TABBA TABBA PROJECT FLORA AND VEGETATION ASSESSMENT

Wildcat Resources

ecoscape



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TABLE OF CONTENTS

Executive Summary **1**

Acronyms and Abbreviations **2**

1 Introduction **3**
1.1 Background 3
1.2 Survey Area 3
1.3 Survey Requirements 4
1.4 Compliance 4

2 Desktop Assessment **5**
2.1 Physical Environment 5
2.1.1 Climate 5
2.1.2 Land Systems 6
2.1.3 Geology 6
2.1.4 Wetlands and Drainage 7
2.1.5 Groundwater Dependent Ecosystems 7
2.1.6 Environmentally Sensitive Areas 7
2.1.7 Conservation Lands 7
2.1.8 Land Use History 7
2.2 Biological Environment 8
2.2.1 Biogeographic Region 8
2.2.2 Pre-European Vegetation 8
2.2.3 Threatened and Priority Ecological Communities 8
2.2.4 Threatened and Priority Flora 9
2.2.5 Flora Diversity 10
2.3 Relevant Literature 10
2.3.1 Previous Surveys 10
2.3.2 IBSA Data Search 11
2.3.3 Other Literature 11

3 Methods **12**
3.1 Guiding Principles 12
3.2 Flora and Vegetation Field Survey 12
3.2.1 Field Survey Methods 12
3.2.2 Data Management and Analysis 14

4 Field Survey Results **16**
4.1 Seasonal Conditions 16
4.2 Flora 16
4.2.1 Flora Inventory 16
4.2.2 Conservation-listed Flora 16
4.2.3 Other Significant Flora 21
4.2.4 Vegetation 27
4.2.5 Vegetation Significance 40
4.2.6 Statistical Analysis 41
4.2.7 Vegetation Condition 41
4.2.8 Survey Limitations 42

5 Discussion **44**

5.1 Flora Significance 44
5.1.1 Conservation-listed Flora 44
5.1.2 Post-survey Likelihood Assessment 46
5.1.3 Other Significant Flora 46
5.1.4 Introduced Flora 46
5.2 Vegetation Significance 47
5.2.1 Threatened and Priority Ecological Communities 48
5.2.2 Other Significant Vegetation 48
5.2.3 Local and Regional Significance of Vegetation 48
5.2.4 Vegetation Condition 48
6 DWER's 10 Clearing Principles 49
References 51
Maps 55
Appendix One Legislative Context, Definitions and Criteria 89
Appendix Two Field Survey Criteria 100
Appendix Three Desktop Assessment Results and Likelihood Assessments 102
Appendix Four Field Survey Results 158
Appendix Five Floristic Quadrat Data 188
Appendix Six DBCA Report Forms 603
Appendix Seven Floristic Analysis Dendrogram 637

FIGURES

Figure 1: Survey area location 3
Figure 2: Mean rainfall (Wallareenya) and temperature (Port Hedland) (BoM 2025a) 5
Figure 3: Monthly rainfall at Port Hedland BoM station 2023-2025 16
Figure 4: Species accumulation curve 41
Figure 5: Rainfall deciles for the 6 months prior to the field surveys (BoM 2025b) 43
Figure 6: *Seringia exastia* distribution (ALA 2024) 44
Figure 7: Floristic analysis dendrogram 638

TABLES

Table 1: Acronyms and abbreviations 2
Table 2: Land systems (DPIRD 2020) 6
Table 3: Surface Geology (Raymond et al. 2012) 6
Table 4: Pre-European vegetation association representation (DBCA 2019) 8
Table 5: PECs identified by DBCA database searches 9
Table 6: Categories for likelihood of occurrence of TF and PF 10

Table 7: Field personnel and experience 14
Table 8: TF recorded during the field survey 17
Table 9: PF recorded during the field survey 18
Table 10: Vegetation types 28
Table 11: Vegetation condition 42
Table 12: Botanical limitations 42
Table 13: Assessment against DWER's 10 clearing principles 49
Table 14: EPBC Act categories for flora, fauna and ecological communities 89
Table 15: Conservation codes for Western Australian flora and fauna (DBCA 2020) 91
Table 16: DBCA definitions and criteria for TECs and PECs (DEC 2013) 94
Table 17: NVIS structural formation terminology, terrestrial vegetation (NVIS Technical Working Group & DotEE 2017) 100
Table 18: NVIS height classes (NVIS Technical Working Group & DotEE 2017) 101
Table 19: Vegetation condition scale for the Eremaean and Northern Botanical Provinces (EPA 2016a) 101
Table 20: Flora database search results, habitat and likelihood assessment 102
Table 21: Flora inventory 158
Table 22: Site x species matrix 164

MAPS

Map 1: Soil landscapes 56
Map 2: Geology 56
Map 3: Drainage, wetlands and GDE likelihood 56
Map 4: Pre-European vegetation associations 56
Map 5: Flora and ecological communities database search results 56
Map 6: Vegetation types, quadrat and conservation-listed flora locations 56
Map 7: Vegetation condition and introduced flora 56
Map 8: Flora survey tracks 56

IMAGES

Image 1: *Bonamia pilbarensis* 'typical' 22
Image 2: *Bonamia pilbarensis* 'atypical' 22
Image 3: *Polymeria* sp. 23
Image 4: *Polycarpaea* aff. *corymbosa* 23
Image 5: *Scaevola browniana* subsp. *browniana* 24

Image 6: *Solanum* sp. aff. *gabrielae* 24
Image 7: **Aerva javanica* 25
Image 8: **Bidens bipinnata* 25
Image 9: **Calotropis procera* (Declared Pest) 25
Image 10: **Cenchrus ciliaris* 25
Image 11: **Cenchrus setiger* 26
Image 12: **Chloris virgata* (ITHAKA 2000) 26
Image 13: * *Citrullus amarus* 26
Image 14: **Euphorbia hirta* 26
Image 15: **Flaveria trinervia* 26
Image 16: **Indigofera oblongifolia* 26
Image 17: **Stylosanthes hamata* 27
Image 18: **Tridax procumbens* 27
Image 19: **Vachellia farnesiana* 27

EXECUTIVE SUMMARY

Wildcat Resources Limited (Wildcat) is currently proposing to develop the Tabba Tabba Lithium-Tantalum Project (the Project) in the Pilbara region of Western Australia, approximately 50 km southeast of Port Hedland. Wildcat is undertaking the required environmental studies to support the environmental impact assessment (EIA) process for the proposed development of the Project, of which flora and vegetation are key environmental factors. Wildcat (via RPM Global, now SLR Consulting) engaged Ecoscape (Australia) Pty Ltd (Ecoscape) to undertake a Detailed flora and vegetation assessment of the 22,668.24 ha survey area, incorporating results from 2024 and 2025 field surveys.

Prior to undertaking the field surveys, an initial desktop assessment was completed. The key findings of the desktop assessment were:

- Two pre-European vegetation associations intersect the survey area, each with greater than 99% of their statewide extent remaining.
- Two Priority Ecological Communities (PECs) were identified by the database search from within 100 km; neither of these have been recorded within the survey area. The nearest PEC occurrence is 37 km north of the survey area at the closest point.
- 33 conservation-listed flora were identified as having been recorded within 100 km of the survey area by the database searches, consisting of one Threatened Flora, nine Priority 1 (P1), one Priority 2 (P2), 20 Priority 3 (P3) and two Priority 4 (P4) taxa. Four of the conservation-listed taxa had been previously recorded within the survey area. Two additional conservation-listed taxa were considered Likely to occur based on the desktop assessment and a further five may occur.

The field surveys were conducted during March to June 2024 and April to June 2025. The key results/findings from the flora and vegetation field surveys and subsequent analysis were:

- 191 floristic quadrats established within the survey area
- 373 vascular flora recorded from the survey area, including:
  - eight conservation-listed flora; *Seringia exastia* (TF)[1], *Euphorbia clementii* (P3), *Euploca mutica* (P3), *Gymnanthera cunninghamii* (P3), *Nicotiana umbratica* (P3), *Rothia indica* subsp. *australis* (P3), *Triodia chichesterensis* (P3) and *Bulbostylis burbidgeae* (P4).
  - One substantial range extension plus numerous species of potential taxonomic interest were recorded within the survey area, including hybrids, atypical forms of known species and species that may warrant recognition as distinct taxa in the future. Of these, *Solanum* sp. aff. *gabrielae* may be of conservation significance as a new taxon of potentially restricted distribution.
  - 13 introduced flora including one Declared Pest (**Calotropis procera*)
- 23 vegetation types from four landform types (plains, low hills, drainage lines and outcrops). None of the vegetation types are representative of any currently described TEC or PEC. One vegetation type (**EcAtrTe**) is considered representative of Groundwater Dependent Vegetation (GDV) and one (**EvAtuTe**) as potential GDV.
- The vegetation condition ranged from Completely Degraded to Excellent with the majority in Excellent condition (55.23%). The main factors affecting vegetation condition were presence and abundance of weeds, grazing by cattle and historical clearing.

[1] Listing based on outdated taxonomy and not considered significant, see **Section 4.2.2**

ACRONYMS AND ABBREVIATIONS

Table 1: Acronyms and abbreviations

Acronyms	
BAM Act	Western Australian *Biosecurity and Agriculture Management Act 2007*
BC Act	Western Australian *Biodiversity Conservation Act 2016*
BoM	Bureau of Meteorology
C1, C2, C3	Declared Pest categories under the BAM Act
CD	Conservation Dependent (fauna; specially protected species under the Western Australian BC Act)
CR	Critically Endangered (listed under Commonwealth EPBC Act and/or Western Australian BC Act)
DAWE	Commonwealth Department of Agriculture, Water and Environment (2020-2022, now DCCEEW)
DBCA	Western Australian Department of Biodiversity, Conservation and Attractions
DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
DEWHA	Commonwealth Department of the Environment, Water, Heritage and the Arts (2007-2010, now DCCEEW)
DPaW	Western Australian Department of Parks and Wildlife (2013-2017, now DBCA)
DotEE	Commonwealth Department of the Environment and Energy (2016-2020)
DPIRD	Western Australian Department of Primary Industries and Regional Development
DWER	Western Australian Department of Water and Environmental Regulation
EN	Endangered (listed under Commonwealth EPBC Act and/or Western Australian BC Act)
EP Act	Western Australian *Environmental Protection Act 1986*
EPA	Western Australian Environmental Protection Authority
EPBC Act	Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*
GDE	Groundwater Dependent Ecosystem
GDV	Groundwater Dependent Vegetation
IBRA	Interim Biogeographic Regionalisation for Australia
IUCN	International Union for Conservation of Nature
NVIS	National Vegetation Inventory System
MNES	Matters of National Environmental Significance
P; P1, P2, P3, P4, P5	Priority Flora and Fauna species rankings (P1-P4) or Priority Ecological Communities (P1-P5)
PEC	Priority Ecological Community
PF	Priority Flora
PMST	Protected Matters Search Tool (hosted by DCCEEW, used to search for MNES)
SFDV	Sheet Flow Dependent Vegetation
TEC	Threatened Ecological Community
TF	Threatened Flora (formerly termed Declared Rare Flora, DRF, in Western Australia)
TPFL	Threatened and Priority Flora database
VU	Vulnerable (listed under Commonwealth EPBC Act and/or Western Australian BC Act)
WA	Western Australia
WAH	Western Australian Herbarium
WoNS	Weeds of National Significance
*****	Introduced flora species (i.e. weed)

1 INTRODUCTION

1.1 BACKGROUND

Wildcat Resources Limited (Wildcat) is currently proposing to develop the Tabba Tabba Lithium-Tantalum Project (the Project) in the Pilbara region of Western Australia, approximately 50 km southeast of Port Hedland. The Project concept comprises a single open cut pit, waste rock dump, processing plant, tailings dam, water supply borefield, power plant, camp, airstrip, workshops and other supporting infrastructure. It is undertaking the required environmental studies to support the environmental impact assessment (EIA) process for the proposed development of the Project.

Wildcat (via RPM Global, now SLR Consulting) engaged Ecoscape (Australia) Pty Ltd (Ecoscape) to undertake a detailed flora and vegetation survey that incorporated surveys completed in 2024 (Ecoscape 2024) as well as additional surveys of an expanded area during 2025. These surveys are required to obtain baseline information on key flora and vegetation aspects of the project development area to inform future planning processes and environmental approvals.

1.2 SURVEY AREA

The Project development area, herein known as the 'survey area' (**Figure 1**), is located approximately 50 km southeast of Port Hedland within both the Town of Port Hedland and Shire of East Pilbara, in the Pilbara bioregion of Western Australia. The total extent of the survey area is 22,668.24 hectares (ha).

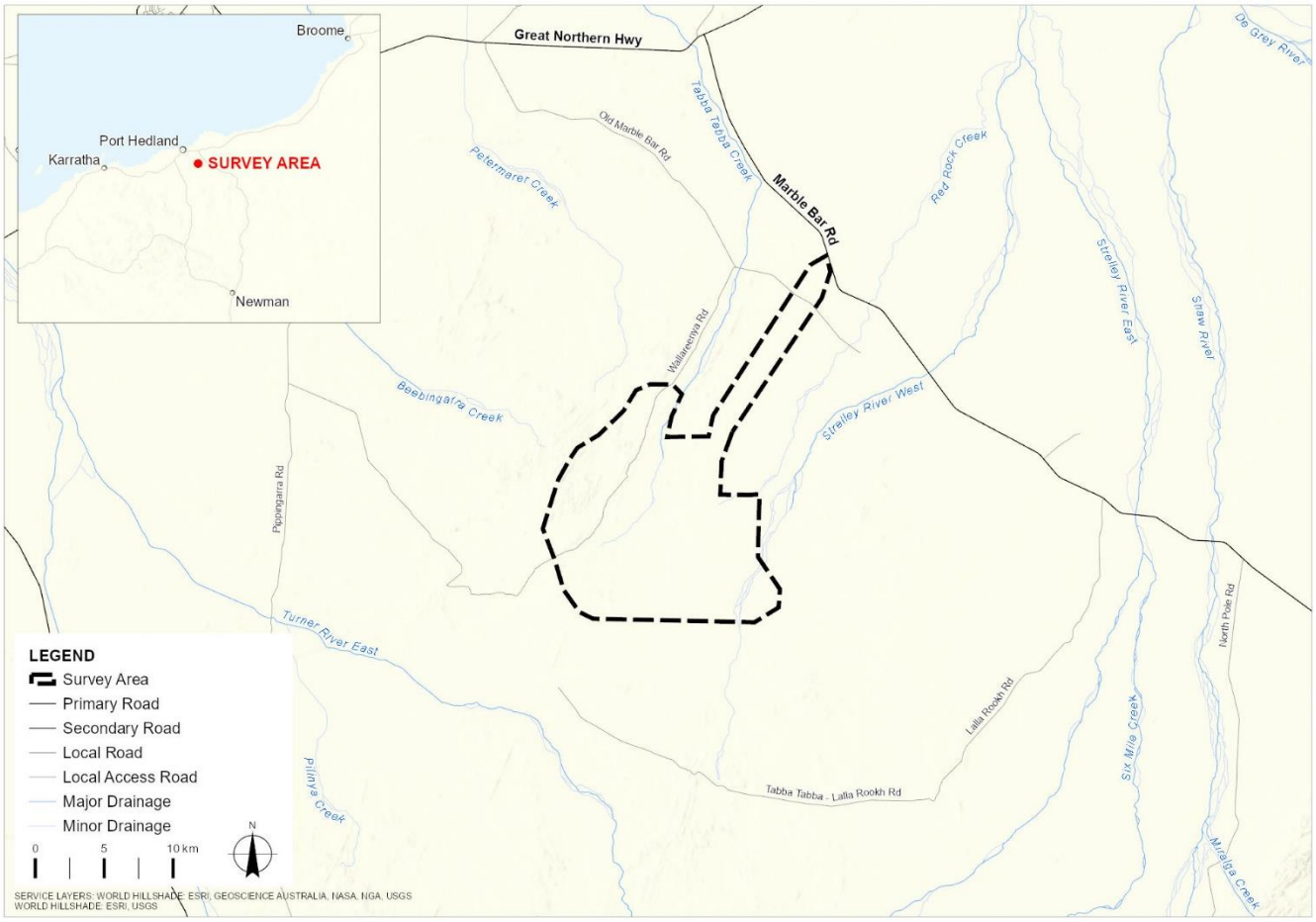


Figure 1: Survey area location

1.3 SURVEY REQUIREMENTS

The requirements of the survey were to:

- conduct a detailed flora and vegetation survey including targeted searches for conservation-listed flora.
- provide a comprehensive flora and vegetation assessment report detailing the desktop and field survey findings.
- prepare spatial data to *Index of Biodiversity Surveys for Assessments* (IBSA) standards.

1.4 COMPLIANCE

This environmental assessment was conducted in accordance with Commonwealth and State legislation and guidelines:

- Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).
- Western Australian *Environmental Protection Act 1986* (EP Act).
- Western Australian *Biodiversity Conservation Act 2016* (BC Act).
- Western Australian *Biodiversity Conservation Regulations 2018.*
- Department of Environment, Water, Heritage and the Arts (DEWHA 2009) *Matters of National Environmental Significance. Significant impact guidelines 1.1 - Environment Protection and Biodiversity Conservation Act 1999.*

Summaries of the main Acts under which this assessment was conducted, and related criteria and definitions, are available in **Appendix One**.

As well as those listed above, the assessment complied with Environmental Protection Authority (EPA) requirements for environmental survey and reporting in Western Australia, as outlined in:

- EPA (2016a) *Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment*, known herein as the Flora and Vegetation Technical Guidance.
- EPA (2016b) *Environmental Factor Guideline – Flora and Vegetation.*
- EPA (2023) *Statement of environmental principles, factors, objectives and aims of EIA*.

Additional details (definitions and criteria) relevant to these works are available in **Appendix One**.

2 DESKTOP ASSESSMENT

2.1 PHYSICAL ENVIRONMENT

2.1.1 CLIMATE

The survey area is located within the Pilbara region, which includes two broad climatic zones. The first zone is linked to coastal areas and features a semi-desert tropical climate characterised by 9–11 months of dry weather, with hot, humid summers and warm winters. The second zone is associated with inland areas, which have a dry desert climate, typically with higher temperatures and lower rainfall compared to the coastal areas, and up to 12 months of dry weather, with hot, dry summers and mild winters (Leighton 2004). The survey area is in the inland area with a dry desert climate.

According to the Köppen-Geiger climate classification, the survey area has a hot arid desert climate (Class BWh) (Peel, Finlayson & McMahon 2007). This classification represents a desert climate where annual rainfall is generally less than 200 mm or the region loses more water via evapotranspiration than it receives as rain, generally a result of hot, sunny weather without clouds. The mean average temperature exceeds 18°C, and summer temperatures are frequently over 40°C.

The closest Bureau of Meteorology (BoM) station with long-term rainfall records is Wallareenya (BoM 2025a, station 4038, operating since 1908), which is located approximately 16 km southwest of the survey area. The mean annual rainfall is 314.7 mm, with 68.3% falling in a three-month period from January to March.

The closest Bureau of Meteorology (BoM) station with long-term temperature records is Port Hedland (BoM 2025a, station 4032, operating since 1942), located approximately 45 km north-northwest of the survey area. December is the hottest month, with a maximum temperature of 36.8°C and a minimum of 24.2°C. July is the coldest month, with a maximum of 27.4°C and a minimum of 12.5°C.

Figure 2 shows the average rainfall and temperatures of the survey area.

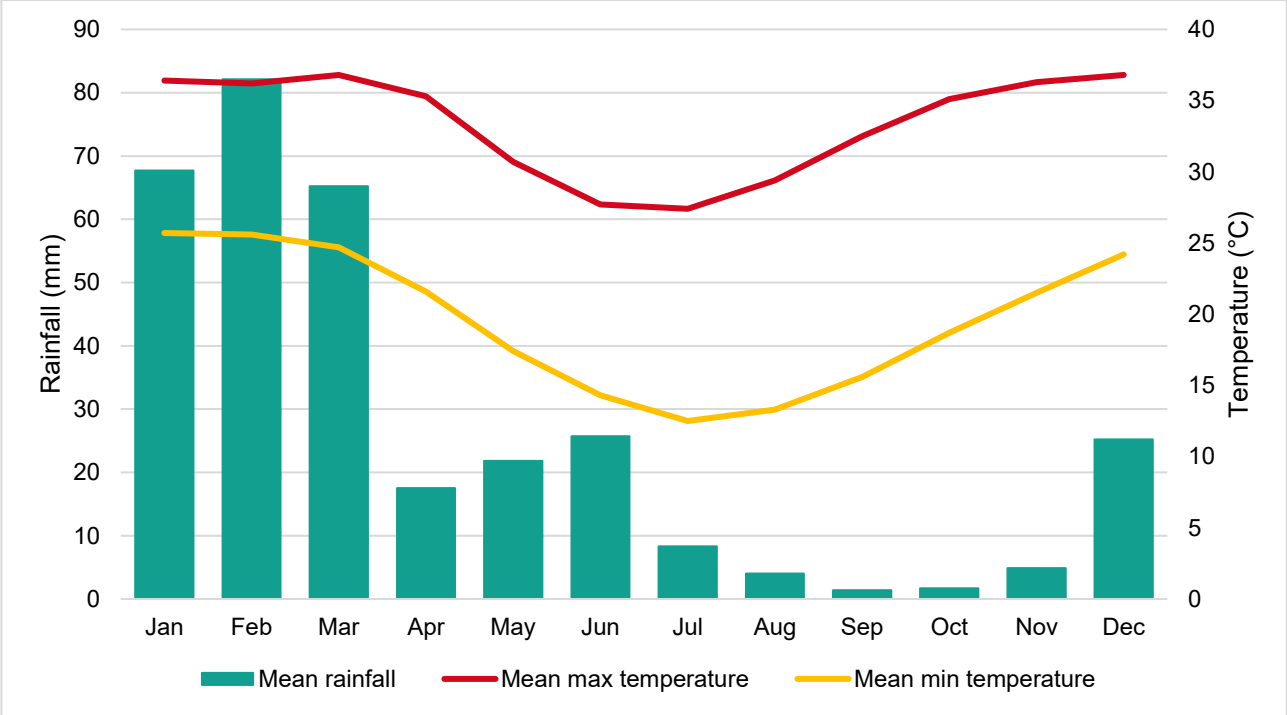


Figure 2: Mean rainfall (Wallareenya) and temperature (Port Hedland) (BoM 2025a)

2.1.2 LAND SYSTEMS

According to the Department of Primary Industries and Regional Development (DPIRD 2020) soil landscape mapping, there are six land systems that intersect the survey area (**Table 2** and **Map 1**). The Macroy land system is the most widespread, occupying 16,300.91 ha (71.91%) of the survey area.

Table 2: Land systems (DPIRD 2020)

Land system	Description	Extent (ha)	%
Boolaloo system	Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs	939.63	4.15
Granitic system	Rugged granitic hills supporting shrubby hard and soft spinifex grasslands	1,572.26	6.94
Macroy system	Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands	16,300.91	71.91
River system	Narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of acacias and fringing communities of eucalypts sometimes with tussock grasses or spinifex	261.38	1.15
Talga system	Hills and ridges of greenstone and chert and stony plains supporting hard and soft spinifex grasslands	2,033.12	8.97
Uaroo system	Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs	1,560.95	6.89

2.1.3 GEOLOGY

There are 14 surface geology units that intersect the survey area (**Map 2**). The most widespread are the Kadgewarrina Monzogranite (26.11% of the survey area), Sisters Supersuite (24.31%) and colluvium 38491 formations (23.59%) (**Table 3**) (Raymond et al. 2012).

Table 3: Surface Geology (Raymond et al. 2012)

Mapping unit	Geology system	Description	Extent (ha)	%
Acg	Gorge Creek Group	Chert, ferruginous chert, banded iron formation, jaspilite; minor siltstone, shale, sandstone, pebbly sandstone, quartzite, polymictic conglomerate, felsic volcaniclastic rock, basalt, ultramafic schist, mafic schist	416.82	1.84%
Aep	metamorphosed ultramafic to mafic rocks 74283	Metamorphosed ultramafic to mafic rocks; ultramafic schist; metaperidotite, metapyroxenite, serpentinite; komatiitic and boninitic metabasalt, metagabbro, metadolerite, amphibolite; minor metasedimentary rocks, tectonic megabreccia	721.09	3.18%
Agc	Callina Supersuite	Monzogranite, granodiorite, quartz diorite, granite, leucogranite, quartz-feldspar porphyry, rhyolite dykes, diorite, leucogranodiorite, felsic orthogneiss, migmatite, amphibolite	83.45	0.37%
Agi	Sisters Supersuite	Undifferentiated granitoid intrusions of the Sisters Supersuite; leucogranite (locally schlieric or pegmatitic), monzogranite, granodiorite, tonalite, diorite, tonalitic orthogneiss, rhyolite dykes, pegmatite; interleaved in places	5510.53	24.31%
Agip	Petermarer Monzogranite	Biotite monzogranite; strongly K-feldspar porphyritic to seriate; massive to weakly foliated; locally with strong flow alighnment; locally abundant inclusions of Chillerina Monzogranite; metamorphosed.	151.80	0.67%
Agr	Split Rock Supersuite	Syenogranite, monzogranite, granitic gneiss, pegmatite	1132.14	4.99%
Agrh	Thelman Monzogranite	Fine to medium-grained muscovite (garnet) monzogranite.	54.77	0.24%
Agrk	Kadgewarrina Monzogranite	Muscovite-biotite(garnet) monzogranite; equigranular to weakly porphyritic; massive to layered.	5918.26	26.11%
Agrt	Tabba Tabba Leucogranite	Biotite(-muscovite) granite; seriate to equigranular; fine- to medium-grained, massive to weakly foliated and metamorphosed.	763.82	3.37%

Mapping unit	Geology system	Description	Extent (ha)	%
Ancw	Wilson Well Gneiss	Heterogeneous, migmatic tonalitic orthogneiss; minor schlieric hornblende granodiorite.	165.28	0.73%
Ascm	Mallina Formation	Interbedded metamorphosed shale, siltstone, sandstone, and medium to fine grained wacke; minor layers of chert; may contain gabbroic intrusions	1381.39	6.09%
Atp	metamorphosed mafic rocks 74327	Metamorphosed mafic rocks; metabasalt, metagabbro, metadolerite, amphibolite, mafic schist; minor metamorphosed ultramafic rocks and metasedimentary rocks; amphibolite schist; quartz-sericite schist, volcaniclastic rocks, local granitic dykes and veins	999.86	4.41%
Qa	alluvium 38485	Channel and flood plain alluvium; gravel, sand, silt, clay; may be locally calcreted	20.65	0.09%
Qrc	colluvium 38491	Colluvium and/or residual deposits, sheetwash, talus, scree; boulder, gravel, sand; may include minor alluvial or sand plain deposits, local calcrete and reworked laterite	5348.40	23.59%

2.1.4 WETLANDS AND DRAINAGE

The survey area is largely located across the Port Hedland Coast and Strelley River catchments with the southern boundary intersecting with the Turner River catchment. The most substantial drainage line within the survey area is Tabba Tabba Creek, flowing in a northwards direction towards the coast. A large tributary of Strelley River West also intersects the survey area in the southeastern corner. All wetlands and drainage data were sourced from the Department of Water and Environmental Regulations (2018), shown on **Map 3**.

