodenia microptera	0.04	0.1		x	
Euphorbia vaccaria var. vaccaria	0.03	0.1		x	
Malvaceae sp.	0.03	0.1		x	
Portulaca oleracea	0.03	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR204		
Location	MGA 50	413556 **mE**	7562244 **mN**

2020
Described by: N/A
Date: N/A

2021
Described by: SC, BD
Date: 21/03/2021

Type: Releve 50 x 50
Landform: Drainage
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix mid open woodland over Melaleuca glomerata and Acacia ancistrocarpa tall open shrubland over Triodia epactia low open hummock grassland*

Condition: Very Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eucalyptus victrix	12	3		x	
Corymbia hamersleyana	9	0.1		x	
Melaleuca glomerata	5	6		x	
Acacia trachycarpa	2.5	0.1		x	
Melaleuca bracteata	2.5	0.1		x	
Acacia ancistrocarpa	2	6		x	
**Vachellia farnesiana*	2	0.1		x	
Acacia colei var. colei	2	0.1		x	
Gossypium robinsonii	2	0.1		x	
Corchorus laniflorus	0.8	0.1		x	
Acacia synchronicia	0.5	0.1		x	
Triodia epactia	0.4	11		x	
**Setaria verticillata*	0.4	0.1		x	
Cyperus vaginatus	0.4	0.1		x	
Gossypium australe	0.4	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.3	0.1		x	
Indigofera monophylla	0.3	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Arivela viscosa	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Tephrosia rosea var. clementii	0.05	0.1		x	
Senna notabilis	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ205
Location MGA 50 415794 **mE** 7563056 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 21/03/2021

Type: Quadrat 50 x 50
Landform: Low Rocky hill
Slope: Moderate
Rock Type: Quartz, Mudstone
Soil Type: Loam, Sand
Soil Colour: Light Brown

Vegetation: *Eucalyptus leucophloia subsp. leucophloia low open woodland over Senna glutinosa subsp. pruinosa and Acacia bivenosa mid sparse shrubland over Triodia wiseana low hummock grassland over Bulbostylis barbata low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus leucophloia subsp. leucophloia	6	1		x	
Acacia ancistrocarpa	3	0.1		x	
Corymbia hamersleyana	2.2	0.1		x	
Senna glutinosa subsp. pruinosa	1.8	0.5		x	
Acacia synchronicia	1.8	0.1		x	
Acacia bivenosa	1.7	0.5		x	
Hakea lorea subsp. lorea	1.7	0.1		x	
Acacia inaequilatera	1	0.1		x	
Tribulus suberosus	0.7	0.1		x	
Triodia wiseana	0.5	32		x	
Fimbristylis dichotoma	0.3	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Trianthema triquetrum	0.2	0.1		x	
Euphorbia boophthona	0.15	0.1		x	
Bulbostylis barbata	0.1	3		x	
Cucumis variabilis	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Evolvulus alsinoides var. indet	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Ptilotus astrolasius	0.05	0.1		x	
Ptilotus calostachyus	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Solanum diversiflorum	0.05	0.1		x	
Trachymene sp.	0.05	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.05	0.1		x	
Dysphania sp.	0.04	0.1		x	
Polycarpaea holtzei	0.04	0.1		x	
Portulaca oleracea	0.04	0.1		x	
Trigastrotheca molluginea	0.04	0.1		x	
Arivela viscosa	0.03	0.1		x	
Solanum cleistogamum	0.03	0.1		x	
Malvaceae sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ206
Location MGA 50 413643 **mE** 7562290 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Quadrat 50 x 50
Landform: Broad drainage
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana and Eucalyptus victrix low open woodland over Acacia trachycarpa and Acacia ancistrocarpa tall shrubland over Acacia pyrifolia low sparse shrubland over Triodia epactia low hummock grassland over Arivela viscosa and Trianthema pilosum low sparse herbland*

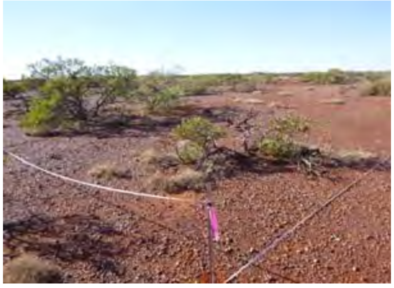
Condition: Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	9	1		x	
Corymbia hamersleyana	7	3		x	
Eucalyptus leucophloia subsp. leucophloia	5	0.1		x	
Acacia trachycarpa	2.5	30		x	
Acacia ancistrocarpa	2.5	20		x	
Acacia bivenosa	2.5	0.1		x	
Acacia colei var. colei	2	0.1		x	
Grevillea pyramidalis subsp. leucadendron	2	0.1		x	
Stylobasium spathulatum	2	0.1		x	
Acacia pyrifolia var. pyrifolia	1	2		x	
Acacia synchronicia	1	0.1		x	
Triodia epactia	0.5	60		x	
Arivela viscosa	0.5	3		x	
Indigofera monophylla	0.4	0.1		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Aristida contorta	0.3	0.1		x	
Digitaria ctenantha	0.3	0.1		x	
Sida aff. fibulifera	0.3	0.1		x	
**Cenchrus setiger*	0.2	0.1		x	
**Malvastrum americanum*	0.2	0.1		x	
**Setaria verticillata*	0.2	0.1		x	
Cullen martinii	0.2	0.1		x	
Cullen sp.	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Gossypium australe	0.2	0.1		x	
Indigofera linifolia	0.2	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Trianthema pilosum	0.1	0.5		x	
**Tribulus terrestris*	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cyperus squarrosus	0.1	0.1		x	
Cyperus vaginatus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Melhania oblongifolia	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Portulaca oleracea	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ207
Location MGA 50 356247 **mE** 7582122 **mN**



2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 22/03/2021

Type: Quadrat 50 x 50
Landform: Stony plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Dark Brown

Vegetation: *Acacia xiphophylla and Acacia synchronicia tall sparse shrubland over Triodia glabra low sparse hummock grassland over Eriachne pulchella subsp. pulchella low sparse herbland*

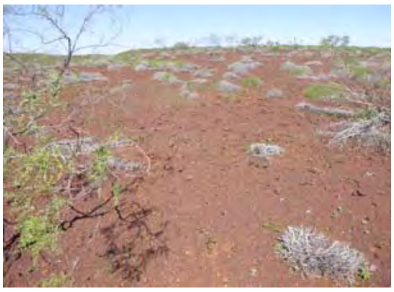
Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	2.9	8		x	
Acacia synchronicia	2.8	1		x	
Senna glutinosa subsp. glutinosa x stricta	0.6	0.1		x	
Triodia glabra	0.4	3		x	
Maireana platycarpa	0.4	0.1		x	
Enchylaena tomentosa var. tomentosa	0.3	0.1		x	
Paspalidium clementii	0.2	0.1		x	
Ptilotus exaltatus	0.15	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	1		x	
Enneapogon caerulescens	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Abutilon sp.	0.05	0.1		x	
Arivela viscosa	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Trianthema triquetrum	0.05	0.1		x	
Tribulus astrocarpus	0.04	0.1		x	
Cynodon prostratus	0.03	0.1		x	
Portulaca oleracea	0.03	0.1		x	
Dysphania sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR208		
Location	MGA 50	413806 **mE**	7562391 **mN**



2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Releve 50 x 50
Landform: Hill
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Senna glutinosa subsp. luerssenii mid sparse shrubland over Triodia wiseana low open hummock grassland*

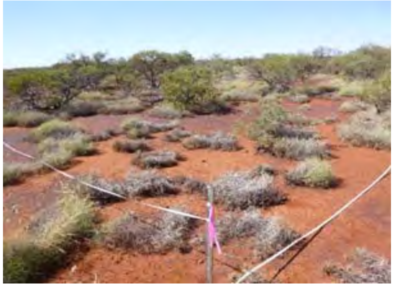
Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Corymbia hamersleyana	5	0.1		x	
Senna glutinosa subsp. ×luerssenii	2	1		x	
Acacia atkinsiana	1.5	0.1		x	
Acacia xiphophylla	1.5	0.1		x	
Hakea lorea subsp. lorea	1.5	0.1		x	
Acacia synchronicia	1.2	0.1		x	
Acacia ancistrocarpa	1.1	0.1		x	
Acacia bivenosa	1	0.1		x	
Acacia inaequilatera	1	0.1		x	
Senna artemisioides subsp. oligophylla	1	0.1		x	
Triodia wiseana	0.3	16		x	
Acacia pyrifolia var. pyrifolia	0.3	0.1		x	
Senna glutinosa subsp. pruinosa	0.3	0.1		x	
Bonamia media	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Ptilotus sp.	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	
Polycarpaea holtzei	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ209
Location MGA 50 357711 **mE** 7580737 **mN**