2.1.5 GROUNDWATER DEPENDENT ECOSYSTEMS

Inspection of the Groundwater Dependent Ecosystems Atlas (BoM 2024) identified the majority of the survey area as not having potential for Groundwater Dependent Ecosystems (GDEs). A single area, corresponding with Strelley River West, has been mapped as moderate potential GDE and other isolated areas mapped as low potential GDE (**Map 3**). Previous records from bores around the dam area indicate that the water is fresh (low electrical conductivity, 400–1,010 $mScm^{-1}$) with a neutral pH (6.5–7.6) (Ecotec (WA) Pty Ltd 2019).

2.1.6 ENVIRONMENTALLY SENSITIVE AREAS

The survey area does not intersect any mapped Environmentally Sensitive Areas (ESAs) (DWER 2021). The nearest ESAs are:

- 27 km north, corresponding with the Leslie (Port Hedland) Saltfields System.
- 30 km northeast, corresponding with the De Grey River.

2.1.7 CONSERVATION LANDS

The survey area does not intersect any official conservation estate or DBCA lands of interest, and none are located within 50 km.

2.1.8 LAND USE HISTORY

The dominant land uses in the Chichester IBRA subregion (PIL1) area are grazing of native pastures; Aboriginal lands and Reserves, Unallocated Crown Land & Crown Reserves, Conservation, and Mining leases (DPIRD 2018). The survey area is located on the active Wallareenya Pastoral Lease and includes two large dams within the survey area. The survey area also includes the site of a former Tantalum mine (Pilbara Minerals Limited 2019). This mine operated between 2015 and 2017 and included a pit, processing plant, tailings storage facility and other associated infrastructure. Infrastructure was subsequently removed and rehabilitation undertaken of disturbance footprints with the exception of two low-grade ore stockpiles. Wildcat acquired the Project tenements in 2023 and have undertaken intensive exploration programs since.

2.2 BIOLOGICAL ENVIRONMENT

2.2.1 BIOGEOGRAPHIC REGION

Biogeographic regions are delineated based on climate, geology, landforms, vegetation, and fauna and are defined in the Interim Biogeographical Regionalisation for Australia (IBRA) (Department of Agriculture Water and the Environment [DAWE] 2020).

The survey area is in the Pilbara IBRA region in the Chichester subregion (PIL01), described as (Kendrick & McKenzie 2001)

> *"The Chichester subregion (PIL 1) comprises the northern section of the Pilbara Craton. Undulating Archaean granite and basalt plains include significant areas of basaltic ranges. Plains support a shrub steppe characterised by Acacia inaequilatera over Triodia wiseana (formerly Triodia pungens) hummock grasslands, while Eucalyptus leucophloia tree steppes occur on ranges. The climate is Semi-desert-tropical and receives 300 mm of rainfall annually. Drainage occurs to the north via numerous rivers (e.g. De Grey, Oakover, Nullagine, Shaw, Yule, Sherlock). Subregional area is 9,044,560 ha."*

2.2.2 PRE-EUROPEAN VEGETATION

During the 1970s, John Beard and associates conducted a systematic survey of native vegetation, describing the vegetation systems in Western Australia at a scale of 1:250,000 in the south-west and at a scale of 1:1,000,000 in less developed areas.

Beard's vegetation maps attempted to depict the native vegetation as it was presumed to be at the time of settlement, and is known as the pre-European vegetation type and extent. Beard's vegetation maps have since been developed in digital form by Shepherd, Beeston & Hopkins (2002), updated by DPIRD (2019) and published by the DBCA (2019). This mapping indicates that the survey area intersects two pre-European vegetation units:

- Association 93: described as shrub-steppe, hummock grassland with scattered shrubs or Mallee, *Triodia* spp., *Acacia* spp., *Grevillea* spp., *Eucalyptus* spp. (22,031.51 ha, 97.19%).
- Association 619: described as Riverine; rivergum *E. camaldulensis* (637.10 ha, 2.81%).

The pre-European vegetation association/s identified from the survey area (DPIRD 2019) and its pre-European and current extents are listed in **Table 4** (DBCA 2019) and shown on **Map 4**. Both vegetation associations mapped within the survey area have greater than 99% remaining within Western Australia.

Table 4: Pre-European vegetation association representation (DBCA 2019)

Region	Vegetation association	Original extent (ha)	Current extent (ha)	% remaining
Western Australia	93	3,044,309.52	3,040,640.98	99.88
	619	119,373.78	118,205.01	99.02
IBRA biogeographic region (Pilbara)	93	3,042,114.27	3,038,471.67	99.88
	619	118,920.31	118,116.78	99.32
IBRA biogeographic sub-region (Chichester)	93	2,940,348.04	2,936,731.54	99.88
	619	85,543.15	85,520.95	99.97
LGA (Shire of East Pilbara)	93	1,709,522.24	1,706,780.57	99.84
	619	52,765.30	52,763.69	100.00
LGA (Town of Port Hedland)	93	1,015,339.22	1,014,599.99	99.93
	619	63,650.59	62,598.14	98.35

2.2.3 THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

A *Protected Matters Search Tool* (PMST) search (DCCEEW 2025, using a 50 km buffer) was undertaken to identify EPBC Act Threatened Ecological Communities (TECs). This search did not identify any TECs (**Appendix Three**).

A DBCA database search of state-listed TECs and Priority Ecological Communities (PECs) was undertaken (search reference 46-1123EC, using a 100 km buffer). This search identified two PECs, neither of which intersect the survey area. The nearest PEC is located approximately 37 km north of the survey area at its closest point.

The results of these searches are indicated in **Table 5** and shown on **Map 5**.

Table 5: PECs identified by DBCA database searches

Ecological Community	Description	WA status
Eighty Mile Land System	Beach foredunes, longitudinal coastal dunes and sandy plains with tussock grasslands and spinifex grasslands.	Priority 3
Gregory Land System	Linear dunes and restricted sandplains supporting shrubby hard spinifex (and occasionally soft spinifex) grasslands.	Priority 3

2.2.4 THREATENED AND PRIORITY FLORA

The PMST search (as above) identified *Quoya zonalis* (listed as *Pityrodia* sp. Marble Bar (G.Woodman & D.Coultas GWDC Opp 4)) as 'Species or species habitat known to occur within area', 'within the buffer area only', as the only EPBC-listed Threatened Flora species (**Appendix Three**).

A DBCA database search (search reference: 08-1223FL) was conducted using a 100 km buffer around the survey area. The results incorporate the TPFL List, taken from Threatened and Priority Flora Report Forms and DBCA surveys, and the WA Herb, taken from vouchered specimens at the Western Australian Herbarium (WAH). **Map 5** shows the locations of conservation-listed flora identified by the DBCA database search.

The combined DBCA database searches identified 33 conservation-listed flora taxa, listed in **Table 20** in **Appendix Three**, consisting of one Threatened Flora (TF), nine P1, one P2, 20 P3 and two P4.

2.2.4.1 Threatened and Priority Flora Likelihood Assessment

Ecoscape conducted a likelihood assessment to identify the TF and Priority Flora (PF) species that have the potential to occur within the survey area. Information to assess the likelihood of a species occurring includes is primarily based on ecology as listed on *FloraBase* (WAH 1998-2025), incorporating an assessment of habitats likely to be present in the survey area.

The attributes taken into consideration were:

- broad soil type usually associated with the species
- broad landform usually associated with the species
- usual vegetation (characteristic species) with which the species is usually associated
- species having previously been recorded near the survey area ('proximity' or 'close proximity'; see **Table 6**) taking locational accuracy into consideration
- time since recorded (i.e. within the previous 25 years), taking into consideration land use changes since collection
- reliability of record: species identified by only a TPFL record, without an accompanying verified vouchered specimen, may have been incorrectly identified or been subject to taxonomic updates since the record was entered
- number of records for the species
- if the record is for a not naturally occurring population (planted).

The likelihood rating is assigned using the categories listed in **Table 6**.

Table 6: Categories for likelihood of occurrence of TF and PF

Likelihood Category	Criteria
Known to occur	Species previously recorded within the survey area.
Likely to occur	Suitable habitat is known to occur within the survey area and multiple records of the species exist within close proximity*
May occur	Suitable habitat is expected to occur within the survey area and the species has previously been recorded within proximity**
Unlikely to occur	Suitable habitat is expected to occur within the survey area however previous records are limited and/or historic and/or not in proximity** OR Suitable habitat is not expected to occur within the survey area although previous records exist in proximity**
Very Unlikely to occur	Suitable habitat is not expected to occur in the survey area AND/OR previous records are limited and/or historic and/or not in proximity**

* close proximity = 25 km (¼ of the distance of the database search buffer)
** proximity = 50 km (½ of the distance of the database search buffer)

The likelihood assessment is available in **Table 20** in **Appendix Three**. Four conservation-listed flora taxa have been previously recorded from within the survey area (*Euphorbia clementii* [P3], *Euploca mutica* [P3], *Triodia chichesterensis* [P3] and *Bulbostylis burbidgeae* [P4]). Two P3 taxa (*Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) and *Gymnanthera cunninghamii*) were identified as being Likely to occur based on the information available during the desktop assessment and were prioritised for field survey. Two P1 taxa (*Euploca parviantrum* and *Triodia degreyensis)* and three P3 taxa (*Nicotiana umbratica, Rothia indica* subsp. *australis* and *Stylidium weeliwolli*) were identified as May occur.

The likelihood of occurrence was re-evaluated following the field survey when actual survey area characteristics (vegetation types, vegetation condition, visibility for individual species) were better understood, and the level of survey effort was considered. The post-survey likelihood is also incorporated into this table and discussed further in **Section 5.1.2**.

2.2.5 FLORA DIVERSITY

A search of the *Dandjoo* database (DBCA 2025) identified 821 vascular flora taxa within an area approximately incorporating the survey area with a 50 km buffer (**Appendix Three**). The families with the greatest representation are Fabaceae (147 taxa), Poaceae (128), Malvaceae (73), Cyperaceae (42), Amaranthaceae (37) and Asteraceae (33). The inventory includes 53 introduced species.

2.3 RELEVANT LITERATURE

2.3.1 PREVIOUS SURVEYS

The following documents have been identified as having relevance because they intersect with all or part of the survey area:

- Ecoscape (2024) *Tabba Tabba Lithium Project Flora and Fauna Assessments*. A Detailed flora and vegetation survey with results incorporated into the current survey. The survey area comprised 2,958 ha, almost entirely within the present survey area. One hundred and twelve floristic quadrats were established, with 238 vascular flora recorded, including four conservation-listed (*Seringia exastia* [TF], *Euploca mutica* [P3], *Triodia chichesterensis* [P3] and *Bulbostylis burbidgeae* [P4]). Sixteen vegetation types were described and mapped, including one GDV and one potential GDV. The majority of vegetation was in Excellent condition.
- PEK Enviro (2013) *Tabba Tabba Project (M45/354, M45/375, M45/376 & L45/323): Level 1 Vegetation and Flora Survey*. A desktop review and Reconnaissance flora and vegetation survey of 87 ha that intersects a portion of the survey area. This survey delineated nine vegetation groups, none were identified as significant. A total of 71 flora species were identified, none were conservation-listed.

2.3.2 IBSA DATA SEARCH

The Department of Water and Environmental Regulation's (DWER's) *Index of Biodiversity Surveys for Assessments (IBSA)* Portal (DWER 2023) was searched for recent environmental surveys in the vicinity of the survey area.

The search, conducted on 18 August 2025, identified 20 environmental surveys that have been conducted within 25 km of the survey area. Thirteen of these listings included flora and vegetation surveys of which eight did not have data accessible for review i.e. contained metadata only. The following surveys had relevance to the current survey:

- Biota Environmental Sciences (2004) *Vegetation and Flora of the Proposed FMG Stage A Rail Corridor.* This survey recorded 122 vegetation types and 762 flora taxa including 21 conservation-listed species.
- ENV Australia (2011) *Port Hedland regional Flora and Vegetation Assessment*. The report recorded four priority flora species and twelve introduced species, and mapped forty vegetation associations (no TECs or PECs).
- Mattiske Consulting (2007) *A Review of the Flora and Vegetation and an Assessment of Groundwater Dependant Ecosystems in the Panorama Project Survey Area*. This review identified 514 flora taxa including seven conservation-listed species. Eighteen vegetation types have been mapped, none were conservation-listed.
- Woodman Environmental (2017) *Corunna Downs Intersection Works Flora and Vegetation Assessment*. A Reconnaissance survey of three areas totalling 13.52 ha. This survey did not identify any conservation-listed flora or significant vegetation.
- Woodman Environmental (2019) *Miralga Creek Iron Ore Project Detailed Flora and Vegetation Survey*. Comprised of three areas totalling 21,501 ha, located broadly southeast of the survey area. This survey did not identify and conservation-listed vegetation. Eight PF were recorded from the survey area.

2.3.3 OTHER LITERATURE

An existing mine closure plan (Ecotec (WA) Pty Ltd 2019) was provided as context within the survey area. Specific information relating to its historical operation has assisted vegetation mapping and vegetation condition assessment. The plan also provided empirical information on groundwater flow and groundwater quality, which has supported the delineation of GDEs.

3 METHODS

3.1 GUIDING PRINCIPLES

The flora and vegetation survey was conducted as a detailed survey according to the Flora and Vegetation Technical Guidance (EPA 2016a). The EPA considers that a Detailed survey requires:

- a comprehensive survey design, including giving consideration to the survey timing that should be conducted during the primary season of survey for the bioregion and disturbance events, and the potential requirement for supplementary surveys
- a minimum of three quadrats (in proportion to the extent of the vegetation unit), located throughout each preliminary vegetation types sampled throughout its geographic range, with additional quadrats and rescoring during supplementary surveys to clarify vegetation unit boundaries
- regional surveys if there is insufficient information available (identified during the desktop assessment) to provide local and regional context
- the survey may include a number of sampling techniques including quadrats, relevés, transects and traverses, as well as opportunistic observations
- the flora inventory should be comprised of data collected from quadrats and relevés, supplemented by opportunistic observations, systematic surveys and targeted inspections of various habitat areas
- it may be appropriate to increase survey effort in areas of unusual habitat
- sampling sites that are placed at representative locations throughout the survey area considering landform, geology, elevation, slope, aspect, surface or groundwater expression and soil type, as well as vegetation structure, composition and condition.

Targeted searches were also conducted in areas of habitat suitable for TF and PF identified during the desktop assessment and previous surveys as having potential to occur.

3.2 FLORA AND VEGETATION FIELD SURVEY

3.2.1 FIELD SURVEY METHODS

The methods utilised during the field survey followed those outlined in the Flora and Vegetation Technical Guidance (EPA 2016a), conducted as a single-phase Detailed survey.

Conservation criteria used in this assessment are outlined in **Table 14**, **Table 15** and **Table 16** in **Appendix One**.

Survey method details are outlined below.

3.2.1.1 Floristic Quadrats

Floristic quadrat ('quadrat') locations were selected using aerial photography, environmental values and field observations to represent the vegetation values existing at the site. The unmarked quadrats were 50 m x 50 m in dimension, as required for the Pilbara bioregion according to the Flora and Vegetation Technical Guidance (EPA 2016a). Where the vegetation consisted of a narrow linear corridor, quadrats were linear but of the same overall size i.e. 2,500 m^2.

The following information was collected from within each quadrat:

- observer
- date
- quadrat/site number
- GPS location (GDA94) of the northwest corner
- digital photograph (spatially referenced with a reference number), taken from the northwest corner, looking diagonally across the quadrat
- broad soil type and colour
- topography

- list of flora species recorded with the average height and total cover within the quadrat for each species
- vegetation description (as per below)
- vegetation condition.

At least three quadrats per vegetation type were recorded for the Detailed survey where there was sufficient extent (vegetation types with less than three quadrats outlined in **Table 12**). Quadrat locations are displayed in the **Map 6** series, and listed by vegetation type in **Table 10**.

3.2.1.2 Targeted Searches

TF and PF identified during the desktop analysis and previous surveys as known or having the potential to occur were targeted for searches in areas of potential habitat. Targeted searches were conducted in potentially suitable habitats of target species, with the remainder of the site opportunistically searched during site traverses.

The locations of all targeted taxa collected were recorded using a handheld GPS with the following data recorded:

- observer, date and time
- local abundance/population size and/or population boundary, including outside the development envelopes where possible
- landform
- brief vegetation community description
- representative photos of each species and habitat
- collection of representative specimens.

3.2.1.3 Introduced Species

Introduced species (weeds) were recorded during the collection of the overall flora inventory.

3.2.1.4 Vegetation Description and Classification

Vegetation was described from each of the quadrats using the height and estimated cover of dominant and characteristic species of each stratum based on the National Vegetation Information System, recorded at Level V (NVIS Technical Working Group & DotEE 2017) (**Table 17** and **Table 18** in **Appendix Two**). Up to three species per stratum from each stratum (upper, mid and ground) were used to formulate vegetation descriptions for each quadrat and each vegetation type.

Vegetation type descriptions were created by combining quadrat descriptions and modifying, where necessary, based on the wider vegetation. Vegetation codes were formulated using the first letter of genus and species names of the dominant species of each stratum e.g. **ChAiTc** refers to ***C**orymbia **h**amersleyana* low isolated trees over ***A**cacia **i**naequilatera* tall sparse shrubland over ***T**riodia **c**hichesterensis* low open hummock grassland. In a few cases where the first two letters of the genus and species are not enough to distinguish a unique species, we used two letters from the species name. For example, **Ast** refers to ***A**cacia **st**ellaticeps*, and **Asy** refers to ***A**cacia **sy**nchronicia*. One vegetation type, **TeTse**, was assigned a code with the two most dominant species in the ground stratum to distinguish it from **Te**.

3.2.1.5 Vegetation Condition Assessment

Vegetation condition was assessed broadly and continuously throughout the survey area and at each quadrat using the Vegetation Condition Scale for the Eremaean Botanical Province (EPA 2016a) (**Table 19** in **Appendix Two**). As quadrats are in the best condition parts of a vegetation type, the condition rating of the quadrat may not match that of the broader vegetation type due to the scale of mapping.

3.2.1.6 Field Survey Timing, Personnel and Permits

The field surveys were conducted over the following timeframes, all within the optimal period for a primary survey within the Pilbara bioregion according to the Flora and Vegetation Technical Guidance (EPA 2016a):

- 11-20 March 2024 by Stephen Kern and Emily Mayhew
- 8-14 April 2024 by Louisa Carlsson, James Tsakalos, Sonya Bateman and Madeline West
- 4-10 April 2025 by Louisa Carlsson and Sebastian Chadwick
- 26 May to 1 June 2025 by Stephen Kern, Simon Colwill, Emily Mayhew and Dominik Fabry.

Relevant experience and licensing for field staff is outlined in **Table 7**.

Table 7: Field personnel and experience

Name	Role	Collecting permit	Years of experience
Stephen Kern	Principal Botanist	FB62000001-2 TFL 2223-0088	20
Simon Colwill	Subcontracting Botanist	FB62000815	14
Louisa Carlsson	Senior Ecologist	FB62000295-2 TFL 2324-0113	6
James Tsakalos	Senior Botanist	FB62000661	9
Sonya Bateman	Senior Spatial Ecologist	FB62000422	20
Emily Mayhew	Botanist	FB62000499	3
Dominik Fabry	Botanist		3
Sebastian Chadwick	Ecologist		2
Madeline West	Graduate Ecologist		1

3.2.2 DATA MANAGEMENT AND ANALYSIS

3.2.2.1 Taxonomic Plant Identification

Any plants that could not be identified with certainty in the field, having the potential to be conservation-listed, an introduced species or having significance according to the Flora and Vegetation Technical Guidance (EPA 2016a) were collected during the field survey using Western Australian Herbarium collecting protocols.

Plant identification was undertaken by Stephen Kern (2024 and 2025) and Simon Colwill (2025) using relevant literature, taxonomic keys and reference specimens held at the WAH to identify the post-survey plant collections. Several collections of interest were submitted to the WAH for formal identification (Accession ACC/11747/E).

3.2.2.2 Post-survey Likelihood Assessment

Following the field survey, a post-survey likelihood assessment was conducted to identify conservation-listed species that have the potential to occur on-site. This assessment was based on survey results, survey effort and habitat identified within the survey area.

3.2.2.3 Floristic Analysis

PATN© software (Blatant Fabrications Pty Ltd 2013) was used to undertake statistical analysis to generate floristic groups using the data collected from the quadrats and relevés, in order to better understand local significance of floristic units. PATN analysis has been used for several local floristic analyses including Gibson *et al.* (1994) for the Swan Coastal Plain.

PATN is a multivariate analysis tool that generates estimates of association (resemblance, affinity, distance) between sets of objects described by a suite of variables (attributes) and classifies the objects into groups and condenses the information and displays the patterns in the data graphically. It offers a choice of data transformations prior to multivariate analysis.

Floristic groups, identified using a dendrogram output of the analysis, are used as a tool to inform vegetation type groups at various levels and scales.

For this project a variety of analyses were run. The most informative analysis used the Bray Curtis similarity coefficient for rows (species) and columns (sites) as this provides a good estimation of association for ecological applications (Blatant Fabrications Pty Ltd 2013). For this analysis we used a simple square root transformation of cover values for each species.

Interpretation of these purely floristic groups into recognisable and mappable on-ground units is a tool used to identify broad vegetation types. Generally, quadrats that are closely floristically related on the dendrogram form identifiable vegetation units, however, interpretation is frequently required for imperfect results. Vegetation types are therefore determined as a combination of floristic analysis and on-ground interpretation using dominant and characteristic species.

3.2.2.4 Adequacy of Sampling

In order to demonstrate adequacy of sampling, a species accumulation curve was generated by the software Species Diversity and Richness IV (Pisces Conservation Ltd 2010) using five random selections of sample order, using quadrat data only.

4 FIELD SURVEY RESULTS

4.1 SEASONAL CONDITIONS

The 2024 field surveys followed a period of below average rainfall based on available data from Port Hedland (the nearest BoM station with consistently recorded rainfall data). There were no substantial rainfall events in the 6 months prior to 2024 field surveys (**Figure 3**) and only 14.66% of the average rainfall for that timeframe. The 2025 field surveys followed a period of above average rainfall, with 165.4% of the average rainfall in the 6 months prior to survey, largely during January and February (**Figure 3**).

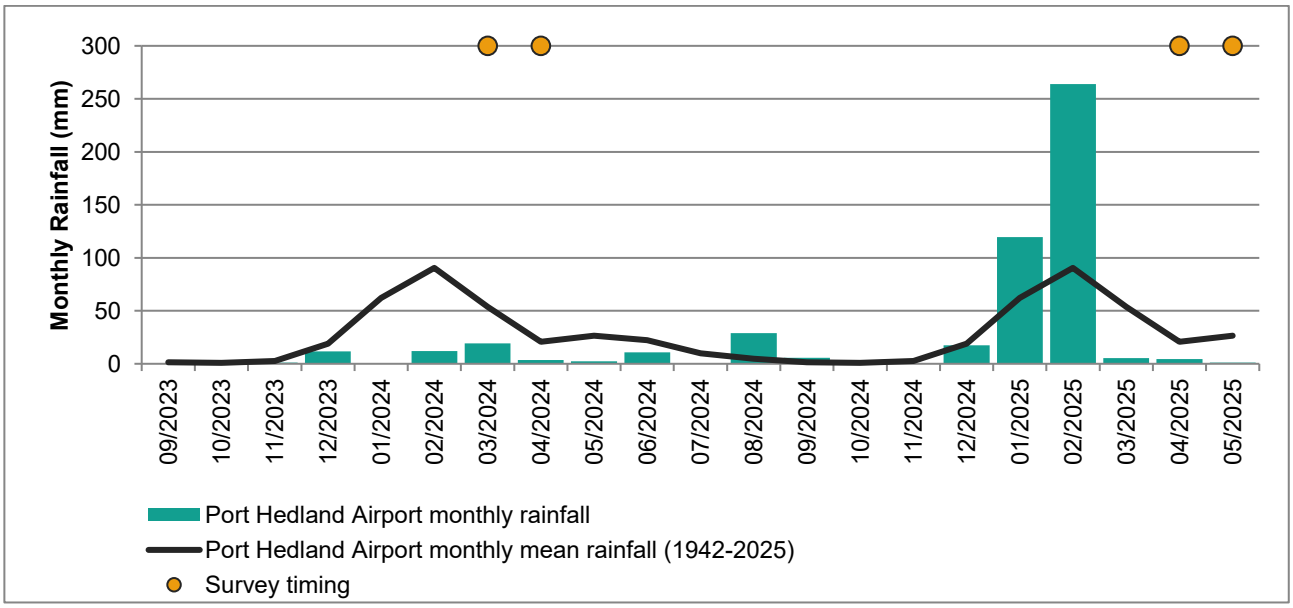


Figure 3: Monthly rainfall at Port Hedland BoM station 2023-2025

4.2 FLORA

4.2.1 FLORA INVENTORY

A total of 191 floristic quadrats have been established from within the survey area to sample the flora and vegetation. Overall, 373 vascular flora taxa were recorded from 160 genera and 56 families from the quadrats, opportunistic observations and searches for conservation-listed flora. Of these, 13 were introduced (3.49%) and 12 (3.22%) could not be identified to species level due to insufficient diagnostic reproductive material.

The most commonly represented families were Fabaceae (71 taxa), Poaceae (64) and Malvaceae (38). The most commonly represented genera were *Acacia* (24 taxa), *Euphorbia* (11), *Eriachne, Ptilotus* and *Sida* (10 each).

The number of species per quadrat ranged from 76 in quadrat T2555 to one in quadrats T24025 and T24031, with an average species diversity of 20.25 per quadrat. The most commonly recorded species were *Triodia epactia* recorded from 149 quadrats, *Corymbia hamersleyana* and *Indigofera monophylla* (both from 94 quadrats).

The combined flora inventory is presented in **Table 25** in **Appendix Four**. Quadrat data is presented in **Appendix Five**.

4.2.2 CONSERVATION-LISTED FLORA

4.2.2.1 Threatened Flora

One TF, *Seringia exastia* listed under the Commonwealth EPBC Act, was recorded during the field survey. As a result of taxonomic revision (Wilkins & Whitlock 2016) this species was removed from the Western Australian BC Act list during September 2022. However, it remains listed as TF (Critically Endangered) under the

Commonwealth EPBC Act. It has been nominated for delisting from the EPBC list, anticipated to occur during 2026. Advice provided by DBCA (DBCA Species and Communities Branch, *pers. comm.*) indicates that this species' listing as TF is a technicality based on outdated taxonomy. *S. exastia* (previously known as *Keraudrenia exastia*) was a species only known from the Kimberley Region near Broome. A recently completed taxonomic study that assessed genomic and morphological characters in several *Seringia* taxa (Wilkins & Whitlock 2016) has concluded that *S. exastia* and *S. elliptica* are the same species. The taxonomy of the genus has been revised to synonymize *S. exastia* and *S. elliptica* under the oldest valid name of *S. exastia*. As *S. elliptica* is common and widespread throughout the Pilbara region, central Western Australia and the Northern Territory and extends into South Australia; following the taxonomic revision *S. exastia* is now considered common and widespread. The populations within the survey area are representative of the taxon formerly known as *S. elliptica* and not related to the Broome population of *S. exastia* that was previously considered conservation significant.

Locations of *Seringia exastia* are indicated on the **Map 6** series and described in more detail in **Table 8**.

Table 8: TF recorded during the field survey

***Seringia exastia* (TF)**	
Description: Shrub to 1 m tall with pink/purple flowers (WAH 1998-2025). 	**Habitat:** typically recorded from sandy plains **Location:** two isolated locations within the survey area **Survey results**: two records of individual plants **Populations:** two populations **Known records and distribution**: According to *Atlas of Living Australia* (ALA 2025) there are 329 records of this species from Western Australia, Northern Territory and South Australia, with an overall distribution of approximately 1,300 km (north-south) by 1,800 km (east-west), largely to the south and southwest of the survey area.

4.2.2.2 Priority Flora

Seven PF were recorded during the field survey:

- *Euphorbia clementii* (P3)
- *Euploca mutica* (P3)
- *Gymnanthera cunninghamii* (P3)
- *Nicotiana umbratica* (P3)
- *Rothia indica* subsp. *australis* (P3)
- *Triodia chichesterensis* (P3)
- *Bulbostylis burbidgeae* (P4).

Locations of PF are indicated on the **Map 6** series and described in more detail in **Table 9**.

Table 9: PF recorded during the field survey

***Euphorbia clementii* (P3)**	
	**Description:** According to *FloraBase* (WAH 1998-2025), this species is an erect herb to 0.6 m high. Within the survey area, this species was distinguished by its bright red stems and distinctive disc like appendages on flowers and fruits. **Habitat:** recorded from stony flats. **Location:** restricted to the western portions of the survey area. **Survey results**: 12 records including 113 individuals. **Populations:** likely representative of two populations. **Known records and distribution**: According to ALA (2025), there are 45 records of this species from the Pilbara bioregion, with an overall distribution of approximately 150 km (north-south) by 280 km (east-west), largely centralised over the survey area.
***Euploca mutica* (P3)**	
	**Description:** According to Craven (1996), *Euploca mutica* is a perennial plant, ascending to spreading–ascending, up to 30 cm tall. The branchlets feature densely hairy internodes with appressed to ascending 2–5 mm long, 1–2 mm wide sessile leaves. During the survey timeframes most observed individuals were desiccated. **Habitat:** Typically recorded from red sandy plains. **Location:** Throughout the survey area in suitable habitat. **Survey results**: 197 records including 3,392 individuals. **Populations:** Likely representative of up to 6 populations. **Known records and distribution**: According to ALA (2025), there are 81 records of this species from the Pilbara, with an overall distribution of approximately 180 km (north-south) by 250 km (east-west), largely centralised over the survey area.

***Gymnanthera cunninghamii* (P3)**	
	**Description:** According to *FloraBase* (WAH 1998-2025), this species is an erect shrub to 2 m high with cream-yellow flowers. Within the survey area, it was observed as an upright shrub with conspicuously bright green foliage. **Habitat:** Recorded from sandy drainage lines. **Location:** Isolated locations in the southern portion of the survey area. **Survey results**: Four records totalling 6 plants **Populations:** three populations. **Known records and distribution**: According to ALA (2025), there are 1,156 records of this species from the Western Australia, the Northern Territory and Queensland.
***Nicotiana umbratica* (P3)**	
	**Description:** According to *FloraBase* (WAH 1998-2025), this species is an erect herb to 0.7 m high with white flowers. Within the survey area, it was observed as individuals growing on shallow soils associated with granite outcrops, typically beneath overhanging boulders. **Habitat:** Recorded from areas of massive granite boulders. **Location:** Southwest portion of the survey area. **Survey results**: Recorded from 13 locations, totalling 48 individuals within the survey area. **Populations:** Up to five populations. **Known records and distribution**: According to ALA (2025), there are 46 records of this species. It is largely restricted to the Pilbara bioregion, with isolated occurrences near the Northern Territory border.

***Rothia indica* subsp. *australis* (P3)**	
	**Description:** According to *FloraBase* (WAH 1998-2025), this taxon is a prostrate annual herb to 0.3 m high. Within the survey area, it was observed as dried individuals growing on shallow soils associated with granite. **Habitat:** occurs on sandy granitic soils. **Location:** two isolated locations. **Survey results**: three records totalling 11 plants within the survey area. **Populations:** two populations. **Known records and distribution**: According to ALA (2025), there are 67 records of this taxon from Western Australia, the Northern Territory and Queensland.
***Triodia chichesterensis* (P3)**	
	**Description:** According to Anderson *et al*., (2017) this hummock-forming (0.2–0.4m tall) plant features short leaves with glabrous leaf sheaths, relatively unbranched inflorescence, often short pedicels, and pubescent lemma. **Habitat:** occurs in rocky to gravelly substrates of loam or sand, often with a quartz or calcrete stony mantle. **Location:** throughout the survey area **Survey results**: 456 records totalling 237,887 plants within the survey area. **Populations:** potentially representative of 3-4 large populations **Known records and distribution**: According to ALA (2025), there are 39 records of this species from the Pilbara, with an overall distribution of approximately 150 km (north-south) by 90 km (east-west), largely centralised over the survey area.

***Bulbostylis burbidgeae* (P4)**	
	**Description:** According to *FloraBase* (WAH 1998-2025), this species is a tufted, erect to spreading annual, grass-like or herb (sedge). Within the survey area, it was observed as individuals growing on shallow soils associated with granite outcrops, typically amongst boulders. **Habitat:** typically recorded growing between or beneath overhangs of large granite boulders. **Location:** throughout the survey area **Survey results**: recorded from 90 locations, totalling 5,266 individuals within the survey area **Populations:** up to 14 populations **Known records and distribution**: According to ALA (2025), there are 43 records of this species from the Pilbara, with an overall distribution of approximately 200 km (north-south) by 170 km (east-west), with the records dispersed around the survey area.

4.2.3 OTHER SIGNIFICANT FLORA

Flora with potential to be significant according to the criteria outlined in the Flora and Vegetation Technical Guidance (EPA 2016a) are in the following sections.

4.2.3.1 Range Extensions

The records of *Triumfetta incana* within the survey represent an eastern range extension of approximately 120 km west of the nearest record. The typical distribution of this species is within the Kimberley region, therefore, records from the Pilbara are outliers.

4.2.3.2 Flora of Taxonomic Interest

Several flora of potential taxonomic interest were recorded during the field survey, described below.

***Acacia* hybrids**

At least six observations of likely hybrids between *Acacia* species were made:

- *Acacia ancistrocarpa x orthocarpa*: an isolated individual was observed considered to represent a hybrid between *A. ancistrocarpa* and *A. orthocarpa*. This individual had intermediate characteristics between the two likely parent species and was growing in close proximity to both species. *World Wide Wattle* (WAH, DBCA & Shire of Dalwallinu 2022) identifies this as a common hybrid combination in the Pilbara.
- *Acacia bivenosa x pyrifolia*: an isolated individual was observed of a likely hybrid between *A. bivenosa* and *A. pyrifolia*, growing in close proximity to the two likely parent species
- *Acacia trachycarpa x ?*: an isolated individual was observed of a potential hybrid between *A. trachycarpa* and another unknown species. This individual was growing alongside typical *A. trachycarpa* and had slightly larger leaves and less distinct minni ritchie bark than its parent species. The other parent species was unclear, with no obvious candidate based on those co-occurring nearby.
- *Acacia tumida* var. *pilbarensis* x ?*citrinoviridis:* isolated individuals were observed along a drainage line of a likely hybrid between *A. tumida* var. *pilbarensis* (almost certain) and *A. citrinoviridis* (most likely). The plants were sterile, but appeared to have vegetative characteristics that were intermediate between the two potential parent taxa. This hybrid combination is recognised on *World Wide Wattle* (WAH, DBCA & Shire of Dalwallinu 2022) and *FloraBase* (WAH 1998-2025).
- *Acacia tumida x trachycarpa*: an isolated individual was observed of a likely hybrid between *A. tumida* and *A. trachycarpa*, growing in close proximity to the two likely parent species. It had intermediate characteristics between these two species including bark. This hybrid combination is recognised on *World Wide Wattle* (WAH, DBCA & Shire of Dalwallinu 2022) and *FloraBase* (WAH 1998-2025).

- *Acacia tumida x ?*: an isolated individual was observed of a potential hybrid between *A. tumida* and another species of *Acacia*. It had smaller and narrower leaves than typical *A. tumida.*

None of the *Acacia* hybrids observed are considered of particular conservation significance. The likely parent taxa are common and widespread and these hybrids can occur anywhere that the parent taxa co-exist.

Bonamia pilbarensis

Bonamia pilbarensis, described and formally named by Johnson (2014), is documented as having two forms:

- 'typical' form with a moderately dense indumentum of ferruginous hairs on the stems and leaves giving It a green appearance (**Image 1**)
- 'atypical' form with a denser indumentum of white hairs giving it a silvery appearance, restricted to the area south of Port Hedland to Marble Bar (**Image 2**).

Both forms of *Bonamia pilbarensis* listed above were recorded from the survey area, however, the 'atypical' form was the most frequently encountered. The two forms have been distinguished in the data (as 'typical' and 'atypical'), however, neither are considered of particular conservation significance.



Image 1: *Bonamia pilbarensis* 'typical'



Image 2: *Bonamia pilbarensis* 'atypical'

***Polymeria* sp.**

A *Polymeria* taxon (**Image 3**) was recorded from three isolated locations on sandy plains. It has a distinctive stoloniferous habit (roots arising from most nodes) and sparse leaves with strongly expressed veins on abaxial surface. A collection of this taxon was submitted to the WAH for formal identification with the confirmation that the material doesn't align well with any currently recognised *Polymeria* taxa and likely represents a new species. It is understood that this taxon is widespread in the Pilbara bioregion and extends into the southern Kimberley region (M. Hislop[2] *pers. comm.*). Therefore, whilst of taxonomic interest, it is considered unlikely that *Polymeria* sp. is of particular conservation significance.

[2] Michael Hislop: WA Herbarium taxonomist

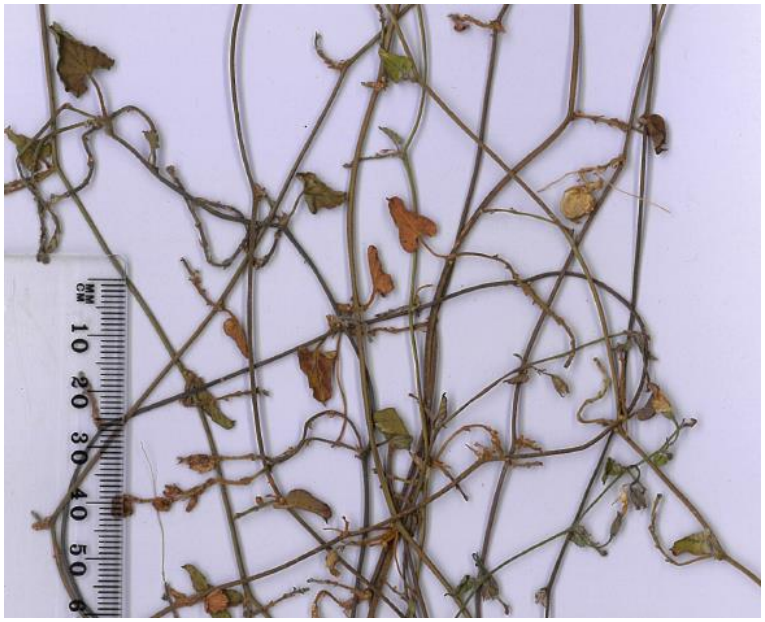


Image 3: *Polymeria* sp.

Polycarpaea aff. *corymbosa*

A collection of *Polycarpaea* (**Image 4**) with a close resemblance to *P. corymbosa* was recorded from a single location within a sandy drainage line from the survey area. However, *P. corymbosa* is known to be a variable species, and a more typical form of *P. corymbosa* was also recorded from the survey area. The collection was submitted for formal identification and confirmed as an atypical form of *P. corymbosa* because of a different sepal shape and larger seeds. However, it is not clear whether there is sufficient justification to recognise it as a distinct taxon based on available collections and the known variability of *P. corymbosa*.



Image 4: *Polycarpaea* aff. *corymbosa*

Scaevola browniana subsp. *browniana*

Scaevola browniana subsp. *browniana* is relatively widespread in the Pilbara and Kimberley regions of WA. In the Pilbara, there appear to be two forms of this taxon, one from rocky mountainous habitats and one from sandplain areas. This taxon is currently under review with potential for separating into multiple taxa (P. Jayasekara *pers. comm*.). It appears that the form of *Scaevola browniana* subsp. *browniana* recorded from

the sandplains of the survey area (**Image 5**) is regionally widespread. Whilst of potential taxonomic interest, it is considered unlikely to be of conservation significance.



Image 5: *Scaevola browniana* subsp. *browniana*

Solanum* sp. aff. *gabrielae

A *Solanum* that with apparent affinities to *S. gabrielae* was recorded from several locations amongst granite boulders near the western boundary of the survey area (**Image 6**). The collection was submitted for formal WA Herbarium identification with the confirmation that it is likely to represent a new species. There are only two collections of this taxon held at the WA Herbarium, both from the East Pilbara region, indicating that it may have a restricted distribution. Therefore it is potentially of conservation significance. It is understood that the phrase name of *Solanum* sp. Marble Bar (R. L. Barrett RLB 8292) is in the process of being raised to formally recognise this taxon.



Image 6: *Solanum* sp. aff. *gabrielae*

4.2.3.3 Introduced Flora

Thirteen introduced flora species (weeds) were recorded during the field survey, representing 3.49% of the overall flora inventory:

- **Aerva javanica* (Kapok)
- **Bidens bipinnata* (Bipinnate Beggartick)

- **Calotropis procera* (Calotrope)
- **Cenchrus ciliaris* (Buffel Grass)
- **Cenchrus setiger* (Birdwood Grass)
- **Chloris virgata* (Feathertop Rhodes Grass)
- **Citrullus amarus* (Pie Melon)
- **Euphorbia hirta* (Asthma Plant)
- **Flaveria trinervia* (Speedy Weed)
- **Indigofera oblongifolia*
- **Stylosanthes hamata* (Verano Stylo)
- **Tridax procumbens* (Tridax)
- **Vachellia farnesiana* (Mimosa Bush).

Most were recorded at low densities within the survey area. **Calotropis procera* (Calotrope) was the most frequently recorded introduced species, from 92 locations (**Map 7**). Calotrope was a major contributor to vegetation condition assessment in the revegetated areas surrounding the artificial dam areas. It is a Declared Pest Plant (s22[2]) under the BAM Act.

Images of weeds recorded during the survey (or scans) are presented in **Image 7** to **Image 19**.



Image 7: *Aerva javanica*



Image 8: *Bidens bipinnata*



Image 9: *Calotropis procera* (Declared Pest)



Image 10: *Cenchrus ciliaris*



Image 11: ****Cenchrus setiger*



Image 12: ****Chloris virgata* (ITHAKA 2000)



Image 13: * *Citrullus amarus*



Image 14: ****Euphorbia hirta*



Image 15: ****Flaveria trinervia*



Image 16: ****Indigofera oblongifolia*



Image 17: ****Stylosanthes hamata*



Image 18: ****Tridax procumbens*



Image 19: ****Vachellia farnesiana*

4.2.4 VEGETATION

4.2.4.1 Vegetation Types

Twenty three vegetation types were recorded from within the survey area (**Table 10**, **Map 6** series) based on a combination of structural vegetation type as identified in the field, floristic analysis (see **Section 4.2.6**) and subsequent desktop review.

The vegetation types within the survey area, grouped broadly based on landform types, were:

- Plains (including low undulating landscape): **AaTe**, **AaTl**, **AiTe1**, **AiTe2**, **AiTl**, **AoTe**, **AstTe**, **AsyTe**, **ChAaTl**, **ChAiTc**, **ChAiTe**, **TeTs**, **Tsc**, **Tse**, **Tw**
- Low hills and outcrops: **AoTw**, **AtuTe**, **ChTe**, **TcAtTe**, **Te**
- Drainage lines: **ChAtuTe**, **EcAtrTe**, **EvAtuTe**.

Table 10: Vegetation types

The representative image is from the quadrat listed in **bold** font.

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**AaTe**	*Acacia ancistrocarpa* mid sparse shrubland over *Triodia epactia* low open hummock grassland	**T24035**, T24070, T24093		*Acacia inaequilatera, Acacia synchronicia, Aristida contorta, Rhynchosia minima*	62.29 ha 0.27%
Plains	**AaTl**	*Acacia ancistrocarpa* mid open shrubland over low open *Triodia lanigera* hummock grassland	T24004, T24008, T24018, T24032, **T24062,** T24067, T24085, T24088, T24095, T24098, T24099, T24106, T24108, T24109, T24110, T2508, T2509, T2516, T2529, T2530, T2540, T2542, T2543, T2546, T2551, T2552, T2553, T2556, T2557, T2558, T2559, T2567, T2568, T2570, T2574, T2577, T2581, T2582		*Acacia inaequilatera, Acacia orthocarpa, Acacia stellaticeps, Afrohybanthus aurantiacus, Arivela uncifera, Bonamia erecta, Bulbostylis barbata, Corymbia hamersleyana, Eriachne pulchella* subsp. *dominii, Euploca mutica, Fimbristylis dichotoma, Indigofera monophylla, Panicum australiense* var. *australiense, Polycarpaea holtzei, Ptilotus fusiformis, Scaevola browniana* subsp. *browniana, Sporobolus australasicus, Tephrosia* sp. Bungaroo Creek (M.E. Trudgen 11601), *Trigastrotheca molluginea, Triodia epactia*	8,513.88 ha 37.56%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**AiTe1**	*Acacia inaequilatera* tall sparse shrubland over *Triodia epactia* low hummock grassland	T24047, T24051, **T24077**, T24091, T2515, T2545, T2547, T2548, T2566		*Corymbia hamersleyana, Eriachne pulchella* subsp. *dominii, Euphorbia coghlanii, Evolvulus alsinoides* var. *villosicalyx, Indigofera monophylla, Rhynchosia minima, Senna notabilis, Sporobolus australasicus, Triodia chichesterensis*	367.97 ha 1.62%
Plains	**AiTe2**	*Acacia inaequilatera* mid sparse shrubland over *Triodia epactia* low hummock grassland	T2501, T2502, **T2503**, T2504		*Acacia stellaticeps, Afrohybanthus aurantiacus, Aristida holathera* var. *holathera, Arivela uncifera, Arivela viscosa, Bonamia erecta, Bonamia linearis, Bulbostylis barbata, Corchorus elachocarpus, Dactyloctenium radulans, Eriachne pulchella* subsp. *dominii, Fimbristylis neilsonii, Indigofera monophylla, Portulaca oleracea, Senna notabilis, Solanum diversiflorum, Sporobolus australasicus, Trianthema triquetrum, Trigastrotheca molluginea*	806.92 ha 3.56%

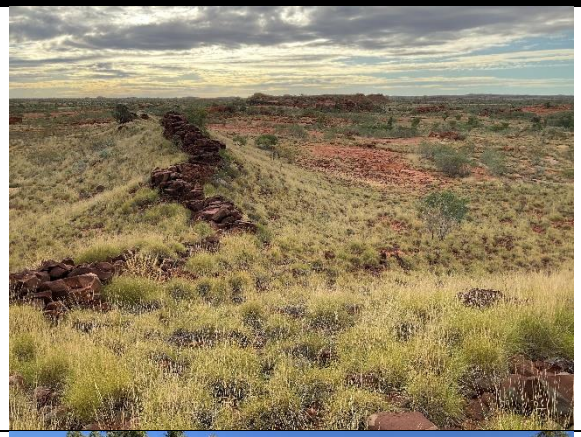
Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**AiTl**	*Acacia inaequilatera* mid sparse shrubland over *Triodia lanigera* and *Triodia epactia* low open hummock grassland	T24021 **T24022** T24023		*Acacia ancistrocarpa, Acacia stellaticeps, Afrohybanthus aurantiacus, Arivela uncifera, Bonamia erecta, Eriachne pulchella* subsp. *dominii, Indigofera monophylla*	1,309.81 ha 5.78%
Plains	**AoTe**	*Acacia orthocarpa* mid sparse shrubland over *Triodia epactia* low hummock grassland	**T2528**, T2588		*Acacia stellaticeps, Aristida holathera* var. *holathera, Corymbia hamersleyana, Eriachne pulchella* subsp. *dominii, Goodenia microptera, Panicum australiense* var. *australiense, Ptilotus fusiformis, Senna notabilis, Sida* sp. Pilbara (A.A. Mitchell PRP 1543), *Solanum diversiflorum, Sporobolus australasicus, Trianthema triquetrum, Trigastrotheca molluginea*	134.39 ha 0.59%