2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 22/03/2021

Type: Quadrat 50 x 50
Landform: Stony plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Dark Brown

Vegetation: *Acacia xiphophylla and Acacia synchronicia tall open shrubland over Triodia glabra and Triodia epactia low open hummock grassland over Eriachne pulchella subsp. pulchella low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3.7	13		x	
Acacia synchronicia	3.2	0.5		x	
Senna glutinosa subsp. glutinosa x stricta	2.2	0.1		x	
Enchylaena tomentosa var. tomentosa	0.6	0.1		x	
Triodia glabra	0.5	12		x	
Triodia epactia	0.4	1		x	
Maireana platycarpa	0.4	0.1		x	
Paspalidium clementii	0.15	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	1		x	
Euphorbia boophthona	0.1	0.1		x	
Iseilema dolichotrichum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Arivela viscosa	0.05	0.1		x	
Goodenia microptera	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Streptoglossa sp.	0.05	0.1		x	
Dysphania sp.	0.04	0.1		x	
Euphorbia vaccaria var. vaccaria	0.04	0.1		x	
Goodenia forrestii	0.03	0.1		x	
Malvaceae sp.	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR210
Location MGA 50 413948 **mE** 7562398 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall sparse shrubland over Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

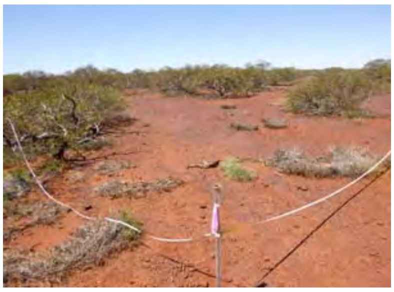
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	8		x	
Acacia synchronicia	1.5	0.1		x	
Triodia epactia	0.3	1		x	
Eremophila forrestii subsp. forrestii	0.3	0.1		x	
Arivela viscosa	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Cynodon prostratus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Heliotropium heteranthum	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus astrocarpus	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ211		
Location	MGA 50	359899 **mE**	7578800 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 22/03/2021



Type: Quadrat 50 x 50
Landform: Stony plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Dark Brown

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia epactia and Triodia glabra low sparse hummock grassland over Eriachne pulchella subsp. pulchella low isolated herbs*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Acacia xiphophylla	3.8	14		x	
Senna glutinosa subsp. glutinosa x stricta	1.8	0.1		x	
Senna artemisioides subsp. oligophylla	0.7	0.1		x	
Rhagodia eremaea	0.6	0.1		x	
Triodia epactia	0.5	2		x	
Lepidium platypetalum	0.5	0.1		x	
Triodia glabra	0.4	1		x	
Acacia synchronicia	0.4	0.1		x	
Maireana platycarpa	0.4	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.5		x	
Paspalidium clementii	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Malvaceae sp.	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus exaltatus	0.05	0.1		x	
Goodenia microptera	0.04	0.1		x	
Heliotropium heteranthum	0.04	0.1		x	
Indet herb sp.	0.04	0.1		x	
Sida sp.	0.03	0.1		x	
Streptoglossa sp.	0.03	0.1		x	
Tribulus astrocarpus	0.03	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ212
Location MGA 50 413998 **mE** 7562567 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 21/03/2021

Type: Quadrat 70 x 30
Landform: Drainage
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix tall woodland over Triodia epactia low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** Vehicle tracks
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eucalyptus victrix	12	11		x	
Acacia colei var. colei	3	0.1		x	
Acacia trachycarpa	2.5	0.1		x	
Cymbopogon ambiguus	0.8	0.1		x	
Arivela viscosa	0.6	0.1		x	
Cyperus vaginatus	0.6	0.1		x	
Corchorus tectus	0.5	0.1		x	
Triodia epactia	0.4	1		x	
Eriachne tenuiculmis	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Afrohybanthus aurantiacus	0.2	0.1		x	
Boerhavia coccinea	0.2	0.1		x	
Pluchea dentex	0.2	0.1		x	
Sida sp.	0.2	0.1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Tephrosia rosea var. clementii	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR214
Location MGA 50 414313 **mE** 7562486 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 22/03/2021

Type: Releve 50 x 50
Landform: Hill top
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia synchronicia and Acacia inaequilatera tall sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	3	1		x	
Acacia synchronicia	2	2		x	
Senna glutinosa subsp. glutinosa	0.9	0.1		x	
Acacia ancistrocarpa	0.8	0.1		x	
Tribulus suberosus	0.6	0.1		x	
Acacia bivenosa	0.5	0.1		x	
Senna glutinosa subsp. pruinosa	0.5	0.1		x	
Triodia wiseana	0.3	15		x	
Ptilotus fusiformis	0.2	0.1		x	
Senna glutinosa subsp. ×luerssenii	0.2	0.1		x	
Arivela viscosa	0.1	0.1		x	
Bonamia media	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR216
Location MGA 50 414673 **mE** 7562905 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 22/03/2021

Type: Releve 50 x 50
Landform: Hill top
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia pruinocarpa tall sparse shrubland over Triodia wiseana low sparse hummock grassland*

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia pruinocarpa	4	1		x	
Acacia ancistrocarpa	2.5	0.1		x	
Acacia atkinsiana	2.1	0.1		x	
Acacia inaequilatera	1.5	0.1		x	
Acacia synchronicia	1.5	0.1		x	
Senna glutinosa subsp. glutinosa	1.1	0.1		x	
Tribulus suberosus	1	0.1		x	
Senna glutinosa subsp. pruinosa	0.5	0.1		x	
Triodia wiseana	0.4	9		x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 730(	0.4	0.1		x	
Eriachne mucronata	0.3	0.1		x	
Polycarpaea longiflora	0.2	0.1		x	
Arivela viscosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR218
Location MGA 50 414837 **mE** 7562898 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 22/03/2021

Type: Releve 50 x 50
Landform: Hill
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Senna glutinosa subsp. glutinosa low sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus leucophloia subsp. leucophloia	5	0.1		x	
Senna glutinosa subsp. glutinosa	1	1		x	
Ptilotus obovatus var. obovatus	0.5	0.1		x	
Tribulus suberosus	0.5	0.1		x	
Triodia wiseana	0.3	11		x	
Eriachne mucronata	0.3	0.1		x	
Gomphrena sp.	0.2	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. indet	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trachymene sp.	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Solanum sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ220
Location MGA 50 414939 **mE** 7562708 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 22/03/2021

Photo not available

Type: Quadrat 30 x 80
Landform: Drainage shoulder
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix low open woodland over Acacia trachycarpa and Acacia ancistrocarpa tall shrubland over Hibiscus sturtii var. platychlamys, Gossypium australe and Indigofera boviperda low sparse shrubland over Triodia epactia low open hummock grassland over Arivela viscosa, Dysphania kalpari and Boerhavia coccinea low sparse herbland*

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	5	1		x	
Stylobasium spathulatum	4	0.1		x	
Grevillea pyramidalis subsp. leucadendron	3	0.1		x	
Grevillea wickhamii subsp. indet	3	0.1		x	
Acacia trachycarpa	2.5	50		x	
Acacia ancistrocarpa	2.5	5		x	
Acacia pyrifolia var. pyrifolia	1.8	0.1		x	
Arivela viscosa	0.5	3		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.5	0.1		x	
Triodia epactia	0.4	25		x	
Afrohybanthus aurantiacus	0.4	0.1		x	
Digitaria ctenantha	0.4	0.1		x	
Triodia wiseana	0.4	0.1		x	
Dysphania kalpari	0.3	1		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Cullen martinii	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Euphorbia tannensis subsp. eremophila	0.3	0.1		x	
Ipomoea polymorpha	0.3	0.1		x	
Melhania oblongifolia	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Boerhavia coccinea	0.2	1		x	
Hibiscus sturtii var. platychlamys	0.2	1		x	
Alternanthera nana	0.2	0.1		x	
Boerhavia burbidgeana	0.2	0.1		x	
Bonamia pannosa	0.2	0.1		x	
Bulbostylis barbata	0.2	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.2	0.1		x	
Crotalaria medicaginea var. neglecta	0.2	0.1		x	
Dysphania melanocarpa forma melanocarpa	0.2	0.1		x	
Eragrostis cumingii	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Heliotropium cunninghamii	0.2	0.1		x	
Indigofera colutea	0.2	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.2	0.1		x	
Paspalidium rarum	0.2	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus axillaris	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.2	0.1		x	
Gossypium australe	0.1	1		x	
Indigofera boviperda subsp. boviperda	0.1	1		x	
**Cenchrus ciliaris*	0.1	0.1		x	
**Malvastrum americanum*	0.1	0.1		x	
**Tribulus terrestris*	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum horridum	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tephrosia rosea var. clementii	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ222
Location MGA 50 414826 **mE** 7562583 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 22/03/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa mid sparse shrubland over Triodia epactia low hummock grassland over Bulbostylis barbata low sparse herbland*

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	6	0.1		x	
Acacia ancistrocarpa	2	9		x	
Grevillea wickhamii subsp. indet	1.6	0.1		x	
Acacia inaequilatera	1.5	0.1		x	
Senna glutinosa subsp. glutinosa	1.5	0.1		x	
Triodia epactia	0.5	45		x	
Trichodesma zeylanicum var. zeylanicum	0.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.4	0.1		x	
Arivela viscosa	0.3	0.1		x	
Eriachne aristidea	0.3	0.1		x	
Jasminum didymum subsp. lineare	0.3	0.1		x	
Phyllanthus maderaspatensis	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
**Malvastrum americanum*	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Bonamia erecta	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Gossypium australe	0.2	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Bulbostylis barbata	0.1	1		x	
Bonamia pannosa	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. indet	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Melhania oblongifolia	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida rohlenae subsp. rohlenae	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ224
Location MGA 50 415452 **mE** 7563316 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 22/03/2021

Photo not available

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa mid shrubland over Triodia epactia low hummock grassland over Ptilotus calostachyus low open herbland*

Condition: Very Good **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	0.1		x	
Acacia ancistrocarpa	1.8	31		x	
Acacia bivenosa	1.5	0.1		x	
Acacia inaequilatera	1.2	0.1		x	
Acacia atkinsiana	1.1	0.1		x	
Chrysopogon fallax	0.8	0.1		x	
Grevillea wickhamii subsp. indet	0.8	0.1		x	
Triodia epactia	0.5	50		x	
Jasminum didymum subsp. lineare	0.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.5	0.1		x	
Seringia nephrosperma	0.4	0.1		x	
Solanum diversiflorum	0.4	0.1		x	
Gossypium australe	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Ptilotus calostachyus	0.1	11		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Hibiscus sturtii var. indet	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida sp.	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ226
Location MGA 50 416764 **mE** 7564230 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 23/03/2021

Photo not available

Type: Quadrat 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix low open woodland over Melaleuca glomerata tall shrubland over Triodia epactia low sparse hummock grassland*

Condition: Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Eucalyptus victrix	5	1		x	
Melaleuca glomerata	3	45		x	
Acacia colei var. colei	3	0.1		x	
Amaranthus undulatus	1.8	0.1		x	
Acacia ancistrocarpa	1.6	0.1		x	
Acacia pyrifolia var. pyrifolia	1.2	0.1		x	
Cymbopogon ambiguus	0.6	0.1		x	
Acacia bivenosa	0.5	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.5	0.1		x	
Cyperus vaginatus	0.5	0.1		x	
**Cenchrus ciliaris*	0.4	0.1		x	
**Setaria verticillata*	0.4	0.1		x	
Afrohybanthus aurantiacus	0.4	0.1		x	
Corchorus laniflorus	0.4	0.1		x	
Triodia epactia	0.3	3		x	
Arivela viscosa	0.3	0.1		x	
Eriachne tenuiculmis	0.3	0.1		x	
Ptilotus astrolasius	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
Themeda triandra	0.3	0.1		x	
Triumfetta johnstonii	0.3	0.1		x	
Eragrostis tenellula	0.2	0.1		x	
Euphorbia tannensis subsp. eremophila	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Gossypium australe	0.2	0.1		x	
Phyllanthus maderaspatensis	0.2	0.1		x	
Pterocaulon serrulatum var. velutinum	0.2	0.1		x	
Sida arsiniata	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.2	0.1		x	
Waltheria indica	0.2	0.1		x	
Aristida holathera var. holathera	0.1	0.1		x	
Boerhavia burbidgeana	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Calandrinia sp.	0.1	0.1		x	
Corchorus sp.	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Cyperus iria	0.1	0.1		x	
Cyperus squarrosus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dolichocarpa crouchiana	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gossypium robinsonii	0.1	0.1		x	
Heliotropium pachyphyllum	0.1	0.1		x	
Hibiscus sturtii var. platychlamys	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Melhania oblongifolia	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Pluchea sp.	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sida sp. L (A.M. Ashby 4202)	0.1	0.1		x	
Solanum ?horridum	0.1	0.1		x	
Tephrosia rosea var. clementii	0.1	0.1		x	
Tephrosia supina	0.1	0.1		x	
Trachymene sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Triumfetta sp.	0.1	0.1		x	
Streptoglossa sp.	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR227		
Location	MGA 50	311134 **mE**	7590991 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BE, GB
Date: 3/05/2021

Type: Releve 50 x 50
Landform: Sand dune
Slope: Gentle
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange, Red

Vegetation: *Grevillea eriostachya tall sparse shrubland over Scaevola sericophylla and Crotalaria cunninghamii low sparse shrubland over Triodia avenoides and Triodia epactia low open hummock grassland over Yakirra australiensis var. australiensis and Bulbostylis barbata low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: >10 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Grevillea eriostachya	3	8		x	
Hibiscus brachychlaenus	1.5	0.1		x	
Scaevola sericophylla	0.9	3		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.5	0.1		x	
Trichodesma zeylanicum var. grandiflorum	0.5	0.1		x	
Triodia avenoides	0.4	22		x	
Crotalaria cunninghamii subsp. sturtii	0.4	0.5		x	
Triodia epactia	0.3	2		x	
Aristida holathera var. holathera	0.3	0.1		x	
Bonamia erecta	0.3	0.1		x	
Corynotheca pungens	0.3	0.1		x	
Ptilotus polystachyus	0.3	0.1		x	
Quoya loxocarpa	0.3	0.1		x	
Yakirra australiensis var. australiensis	0.2	3		x	
Corchorus ?laniflorus	0.2	0.1		x	
Euphorbia myrtoides	0.2	0.1		x	
Tephrosia rosea var. clementii	0.2	0.1		x	
Bulbostylis barbata	0.1	0.5		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Paranotis pterospora	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus occidentalis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ228
Location MGA 50 311327 **mE** 7591545 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, BD
Date: 3/05/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Acacia stellaticeps low sparse shrubland over Triodia glabra low hummock grassland*

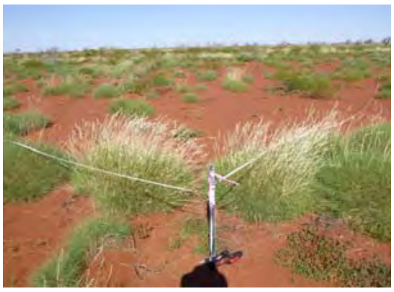
Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia stellaticeps	1	5		x	
Acacia sclerosperma subsp. sclerosperma	0.5	0.1		x	
Grevillea stenobotrya	0.5	0.1		x	
Stylobasium spathulatum	0.5	0.1		x	
Triodia glabra	0.3	45		x	
Triodia epactia	0.3	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Haloragis sp.	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Ptilotus sp.	0.05	0.1		x	
Trachymene pilbarensis	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ229		
Location	MGA 50	339704 **mE**	7589487 **mN**



2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 19/05/2021

Type: Quadrat 50 x 50
Landform: Open plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Red

Vegetation: *Acacia ancistrocarpa mid sparse shrubland over Bonamia erecta and Indigofera boviperda low sparse shrubland over Triodia glabra low open hummock grassland over Aristida contorta low sparse grassland over Bonamia alatisemina low isolated herbs*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: 1-5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Acacia ancistrocarpa	2	7		x	
Acacia inaequilatera	2	0.1		x	
Solanum phlomoides	1.5	0.1		x	
Acacia bivenosa	0.6	0.1		x	
Triodia glabra	0.5	22		x	
Enchylaena tomentosa var. tomentosa	0.5	0.1		x	
Aristida contorta	0.3	1		x	
Bonamia erecta	0.3	0.5		x	
Indigofera boviperda subsp. boviperda	0.3	0.5		x	
Paraneurachne muelleri	0.3	0.1		x	
Pterocaulon sphaeranthoides	0.3	0.1		x	
Corchorus tectus	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	0.1		x	
Abutilon sp. Onslow (F. Smith s.n. 10/9/61) (P1)	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eragrostis dielsii	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Goodenia forrestii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Iseilema vaginiflorum	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Bonamia alatisemina	0.05	0.5		x	
Bulbostylis barbata	0.05	0.1		x	
Cynodon prostratus	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Polygala glaucifolia	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	
Tribulus macrocarpus	0.05	0.1		x	
Yakirra australiensis var. australiensis	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ230
Location MGA 50 415557 **mE** 7564007 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 20/05/2021