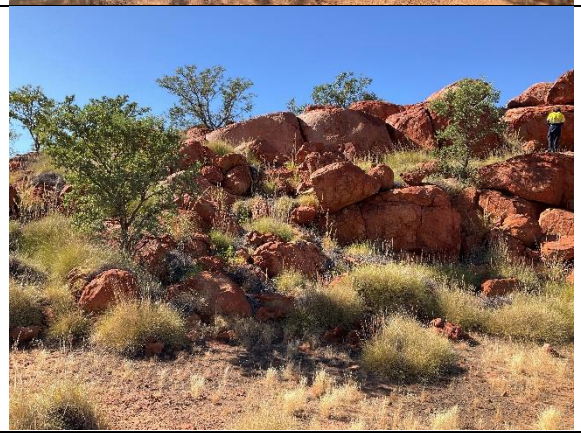
Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Low hills	**AoTw**	*Acacia orthocarpa* mid sparse shrubland over *Triodia wiseana* low hummock grassland	T24013, T24015, T24033, T24071, T24072, T24082, T24084, T2521, T2524, **T2597**, T2598, T2599		*Acacia pyrifolia* var. *pyrifolia, Arivela viscosa, Bonamia pilbarensis* (atypical form), *Corchorus parviflorus, Cymbopogon ambiguus, Dolichocarpa crouchiana, Enneapogon caerulescens, Eriachne mucronata, Fimbristylis dichotoma, Gomphrena cunninghamii, Polygala glaucifolia, Ptilotus auriculifolius, Tephrosia* sp. NW Eremaean (S. van Leeuwen et al. PBS 0356), *Triodia chichesterensis, Triodia epactia*	500.21 ha 2.21%
Plains	**AstTe**	*Acacia stellaticeps* mid open shrubland over mixed *Triodia epactia* and *T. lanigera* low hummock grassland	T24011, T24019, T24043, **T24049**, T24075, T24096, T24100, T2517, T2569		*Acacia ancistrocarpa, Acacia bivenosa, Acacia sphaerostachya, Acacia tumida* var. *pilbarensis, Afrohybanthus aurantiacus, Bonamia erecta, Corymbia hamersleyana, Euploca mutica, Euploca pachyphylla, Indigofera monophylla, Ptilotus astrolasius, Solanum diversiflorum*	1,291.35 ha 5.70%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**AsyTe**	*Acacia synchronicia* mid sparse shrubland over *Triodia epactia* low open hummock grassland	T24034, T24036, T24073, T24079, T24111, T2514, **T2571**		**Cenchrus ciliaris, Portulaca oleracea, Rhynchosia minima, Senna artemisioides* subsp. *oligophylla, Senna notabilis, Sida fibulifera. Sporobolus australasicus*	222.38 ha 0.98%
Outcrops	**AtuTe**	*Acacia tumida* var. *pilbarensis* mid sparse shrubland over *Triodia epactia* low open hummock grassland	T24017, **T24028**, T24030, T2510, T2560, T2561		*Afrohybanthus aurantiacus, Aristida holathera* var. *holathera, Arivela uncifera, Bonamia linearis, Bulbostylis barbata, Eriachne pulchella* subsp. *dominii, Fimbristylis dichotoma, Sida* sp. Pilbara (A.A. Mitchell PRP 1543), *Trigastrotheca molluginea*	498.32 ha 2.20%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**ChAaTl**	*Corymbia hamersleyana* low open woodland over *Acacia ancistrocarpa, A. inaequilatera* and *A. orthocarpa* mid sparse shrubland over *Triodia lanigera* and *Acacia spondylophylla* low hummock grassland/shrubland	T2513, T2583, **T2596**		*Abildgaardia oxystachya, Acacia tumida* var. *pilbarensis, Afrohybanthus aurantiacus, Bonamia erecta, Dampiera candicans, Eriachne ciliata, Eriachne pulchella* subsp. *pulchella, Fimbristylis dichotoma, Indigofera monophylla, Polycarpaea holtzei, Polygala glaucifolia, Portulaca oleracea, Ptilotus calostachyus, Ptilotus fusiformis, Senna glutinosa* subsp. *glutinosa, Sida* sp. Pilbara (A.A. Mitchell PRP 1543), *Trigastrotheca molluginea, Triodia epactia*	30.34 ha 0.13%
Plains	**ChAiTc**	*Corymbia hamersleyana* low isolated trees over mixed *Acacia inaequilatera* and *Acacia orthocarpa* tall sparse shrubland over mixed *Triodia chichesterensis* and *Triodia epactia* low open hummock grassland	**T24001**, T24003, T24010, T24012, T24020, T24040, T24042, T24044, T24045, T24046, T24048, T24052, T24060, T24068, T24074, T24078, T24080, T24081, T24089, T24092, T24094, T24097, T24101, T24107, T2512, T2519, T2522, T2523, T2525, T2527, T2533, T2536, T2537, T2541, T2544, T2550, T2554, T2575, T2578, T2590		*Acacia ancistrocarpa, Acacia bivenosa, Acacia stellaticeps, Afrohybanthus aurantiacus, Bonamia pilbarensis* (atypical form), *Corchorus elachocarpus, Corchorus parviflorus, Eriachne pulchella* subsp. *dominii, Euploca chrysocarpa, Indigofera monophylla, Panicum australiense* var. *australiense, Ptilotus astrolasius, Ptilotus calostachyus, Ptilotus clementii, Senna notabilis, Tephrosia* sp. NW Eremaean (S. van Leeuwen et al. PBS 0356), Trigastrotheca molluginea	4,003.10 ha 17.66%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**ChAiTe**	*Corymbia hamersleyana* low scattered trees over *Acacia inaequilatera, A. bivenosa* and *A. ancistrocarpa* mid sparse shrubland over *Triodia epactia* low hummock grassland	**T2505**, T2526, T2539, T2580, T2595		*Acacia stellaticeps, Acacia tumida* var. *pilbarensis, Arivela viscosa, Bulbostylis barbata, Chrysopogon fallax, Eragrostis cumingii, Indigofera monophylla, Polymeria ambigua, Senna notabilis, Sporobolus australasicus*	533.62 ha 2.35%
Drainage lines	**ChAtuTe**	*Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis* mid open shrubland over low open *Triodia epactia* hummock grassland	T24005, T24009, T24029, T24037, **T24076**, T24090, T2538, T2579		*Acacia ancistrocarpa, Acacia bivenosa, Acacia stellaticeps, Afrohybanthus aurantiacus, Cassytha capillaris, Cenchrus ciliaris, Chrysopogon fallax, Corchorus elachocarpus, Corchorus incanus* subsp. *incanus, Eriachne obtusa, Euploca pachyphylla, Grevillea wickhamii, Indigofera monophylla, Isotropis atropurpurea, Pluchea dentex, Polymeria ambigua, Rhynchosia minima, Senna notabilis, Stemodia grossa, Tephrosia* sp. Bungaroo Creek (M.E. Trudgen 11601)	621.79 ha 2.74%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Ridges	**ChTe**	*Corymbia hamersleyana* low scattered trees over *Triodia epactia* low sparse hummock grassland	T24069, T2563, T2564, T2594		*Acacia ancistrocarpa, Acacia inaequilatera, Acacia tumida var. pilbarensis, Arivela viscosa, Cajanus cinereus, Corchorus parviflorus, Gomphrena cunninghamii, Rhynchosia minima, Solanum cleistogamum, Terminalia circumalata, Tinospora smilacina, Tribulus platypterus*	35.25 ha 0.16%
Drainage lines	**EcAtrTe**	*Eucalyptus camaldulensis* subsp. *refulgens Melaleuca argentea* and *Eucalyptus victrix* low open woodland over *Acacia trachycarpa* tall sparse shrubland over mixed *Triodia epactia* and *Eriachne benthamii* low sparse hummock and tussock grassland	T2511, T2555, **T2573**, T2591		*Acacia tumida* var. *pilbarensis, Arivela viscosa, Bulbostylis barbata, Calandrinia tepperiana, *Cenchrus ciliaris, Chrysopogon fallax, Corchorus incanus* subsp. *incanus, Cyperus conicus, Cyperus ixiocarpus, Eragrostis cumingii, Eragrostis tenellula, Eriachne benthamii, Eulalia aurea, Hibiscus austrinus, Rhynchosia minima, Scleromitrion galioides, Senna notabilis, Stemodia grossa, Stemodia viscosa, Themeda triandra*	351.99 ha 1.55%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Drainage lines	**EvAtTe**	*Eucalyptus victrix* low open woodland over *Acacia tumida* var. *pilbarensis* and *Acacia trachycarpa* tall sparse shrubland over *Triodia epactia* low open hummock grassland	T24007, T24014, **T24050**, T24112, T2565		*Acacia ampliceps, Acacia colei, Acacia pyrifolia* var. *pyrifolia, Afrohybanthus aurantiacus, Aristida holathera* var. *holathera, Arivela viscosa, Boerhavia coccinea, *Cenchrus ciliaris, Chrysopogon fallax, Corchorus elachocarpus, Corchorus incanus* subsp. *incanus, Cynanchum floribundum, Cyperus ixiocarpus, Eragrostis cumingii, Eulalia aurea, Euphorbia coghlanii, Evolvulus alsinoides* var. *decumbens, Flueggea virosa* subsp. *melanthesoides, Goodenia lamprosperma, Indigofera linifolia, Ipomoea polymorpha, Nellica maderaspatensis, Perotis rara, Rhynchosia minima, Senna notabilis, Tinospora smilacina, Waltheria indica*	483.39 ha 2.13%
Outcrops	**TcAtTe**	*Terminalia circumalata* low open woodland over *Acacia tumida* var. *pilbarensis* and *A. orthocarpa* mid open shrubland over *Triodia epactia* low open hummock grassland	T2520, T2531, T2534, T2535, **T2589**, T2593		*Abutilon lepidum, Afrohybanthus aurantiacus, Arivela viscosa, Bulbostylis barbata, Bulbostylis burbidgeae, Cajanus cinereus, Corchorus parviflorus, Cymbopogon ambiguus, Cyperus cunninghamii* subsp. *cunninghamii, Eriachne aristidea, Euphorbia coghlanii, Evolvulus alsinoides* var. *villosicalyx, Fimbristylis dichotoma, Gomphrena cunninghamii, Paspalidium clementii, Polycarpaea longiflora, Rhynchosia minima, Tinospora smilacina, Trachymene oleracea* subsp. *oleracea*	1,643.79 ha 7.25%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Outcrops	**Te**	*Triodia epactia* low open hummock grassland	T24041, **T24061**, T24086, T2587		*Acacia ancistrocarpa, Acacia inaequilatera, Acacia maitlandii, Afrohybanthus aurantiacus, Arivela viscosa, Boerhavia coccinea, Bulbostylis burbidgeae, Capparis spinosa* subsp. *nummularia, *Cenchrus ciliaris, Chrysopogon fallax, Corymbia hamersleyana, Cymbopogon ambiguus, Ehretia saligna* var. *saligna, Eriachne mucronata, Evolvulus alsinoides* var. *villosicalyx, Ficus brachypoda, Fimbristylis dichotoma, Gomphrena cunninghamii, Hakea lorea* subsp. *lorea, Paspalidium clementii, Rhynchosia minima, Sida* sp. Pilbara (A.A. Mitchell PRP 1543)	176.79 ha 0.78%
Plains	**TeTse**	*Triodia epactia* and *Triodia secunda* low hummock grassland	**T24059**, T2576		*Acacia stellaticeps, Aristida contorta, Arivela uncifera, Bonamia linearis, Bulbostylis barbata, Eriachne aristidea, Eriachne obtusa, Eriachne pulchella* subsp. *dominii, Euphorbia coghlanii, Fimbristylis dichotoma, Gomphrena leptoclada* subsp. *leptoclada, Goodenia microptera, Panicum australiense* var. *australiense, Pluchea ferdinandi-muelleri, Pluchea tetranthera, Polycarpaea corymbosa* var. *corymbosa, Portulaca oleracea, Ptilotus astrolasius, Sporobolus australasicus, Trianthema triquetrum, Trigastrotheca molluginea*	222.29 ha 0.98%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**Tsc**	*Triodia schinzii* low hummock grassland	**T24038**, T24039, T2532, T2584, T2585, T2586		*Acacia stellaticeps, Acacia tumida* var. *pilbarensis, Afrohybanthus aurantiacus, Arivela uncifera, Bonamia erecta, Bonamia linearis, Bulbostylis barbata, Chrysopogon fallax, Indigofera monophylla, Panicum australiense* var. *australiense, Ptilotus astrolasius, Ptilotus fusiformis, Trigastrotheca molluginea, Triodia epactia*	203.93 ha 0.90%
Plains	**Tse**	*Triodia secunda* low hummock grassland	T24002, T24006, T24016, T24027, T24031, T24058, T24083, T24087, T2572, T2592		*Acacia bivenosa, Acacia stellaticeps, Fimbristylis dichotoma, Salsola australis, Senna notabilis, Trianthema triquetrum, Triodia epactia*	554.72 ha 2.45%

Landform	Mapping unit	Vegetation type	Floristic quadrats	Representative photograph	Other characteristic species	Area (ha) and extent (%)
Plains	**Tw**	*Triodia wiseana* low open hummock grassland	**T2562**		*Aristida contorta, Eragrostis desertorum, Euploca chrysocarpa, Goodenia microptera, Senna notabilis, Sporobolus australasicus, Stemodia grossa*	17.49 ha 0.08%
		Not native vegetation (cleared)			76.55 ha	0.34%
		Revegetation			5.70 ha	0.03%
		TOTAL EXTENT			**22,668.24 ha**	**100%**

4.2.5 VEGETATION SIGNIFICANCE

4.2.5.1 TECs and PECs

No vegetation recorded from the survey area was assessed as being representative of any currently described TEC or PEC.

4.2.5.2 Groundwater Dependent Vegetation

One vegetation type (**EcAtrTe**) is considered representative of GDV based on the presence of *Eucalyptus camaldulensis* subsp. *refulgens* and *Melaleuca argentea* as dominant and characteristic species. *Melaleuca argentea* is considered an obligate phreatophyte and *Eucalyptus camaldulensis* is considered a facultative phreatophyte, they depend on access to groundwater for survival (Eamus et al. 2006). The **EcAtrTe** vegetation type corresponds with sections of Tabba Tabba Creek and Strelley River West and occupies 351.99 ha (1.55%).

Eucalyptus victrix may be regarded as a facultative phreatophyte although there is some evidence to suggest that it is not dependent on groundwater in all circumstances (Batini 2009; Eamus 2009; EPA 2010; Equinox Environmental 2017; Resource and Environmental Management Pty Ltd 2007). Therefore, vegetation dominated or characterised by *Eucalyptus victrix* is considered to be representative of a potential GDV. *Eucalyptus victrix* was a dominant species of vegetation type **EvAtuTe**; this vegetation type is considered as potential GDV. **EvAtTe** corresponds with mid-order drainage lines and occupies 483.39 ha (2.13%) of the survey area.

4.2.5.3 Sheet Flow Dependent Vegetation

There were no species of Mulga recorded within the survey area and therefore none of the vegetation types are considered to be sheet flow dependent.

4.2.5.4 Vegetation Characterised by Conservation-listed Flora

The **ChAiTc** vegetation type is dominated and characterised by the Priority 3-listed taxon *Triodia chichesterensis* (P3) and could be considered of significance for supporting conservation-listed flora. This vegetation type was widespread and extensive within the survey area (4,003.10 ha, 17.66%) and appears to be extensive outside the survey area based on field observations and review of aerial imagery.

4.2.5.5 Other Significant Vegetation

According to the criteria outlined in the Flora and Vegetation Technical Guidance (EPA 2016a), the following vegetation types may be potentially significant due to their small extents of less than 1% within the survey area:

- **AaTe** (62.29 ha, 0.27%)
- **AoTe** (134.39 ha, 0.59%)
- **AsyTe** (222.38 ha, 0.98%)
- **ChAaTl** (30.34 ha, 0.13%)
- **ChTe** (35.25 ha, 0.16%)
- **Te** (176.79 ha, 0.78%)
- **TeTs** (222.29 ha, 0.98%)
- **Tsc** (203.93 ha, 0.90%)
- **Tw** (17.49 ha, 0.08%).

None of these vegetation types are considered to have any additional significance and are not considered to be historically threatened, have a specific role as a refuge or provide important functions required to maintain the ecological integrity of a significant ecosystem. These spatially restricted vegetation types, while occupying a small proportion of the survey area, are considered likely to be represented elsewhere in the local surrounding area.

4.2.6 STATISTICAL ANALYSIS

4.2.6.1 Floristic Analysis

The floristic analysis dendrogram (**Figure 7** in **Appendix Seven**) indicates that the several of the vegetation types identified by structural composition do not correspond well with floristic groupings. Floristic community types do not always correspond with structural vegetation types that use dominant and characteristic species to define the vegetation. Variation of vegetation types from clear floristic groupings can be explained by disturbance events, vegetation degradation and quadrats that may occur on an ecotone. In particular, the survey area has been subject to highly variable fire history that would have influenced flora cover and composition, depending on frequency, severity and duration since last fire. Upon review of vegetation, including assessing against landform and aerial imagery, the structural vegetation types identified are considered most informative and appropriate to retain.

4.2.6.2 Adequacy of Survey

Adequacy of survey can be demonstrated using a species accumulation curve; if the curve has reached (or almost reached) an asymptote, it is considered that most species are likely to have been recorded from the survey area.

A species accumulation curve was generated using quadrat data (**Figure 4**). Opportunistic observations, which increase the number of species recorded, are not included in the analysis. The species accumulation curve suggests most species present within the survey area would have been recorded during the field survey. This is supported by the Bootstrap estimate of species richness of 369.5 which, when taking opportunistic records into account, is less than the number of actual species recorded within the survey area (373).

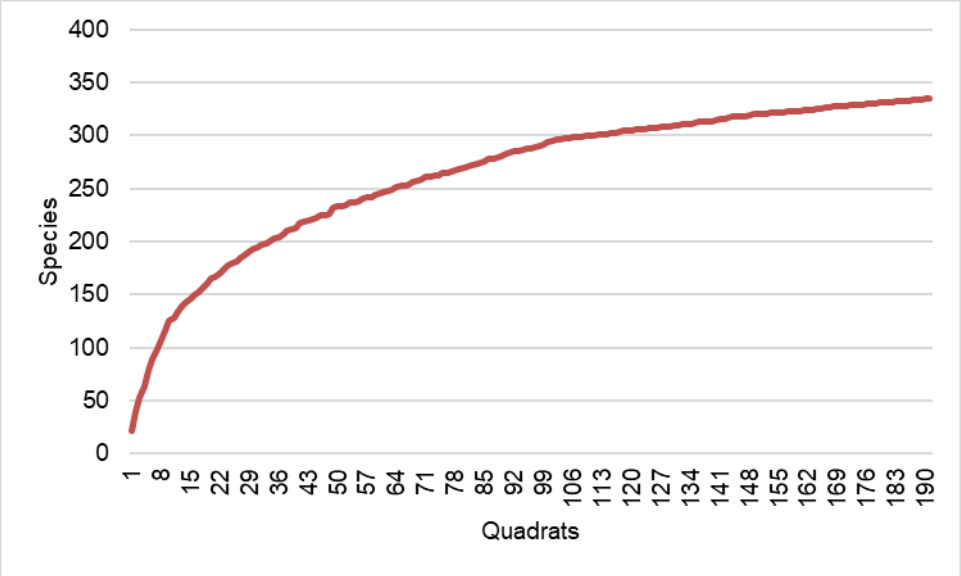


Figure 4: Species accumulation curve

4.2.7 VEGETATION CONDITION

The vegetation condition within the survey area ranged from Completely Degraded to Excellent condition, with the majority in Excellent or Very Good condition (**Table 11**, **Map 7** series). The main factors affecting vegetation condition were grazing, weeds and clearing.

Table 11: Vegetation condition

Vegetation condition	Extent (ha)	Proportion (%)
Excellent	12,519.02	55.23
Very Good	9,296.31	41.01
Good	768.51	3.42
Poor	-	-
Degraded	2.16	0.01
Completely Degraded	5.70	0.03
Not vegetated	76.55	0.34

4.2.8 SURVEY LIMITATIONS

Survey design and type: Multiple phase, quadrat-based Detailed flora and vegetation survey with extensive traverses searching for conservation-listed flora. Results from previous surveys were considered as part of survey design and the desktop assessment.

Type of vegetation classification system: Vegetation classified at NVIS Level V (NVIS Technical Working Group & DotEE 2017) using largely structural vegetation types defined using dominant and characteristic species and vegetation structure as recorded during the field surveys. Floristic analysis was used to identify major floristic groups and outlier groups of floristic interest.

A full summary of botanical limitations is presented in **Table 12**.

Table 12: Botanical limitations

Possible limitations	Constraints (yes/no): Significant, moderate or negligible	Comment
Availability of contextual information at a regional and local scale	No	Several flora and surveys have been conducted in the subregion and are considered sufficient to provide contextual information at a regional and local scale.
Competence/experience of the team conducting the survey, including experience in the bioregion surveyed	No	The Principal Botanist leading the project and several of the field surveys has over 20 years' experience conducting flora and vegetation surveys in Western Australia, including the Pilbara region. Other team leaders involved have at least 5 years' experience in the Pilbara region. The team lead botanists (Louisa Carlsson, James Tsakalos and Simon Colwill) all have greater than 5 years' experience in the Pilbara region.
Proportion of the flora recorded and/or collected, and any identification issues	No	373 vascular flora taxa were recorded during the field survey of which 3.22% could not be identified with certainty to species level due to the lack of diagnostic reproductive material. None of the unidentified taxa are considered likely to represent any conservation-listed flora from the region.
Was the appropriate area fully surveyed (effort and extent)	No	The survey was undertaken over two stages and a total of 191 floristic quadrats were used to sample 23 vegetation types. The majority of vegetation types were represented by at least three quadrats. Only the **AoTe** (two quadrats), **TeTs** (two quadrats) and **Tw** (one quadrat) vegetation types were represented by less than three quadrats as each of these vegetation types were of limited spatial extent within the survey area. Therefore, survey effort and extent is considered sufficiently adequate to describe the flora and vegetation of the survey area.

Possible limitations	Constraints (yes/no): Significant, moderate or negligible	Comment
Access restrictions within the survey area	No	The survey area was fully accessible via a network of vehicle tracks and traverses on foot. An off-road buggy was provided by Wildcat to access areas with few tracks. Several small heritage restricted areas were identified by Wildcat Resources. However, these did not specifically require sampling, and vegetation types represented outside of these areas were sampled.
Survey timing, rainfall, season of survey	Yes - moderate	Seasonal conditions prior to the 2024 survey were particularly dry with only 14.66% of the average rainfall received during this timeframe. However, conditions prior to the 2025 survey were above average (**Figure 3**), also evident from rainfall deciles data (**Figure 5**).
Disturbance that may have affected the results of the survey e.g. fire, flood, clearing	No	There were no recent disturbances that would have significantly affected the results of the survey. Variable fire history (though none particularly recent) may have impacted the results of the cover-weighted floristic analysis such that some vegetation types were not good floristic units.

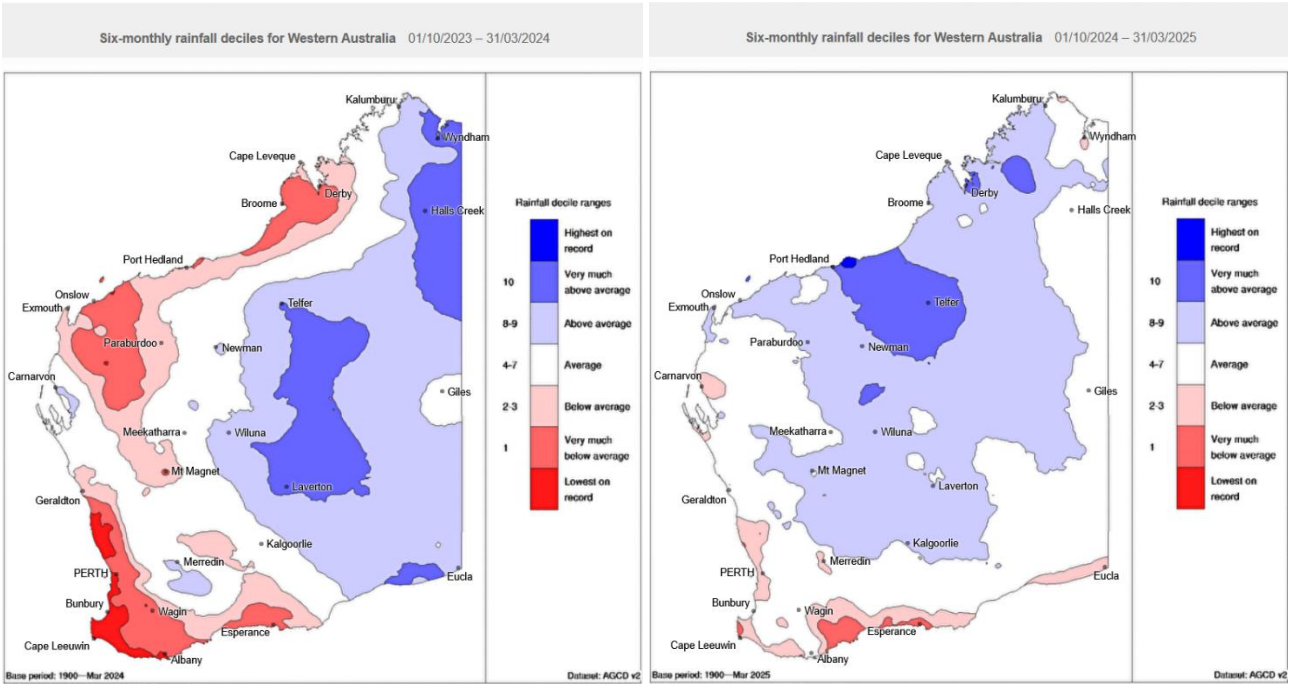


Figure 5: Rainfall deciles for the 6 months prior to the field surveys (BoM 2025b)

5 DISCUSSION

5.1 FLORA SIGNIFICANCE

A total of 373 vascular flora species were recorded from 191 floristic quadrats and opportunistic observations, including during searches for conservation-listed flora. A relatively small proportion of the total flora inventory (13 species; 3.49%) were introduced species, mostly restricted to drainage lines or areas of historical clearing.

The species accumulation curve (**Figure 4**) indicates that the majority of species likely to be present were recorded and that additional effort would not have resulted in a significant increase to the flora inventory, particularly considering the 2025 surveys were undertaken following a period of above average rainfall.

5.1.1 CONSERVATION-LISTED FLORA

5.1.1.1 Threatened Flora

Seringia exastia, listed as Threatened Flora under the Commonwealth EPBC Act, was opportunistically recorded from two isolated locations within the survey area. This species has been removed from the BC Act following revised taxonomy (Wilkins & Whitlock 2016). However, it remains on the EPBC Act list of Threatened Flora until it is assessed for delisting, which should occur by 30 October 2026. Accordingly, *Seringia exastia* was not a focus of the surveys as it is known to be widespread in Western Australia, extending into the Northern Territory and South Australia (**Figure 6**) and potential impact to this species is not considered significant.

The populations within the survey area are representative of the taxon formerly known as *S. elliptica* and not related to the Broome population of *S. exastia* that was previously considered conservation significant.

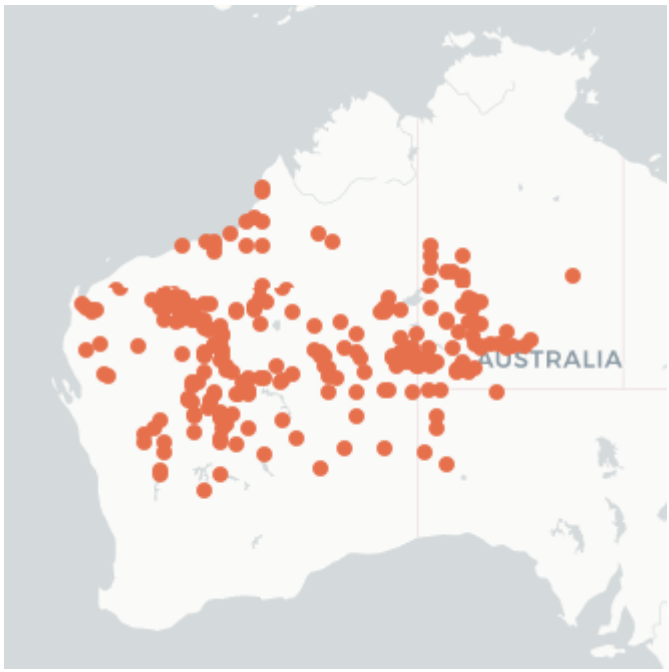


Figure 6: *Seringia exastia* distribution (ALA 2024)

5.1.1.2 Priority Flora

Seven PF were recorded from the survey area, consisting of six P3 taxa and one P4 taxon. P3 taxa are poorly known species either known from several locations that are not under imminent threat or are known from few but widespread locations that are mostly not under imminent threat. P3 taxa may also include species that are known from several locations but require further survey. P4 taxa include rare species (which are not currently threatened but could become threatened if circumstances change), near threatened species or other species in need of monitoring (DBCA 2020).

***Euphorbia clementii* (P3)**

Euphorbia clementii has a known distribution of approximately 150 km (north-south) by 280 km (east-west) centralised over the survey area (ALA 2025). Within the survey area there were 113 plants recorded from the western portions of the survey area. However, this species is ephemeral and has the potential to be more widespread within the survey area following suitable seasonal conditions.

Euphorbia clementii was typically recorded from stony plains of the **ChAiTc** vegetation type that was widespread within the survey area. Similar suitable habitat appears to be widespread from surrounding areas and it is considered that potential impacts to this species would be negligible, particularly considering the low number of plants recorded.

***Euploca mutica* (P3)**

This species has a known distribution of approximately 180 km (north-south) by 250 km (east-west) centralised over the survey area (ALA 2025). Within the survey area, 3,392 plants were recorded throughout the survey area, typically associated with sandy plains. Previous observations by Ecoscape botanists indicate that this species is most abundant in the years following fire and also from disturbed areas such as tracks, roadsides and drill pads. Similar observations were made within the survey area with this species observed most frequently in areas that were recovering from fire. Whilst this species is geographically restricted, it appears to be locally common within this range where suitable habitat is present and particularly following fire.

Suitable habitat for *Euploca mutica* is considered likely to be widespread in areas surrounding areas. Based on the likely abundance in surrounding regions and the species' apparent ecology as a disturbance opportunist, it is considered that potential impacts to this species from proposed developments would be negligible.

***Gymnanthera cunninghamii* (P3)**

Within Western Australia, *Gymnanthera cunninghamii* has a distribution restricted to the Pilbara and surrounding areas, though it is also known from the Northern Territory and Queensland (ALA 2025). *Gymnanthera cunninghamii* was observed from six isolated plants growing along sandy drainage lines within the survey area. Similar habitat is likely to be widespread outside the survey area and potential impact to this species is considered negligible, particularly due to the low number of plants present.

***Nicotiana umbratica* (P3)**

Nicotiana umbratica is known from 46 records, largely within the Pilbara bioregion and with isolated occurrences near the Northern Territory border (ALA 2025). This species was recorded from 48 plants within the survey area, typically growing between granite boulders or beneath overhangs in the southwest portion of the survey area.

The landform that supports *Nicotiana umbratica*, areas of granite outcrops, appears to be extensive to the west of the survey area. Therefore, considering the relatively low number of plants recorded, potential impacts to this species are likely to be negligible.

***Rothia indica* subsp. *australis* (P3)**

This species has a relatively large distribution across northern Western Australia, the Northen Territory and Queensland (ALA 2025). It was infrequently observed within the survey area, with only 11 plants recorded from sandy areas near granite outcropping.

Suitable habitat to support *Rothia indica* subsp. *australis* is likely extensive outside the survey area and potential impacts are considered negligible due to the low number of plants present and the widespread distribution of the species across northern Australia.

***Triodia chichesterensis* (P3)**

This species is known from 39 records in the Pilbara bioregion, with a distribution of approximately 150 km (north-south) by 90 km (east-west) (ALA 2025) with the survey area located centrally within this distribution.

Triodia chichesterensis was abundant and extensive within the survey area, recorded from at least 237,887 plants. This is almost certainly an underestimate as it was the dominant species of the extensive **ChAiTc** vegetation type that occupied 17.66% of the survey area. This species was typically associated with stony quartz or calcrete plains.

The landform/vegetation type supporting *Triodia chichesterensis* appears to be extensive outside of the survey area, based on observations and known records. Therefore, it is considered that potential impact to this species from proposed developments would likely be insignificant.

***Bulbostylis burbidgeae* (P4)**

This species is known from 43 records with a relatively narrow distribution south of Port Hedland (200 km north-south by 170 km east-west) (ALA 2025). There were 5,266 plants recorded, all from granite outcrop areas with plants typically growing between boulders or beneath overhangs. This total number of plants is considered an underestimate of the total populations with extensive suitable habitat along the western and southern boundaries of the survey area.

Bulbostylis burbidgeae, whilst geographically restricted, is frequently encountered within its range where suitable habitat exists (outcropping) and there appears to be extensive suitable habitat outside the survey area, particularly to the west. It is considered that potential impact to this species from proposed developments would likely be insignificant, particularly considering the extensive suitable habitat that exists outside the survey area to the west.

5.1.2 POST-SURVEY LIKELIHOOD ASSESSMENT

The likelihood of conservation significant flora occurring in the survey area was revised following the field survey. This revised likelihood, that took into account vegetation condition, grazing and other disturbances, actual habitat availability and search effort, is included in **Table 20** in **Appendix Three**.

The majority of species assessed as Likely to or May occur based on the desktop assessment were downgraded to Unlikely based on lack of suitable habitat or not being present within suitable habitat despite extensive searches: Only one of the species identified by the desktop assessment, *Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) (P3), is considered to remain as May occur following the field assessment. This taxon has been typically recorded from sandy plains where it appears to be most frequent following disturbance such as fire. Whilst it was not recorded by the survey, suitable habitat exists within the survey area and it is considered to have the potential to occur as a successional species following fire.

5.1.3 OTHER SIGNIFICANT FLORA

One substantial range extension (*Triumfetta incana*) and several flora of potential taxonomic interest were recorded within the survey area including hybrids, atypical forms of known species and species that may warrant recognition as distinct taxa in the future. The majority of these are considered unlikely to be of particular conservation significance. However, the taxon *Solanum* sp. aff. *gabrielae* may be of conservation significance as a new taxon of potentially restricted distribution, with only two known collections of this species held at the WAH, both from the East Pilbara region. This taxon was recorded from areas of granite outcropping where it was observed growing between boulders. The phrase name of *Solanum* sp. Marble Bar (R. L. Barrett RLB 8292) is in the process of being raised to formally recognise this taxon.

5.1.4 INTRODUCED FLORA

Thirteen introduced species were recorded during the field surveys. Most of these are commonly encountered weeds of the Pilbara bioregion. Overall, weeds account for 3.49% of the total flora inventory and reflect a relatively low level of disturbance in the survey area.

One of the recorded weeds is a Declared Pest Plant, **Calotropis procera* (Caltrope). **Calotropis procera* was recorded at 92 locations (1,357 plants) within the survey area and was most prolific surrounding the artificial dam areas.

There is no formal requirement to manage any of the weeds recorded. Whilst **Calotropis procera* is a Declared Pest Plant under the *Biosecurity and Agriculture Management Act 2007*, it is in the 'exempt' category and there are no reporting or management actions required.

5.2 VEGETATION SIGNIFICANCE

Twenty three vegetation types were recorded from the survey area from a variety of landforms including low hills, outcrops, plains and drainage lines. including:

- **AaTe**: *Acacia ancistrocarpa* mid sparse shrubland over *Triodia epactia* low open hummock grassland
- **AaTl**: *Acacia ancistrocarpa* mid open shrubland over low open *Triodia lanigera* hummock grassland
- **AiTe1**: *Acacia inaequilatera* tall sparse shrubland over *Triodia epactia* low hummock grassland
- **AiTe2**: *Acacia inaequilatera* mid sparse shrubland over *Triodia epactia* low hummock grassland
- **AiTl**: *Acacia inaequilatera* mid sparse shrubland over *Triodia lanigera* and *Triodia epactia* low open hummock grassland
- **AoTe**: *Acacia orthocarpa* mid sparse shrubland over *Triodia epactia* low hummock grassland
- **AoTw**: *Acacia orthocarpa* mid sparse shrubland over *Triodia wiseana* low hummock grassland
- **AstTe**: *Acacia stellaticeps* mid open shrubland over mixed *Triodia epactia* and *Triodia lanigera* low hummock grassland
- **AsyTe**: *Acacia synchronicia* mid sparse shrubland over *Triodia epactia* low open hummock grassland
- **AtuTe**: *Acacia tumida* var. *pilbarensis* mid sparse shrubland over *Triodia epactia* low open hummock grassland
- **ChAaTl**: *Corymbia hamersleyana* low open woodland over *Acacia ancistrocarpa*, *A. inaequilatera* and *A. orthocarpa* mid sparse shrubland over *Triodia lanigera* and *Acacia spondylophylla* low hummock grassland/shrubland
- **ChAiTc**: *Corymbia hamersleyana* low isolated trees over mixed *Acacia inaequilatera* and *Acacia orthocarpa* tall sparse shrubland over *Triodia chichesterensis* and *Triodia epactia* low open hummock grassland
- **ChAiTe**: *Corymbia hamersleyana* low scattered trees over *Acacia inaequilatera*, *A. bivenosa* and *A. ancistrocarpa* mid sparse shrubland over *Triodia epactia* low hummock grassland
- **ChAtuTe**: *Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis* mid open shrubland over low open *Triodia epactia* hummock grassland
- **ChTe**: *Corymbia hamersleyana* low scattered trees over *Triodia epactia* low sparse hummock grassland
- **EcAtrTe**: *Eucalyptus camaldulensis* subsp. *refulgens*, *Melaleuca argentea* and *Eucalyptus victrix* low open woodland over *Acacia trachycarpa* tall sparse shrubland over *Triodia epactia* and *Eriachne benthamii* low sparse hummock and tussock grassland
- **EvAtuTe**: *Eucalyptus victrix* low open woodland over *Acacia tumida* var. *pilbarensis* and *Acacia trachycarpa* tall sparse shrubland over *Triodia epactia* low open hummock grassland
- **TcAtTe**: *Terminalia circumalata* low open woodland over *Acacia tumida* var. *pilbarensis* and *A. orthocarpa* mid open shrubland over *Triodia epactia* low open hummock grassland
- **Te**: *Triodia epactia* low open hummock grassland
- **TeTse**: *Triodia epactia* and *Triodia secunda* low hummock grassland
- **Tsc**: *Triodia schinzii* low hummock grassland
- **Tse**: *Triodia secunda* low hummock grassland
- **Tw**: *Triodia wiseana* low open hummock grassland.

The vegetation types are not always supported by floristic analysis. However, floristic community types do not always correspond well with structural vegetation types that use dominant and characteristic species to define them. Several vegetation types were identified from the analysis as floristically similar (occurring within the same floristic group). However, these vegetation types are considered discrete based on structural differences. Other factors identified as causing variation within the floristic groups include quadrat placement on vegetation intergrades and disturbance impacts across the survey area, particularly variable fire history.

5.2.1 THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

No vegetation within the survey area was assessed as being representative of any currently described TEC and none have been recorded within 100 km of the survey area. The desktop assessment identified two PECs occurring within a 100 km buffer of the survey area, however, no vegetation types within the survey area were assessed as being representative of these PECs.

5.2.2 OTHER SIGNIFICANT VEGETATION

5.2.2.1 Groundwater Dependent Vegetation

Vegetation type **EcAtrTe** (corresponding with Tabba Tabba Creek and Strelley River West) is considered representative of GDV and **EvAtuTe** representative of potential GDV based on the presence of obligate and facultative phreatophytic species, respectively. The presence of GDV in the landscape is a strong indicator of broader terrestrial type GDEs. GDEs are considered significant ecological communities given their dependence on groundwater and high biological diversity. However, GDEs have the potential to be impacted more by changes to groundwater levels from groundwater abstraction or changes to surface water flow. Additional detail on GDEs is provided in **Appendix One**.

5.2.2.2 Vegetation Types of Limited Spatial Extent

Several vegetation types within the survey area have restricted extents, occupying less than 1% of the survey area. Although these vegetation types are restricted within the survey area, they are not considered to have any additional significance in a local and regional context based on the criteria outlined in the Flora and Vegetation Technical Guidance (EPA 2016a).

5.2.3 LOCAL AND REGIONAL SIGNIFICANCE OF VEGETATION

There are several local/regional previous surveys available to provide local context and the vegetation of the survey area was observed to be typical of the surrounding area based on pre-European vegetation mapping and land system mapping. All pre-European vegetation associations present within the survey area have greater than 99% extent remaining at the statewide scale. None of the documented vegetation types are representative of any described TEC or PEC. Furthermore, none are considered historically threatened, have a specific role as a refuge for flora species or provide important functions required to maintain the ecological integrity of a significant ecosystem, with the potential exception of riparian vegetation types (**ChAtuTe**, **EcAtrTe**, **EvAtuTe**).

Therefore, the vegetation types recorded within the survey area are considered unlikely to have any specific local or regional significance.

5.2.4 VEGETATION CONDITION

The majority of vegetation within the survey area was in Excellent or Very Good condition with minimal signs of significant disturbance recorded. Vegetation in Good to Degraded condition was mostly associated with drainage lines where there were obvious impacts from cattle (grazing and trampling) and aggressive weeds. Vegetation condition was also lesser in areas where there was evidence of historical clearing activities.

6 DWER'S 10 CLEARING PRINCIPLES

The following table is provided to summarise the likely significant findings of the survey and how they are likely to be assessed, based on DWER's 10 clearing principles (Department of Environment Regulation 2014).

Table 13: Assessment against DWER's 10 clearing principles

Principle	Assessment	Outcome
(a) Native vegetation should not be cleared if it comprises a high level of biological diversity.	There were 373 flora taxa recorded from the survey area, considered moderate flora diversity for the region.	Unlikely to be at variance
(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.	Not included as part of this assessment	N/A
(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.	*Seringia exastia* remains an EPBC Act-listed Threatened Flora, though should not be considered significant (see Discussion). Six Priority 3 and one Priority 4 taxa were recorded from the survey area. Potential impact to each of these species is considered likely to be negligible based on known records, and extensive suitable habitat outside the survey area. Therefore, none of the vegetation types are considered necessary for the continued existence of rare flora.	Unlikely to be at variance
(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.	There were no TECs or PECs recorded from the survey area.	Unlikely to be at variance
(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.	Pre-European vegetation association mapping indicates that all vegetation types have greater than 99% statewide distribution remaining.	Unlikely to be at variance
(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.	Vegetation types **ChAtuTe**, **EcAtrTe**, **EvAtuTe** correspond with drainage lines. None of these drainage lines contain permanent surface water. The **EcAtrTe** vegetation type corresponds with the largest drainage lines of the survey area Tabba Tabba Creek and Strelley River West. The **ChAtuTe** and **EvAtuTe** vegetation types are minor to mid-order drainage lines that intersect various parts of the survey area.	May be at variance

Principle	Assessment	Outcome
(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.	It is considered unlikely that the clearing of vegetation in the survey area would cause appreciable land degradation. The survey area has been subject to past and present pastoral activity with existing impacts of grazing, weed invasion and historical mining in parts.	Unlikely to be at variance
(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.	There are no legislated areas of conservation lands or waters within close proximity to the survey area.	Unlikely to be at variance
(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.	This was not assessed as part of the scope of works	Not assessed
(j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.	Whilst not specifically assessed, it is considered unlikely that clearing of vegetation within the survey area would cause, or exacerbate, the incidence or intensity of flooding.	Unlikely to be at variance

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MAPS

690000
705000
720000
7725000
7710000

Boolaloo
Macroy
River
Paradise
Uaroo
Granitic
Talga
Horseflat
Calcrete
Satirist
Ruth
Robe
Oakover

LEGEND

Survey Area

Soil Land System

- **Boolaloo system**: Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs
- **Calcrete system**: Low calcrete platforms and plains supporting shrubby hard spinifex grasslands
- **Granitic system**: Rugged granitic hills supporting shrubby hard and soft spinifex grasslands
- **Horseflat system**: Gilgaied clay plains supporting Roebourne Plains grass grasslands and minor grassy snakewood shrublands
- **Macroy system**: Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands
- **Oakover system**: Breakaways, mesas, plateaux and stony plains of calcrete supporting hard spinifex shrubby grasslands
- **Paradise system**: Alluvial plains supporting soft spinifex grasslands and tussock grasslands
- **River system**: Narrow, seasonally active flood plains and major river channels supporting moderately close, tall shrublands or woodlands of acacias and fringing communities of eucalypts sometimes with tussock
- **Robe system**: Low plateaux, mesas and buttes of limonite supporting soft spinifex and occasionally hard spinifex grasslands
- **Ruth system**: Hills and ridges of volcanic and other rocks supporting shrubby hard spinifex and occasionally soft spinifex grasslands
- **Satirist system**: Stony plains and low rises supporting hard spinifex grasslands, and gilgai plains supporting tussock grasslands
- **Talga system**: Hills and ridges of greenstone and chert and stony plains supporting hard and soft spinifex grasslands
- **Uaroo system**: Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs

DATA SOURCES:
SOURCE DATA: SOIL-LANDSCAPE MAPPING WESTERN AUSTRALIA – BEST AVAILABLE SOILS (DPIRD-027) (DPIRD 2022)
IMAGERY: ESRI WORLD IMAGERY (MAXAR 2021)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, USGS
WORLD IMAGERY: EARTHSTAR GEOGRAPHICS

ecoscape

SOIL LAND SYSTEMS

TABBA TABBA LITHIUM PROJECT
FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:140,000 @ A3

0 2 3 5 km

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	16/09/2025
1	SB	SK	08/04/2026

MAP 01

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx

690000 705000 720000

7725000

7710000

Qa Agry Qrc Cza Agip Agi Agic Atp Ancw Acp Agrh Agc Ancw Agrk Aep Ascm Acg Agrt Agr Agiw

LEGEND

Survey Area

Geology Unit

- Acg: Chert, ferruginous chert, banded iron formation, jaspilite; minor siltstone, shale, sandstone, pebbly sandstone, quartzite, polymictic conglomerate, felsic volcaniclastic rock, basalt, ultramafic schist, mafic schist
- Acp: Chert, some as tectonic dykes
- Aep: Metamorphosed ultramafic to mafic rocks; ultramafic schist; metaperidotite, metapyroxenite, serpentinite; komatiitic and boninitic metabasalt, metagabbro, metadolerite, amphibolite; minor metasedimentary rocks, tectonic megabreccia
- Agc: Monzogranite, granodiorite, quartz diorite, granite, leucogranite, quartz-feldspar porphyry, rhyolite dykes, diorite, leucogranodiorite, felsic orthogneiss, migmatite, amphibolite
- Agi: Undifferentiated granitoid intrusions of the Sisters Supersuite; leucogranite (locally schlieric or pegmatitic), monzogranite, granodiorite, tonalite, diorite, tonalitic orthogneiss, rhyolite dykes, pegmatite; interleaved in places
- Agic: Hornblende-biotite granodiorite; grades to K-feldspar porphyritic monzogranite; massive to moderately foliated; metamorphosed.
- Agip: Biotite monzogranite; strongly K-feldspar porphyritic to seriate; massive to weakly foliated; locally with strong flow alignment; locally abundant inclusions of Chillerina Monzogranite; metamorphosed.
- Agiw: Hornblende-biotite granodiorite and tonalite; massive to moderately foliated; locally inclusion-rich; metamorphosed.
- Agr: Syenogranite, monzogranite, granitic gneiss, pegmatite
- Agrh: Fine- to medium-grained muscovite (-garnet) monzogranite.
- Agrk: Muscovite-biotite(-garnet) monzogranite; equigranular to weakly porphyritic; massive to layered.
- Agrt: Biotite(-muscovite) granite; seriate to equigranular; fine- to medium-grained, massive to weakly foliated and metamorphosed.
- Agry: Biotite-muscovite monzogranite; locally with quartz and K-feldspar phenocrysts; massive to weakly foliated; metamorphosed.
- Ancw: Heterogeneous, migmatic tonalitic orthogneiss; minor schlieric hornblende granodiorite.
- Ascm: Interbedded metamorphosed shale, siltstone, sandstone, and medium to fine grained wacke; minor layers of chert; may contain gabbroic intrusions
- Atp: Metamorphosed mafic rocks; metabasalt, metagabbro, metadolerite, amphibolite, mafic schist; minor metamorphosed ultramafic rocks and metasedimentary rocks; amphibolite schist; quartz-sericite schist, volcaniclastic rocks, local granitic dykes and veins
- Cza: Reworked or incised alluvium in older stream channels; alluvial terraces above younger alluvium; alluvial and colluvial outwash deposits not in defined channel systems; lateritised alluvium; sand, silt, gravel, clay, evaporites
- Qa: Channel and flood plain alluvium; gravel, sand, silt, clay; may be locally calcreted
- Qrc: Colluvium and/or residual deposits, sheetwash, talus, scree; boulder, gravel, sand; may include minor alluvial or sand plain deposits, local calcrete and reworked laterite

DATA SOURCES:
SOURCE DATA: SURFACE GEOLOGY 1:1M (GEOSCIENCE AUSTRALIA 2012)
IMAGERY: ESRI WORLD IMAGERY (MAXAR 2021)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, USGS
WORLD IMAGERY: EARTHSTAR GEOGRAPHICS

ecoscape

SURFACE GEOLOGY

TABBA TABBA LITHIUM PROJECT
FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:140,000 @ A3

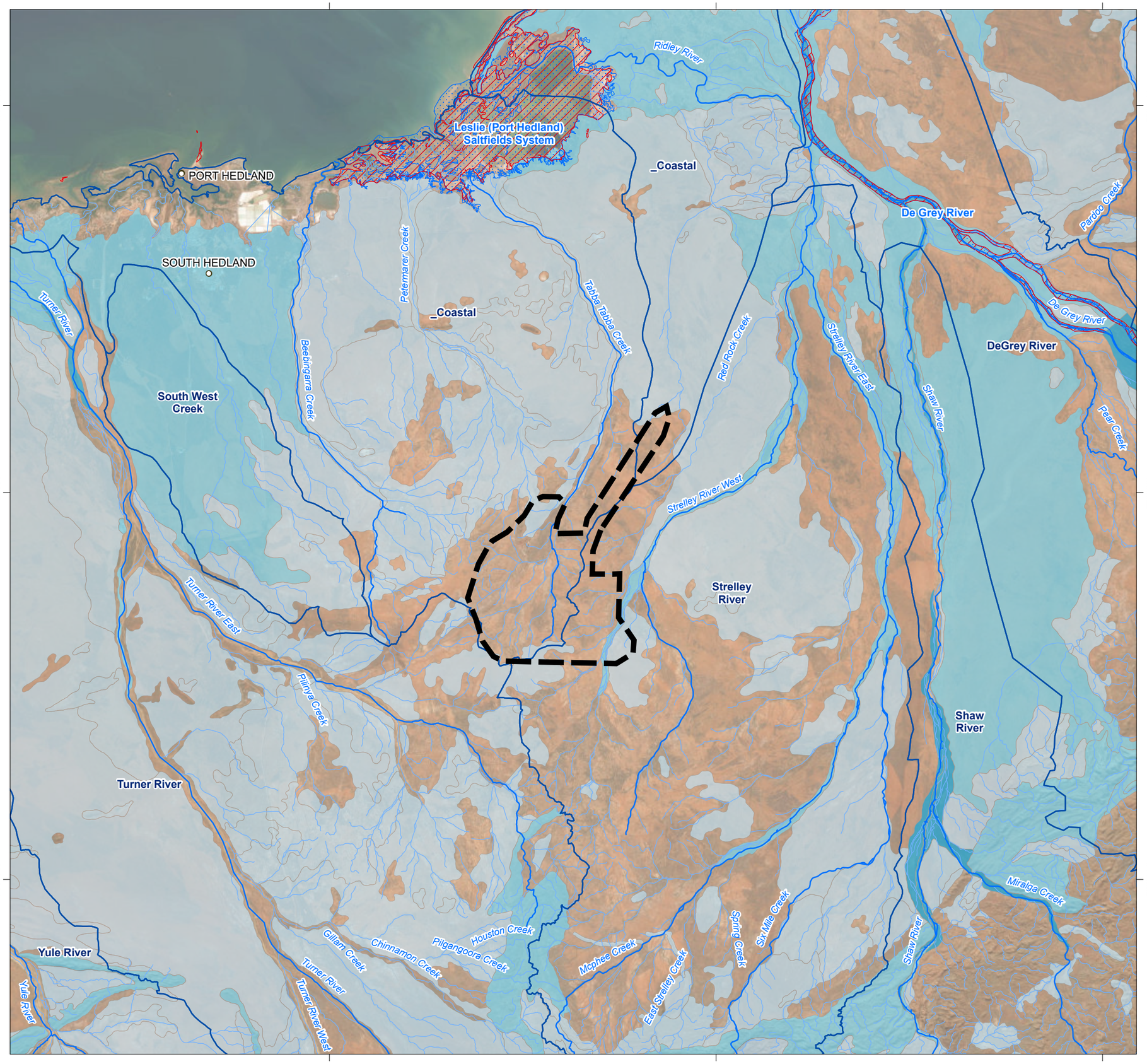
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	09/07/2025
1	SB	SK	08/04/2026

MAP 02

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

- Survey Area
- Main Town

Drainage

- Major
- Minor
- Environmentally Sensitive Areas (DWER-046)
- Directory of Important Wetlands WA (DBCA-045)
- Hydrographic Catchments (DWER-028)

Terrestrial Groundwater Dependent Ecosystems Description

- High potential GDE - from national assessment
- Moderate potential GDE - from national assessment
- Low potential GDE - from national assessment

DATA SOURCES:
SOURCE DATA: CLEARING REGULATIONS - ENVIRONMENTALLY SENSITIVE AREAS (DWER-046) (DWER 2021), DIRECTORY OF IMPORTANT WETLANDS IN AUSTRALIA - WESTERN AUSTRALIA (DBCA-045) (DBCA 2018), HYDROGRAPHIC CATCHMENTS (DWER-028) (DWER 2024), SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015), TERRESTRIAL GROUNDWATER DEPENDENT ECOSYSTEMS (GDE ATLAS) (BOM 2017) AND TOWNS (STREETPRO 2009).
IMAGERY: ESRI WORLD IMAGERY (MAXAR 2021)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, USGS
WORLD IMAGERY: EARTHSTAR GEOGRAPHICS

ecoscape

DRAINAGE, WETLANDS AND GDE LIKELIHOOD

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:400,000 @ A3

0 5 10 15 km

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	10/07/2025
1	SB	SK	08/04/2026

MAP 03

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690000
705000
720000
7725000
7710000

619
619
619
619
619
93
93
589
157

LEGEND

Survey Area

Pre-European Vegetation Association

- 82: Hummock grasslands, low tree steppe; snappy gum over *Triodia wiseana*
- 93: Hummock grasslands, shrub steppe; kanji over soft spinifex
- 157: Hummock grasslands, grass steppe; hard spinifex, *Triodia wiseana*
- 589: Mosaic: Short bunch grassland - savanna / grass plain (Pilbara) / Hummock grasslands, grass steppe; soft spinifex
- 619: Medium woodland; river gum (*Eucalyptus camaldulensis*)
- 647: Hummock grasslands, dwarf-shrub steppe; *Acacia translucens* over soft spinifex

DATA SOURCES:
SOURCE DATA: PRE-EUROPEAN VEGETATION (DPIRD-006) (DPIRD 2019)
IMAGERY: ESRI WORLD IMAGERY (MAXAR 2021)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, USGS
WORLD IMAGERY: EARTHSTAR GEOGRAPHICS

ecoscape

PRE-EUROPEAN VEGETATION

TABBA TABBA LITHIUM PROJECT
FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:140,000 @ A3