Type: Quadrat 50 x 50
Landform: Flood plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa and Acacia inaequilatera tall sparse shrubland over Ptilotus astrolasius, Senna artemisioides subsp. oligophylla and Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90) low sparse shrubland over Triodia epactia low open hummock grassland over Dysphania rhadinostachya, Euphorbia boophthona and Portulaca oleracea low sparse herbland*

Condition: Very Good **Disturbance Type:** Weeds, Grazing
Fire Age: >10 years

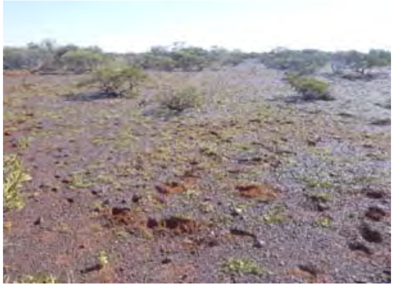
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia ancistrocarpa	3	5		x	
Acacia inaequilatera	2	0.5		x	
Acacia bivenosa	1.6	0.1		x	
Grevillea wickhamii subsp. indet	1.4	0.1		x	
Themeda triandra	1	0.1		x	
Chrysopogon fallax	0.9	0.1		x	
Acacia pyrifolia var. pyrifolia	0.8	0.1		x	
Gossypium australe	0.8	0.1		x	
Senna artemisioides subsp. helmsii	0.6	0.1		x	
Solanum diversiflorum	0.6	0.1		x	
Stylobasium spathulatum	0.6	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.5	8		x	
Corymbia hamersleyana	0.5	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.5	0.1		x	
Triodia epactia	0.4	27		x	
Senna artemisioides subsp. oligophylla	0.4	1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.4	0.5		x	
Amaranthus undulatus	0.4	0.1		x	
Crotalaria medicaginea var. neglecta	0.4	0.1		x	
Cucumis variabilis	0.4	0.1		x	
Ptilotus astrolasius	0.3	3		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Aristida holathera var. holathera	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Heliotropium ovalifolium	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Pterocaulon sphacelatum	0.3	0.1		x	
Ptilotus auriculifolius	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Rhynchosia minima	0.3	0.1		x	
Euphorbia boophthona	0.2	0.5		x	
**Setaria verticillata*	0.2	0.1		x	
Corchorus laniflorus	0.2	0.1		x	
Corchorus tridens	0.2	0.1		x	
Dolichocarpa crouchiana	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Gossypium robinsonii	0.2	0.1		x	
Isotropis atropurpurea	0.2	0.1		x	
Melhania oblongifolia	0.2	0.1		x	
Paraneurachne muelleri	0.2	0.1		x	
Ptilotus xerophilus	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sida echinocarpa	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Waltheria indica	0.2	0.1		x	
Portulaca oleracea	0.1	0.5		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bonamia erecta	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Corchorus tectus	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Euphorbia vaccaria var. vaccaria	0.1	0.1		x	
Evolvulus alsinoides var. decumbens	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Paspalidium basicladum	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Solanum horridum	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Tephrosia sp.	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR231
Location MGA 50 413354 **mE** 7564012 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 20/05/2021



Type: Releve 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall open shrubland over Triodia wiseana low sparse hummock grassland over Ptilotus aervoides and Cynodon prostratus low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	16		x	
Senna glutinosa subsp. glutinosa x stricta	0.6	0.1		x	
Triodia wiseana	0.4	3		x	
Triodia epactia	0.4	0.1		x	
Ptilotus exaltatus	0.2	0.1		x	
Ptilotus fusiformis	0.2	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Eriachne pulchella subsp. pulchella	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Maireana planifolia	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Ptilotus aervoides	0.05	2		x	
Cynodon prostratus	0.05	1		x	
Heliotropium heteranthum	0.05	0.1		x	
Tribulus astrocarpus	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR232
Location MGA 50 412642 **mE** 7562991 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 20/05/2021

Type: Quadrat 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana low open woodland over Grevillea pyramidalis tall sparse shrubland over Acacia ancistrocarpa mid sparse shrubland over Sida echinocarpa, Indigofera boviperda and Ptilotus astrolasius low sparse shrubland over Triodia epactia low hummock grassland over Trigastrotheca molluginea low isolated herbs*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	6		x	
Grevillea pyramidalis subsp. leucadendron	3.5	1		x	
Acacia ancistrocarpa	1.9	9		x	
Acacia colei var. colei	1.7	0.1		x	
Hibiscus sturtii var. platychlamys	1	0.1		x	
Acacia pyrifolia var. pyrifolia	0.8	0.1		x	
Gossypium australe	0.6	0.1		x	
Acacia bivenosa	0.5	0.1		x	
Triodia epactia	0.4	31		x	
Sida echinocarpa	0.4	0.5		x	
Abutilon otocarpum	0.4	0.1		x	
Corchorus tectus	0.4	0.1		x	
Euphorbia tannensis subsp. eremophila	0.4	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.4	0.1		x	
Afrohybanthus aurantiacus	0.3	0.1		x	
Amaranthus undulatus	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Eragrostis xerophila	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.5		x	
Aristida holathera var. holathera	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Melhania oblongifolia	0.2	0.1		x	
Rhynchosia minima	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Ptilotus astrolasius	0.1	0.5		x	
Trigastrotheca molluginea	0.1	0.5		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema pilosum	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KR233		
Location	MGA 50	412550 **mE**	7562872 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 20/05/2021

Type: Releve 50 x 50
Landform: Creek
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix mid open woodland over Acacia trachycarpa tall sparse shrubland over Corchorus tectus and Sida rohlenae subsp. rohlenae low sparse shrubland over Triodia epactia low sparse hummock grassland over Cyperus vaginatus tall isolated sedges over Arivela viscosa and Malvastrum americanum low sparse herbland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

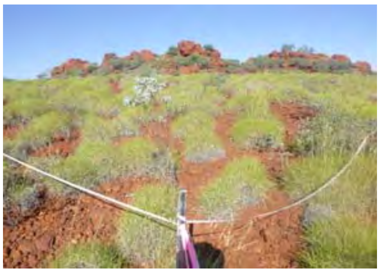
SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eucalyptus victrix	12	2		x	
Corymbia hamersleyana	4	0.1		x	
Acacia trachycarpa	3	3		x	
Stylobasium spathulatum	2.8	0.1		x	
Acacia colei var. colei	2.5	0.1		x	
Acacia pyrifolia var. pyrifolia	1.6	0.1		x	
Corchorus tectus	1.4	4		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	1	0.1		x	
Cyperus vaginatus	0.6	0.5		x	
Triodia epactia	0.5	7		x	
Amaranthus undulatus	0.4	0.1		x	
Cullen leucochaites	0.4	0.1		x	
Eragrostis cumingii	0.4	0.1		x	
Eriachne tenuiculmis	0.4	0.1		x	
Sida echinocarpa	0.4	0.1		x	
Sida rohlenae subsp. rohlenae	0.3	2		x	
**Setaria verticillata*	0.3	0.1		x	
Ammannia multiflora	0.3	0.1		x	
Eragrostis leptocarpa	0.3	0.1		x	
Goodenia lamprosperma	0.3	0.1		x	
Isotropis atropurpurea	0.3	0.1		x	
Paspalidium clementii	0.3	0.1		x	
Phyllanthus maderaspatensis	0.3	0.1		x	
**Malvastrum americanum*	0.2	1		x	
**Cenchrus ciliaris*	0.2	0.1		x	
**Cenchrus setiger*	0.2	0.1		x	
Abutilon otocarpum	0.2	0.1		x	
Digitaria ctenantha	0.2	0.1		x	
Fimbristylis dichotoma	0.2	0.1		x	
Gossypium australe	0.2	0.1		x	
Gossypium robinsonii	0.2	0.1		x	
Heliotropium inexplicitum	0.2	0.1		x	
Pterocaulon sphacelatum	0.2	0.1		x	
Stemodia grossa	0.2	0.1		x	
Tribulus macrocarpus	0.2	0.1		x	
Arivela viscosa	0.1	4		x	
Afrohybanthus aurantiacus	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Boerhavia coccinea	0.1	0.1		x	
Bulbostylis barbata	0.1	0.1		x	
Centipeda minima subsp. macrocephala	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Cyperus squarrosus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania kalpari	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eragrostis tenellula	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Euphorbia careyi	0.1	0.1		x	
Euphorbia tannensis subsp. eremophila	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Evolvulus alsinoides var. decumbens	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Glinus oppositifolius	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Marsilea exarata	0.1	0.1		x	
Melhania oblongifolia	0.1	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.1	0.1		x	
Perotis rara	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Pluchea dentex	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus astrolasius	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Synaptantha tillaeacea var. tillaeacea	0.1	0.1		x	
Trachymene oleracea subsp. oleracea	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.1	0.1		x	
Trigastrotheca molluginea	0.1	0.1		x	
Vigna lanceolata var. lanceolata	0.1	0.1		x	
Waltheria indica	0.1	0.1		x	
Calandrinia sp.	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ234
Location MGA 50 411249 **mE** 7562242 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 20/05/2021