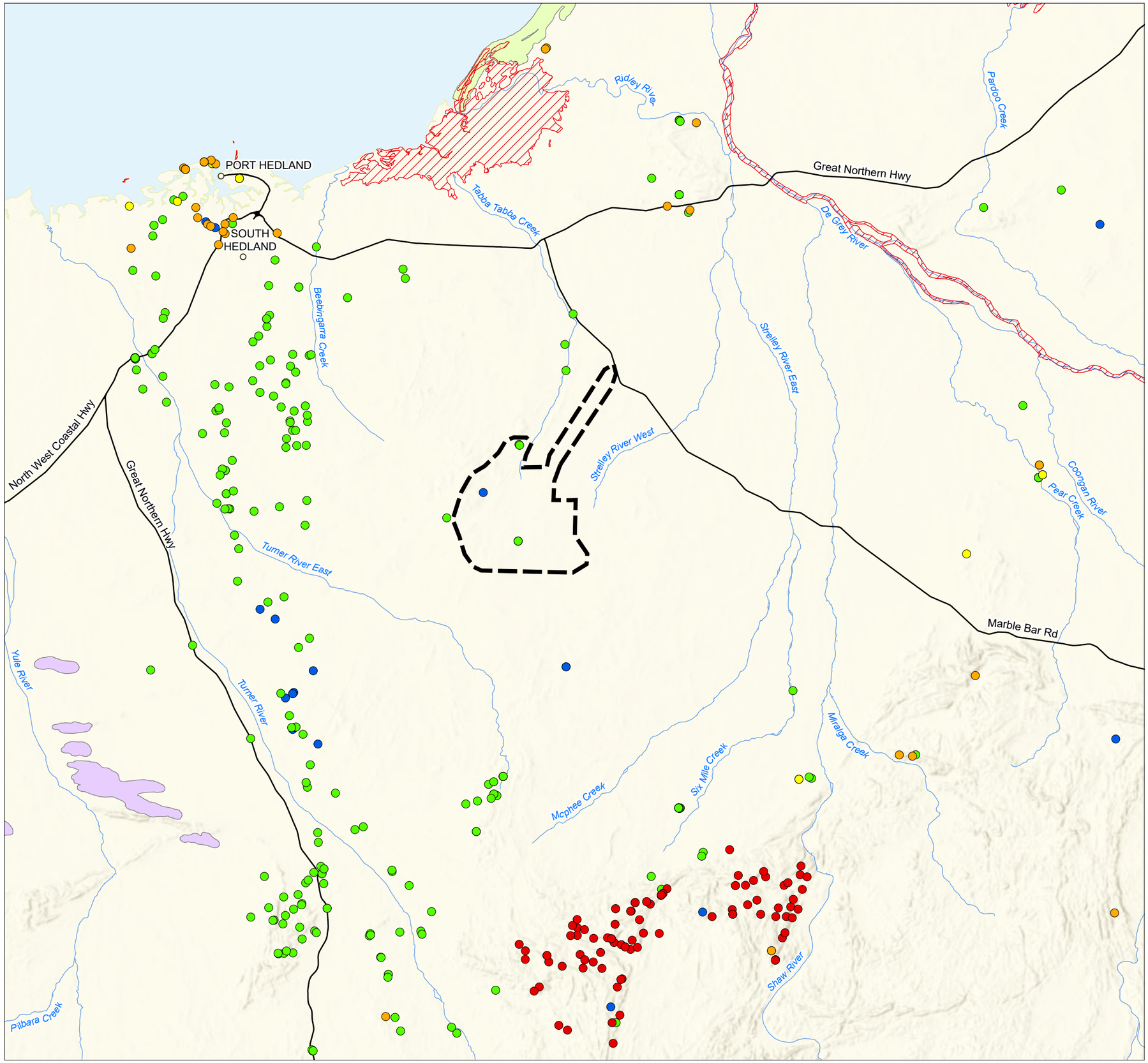
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	10/07/2025
1	SB	SK	08/04/2026

MAP 04

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

- Survey Area

Conservation-listed Flora (2023)

- Threatened
- Priority 1
- Priority 2
- Priority 3
- Priority 4
- Main Town
- Primary Road
- Major Drainage
- Environmentally Sensitive Areas (DWER-046)

DBCA Community (2023)

- Eighty Mile Land System
- Gregory Land System

DATA SOURCES:
SOURCE DATA: CLEARING REGULATIONS - ENVIRONMENTALLY SENSITIVE AREAS (DWER-046) (DWER 2021), CONSERVATION-LISTED FLORA (DBCA 2023), DBCA - LEGISLATED LANDS AND WATERS (DBCA-011) (DBCA 2024), ECOLOGICAL COMMUNITIES (DBCA 2023), ROAD HIERARCHY (MRWA 2024), SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015) AND TOWNS (STREET PRO 2009)
IMAGERY: ESRI WORLD HILLSHADE
SERVICE LAYERS: WORLD HILLSHADE: ESRI, USGS
WORLD HILLSHADE: ESRI, CGIAR

ecoscape

DBCA DATABASE SEARCH RESULTS FLORA AND COMMUNITIES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:500,000 @ A3

0 5 10 15 20 km

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	14/07/2025
1	SB	SK	08/04/2026

MAP 05

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712000
714000
716000
7732000
7730000
7728000

AiTe2

T2501

LEGEND

Survey Area

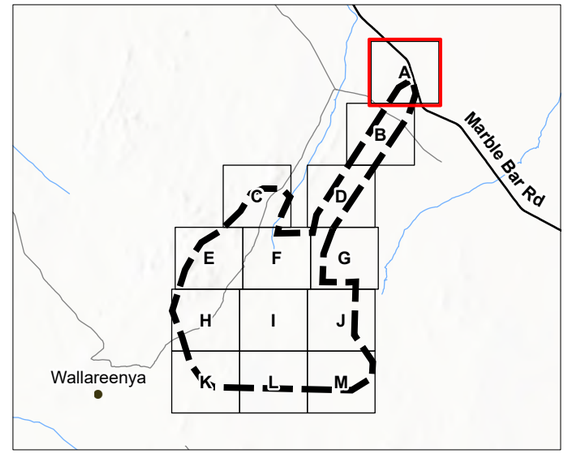
Quadrat

Conservation-listed Flora

Euploca mutica, Priority 3

Vegetation Type

AiTe2



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 06A

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx

710000
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7726000
7724000
7722000

AiTe2
AiTe2
X
T2502
T2503
ChAiTc
T2504
AiTe2
T2518
ChAiTe
AiTl
T2505
ChAiTe

LEGEND

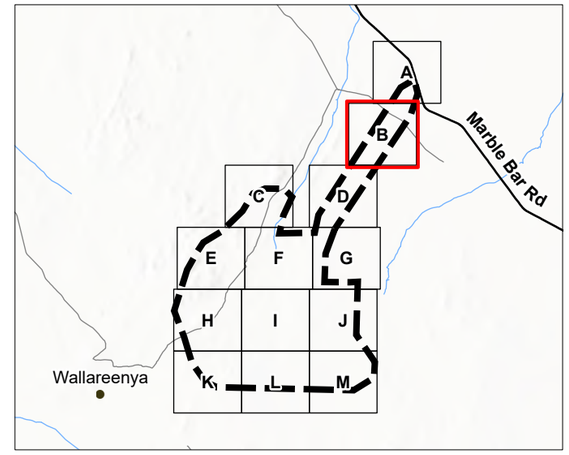
- Survey Area
- Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Triodia chichesterensis*, Priority 3

Vegetation Type

- AiTe2
- AiTl
- ChAiTc
- ChAiTe
- X



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 06B

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx

700000
702000
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7720000
7718000

T2520
TcAtTe
AstTe
T24039
T24038
Tsc
ChAiTc
T2517
AstTe
ChAiTc
ChAtuTe
AsyTe
T24037
T24036
AstTe
ChAtuTe
X
EcAtrTe
ChAiTc
T24035
AaTe
T2519
T2514
AsyTe
AiTe1
T2515
T24034
ChAiTc
AsyTe
ChAtuTe
AoTw
ChAtuTe
ChAiTc
ChAiTc
EcAtrTe
TcAtTe
TcAtTe
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AaTe
T24093
T24079
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ChAtuTe
Te
AstTe
Tabba Tabba Creek

LEGEND

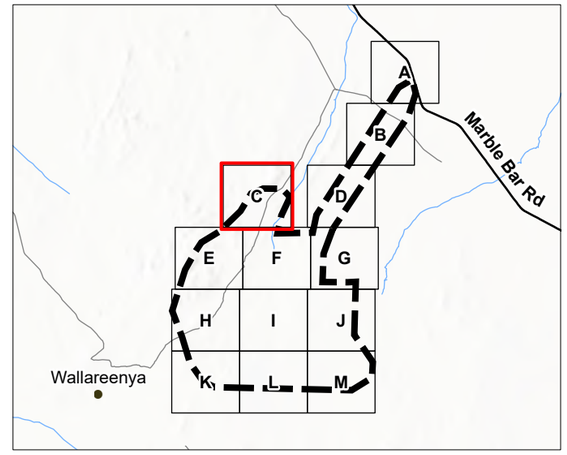
- Survey Area
- Major Drainage
- Quadrat

Conservation-listed Flora

- *Seringia exastia*, Threatened
- *Euphorbia clementii*, Priority 3
- *Euploca mutica*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

- AaTe
- AiTe1
- AoTw
- AstTe
- AsyTe
- ChAiTc
- ChAiTe
- ChAtuTe
- EcAtrTe
- TcAtTe
- Te
- Tsc
- X



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 06C

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706000
708000
710000
7722000
7718000
Tabba Tabba Creek
ChAiTe
T2506
AiTl
T2507
T2508
AtuTe
T2586
Tsc
ChAiTc
T2509
AaTl
AtuTe
ChAiTe
T2510

LEGEND

- Survey Area
- Major Drainage
- Quadrat

Conservation-listed Flora

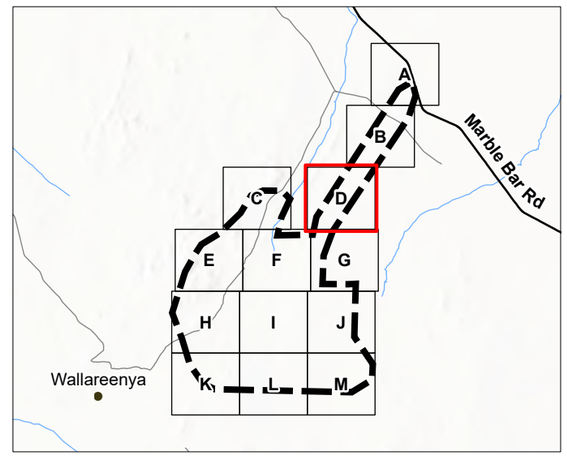
- *Rothia indica* subsp. *australis*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Other Significant Flora

- *Polymeria* sp.

Vegetation Type

- AaTl
- AiTl
- AtuTe
- ChAiTc
- ChAiTe
- Tsc



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP
06D

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7716000 7714000 7712000

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TcAtTe TcAtTe TcAtTe

Wallareenya

Marble Bar Rd

A B C D E F G H I J K L M

LEGEND

- Survey Area
- Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Nicotiana umbratica*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Other Significant Flora

- *Solanum* sp. aff. *gabrielae*

Vegetation Type

- AaTe
- AaTl
- AiTe1
- AoTe
- AoTw
- AstTe
- AsyTe
- ChAiTc
- ChAiTe
- ChAtuTe
- EvAtTe
- TcAtTe
- Te
- TeTs
- Tsc
- Tse
- X

DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

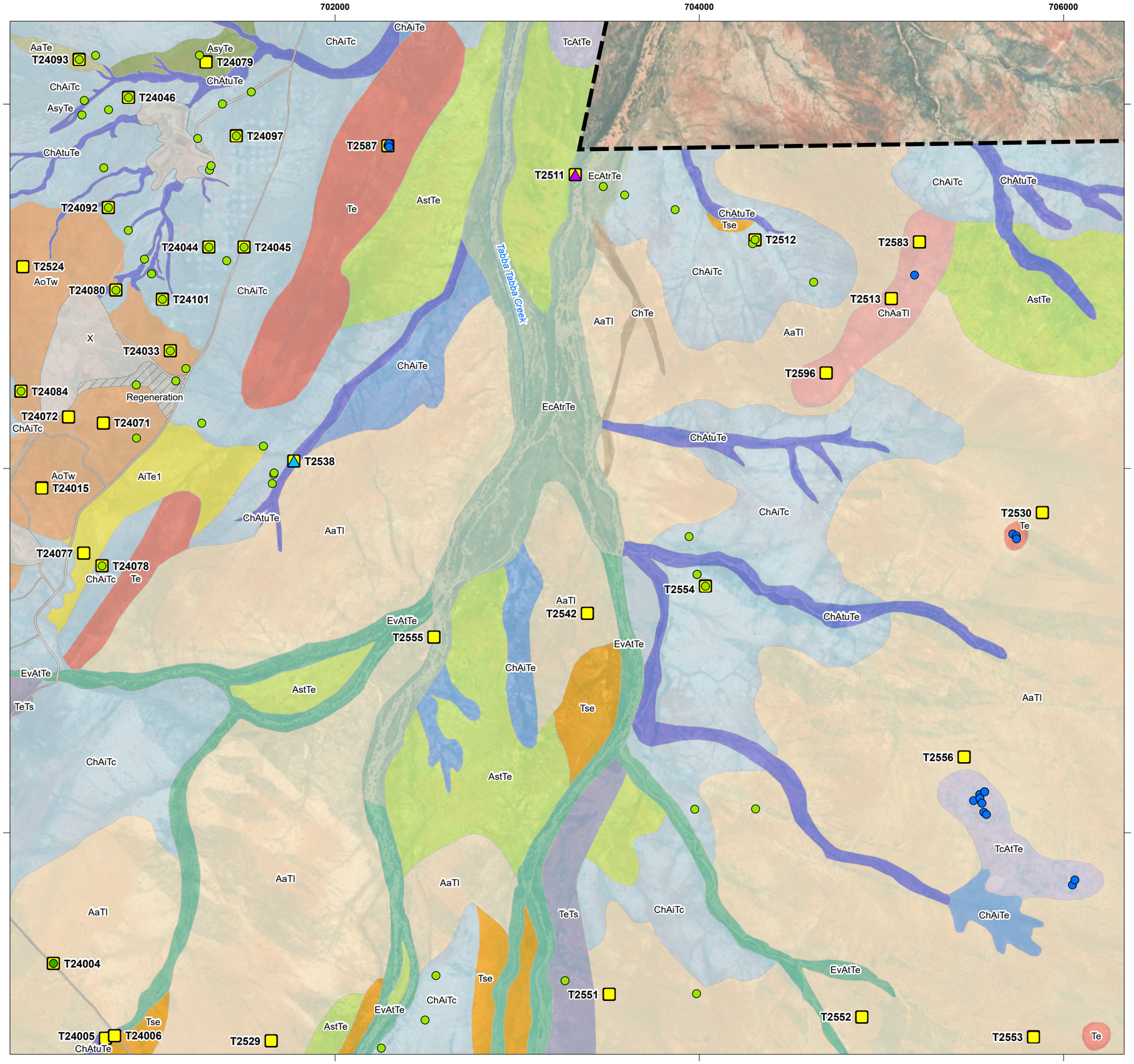
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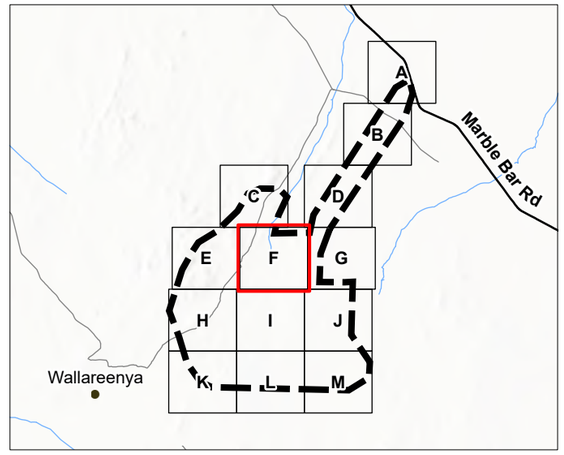
PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 06E

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx





LEGEND

- Survey Area
- Major Drainage
- Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Other Significant Flora

- *Polycarpaea* aff. *corymbosa*
- *Polymeria* sp.

Vegetation Type

- AaTe
- AaTl
- AiTe1
- AoTw
- AstTe
- AsyTe
- ChAaTl
- ChAiTc
- ChAiTe
- ChAtuTe
- ChTe
- EcAtrTe
- EvAtTe
- TcAtTe
- Te
- TeTs
- Tse
- Regeneration
- X

DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

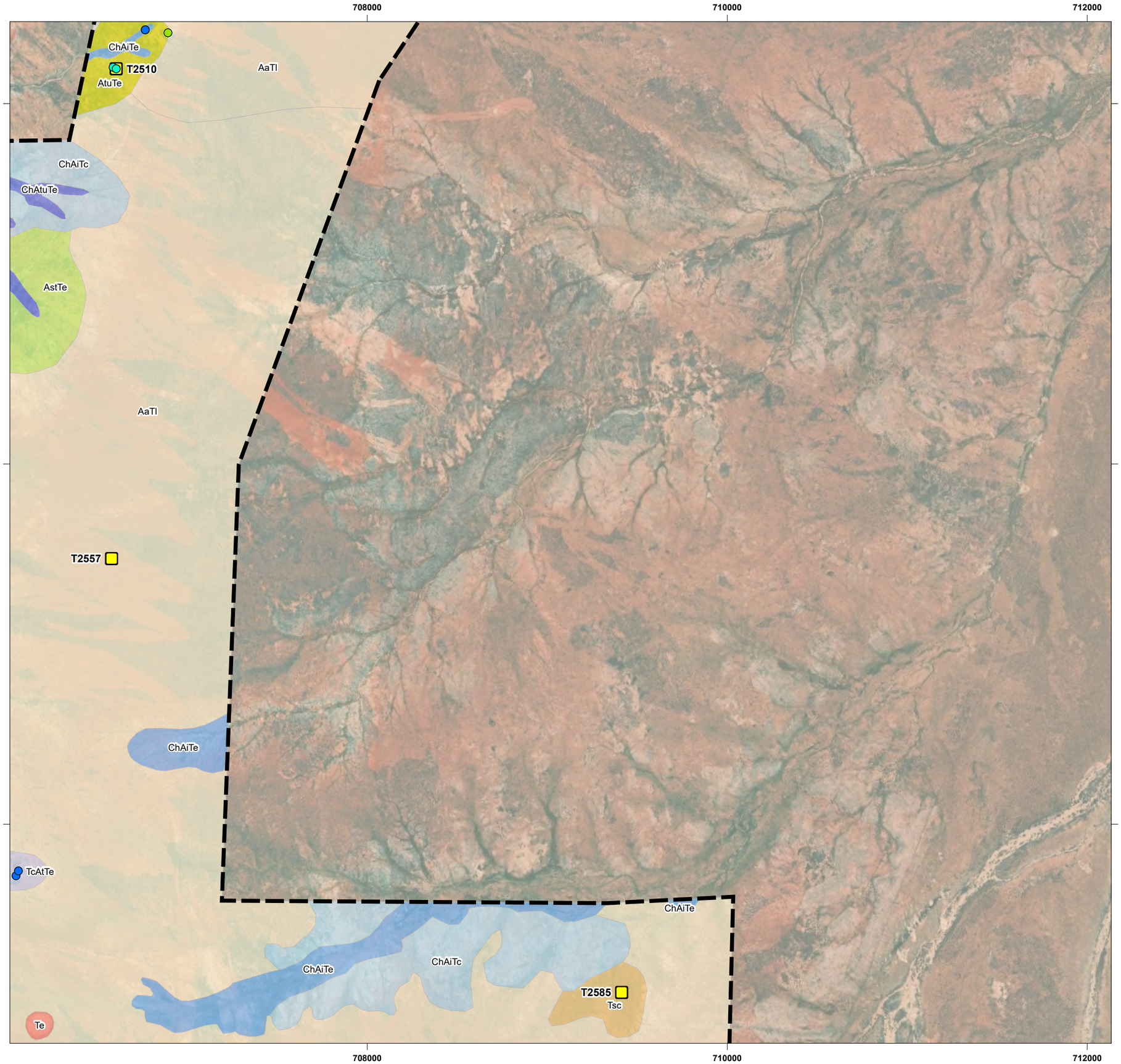
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 06F

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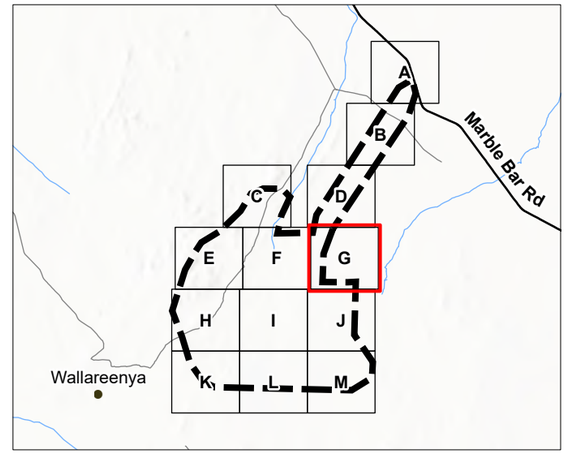
- Survey Area
- Quadrat

Conservation-listed Flora

- *Rothia indica* subsp. *australis*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

- AaTl
- AstTe
- AtuTe
- ChAiTc
- ChAiTe
- ChAtuTe
- TcAtTe
- Te
- Tsc



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 06G

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AaTe AaTl AiTe1 AoTw AstTe AsyTe AtuTe ChAiTc ChAiTe ChAtuTe ChTe EvAtTe TcAtTe X

Wallareenya Marble Bar Rd

A B C D E F G H I J K L M

LEGEND

Survey Area
Quadrat

Conservation-listed Flora

- *Euphorbia clementii*, Priority 3
- *Euploca mutica*, Priority 3
- *Nicotiana umbratica*, Priority 3
- *Rothia indica* subsp. *australis*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

AaTe
AaTl
AiTe1
AoTw
AstTe
AsyTe
AtuTe
ChAiTc
ChAiTe
ChAtuTe
ChTe
EvAtTe
TcAtTe
X

DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

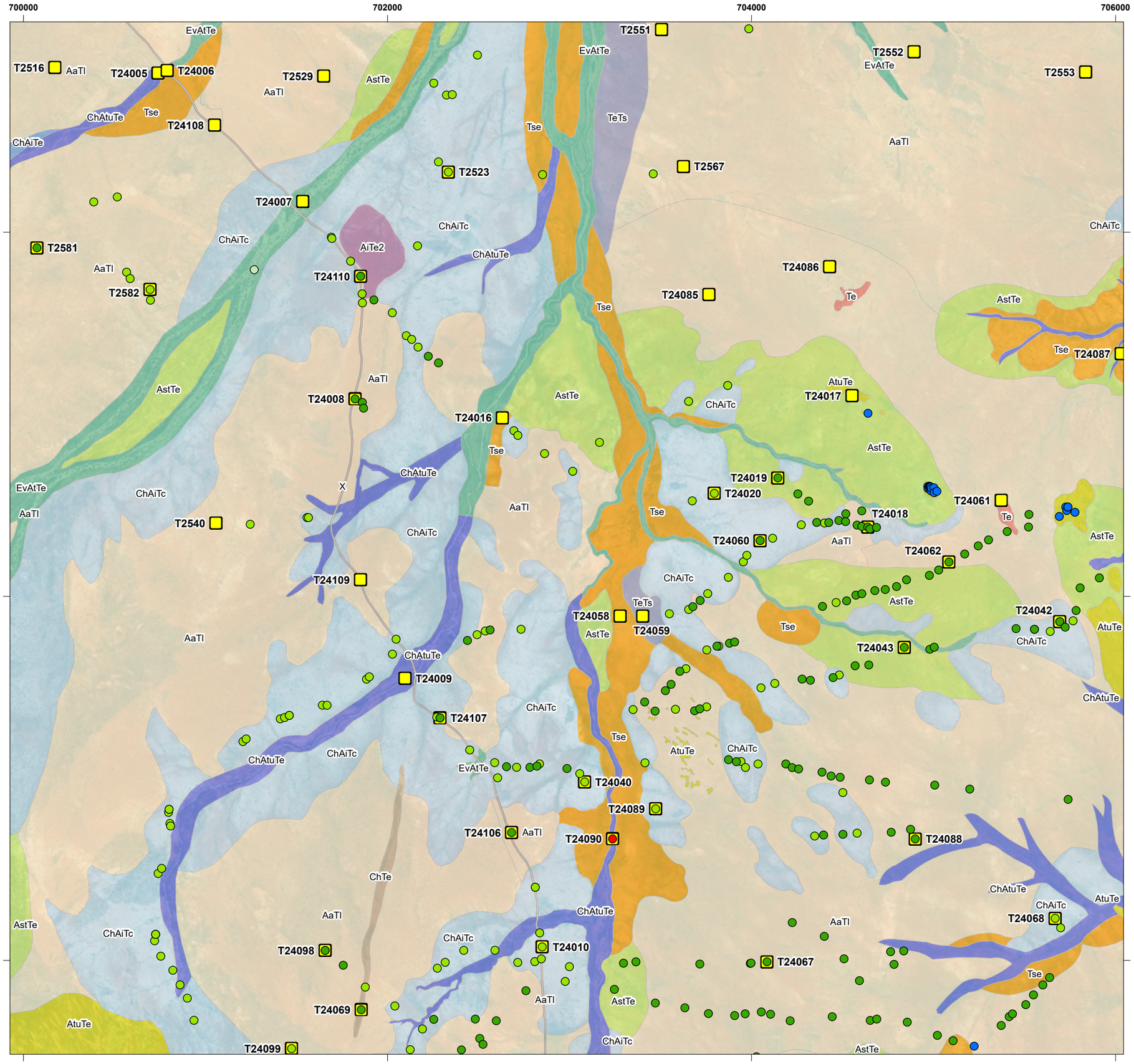
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 06H

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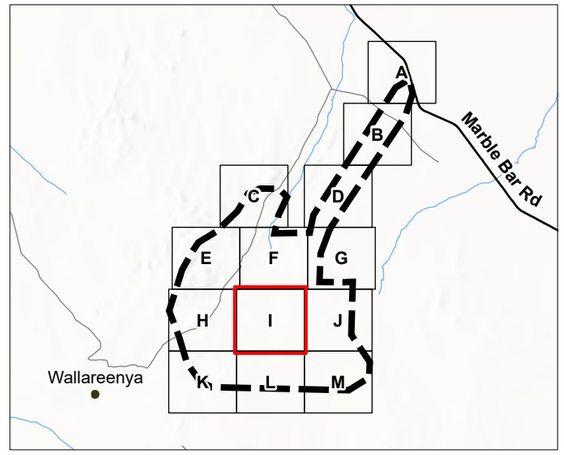
- Survey Area
- Quadrat

Conservation-listed Flora

- *Seringia exastia*, Threatened
- *Euploca mutica*, Priority 3
- *Gymnanthera cunninghamii*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

- AaTl
- AiTe2
- AstTe
- AtuTe
- ChAiTc
- ChAiTe
- ChAtuTe
- ChTe
- EvAtTe
- Te
- TeTs
- Tse
- X



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

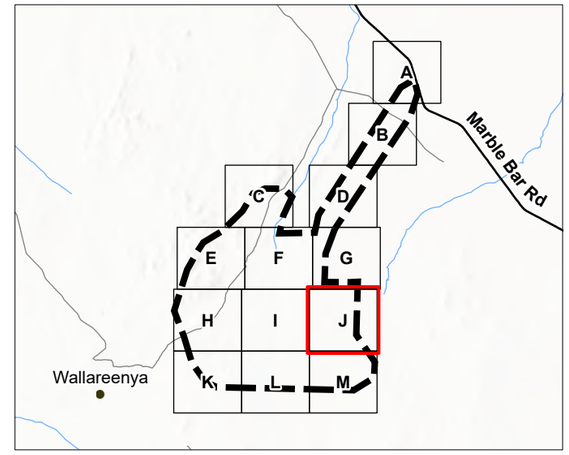
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7708000
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T2553 Te
T2585 Tsc
T2590
T24087
T2576
T2577
T2578
T24041 Te
T2579
T2584
T2591

ChAiTe
ChAiTc
AaTl
Tse
AstTe
TeTs
AtuTe
ChAtuTe
Te
Tsc
EcAtrTe



LEGEND

- Survey Area
- Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Gymnanthera cunninghamii*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

- AaTl
- AstTe
- AtuTe
- ChAiTc
- ChAiTe
- ChAtuTe
- EcAtrTe
- Te
- TeTs
- Tsc
- Tse

DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP
06J

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7702000

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T2563
T2565
T2564
T2594
T2560

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ChAiTc
AaTl
EvAtTe
AiTe1
TcAtTe
ChTe
AtuTe
AstTe
Tsc

LEGEND

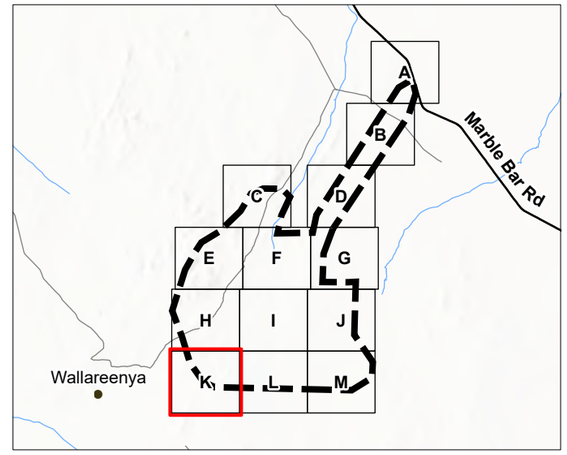
Survey Area
Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Nicotiana umbratica*, Priority 3
- *Rothia indica* subsp. *australis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

AaTl
AiTe1
AstTe
AtuTe
ChAiTc
ChAtuTe
ChTe
EvAtTe
TcAtTe
Tsc
Tw



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

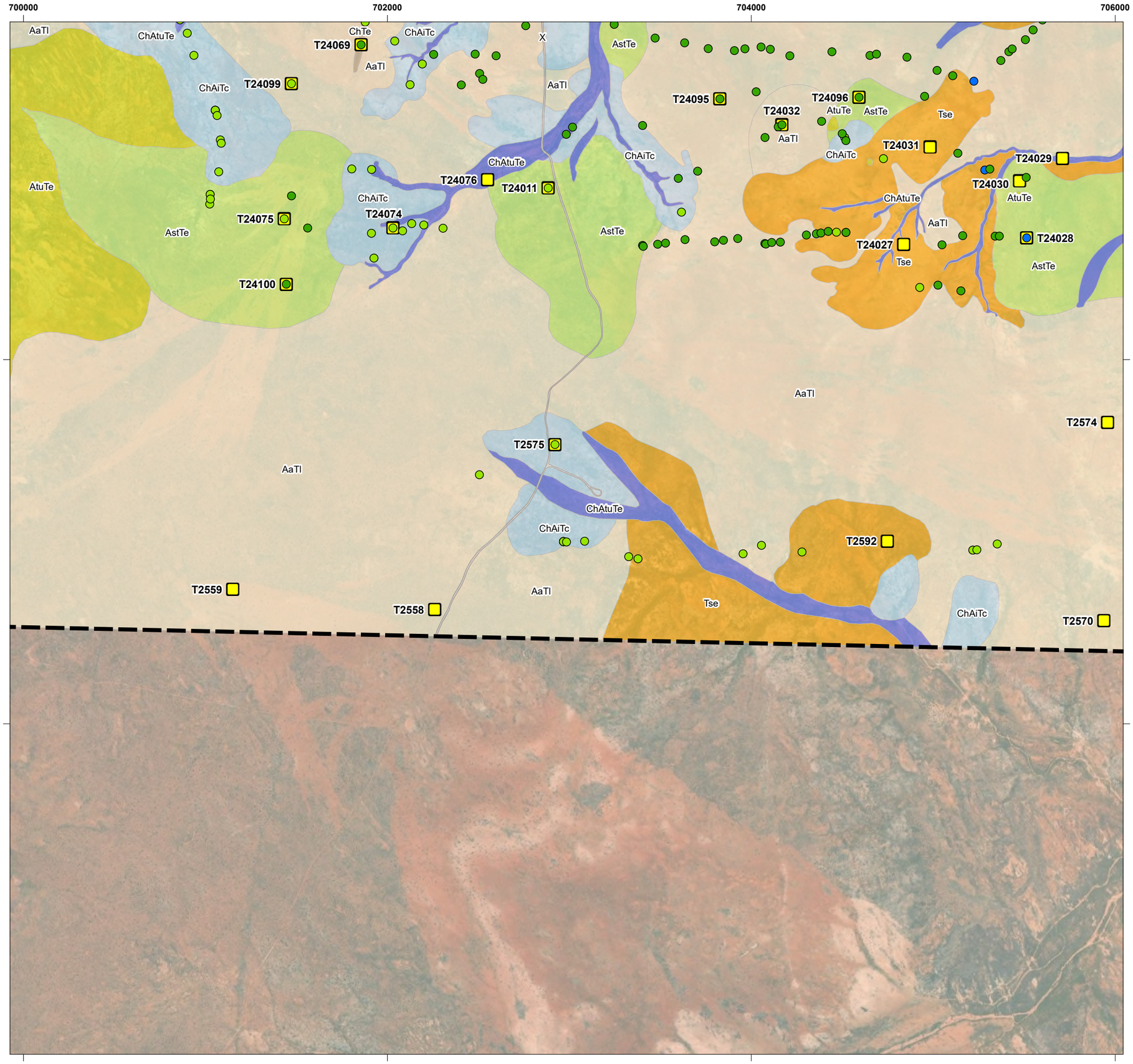
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 06K

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

- Survey Area
- Quadrat

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Triodia chichesterensis*, Priority 3
- *Bulbostylis burbidgeae*, Priority 4

Vegetation Type

- AaTl
- AstTe
- AtuTe
- ChAiTc
- ChAtuTe
- ChTe
- Tse
- X

DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 06L

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TeTs
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ChAiTe

LEGEND

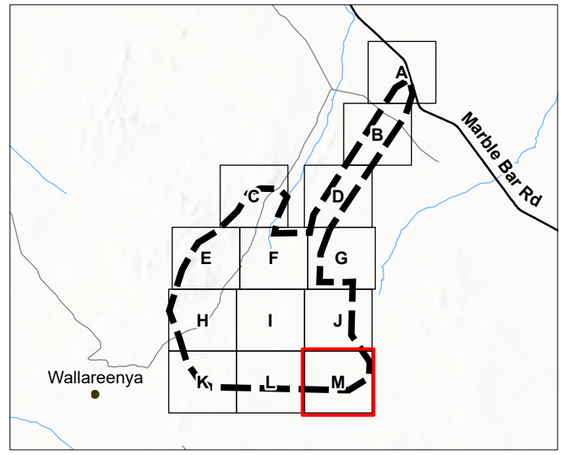
- Survey Area
- Quadrat
- Tse

Conservation-listed Flora

- *Euploca mutica*, Priority 3
- *Gymnanthera cunninghamii*, Priority 3
- *Triodia chichesterensis*, Priority 3

Vegetation Type

- AaTl
- AstTe
- AtuTe
- ChAiTc
- ChAiTe
- ChAtuTe
- EcAtrTe
- TeTs



DATA SOURCES:
SOURCE DATA: CONVERSATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

CONSERVATION-LISTED FLORA, QUADRATS AND VEGETATION TYPES

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP
06M

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7730000
7728000

T2501

LEGEND

Survey Area

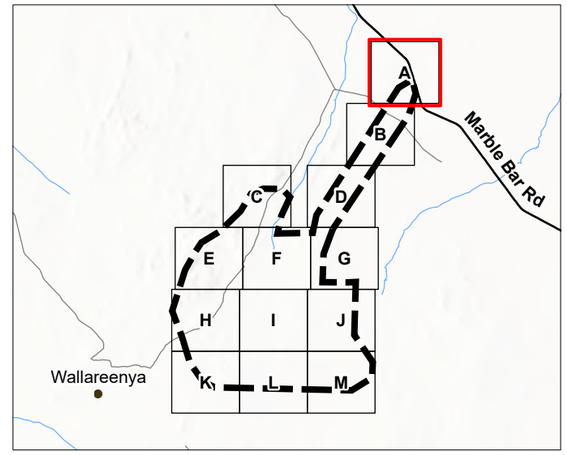
Quadrat Condition

Excellent

Vegetation Condition

Excellent

Very Good



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07A

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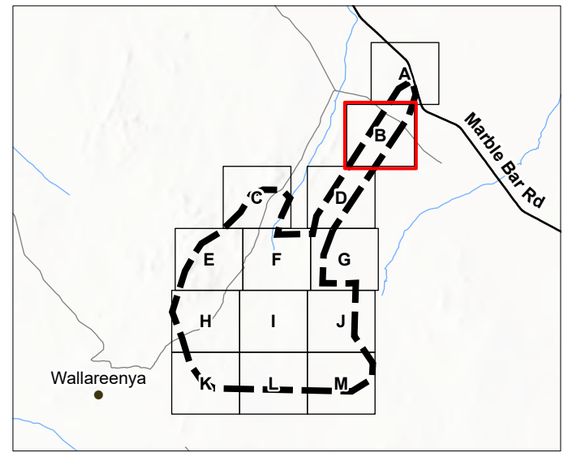
Survey Area

Quadrat Condition

Excellent
Very Good

Vegetation Condition

Excellent
Very Good
N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07B

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T2517
T24037
T24036
T24035
T2519
T2514
T2515
T24034
T24093
T24079
T2522
Tabba Tabba Creek

LEGEND

- Survey Area
- Major Drainage

Quadrat Condition

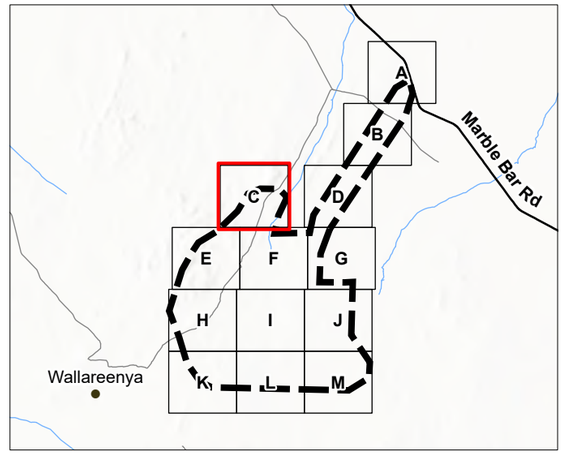
- Excellent
- Very Good
- Good
- Poor

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07C

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T2510

LEGEND

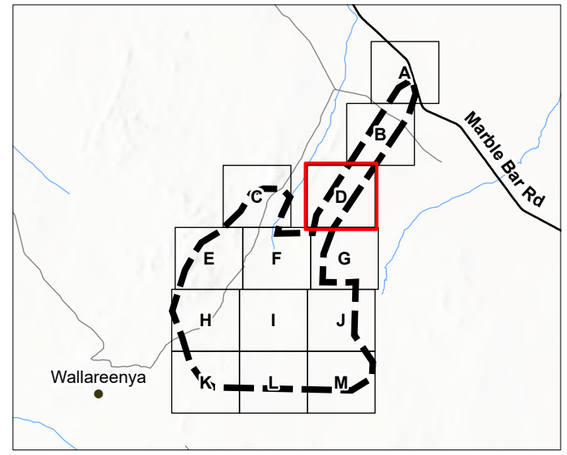
Survey Area
Major Drainage

Quadrat Condition

Excellent

Vegetation Condition

Excellent



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

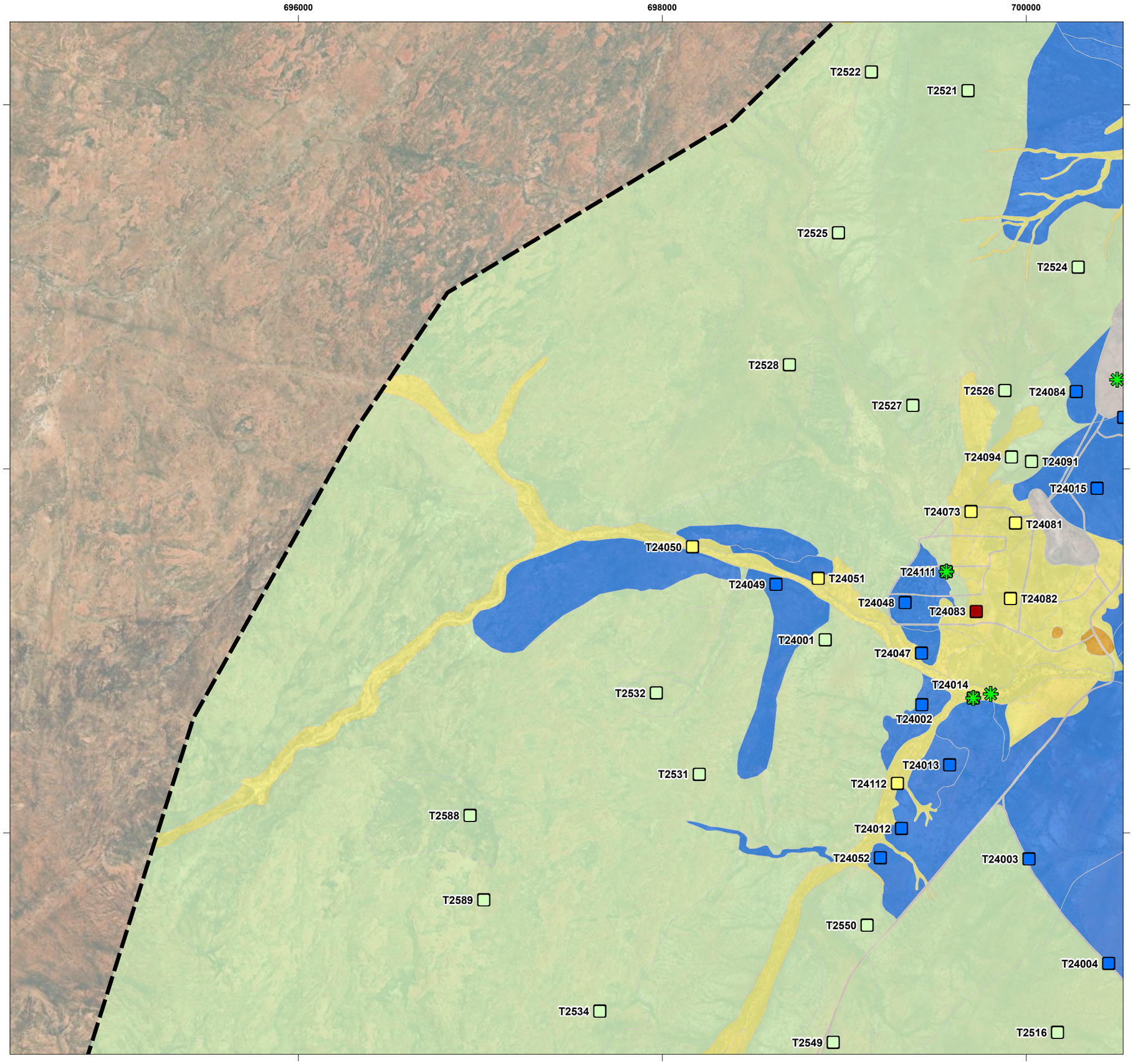
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 07D

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

Survey Area

Quadrat Condition

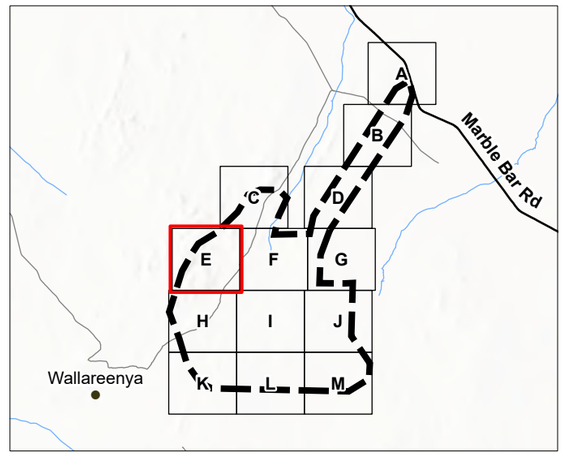
- Excellent
- Very Good
- Good
- Poor

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good
- Degraded
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

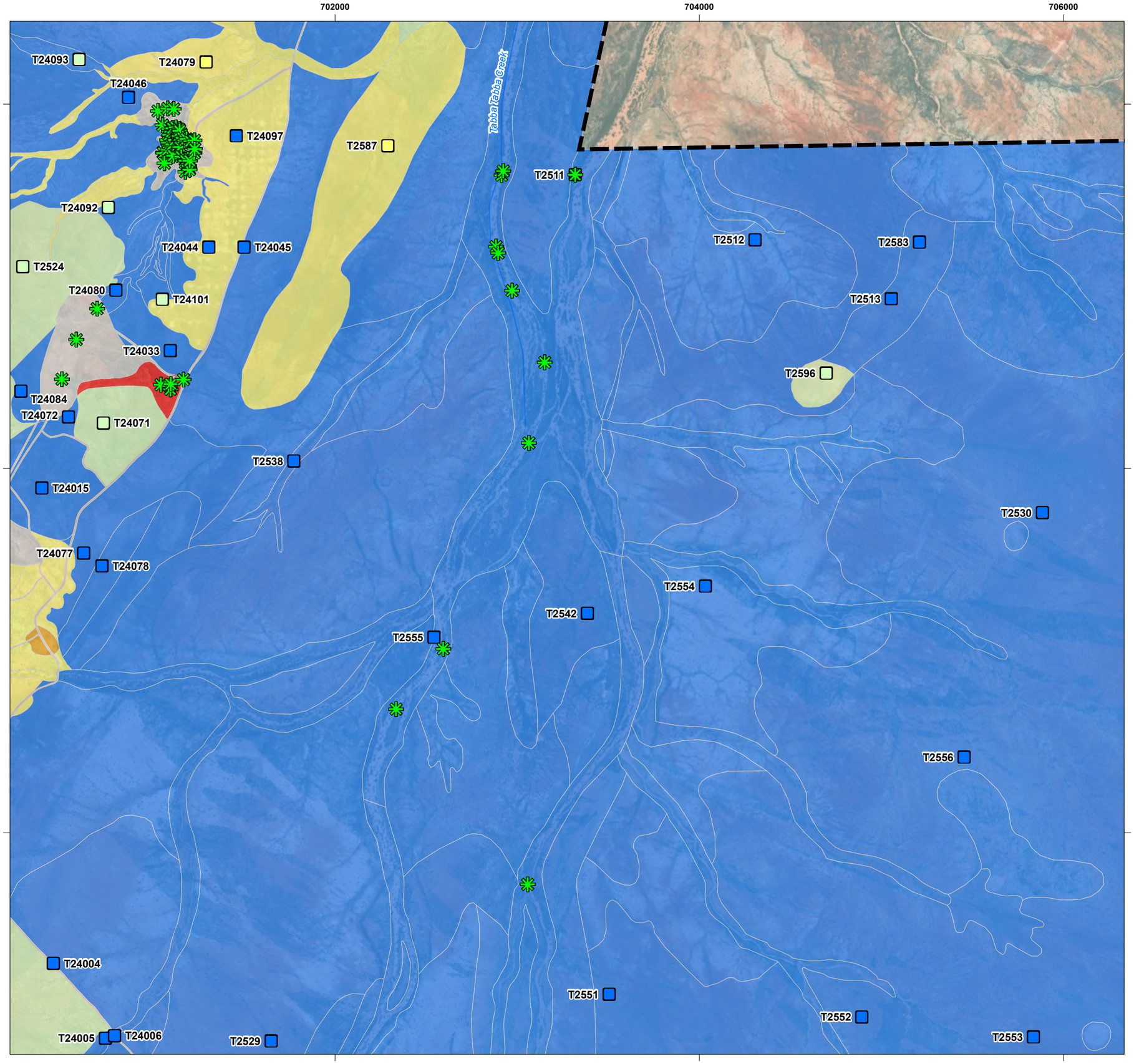
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 07E

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

- Survey Area
- Major Drainage

Quadrat Condition

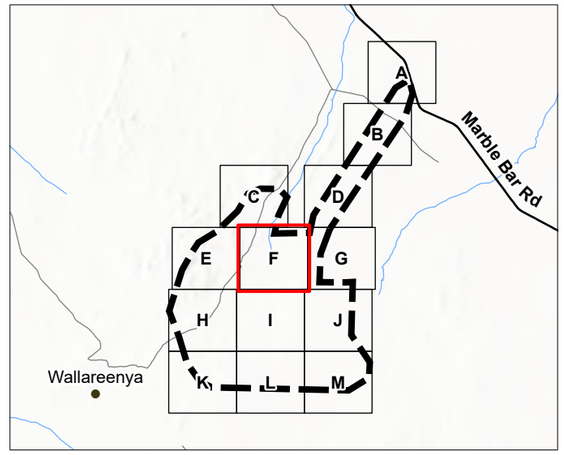
- Excellent
- Very Good
- Good

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good
- Degraded
- Completely Degraded
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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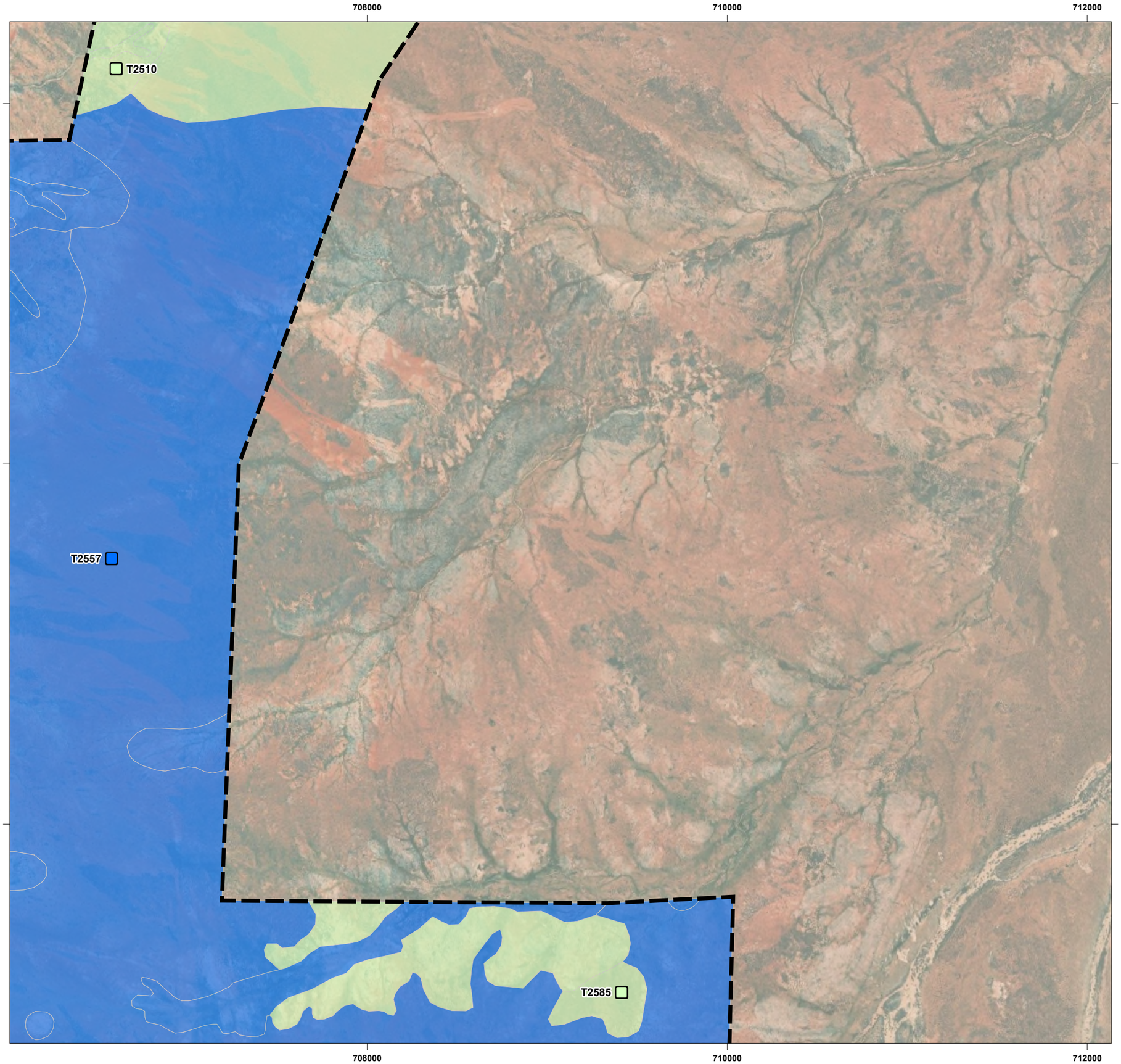
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 07F

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx



LEGEND

Survey Area

Quadrat Condition

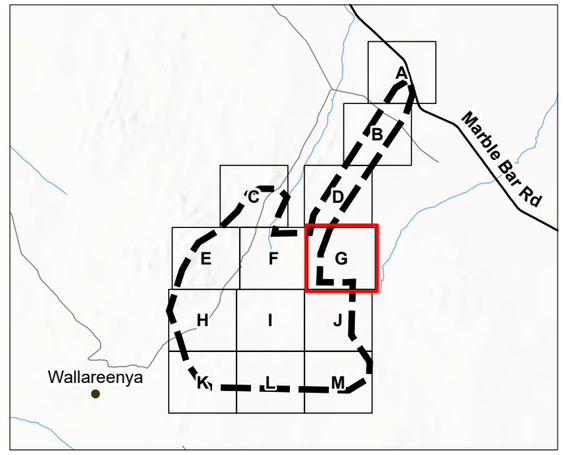
Excellent

Very Good

Vegetation Condition

Excellent

Very Good



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07G

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T2537
T2599
T2547
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T2546
T2565