Type: Quadrat 50 x 50
Landform: Sony hill
Slope: Moderate
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Senna artemisioides subsp. oligophylla mid sparse shrubland over Acacia synchronicia and Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300) low sparse shrubland over Triodia wiseana low open hummock grassland over Paspalidium basicladum low isolated grasses over Amaranthus undulatus low isolated herbs*

Condition: Very Good **Disturbance Type:** None
Fire Age: >10 years

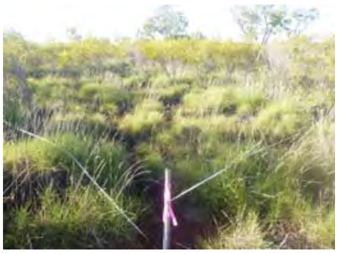
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Senna glutinosa subsp. pruinosa	1.8	0.1		x	
Eremophila longifolia	1.4	0.1		x	
Senna artemisioides subsp. oligophylla	1.2	1		x	
Acacia ancistrocarpa	1.2	0.1		x	
Senna glutinosa subsp. glutinosa	1.2	0.1		x	
Senna glutinosa subsp. ×luerssenii	1.2	0.1		x	
Tribulus suberosus	1.2	0.1		x	
Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	1	0.5		x	
Acacia synchronicia	0.6	1		x	
Enchylaena tomentosa var. tomentosa	0.5	0.1		x	
Jasminum didymum subsp. lineare	0.5	0.1		x	
Nicotiana benthamiana	0.5	0.1		x	
Cymbopogon ambiguus	0.4	0.1		x	
Triodia wiseana	0.3	40		x	
Amaranthus undulatus	0.3	0.5		x	
Acacia xiphophylla	0.3	0.1		x	
Aristida burbidgeae	0.3	0.1		x	
Cyperus cunninghamii subsp. cunninghamii	0.3	0.1		x	
Digitaria brownii	0.3	0.1		x	
Eriachne mucronata	0.3	0.1		x	
Paspalidium basicladum	0.2	0.5		x	
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	0.2	0.1		x	
Bulbostylis barbata	0.2	0.1		x	
Digitaria ctenantha	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Ptilotus exaltatus	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Sida rohlenae subsp. rohlenae	0.2	0.1		x	
Solanum horridum	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Gomphrena cunninghamii	0.1	0.1		x	
Gossypium australe	0.1	0.1		x	
Hibiscus sturtii var. campylochlamys	0.1	0.1		x	
Paspalidium clementii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus calostachyus	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Ptilotus fusiformis	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sida echinocarpa	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Boerhavia schomburgkiana	0.05	0.1		x	
Bonamia pilbarensis	0.05	0.1		x	
Heliotropium heteranthum	0.05	0.1		x	
Phyllanthus erwinii	0.05	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Cynodon prostratus	0.02	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port
Site:	KQ235
Location	MGA 50 411314 **mE** 7562737 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 21/05/2021



Type: Quadrat 50 x 50
Landform: Broad drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Corymbia hamersleyana, Corymbia candida subsp. candida and Acacia colei var. colei low open woodland over Acacia ancistrocarpa tall open shrubland over Waltheria indica, Indigofera boviperda and Isotropis atropurpurea low sparse shrubland over Triodia epactia low open hummock grassland over Chrysopogon fallax tall isolated tussock grasses over Rhynchosia minima tall sparse herbland*

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	2		x	
Acacia colei var. colei	4.5	0.5		x	
Grevillea pyramidalis subsp. leucadendron	4.2	0.1		x	
Corymbia candida subsp. candida	4	2		x	
Acacia ancistrocarpa	3	23		x	
**Vachellia farnesiana*	3	0.1		x	Outside quadrat
Acacia atkinsiana	2.5	0.1		x	
Acacia tumida var. pilbarensis	2.5	0.1		x	
Acacia bivenosa	1.8	0.1		x	
Gossypium australe	1.4	0.1		x	
Waltheria indica	1.2	5		x	
Rhynchosia minima	1.2	4		x	
**Malvastrum americanum*	1.2	0.1		x	
Eremophila longifolia	1.2	0.1		x	
Abutilon lepidum	1	0.1		x	
Themeda triandra	0.9	0.1		x	
Arivela viscosa	0.7	0.1		x	
Chrysopogon fallax	0.6	0.5		x	
**Setaria verticillata*	0.6	0.1		x	
Abutilon otocarpum	0.6	0.1		x	
Eriachne mucronata	0.5	0.1		x	
Trichodesma zeylanicum var. zeylanicum	0.5	0.1		x	
Triodia epactia	0.4	28		x	
Isotropis atropurpurea	0.4	0.5		x	
Alysicarpus muelleri	0.4	0.1		x	
Corchorus tectus	0.4	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.4	0.1		x	
Goodenia microptera	0.4	0.1		x	
Hibiscus sturtii var. campylochlamys	0.4	0.1		x	
Ptilotus astrolasius	0.4	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	2		x	
Cullen martinii	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Grevillea stenobotrya	0.3	0.1		x	
Notoleptopus decaisnei var. decaisnei	0.3	0.1		x	
Paspalidium basicladum	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Sida sp. Spiciform panicles (E. Leyland s.n. 14/8/90)	0.3	0.1		x	
Solanum cleistogamum	0.3	0.1		x	
Boerhavia coccinea	0.2	0.1		x	
Bulbostylis barbata	0.2	0.1		x	
Corchorus tridens	0.2	0.1		x	
Dysphania kalpari	0.2	0.1		x	Outside quadrat
Indigofera colutea	0.2	0.1		x	
Melhania oblongifolia	0.2	0.1		x	
Phyllanthus erwinii	0.2	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Sida fibulifera	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Yakirra australiensis var. australiensis	0.2	0.1		x	
Abutilon macrum	0.1	0.1		x	
Alternanthera nana	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Euphorbia trigonosperma	0.1	0.1		x	
Evolvulus alsinoides var. decumbens	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Pterocaulon sphacelatum	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ236
Location MGA 50 410319 **mE** 7562209 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 21/05/2021

Type: Quadrat 50 x 50
Landform: Stony low hill
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Triodia wiseana low open hummock grassland over Fimbristylis simulans low sparse sedgeland over Ptilotus calostachyus and Polycarpaea holtzei low sparse herbland*

Condition: Very Good **Disturbance Type:** Tracks
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia inaequilatera	4	0.1		x	
Acacia ancistrocarpa	1.5	0.1		x	
Acacia wanyu	1.5	0.1		x	
Senna glutinosa subsp. glutinosa	1.5	0.1		x	
Senna glutinosa subsp. pruinosa	1.5	0.1		x	
Acacia bivenosa	0.7	0.1		x	
Triodia wiseana	0.4	16		x	
Ptilotus calostachyus	0.4	0.5		x	
Aristida holathera var. holathera	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Fimbristylis simulans	0.2	3		x	
Bulbostylis barbata	0.2	0.1		x	
Eriachne pulchella subsp. dominii	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Ptilotus astrolasius	0.2	0.1		x	
Corchorus lasiocarpus subsp. lasiocarpus	0.1	0.1		x	
Polycarpaea corymbosa var. corymbosa	0.1	0.1		x	
Polycarpaea holtzei	0.05	0.5		x	
Portulaca oleracea	0.05	0.1		x	
Ptilotus aervoides	0.05	0.1		x	
Ptilotus auriculifolius	0.05	0.1		x	
Senna notabilis	0.05	0.1		x	
Trigastrotheca molluginea	0.05	0.1		x	
Bonamia pilbarensis	0.02	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ237
Location MGA 50 364042 **mE** 7578714 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 21/05/2021

Type: Quadrat 62.5 x 40
Landform: Broad drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana and Acacia tumida var. pilbarensis tall shrubland over Triodia epactia low hummock grassland over Eriachne mucronata low sparse grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: >10 years

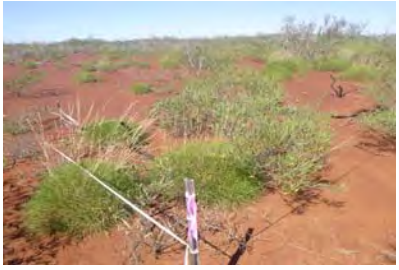
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Corymbia hamersleyana	5	0.1		x	Outside quadrat
Acacia atkinsiana	4	35		x	
Grevillea wickhamii subsp. indet	3.6	0.1		x	
Acacia tumida var. pilbarensis	2.5	2		x	
Seringia exastia	1.6	0.1		x	
Dodonaea coriacea	1.5	0.1		x	
Afrohybanthus aurantiacus	0.8	0.1		x	
Eriachne mucronata	0.5	5		x	
Triodia epactia	0.4	40		x	
Pluchea dentex	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1		x	
Euphorbia boophthona	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Solanum cleistogamum	0.1	0.1		x	
Bonamia alatisemina	0.05	0.1		x	
Malvaceae sp.	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	KQ238		
Location	MGA 50	361758 **mE**	7580204 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 21/05/2021



Type: Quadrat 50 x 50
Landform: Undulating plain
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Grevillea wickhamii and Acacia atkinsiana tall open shrubland over Acacia ancistrocarpa mid isolated shrubs over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: > 5 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Grevillea wickhamii subsp. indet	3.5	2		x	
Acacia atkinsiana	2.5	11		x	
Acacia ancistrocarpa	2	0.5		x	
Acacia bivenosa	1.5	0.1		x	
Codonocarpus cotinifolius	0.9	0.1		x	
Seringia exastia	0.8	0.1		x	
Tephrosia uniovulata	0.8	0.1		x	
Triodia wiseana	0.5	15		x	
Indigofera monophylla	0.4	0.1		x	
Aristida holathera var. holathera	0.3	0.1		x	
Paraneurachne muelleri	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Triumfetta chaetocarpa	0.3	0.1		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.2	0.1		x	
Aristida contorta	0.2	0.1		x	
Corchorus tectus	0.2	0.1		x	
Enneapogon caerulescens	0.2	0.1		x	
Eriachne pulchella subsp. dominii	0.2	0.1		x	
Euphorbia boophthona	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus calostachyus	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Bonamia pilbarensis	0.1	0.1		x	
Cullen leucochaites	0.1	0.1		x	
Eriachne aristidea	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Bonamia alatisemina	0.05	0.1		x	
Euphorbia australis var. subtomentosa	0.05	0.1		x	
Ptilotus axillaris	0.05	0.1		x	
Tribulus hirsutus	0.05	0.1		x	
Yakirra australiensis var. australiensis	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ239
Location MGA 50 360480 **mE** 7579186 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 22/05/2021

Type: Quadrat 50 x 50
Landform: Broad drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia ancistrocarpa and Acacia atkinsiana tall open shrubland over Cullen leucochaites and Bonamia erecta low sparse shrubland over Triodia epactia low hummock grassland*

Condition: Very Good **Disturbance Type:** Grazing
Fire Age: >10 years

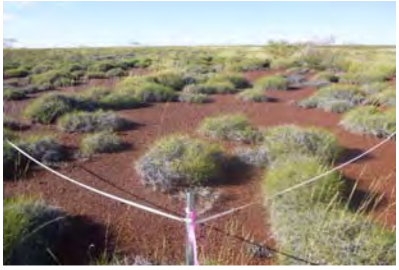
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia atkinsiana	4	4		x	
Acacia ancistrocarpa	3.5	15		x	
Acacia synchronicia	3	0.1		x	
Acacia bivenosa	2.4	0.1		x	
Acacia inaequilatera	2.3	0.1		x	
Ipomoea muelleri	1	0.1		x	
Cullen leucochaites	0.9	0.5		x	
Maireana planifolia	0.8	0.1		x	
Rhynchosia minima	0.8	0.1		x	
Abutilon lepidum	0.6	0.1		x	
Chrysopogon fallax	0.6	0.1		x	
Triodia epactia	0.5	37		x	
Dichanthium sericeum subsp. humilius	0.5	0.1		x	
Paraneurachne muelleri	0.5	0.1		x	
Bonamia erecta	0.4	0.5		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Cucumis variabilis	0.3	0.1		x	
Indigofera boviperda subsp. boviperda	0.3	0.1		x	
Ptilotus fusiformis	0.3	0.1		x	
Senna notabilis	0.3	0.1		x	
Solanum phlomoides	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Iseilema vaginiflorum	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Triumfetta chaetocarpa	0.2	0.1		x	
Triumfetta clementii	0.2	0.1		x	
Triumfetta johnstonii	0.2	0.1		x	
Bonamia alatisemina	0.1	0.1		x	
Bonamia pannosa	0.1	0.1		x	
Corchorus tectus	0.1	0.1		x	
Cullen pogonocarpum	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Polygala glaucifolia	0.1	0.1		x	
Ptilotus axillaris	0.1	0.1		x	
Solanum diversiflorum	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ240
Location MGA 50 358906 **mE** 7580661 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 22/05/2021



Type: Quadrat 50 x 50
Landform: Low stony rise
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia atkinsiana and Acacia ancistrocarpa tall sparse shrubland over Triodia wiseana low open hummock grassland*

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia ancistrocarpa	3	1		x	
Acacia atkinsiana	2.5	1		x	
Ptilotus calostachyus	0.5	0.1		x	
Triodia wiseana	0.4	28		x	
Ptilotus fusiformis	0.4	0.1		x	
Aristida holathera var. holathera	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Corchorus tectus	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Eriachne pulchella subsp. dominii	0.2	0.1		x	
Goodenia microptera	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Indigofera boviperda subsp. boviperda	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Bonamia alatisemina	0.05	0.1		x	
Portulaca oleracea	0.05	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ241
Location MGA 50 357130 **mE** 7582649 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 22/05/2021

Type: Quadrat 50 x 50
Landform: Gravelly clay plain with few crabholes
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia aptaneura low open forest over Paspalidium clementii and Urochloa occidentalis var. occidentalis low sparse tussock grassland over Abutilon lepidum and Portulaca oleracea low sparse herbland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

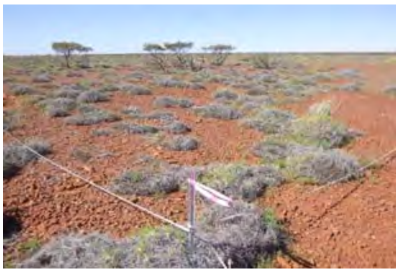
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia aptaneura	6	33		x	
Acacia wanyu	1.6	0.1		x	
Senna artemisioides subsp. oligophylla	0.6	0.1		x	
Abutilon lepidum	0.5	2		x	
Alysicarpus muelleri	0.5	0.1		x	
Urochloa occidentalis var. occidentalis	0.3	2		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Aristida contorta	0.3	0.1		x	
Chloris pectinata	0.3	0.1		x	
Dichanthium sericeum subsp. humilius	0.3	0.1		x	
Isotropis atropurpurea	0.3	0.1		x	
Ptilotus helipteroides	0.3	0.1		x	
Tephrosia aff. remotiflora	0.3	0.1		x	
**Bidens bipinnata*	0.2	0.1		x	
Boerhavia repleta	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Ptilotus xerophilus	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Solanum horridum	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Paspalidium clementii	0.1	4		x	
Portulaca oleracea	0.1	1		x	
Alternanthera nana	0.1	0.1		x	
Corchorus tectus	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Iseilema vaginiflorum	0.1	0.1		x	
Ptilotus auriculifolius	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Tribulus macrocarpus	0.1	0.1		x	
Arivela viscosa	0.05	0.1		x	
Bulbostylis barbata	0.05	0.1		x	
Nicotiana sp.	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ242
Location MGA 50 355850 **mE** 7583439 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 22/05/2021



Type: Quadrat 50 x 50
Landform: Low stony rise
Slope: Gentle
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall isolated shrubs over Triodia wiseana low sparse hummock grassland over Aristida contorta low sparse tussock grassland over Portulaca oleracea low sparse herbland*

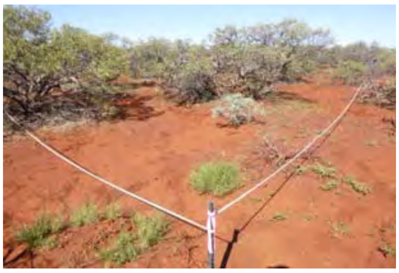
Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3	0.5		x	
Acacia synchronicia	1.2	0.1		x	
Triodia wiseana	0.4	9		x	
Aristida contorta	0.3	6		x	
Abutilon sp. Pilbara (W.R. Barker 2025)	0.3	0.1		x	
Aristida holathera var. holathera	0.3	0.1		x	
Euphorbia boophthona	0.3	0.1		x	
Paspalidium basicladum	0.3	0.1		x	
Ptilotus exaltatus	0.3	0.1		x	
Rhynchosia minima	0.3	0.1		x	
Sida echinocarpa	0.3	0.1		x	
Solanum diversiflorum	0.3	0.1		x	
**Malvastrum americanum*	0.2	0.1		x	
Corchorus tectus	0.2	0.1		x	
Cymbopogon sp.	0.2	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.2	0.1		x	
Eriachne aristidea	0.2	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.2	0.1		x	
Gomphrena ?affinis subsp. pilbarensis	0.2	0.1		x	
Goodenia forrestii	0.2	0.1		x	
Iseilema vaginiflorum	0.2	0.1		x	
Ptilotus auriculifolius	0.2	0.1		x	
Ptilotus helipteroides	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Sporobolus australasicus	0.2	0.1		x	
Streptoglossa sp.	0.2	0.1		x	
Portulaca oleracea	0.1	1		x	
Arivela viscosa	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Eriachne pulchella subsp. dominii	0.1	0.1		x	
Euphorbia australis var. subtomentosa	0.1	0.1		x	
Goodenia microptera	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Ptilotus clementii	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Tribulus hirsutus	0.1	0.1		x	
Yakirra australiensis var. australiensis	0.1	0.1		x	
Polycarpaea holtzei	0.05	0.1		x	
Ptilotus aervoides	0.05	0.1		x	
Trianthema triquetrum	0.05	0.1		x	
Cynodon prostratus	0.02	0.1		x	
Heliotropium heteranthum	0.02	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ243
Location MGA 50 355933 **mE** 7580582 **mN**



2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 22/05/2021

Type: Quadrat 50 x 50
Landform: Crabhole clay plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red

Vegetation: *Acacia xiphophylla tall shrubland over Enchylaena tomentosa var. tomentosa and Rhagodia eremaea low sparse chenopod shrubland over Eragrostis xerophila and Sporobolus australasicus low sparse grassland over Salsola australis low isolated herbs*

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia xiphophylla	3.5	32		x	
Senna glutinosa subsp. glutinosa	1.3	0.1		x	
Senna artemisioides subsp. oligophylla	0.8	0.1		x	
Eragrostis xerophila	0.4	0.5		x	
**Cenchrus ciliaris*	0.4	0.1		x	
**Setaria verticillata*	0.4	0.1		x	
Rhynchosia minima	0.4	0.1		x	
Enchylaena tomentosa var. tomentosa	0.3	0.5		x	
Rhagodia eremaea	0.3	0.5		x	
Salsola australis	0.3	0.5		x	
Amaranthus cuspidifolius	0.3	0.1		x	
Sporobolus australasicus	0.2	0.5		x	
Dichanthium sericeum subsp. humilius	0.2	0.1		x	
Paspalidium basicladum	0.2	0.1		x	
Ptilotus obovatus var. obovatus	0.2	0.1		x	
Hibiscus verdcourtii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus exaltatus	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Boerhavia coccinea	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KQ244
Location MGA 50 353715 **mE** 7581983 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 23/05/2021

Type: Quadrat 50 x 50
Landform: Clay plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Acacia aptaneura low woodland over Paspalidium rarum low sparse tussock grassland over Sida fibulifera low sparse herbland*

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Acacia aptaneura	4.5	22		x	
Acacia synchronicia	3	0.1		x	
Acacia bivenosa	2.4	0.1		x	
Acacia wanyu	1.5	0.1		x	
Senna artemisioides subsp. oligophylla	0.8	0.1		x	
Eucalyptus victrix	0.6	0.1		x	
Abutilon lepidum	0.3	0.1		x	
Triodia epactia	0.3	0.1		x	
Paspalidium rarum	0.2	3		x	
**Malvastrum americanum*	0.2	0.1		x	
**Setaria verticillata*	0.2	0.1		x	
Amaranthus cuspidifolius	0.2	0.1		x	
Chloris pectinata	0.2	0.1		x	
Dactyloctenium radulans	0.2	0.1		x	
Ptilotus xerophilus	0.2	0.1		x	
Urochloa occidentalis var. occidentalis	0.2	0.1		x	
Sida fibulifera	0.1	1		x	
Alternanthera nana	0.1	0.1		x	
Cheilanthes sieberi subsp. sieberi	0.1	0.1		x	
Eragrostis cumingii	0.1	0.1		x	
Evolvulus alsinoides var. villosicalyx	0.1	0.1		x	
Ipomoea muelleri	0.1	0.1		x	
Iseilema membranaceum	0.1	0.1		x	
Isotropis atropurpurea	0.1	0.1		x	
Phyllanthus erwinii	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Senna notabilis	0.1	0.1		x	
Sporobolus australasicus	0.1	0.1		x	
Boerhavia repleta	0.05	0.1		x	
Heliotropium ovalifolium	0.05	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: KR245
Location MGA 50 354923 **mE** 7581046 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: BD, BE
Date: 23/05/2021

Type: Releve 50 x 50
Landform: Creek
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red

Vegetation: *Eucalyptus victrix low woodland over *Prosopis pallida tall sparse shrubland over Acacia synchronicia mid sparse shrubland over Triodia epactia low sparse hummock grassland over Cynodon convergens, *Cenchrus ciliaris and Sporobolus australasicus low sparse tussock grassland over Ipomoea muelleri, Sida*

Condition: Poor **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Eucalyptus victrix	6	12		x	
Acacia xiphophylla	3	0.1		x	
**Prosopis pallida*	2.5	6		x	
Acacia synchronicia	1.4	1		x	
Senna artemisioides subsp. oligophylla	1.4	0.5		x	
Dichanthium fecundum	0.4	0.1		x	
Triodia epactia	0.3	6		x	
**Cenchrus ciliaris*	0.3	3		x	
Ipomoea muelleri	0.3	2		x	
**Malvastrum americanum*	0.3	1		x	
**Setaria verticillata*	0.3	0.1		x	
Arivela viscosa	0.3	0.1		x	
Dactyloctenium radulans	0.3	0.1		x	
Dichanthium sericeum subsp. humilius	0.3	0.1		x	
Dysphania rhadinostachya subsp. rhadinostachya	0.3	0.1		x	
Eragrostis tenellula	0.3	0.1		x	
Panicum decompositum	0.3	0.1		x	
Ptilotus exaltatus	0.3	0.1		x	
Sida spinosa	0.3	0.1		x	
Urochloa occidentalis var. occidentalis	0.3	0.1		x	
Cynodon convergens	0.2	4		x	
Sida fibulifera	0.2	2		x	
Sporobolus australasicus	0.2	2		x	
**Echinochloa colona*	0.2	0.1		x	
Cullen martinii	0.2	0.1		x	
Eriachne flaccida	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Iseilema vaginiflorum	0.2	0.1		x	
Ptilotus gomphrenoides	0.2	0.1		x	
Senna notabilis	0.2	0.1		x	
Setaria dielsii	0.2	0.1		x	
Solanum diversiflorum	0.2	0.1		x	
Solanum lasiophyllum	0.2	0.1		x	
**Citrullus amarus*	0.1	0.1		x	
Abutilon malvifolium	0.1	0.1		x	
Amaranthus cuspidifolius	0.1	0.1		x	
Bulbostylis turbinata	0.1	0.1		x	
Corchorus tridens	0.1	0.1		x	
Enchylaena tomentosa var. tomentosa	0.1	0.1		x	
Hibiscus verdcourtii	0.1	0.1		x	
Ipomoea polymorpha	0.1	0.1		x	
Phyllanthus maderaspatensis	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	
Ptilotus aervoides	0.1	0.1		x	
Ptilotus sp.	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Salsola australis	0.1	0.1		x	
Streptoglossa sp.	0.1	0.1		x	
Striga squamigera	0.1	0.1		x	
Trianthema triquetrum	0.1	0.1		x	
Boerhavia repleta	0.05	0.1		x	
Euphorbia inappendiculata var inappendiculata (P2)	0.05	0.1		x	
Neptunia dimorphantha	0.05	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	PPR01		
Location	MGA 50	294239 **mE**	7599412 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 50x10
Landform: Mangroves
Slope: Flat
Rock Type: N/A
Soil Type: Mud
Soil Colour: Brown

Vegetation: *Avicennia marina subsp. marina tall shrubland over Tecticornia sp. Sterile 1 low open chenopod shrubland*

Condition: Excellent **Disturbance Type:** None
Fire Age: Unknown

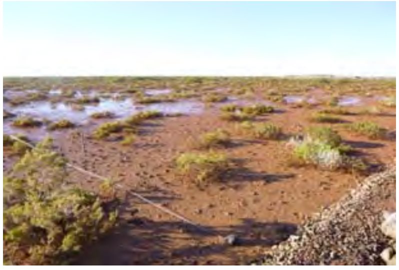
SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	2021	Notes
Avicennia marina subsp. marina	2.1	45		x	
Tecticornia sp. Sterile 1	0.3	11		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	PPQ02		
Location	MGA 50	294282 **mE**	7599571 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021



Type: Quadrat 50 x 50
Landform: Mud flat
Slope: Flat
Rock Type: N/A
Soil Type: Mud
Soil Colour: Brown

Vegetation: *Tecticornia halocnemoides low open chenopod shrubland*

Condition: Excellent **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Tecticornia halocnemoides subsp. tenuis	0.4	11		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port		
Site:	PPQ03		
Location	MGA 50	294360 **mE**	7599796 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Quadrat 50 x 50
Landform: Mud flat
Slope: Flat
Rock Type: N/A
Soil Type: Mud
Soil Colour: Brown

Vegetation: *Tecticornia sp. Sterile 1 low open chenopod shrubland*

Condition: Excellent **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Tecticornia auriculata	0.6	0.1		x	
Tecticornia sp. Sterile 1	0.3	20		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: PPR04
Location MGA 50 294422 **mE** 7600068 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 50 x 50
Landform: Edge of mud flat
Slope: Gentle
Rock Type: N/A
Soil Type: Loam, Soft Clay
Soil Colour: Light Brown

Vegetation: *Tecticornia auriculata and Tecticornia sp. Sterile 1 low open chenopod shrubland*

Condition: Very Good **Disturbance Type:** Weeds
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Tecticornia auriculata	0.6	5		x	
Tecticornia sp. Sterile 1	0.4	5		x	
Eragrostis falcata	0.3	0.1		x	
Frankenia ambita	0.2	0.1		x	
Muellerolimon salicorniaceum	0.2	0.1		x	
Neobassia astrocarpa	0.2	0.1		x	
Tecticornia sp. Sterile 2	0.2	0.1		x	
**Aerva javanica*	0.1	0.1		x	
Cyperus bulbosus	0.1	0.1		x	
Dysphania plantaginella	0.1	0.1		x	
Lawrencia viridigrisea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: PPR05
Location MGA 50 294438 **mE** 7600111 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 50 x 50
Landform: Sub dune
Slope: Gentle
Rock Type: N/A
Soil Type: Sand, Soft Clay
Soil Colour: Light Brown

Vegetation: *Triodia epactia low sparse hummock grassland over *Cenchrus ciliaris low tussock grassland over Sporobolus ?virginicus and Indigofera colutea low sparse herbland*

Condition: Poor **Disturbance Type:** Weeds
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Atriplex bunburyana	0.7	0.1		x	
Nicotiana occidentalis subsp. occidentalis	0.5	0.1		x	
**Cenchrus ciliaris*	0.3	60		x	
Triodia epactia	0.3	5		x	
Sporobolus ?virginicus	0.3	1		x	
Indigofera colutea	0.2	1		x	
Cullen pogonocarpum	0.2	0.1		x	
Cyperus bulbosus	0.2	0.1		x	
Dysphania plantaginella	0.2	0.1		x	
Eragrostis falcata	0.2	0.1		x	
Euphorbia trigonosperma	0.2	0.1		x	
Frankenia ambita	0.2	0.1		x	
Lotus cruentus	0.2	0.1		x	
Neobassia astrocarpa	0.2	0.1		x	
Salsola australis	0.2	0.1		x	
Swainsona pterostylis	0.2	0.1		x	
Triraphis mollis	0.2	0.1		x	
Atriplex codonocarpa	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Lawrencia viridigrisea	0.1	0.1		x	
Ptilotus polystachyus	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: PPR06
Location MGA 50 294160 **mE** 7599211 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 50 x 50
Landform: Rehab
Slope: Flat
Rock Type: N/A
Soil Type: Loam, Soft Clay
Soil Colour: Light Brown

Vegetation: *Salsola australis low open shrubland*

Condition: Good **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Salsola australis	0.5	20		x	
**Cenchrus ciliaris*	0.3	0.1		x	
Atriplex semilunaris	0.2	0.1		x	
Eragrostis falcata	0.2	0.1		x	
Neobassia astrocarpa	0.2	0.1		x	
Atriplex codonocarpa	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Dysphania plantaginella	0.1	0.1		x	
Lawrencia viridigrisea	0.1	0.1		x	
Portulaca oleracea	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: PPR07
Location MGA 50 293971 **mE** 7598929 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 50 x 50
Landform: Semi rehab area
Slope: Flat
Rock Type: N/A
Soil Type: Loam, Sand, Soft Clay
Soil Colour: Light Brown

Vegetation: *Salsola australis low sparse shrubland over *Cenchrus ciliaris low open tussock grassland over Eragrostis ?desertorum low sparse herbland*

Condition: Poor **Disturbance Type:** Weeds, Ripping
Fire Age: Unknown

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Year Recorded 2020	Year Recorded 2021	Notes
Crotalaria cunninghamii subsp. sturtii	1.2	0.1		x	
**Cenchrus ciliaris*	0.4	15		x	
Salsola australis	0.3	2		x	
Indigofera trita subsp. trita	0.3	0.1		x	
Swainsona pterostylis	0.3	0.1		x	
Eragrostis falcata	0.2	1		x	
Dysphania plantaginella	0.2	0.1		x	
Neobassia astrocarpa	0.2	0.1		x	
Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)	0.2	0.1		x	
Crotalaria medicaginea var. neglecta	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Indigofera colutea	0.1	0.1		x	
Indigofera linifolia	0.1	0.1		x	
Lawrencia viridigrisea	0.1	0.1		x	
Pterocaulon sphacelatum	0.1	0.1		x	
Rhynchosia minima	0.1	0.1		x	
Sida fibulifera	0.1	0.1		x	
Triraphis mollis	0.1	0.1		x	

FLORA SITE SHEET

Project Name 4441 Ken's Bore Mine to Ashburton Port
Site: PPQ08
Location MGA 50 293855 **mE** 7598780 **mN**

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Quadrat 50 x 50
Landform: Salt pan
Slope: Flat
Rock Type: N/A
Soil Type: Medium Clay
Soil Colour: Orange

Vegetation: *Tecticornia auriculata tall sparse chenopod shrubland over Eragrostis ?desertorum low sparse herbland*

Condition: Very Good **Disturbance Type:** Infrastructure
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Tecticornia auriculata	0.7	5		x	
Lawrencia viridigrisea	0.3	0.1		x	
Tecticornia indica subsp. leiostachya	0.3	0.1		x	
Cyperus bulbosus	0.2	0.1		x	
Swainsona pterostylis	0.2	0.1		x	
Tecticornia sp. Sterile 1	0.2	0.1		x	
Eragrostis falcata	0.1	1		x	
Cullen pogonocarpum	0.1	0.1		x	
Dactyloctenium radulans	0.1	0.1		x	
Neobassia astrocarpa	0.1	0.1		x	
Salsola australis	0.1	0.1		x	

FLORA SITE SHEET

Project Name	4441 Ken's Bore Mine to Ashburton Port			
Site:	PPR09			
Location	MGA 50	293537 **mE**	7598527 **mN**	

2020
Described by: N/A
Date: N/A
2021
Described by: SC, GB
Date: 28/04/2021

Type: Releve 20 x 125
Landform: Tidal salt lake
Slope: Flat
Rock Type: N/A
Soil Type: Clay
Soil Colour: Brown

Vegetation: *Tecticornia auriculata and Tecticornia sp. Sterile 1 low open chenopod shrubland*

Condition: Good **Disturbance Type:** None, Infrastructure
Fire Age: Unknown

SPECIES LIST

Taxon	**Height (cm)**	**Cover (%)**	**Year Recorded 2020**	**2021**	**Notes**
Tecticornia auriculata	0.5	11		x	
Tecticornia sp. Sterile 1	0.3	1		x	

360 environmental

10 Bermondsey Street West Leederville WA 6007 **t** (+618) 9388 8360 **f** (+618) 9381 2360
PO BOX 14, West Perth WA 6872
w 360environmental.com.au **e** admin@360environmental.com.au

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