LEGEND

Survey Area

Quadrat Condition

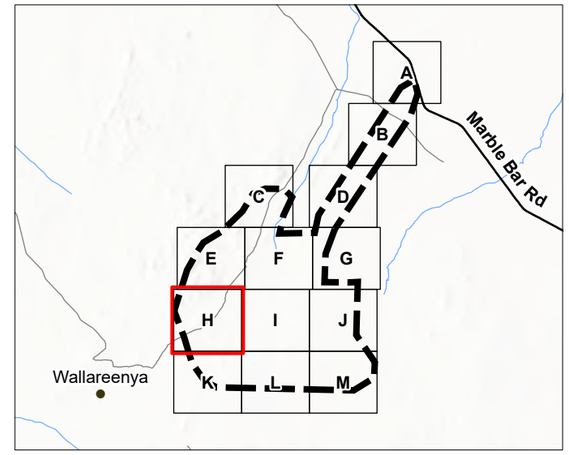
- Excellent
- Very Good
- Good

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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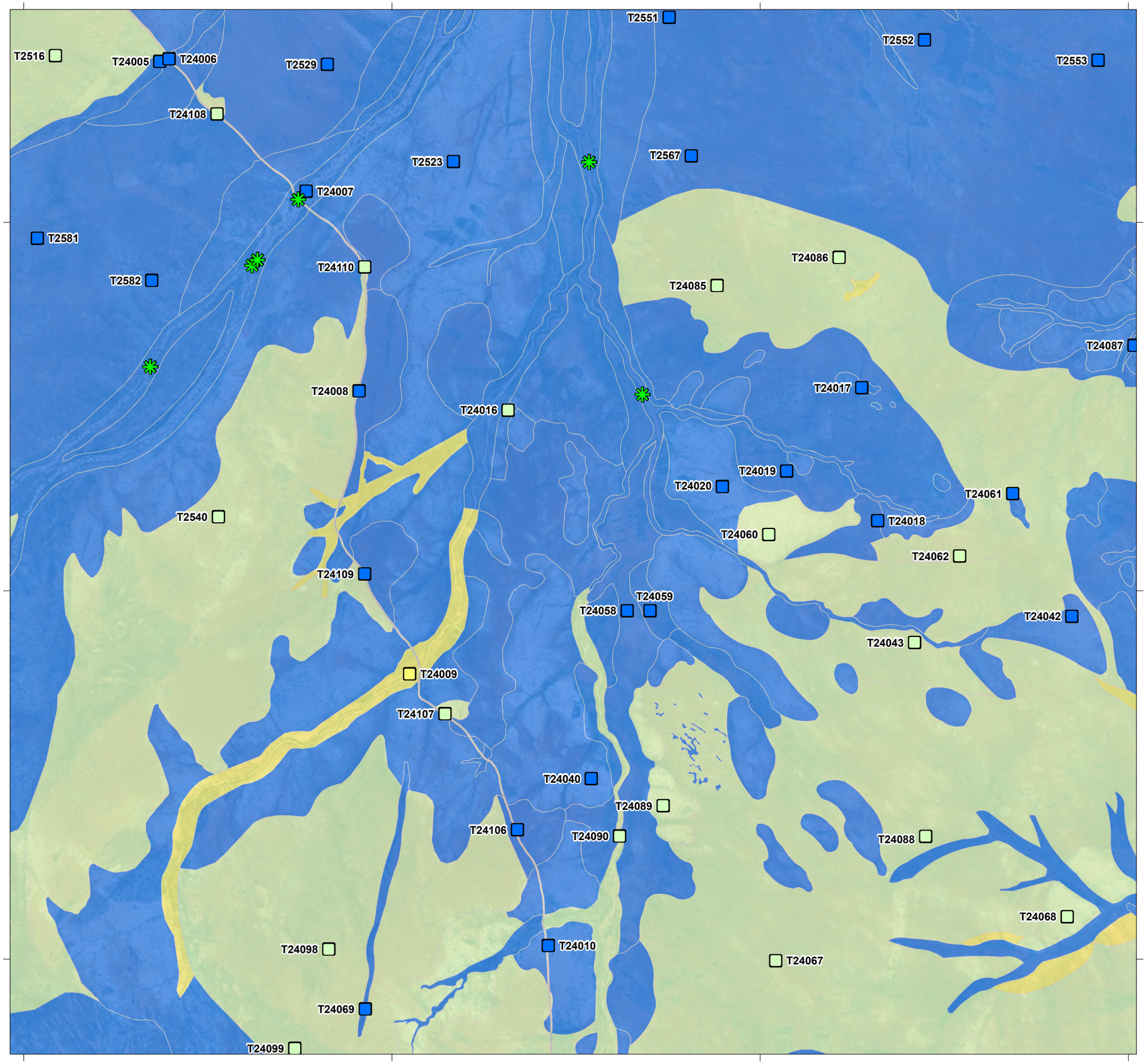
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP
07H

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LEGEND

Survey Area

Quadrat Condition

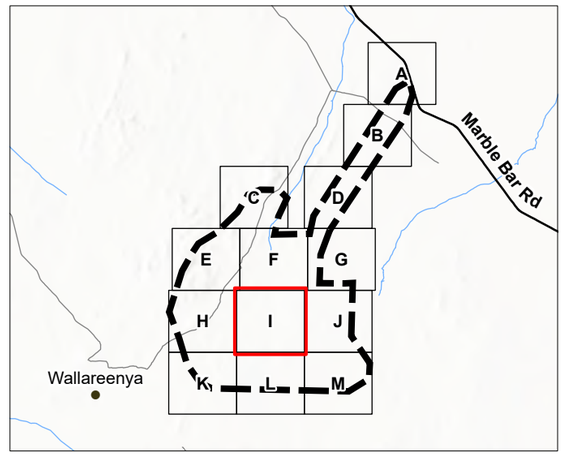
- Excellent
- Very Good
- Good

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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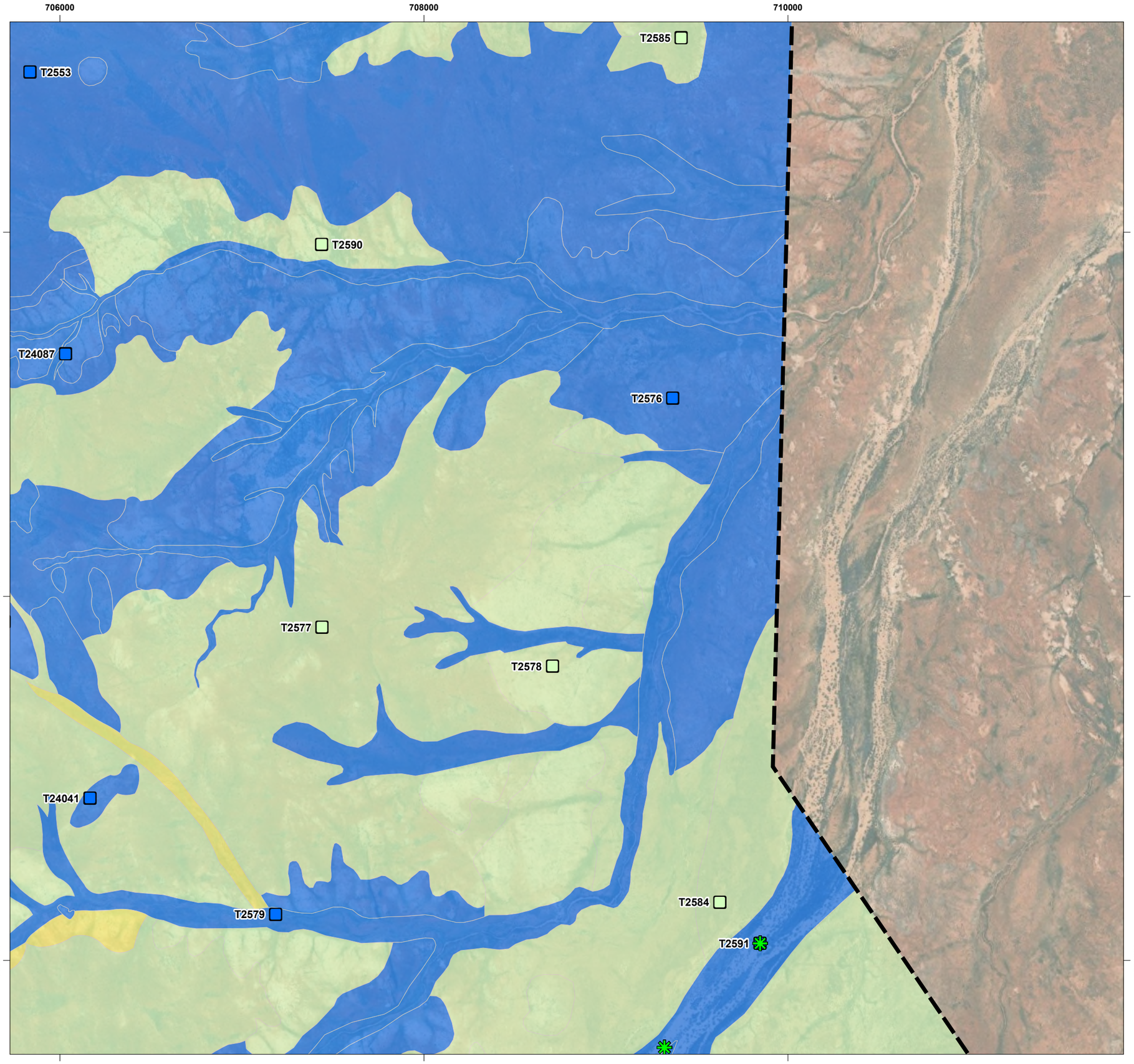
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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07I

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LEGEND

Survey Area

Quadrat Condition

Excellent

Very Good

Significant Weed

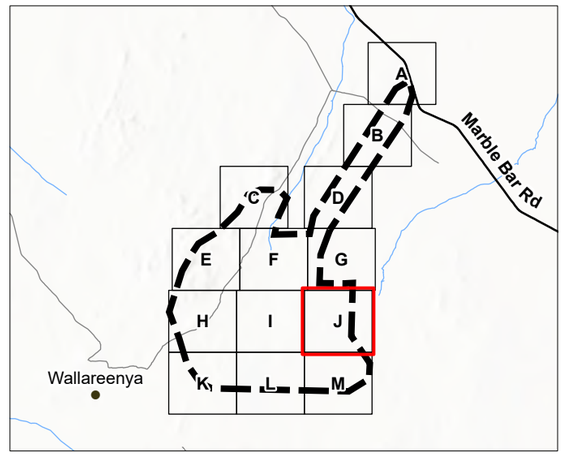
Calotropis procera

Vegetation Condition

Excellent

Very Good

Good



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 07J

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LEGEND

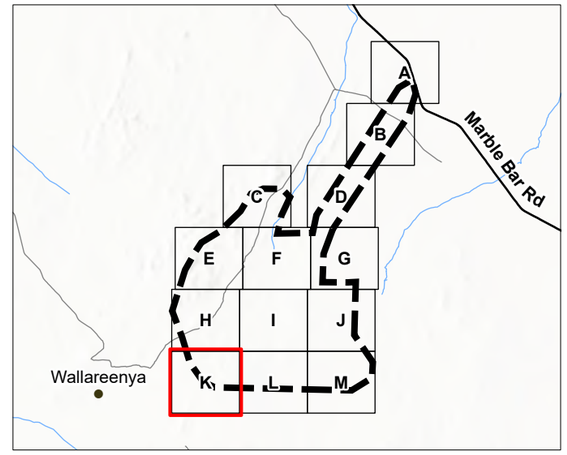
Survey Area

Quadrat Condition

Excellent
Very Good

Vegetation Condition

Excellent
Very Good



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07K

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T2570

LEGEND

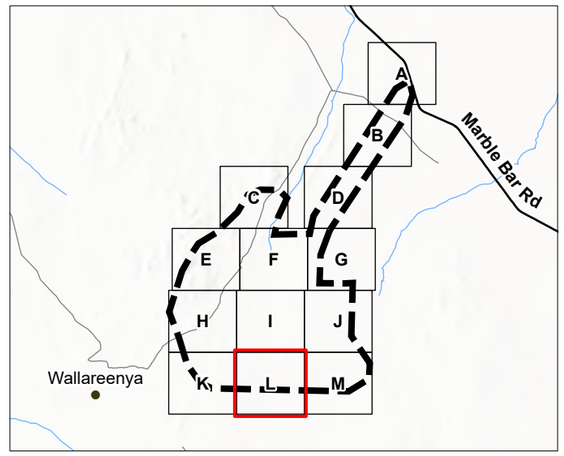
Survey Area

Quadrat Condition

- Excellent
- Very Good

Vegetation Condition

- Excellent
- Very Good
- Good
- N/A



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

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SCALE: 1:21,000 @ A3

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PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
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1	SB	SK	08/04/2026

MAP 07L

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T2574
T2573
T2572
T2570

LEGEND

Survey Area

Quadrat Condition

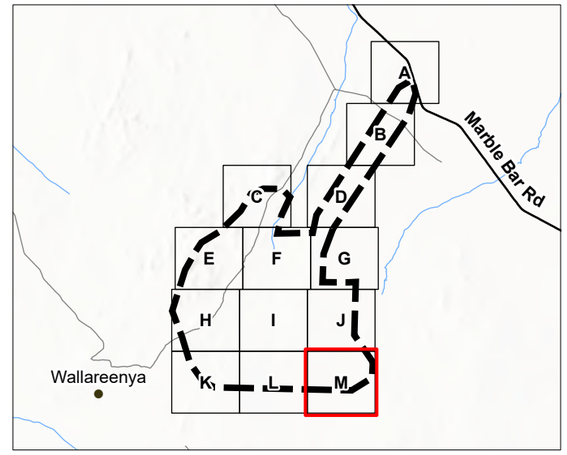
- Excellent
- Very Good
- Good

Significant Weed

- Calotropis procera

Vegetation Condition

- Excellent
- Very Good
- Good



DATA SOURCES:
SOURCE DATA: CONSERVATION-LISTED FLORA, OTHER SIGNIFICANT FLORA, QUADRATS, VEGETATION (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY LINES (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: VANTOR

ecoscape

SIGNIFICANT WEEDS AND VEGETATION CONDITION

TABBA TABBA LITHIUM PROJECT FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:21,000 @ A3

0 200 400 600 800 m

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	05/09/2025
1	SB	SK	08/04/2026

MAP 07M

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx

690000
700000
710000
7720000
7710000

Tabba Tabba Creek
Strelley River West

LEGEND
- Survey Area
- Survey Track 2025
- Major Drainage

DATA SOURCES:
SOURCE DATA: SURVEY TRACKS (ECOSCAPE 2024 AND 2025) AND SURFACE HYDROLOGY (NATIONAL) (GEOSCIENCE AUSTRALIA 2015)
IMAGERY: ESRI WORLD (MAXAR 2022)
SERVICE LAYERS: WORLD HILLSHADE: ESRI, CGIAR
WORLD IMAGERY: EARTHSTAR GEOGRAPHICS

ecoscape

FLORA SURVEY TRACKS

TABBA TABBA LITHIUM PROJECT
FLORA AND VEGETATION ASSESSMENTS

WILDCAT RESOURCES

COORDINATE SYSTEM: GDA2020 MGA ZONE 50
PROJECTION: TRANSVERSE MERCATOR
DATUM: GDA2020
UNITS: METER

N

SCALE: 1:105,000 @ A3

0 1 2 3 4 km

PROJECT NO: 5089-24

REV	AUTHOR	APPROVED	DATE
0	NW	SK	22/08/2025
1	SB	SK	08/04/2026

MAP
08

Path: X:\01_Projects\5089-24 Tabba Tabba 2025\Maps\APRXs\Report_Maps_5089_GDA2020.aprx

APPENDIX ONE LEGISLATIVE CONTEXT, DEFINITIONS AND CRITERIA

COMMONWEALTH ENVIRONMENT PROTECTION AND BIODIVERSITY CONSERVATION ACT 1999

The EPBC Act is a legal framework to protect and manage matters of national environmental significance (MNES) including important flora, fauna, ecological communities and heritage areas listed under the Act.

Threatened taxa (flora and fauna) are protected under the EPBC Act, which lists species and ecological communities that have been assessed as meeting the criteria to be listed as Critically Endangered, Endangered, Vulnerable, Conservation Dependant, Extinct, or Extinct in the Wild, as detailed in **Table 14**.

Threatened Ecological Communities protected under the EPBC Act are categorised as Critically Endangered, Endangered or Vulnerable, also detailed in this table.

Migratory species subject to international agreements are also protected under the EPBC Act. The definition of a migratory species under the Act follows that prescribed by the Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention) (DCCEEW 2023). The list of migratory species established under section 209 of the EPBC Act comprises:

- migratory species which are native to Australia and are included in the appendices to the Bonn Convention (Convention on the Conservation of Migratory Species of Wild Animals Appendices I and II);
- migratory species included in annexes established under the Japan-Australia Migratory Bird Agreement (JAMBA) and the China-Australia Migratory Bird Agreement (CAMBA); and
- native, migratory species identified in a list established under, or an instrument made under, an international agreement approved by the Minister, such as the Republic of Korea-Australia Migratory Bird Agreement (ROKAMBA).

Table 14: EPBC Act categories for flora, fauna and ecological communities

Category	Threatened species	Threatened Ecological Communities
Extinct	A native species is eligible to be included in the extinct category at a particular time if, at that time, there is no reasonable doubt that the last member of the species has died.	n/a
Extinct in the wild	A native species is eligible to be included in the extinct in the wild category at a particular time if, at that time: (a) it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or (b) it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.	n/a
Critically Endangered (CR)	A native species is eligible to be included in the *critically endangered* category at a particular time if, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.	An ecological community is eligible to be included in the *critically endangered* category at a particular time if, at that time, it is facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria
Endangered (EN)	A native species is eligible to be included in the *endangered* category at a particular time if, at that time: (a) it is not critically endangered; and (b) it is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.	An ecological community is eligible to be included in the *endangered* category at a particular time if, at that time: (a) it is not critically endangered; and (b) it is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.

Category	Threatened species	Threatened Ecological Communities
Vulnerable (VU)	A native species is eligible to be included in the *vulnerable* category at a particular time if, at that time: (a) it is not critically endangered or endangered; and (b) it is facing a high risk of extinction in the wild in the medium term future, as determined in accordance with the prescribed criteria.	An ecological community is eligible to be included in the *vulnerable* category at a particular time if, at that time: (a) it is not critically endangered or endangered; and (b) it is facing a high risk of extinction in the wild in the medium term future, as determined in accordance with the prescribed criteria.
Conservation Dependent	A native species is eligible to be included in the conservation dependent category at a particular time if, at that time: (a) the species is the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or (b) the following subparagraphs are satisfied: (i) the species is a species of fish; (ii) the species is the focus of a plan of management that provides for management actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long-term survival in nature are maximised; (iii) the plan of management is in force under a law of the Commonwealth or of a State or Territory; (iv) cessation of the plan of management would adversely affect the conservation status of the species.	n/a

WESTERN AUSTRALIAN ENVIRONMENTAL PROTECTION ACT 1986

The Western Australian EP Act was created to provide for an Environmental Protection Authority (the EPA) that has the responsibility for:

- prevention, control and abatement of pollution and environmental harm
- conservation, preservation, protection, enhancement and management of the environment
- matters incidental to or connected with the above.

The EPA is responsible for providing the guidance and policy under which environmental assessments are conducted. It conducts environmental impact assessments (based on the information provided by the proponent), initiates measures to protect the environment and provides advice to the Minister responsible for environmental matters.

WESTERN AUSTRALIAN BIODIVERSITY CONSERVATION ACT 2016

The Western Australian BC Act provides for the conservation, protection and ecologically sustainable use of biodiversity and biodiversity components in Western Australia.

Threatened species (both flora and fauna) and ecological communities that meet the categories listed within the BC Act are protected under this legislation and require authorisation by the Minister to take or disturb. These are known as Threatened Flora, Threatened Fauna and Threatened Ecological Communities. The conservation categories of Critically Endangered, Endangered and Vulnerable are detailed in **Table 15**; these categories align with those of the EPBC Act. Some State-listed threatened species and ecological communities are provided with additional protection as they are also listed under the Commonwealth EPBC Act (see **Table 14** for conservation status category descriptions).

The most recent Western Australian flora and fauna listings were published in the Government Gazette on 30 April 2024 (Western Australian Government 2024) and ecological communities listings on 21 November 2025 (Western Australian Government 2025).

PRIORITY-LISTED FLORA AND FAUNA

Flora are listed as PF where populations are geographically restricted or threatened by local processes, or where there is insufficient information to formally assign them to TF categories. Whilst PF are not specifically listed in the BC Act, some may qualify as being of special conservation interest and thereby have a greater level of protection than unlisted species.

There are three categories covering Western Australian-listed TF and four categories covering PF species which are outlined in **Table 15**. PF for Western Australia are regularly reviewed by the DBCA whenever new information becomes available, with species status altered or removed from the list when data indicates that they no longer meet these requirements.

Conservation significant fauna species are listed by the DBCA as Priority Fauna where populations are geographically restricted or threatened by local processes, or where there is insufficient information to formally assign them to threatened fauna categories. Whilst Priority Fauna are not specifically listed in the BC Act, these have a greater level of significance than other native species. The categories covering Priority Fauna species are outlined in **Table 15**.

Flora and fauna species may be listed as being of special conservation interest if they have a naturally low population, have a restricted natural range, are subject to or recovering from a significant population decline or reduction of range or are of special interest, and the Minister considers that taking may result in depletion of the species. Migratory species and those subject to international agreement are also listed under the Act. These are known as 'specially protected species' in the BC Act.

Table 15: Conservation codes for Western Australian flora and fauna (DBCA 2020)

Conservation Codes for Western Australian Flora and Fauna	
Threatened, Extinct and Specially Protected fauna or flora[1] are species[2] which have been adequately searched for and are deemed to be, in the wild, threatened, extinct or in need of special protection, and have been gazetted as such. **The *Wildlife Conservation (Specially Protected Fauna) Notice 2018* and the *Wildlife Conservation (Rare Flora) Notice 2018* have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018* to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the *Biodiversity Conservation Act 2016*.** **Categories of Threatened, Extinct and Specially Protected fauna and flora are:**	
T	**Threatened species** Listed by order of the Minister as Threatened in the category of critically endangered, endangered or vulnerable under section 19(1), or is a rediscovered species to be regarded as threatened species under section 26(2) of the *Biodiversity Conservation Act 2016* (BC Act). **Threatened fauna** is the species of fauna that are listed as critically endangered, endangered or vulnerable threatened species. **Threatened flora** is the species of flora that are listed as critically endangered, endangered or vulnerable threatened species. The assessment of the conservation status of threatened species is in accordance with the BC Act listing criteria and the requirements of Ministerial Guideline (Number 1) and Ministerial Guideline (Number 2) that adopts the use of the International Union for Conservation of Nature (IUCN) Red List of Threatened Species Categories and Criteria4, and is based on the national distribution of the species

Conservation Codes for Western Australian Flora and Fauna	
CR	**Critically endangered species** Threatened species considered to be "*facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines*". Listed as critically endangered undersection 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines.
EN	**Endangered species** Threatened species considered to be "*facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines*". Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines.
VU	**Vulnerable species** Threatened species considered to be "*facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines*". Listed as vulnerable undersection 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines.
Extinct species **Listed by order of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.**	
EX	**Extinct species** Species where "*there is no reasonable doubt that the last member of the species has died*", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).
EW	**Extinct in the wild species** Species that "*is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form*", and listing is otherwise in accordance with the ministerial guidelines (section 25of the BC Act).
Specially protected species Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of the following categories: species of special conservation interest; migratory species; cetaceans; species subject to international agreement; or species otherwise in need of special protection. Species that are listed as threatened species (critically endangered, endangered or vulnerable) or extinct species under the BC Act cannot also be listed as Specially Protected species.	
MI	**Migratory species** Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15of the BC Act). Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the *Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.
CD	**Species of special conservation interest (conservation dependent)** Species of special conservation need that are dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act)
OS	**Other specially protected species** Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18of the BC Act).
P	**Priority species** Priority is not a listing category under the BC Act. All fauna and flora are protected in WA following the provisions in Part 10 of the BC Act. The protection applies even when a species is not listed as threatened or specially protected, and regardless of land tenure (State managed land (Crown land), private land, or Commonwealth land). Species that may possibly be threatened species that do not meet the criteria for listing under the BC Act because of insufficient survey or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of prioritisation for survey and evaluation of conservation status so that consideration can be given to potential listing as threatened. Species that are adequately known, meet criteria for near threatened, or are rare but not threatened, or that have been recently removed from the threatened species list or conservation dependent or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Assessment of priority status is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

Conservation Codes for Western Australian Flora and Fauna	
1	**Priority 1: Poorly-known species – known from few locations, none on conservation lands** Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, for example, agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. These species are in urgent need of further survey.
2	**Priority 2: Poorly-known species – known from few locations, some on conservation lands** Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, for example, national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements for threatened listing and appear to be under threat from known threatening processes. These species are in urgent need of further survey.
3	**Priority 3: Poorly-known species – known from several locations** Species that are known from several locations and the species does not appear to be under imminent threat or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. These species need further survey.
4	**Priority 4: Rare, Near Threatened and other species in need of monitoring** (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.
[1] The definition of flora includes algae, fungi and lichens. **[2] Species includes all taxa (plural of taxon - a classificatory group of any taxonomic rank, e.g. a family, genus, species or any infraspecific category i.e. subspecies or variety, or a distinct population).**	

THREATENED AND PRIORITY ECOLOGICAL COMMUNITIES

Western Australian TECs are protected under the BC Act and are categorised much like those of the EPBC Act. Western Australian definitions and criteria for TECs are shown in **Table 16**.

Currently described TECs are listed on the DBCA website, with the most recent list endorsed by the Minister for Environment in May 2023 (Western Australian Government 2023).

DBCA also maintains a list of Priority Ecological Communities (PECs). PECs include potential TECs that do not meet survey criteria, or that are not adequately defined. They are not protected under legislation but are taken into consideration as part of the environmental approvals process.

Currently described PECs are listed on the DBCA website, with the most recent list was published in November 2025 (Department of Biodiversity and Conservation 2025). Definitions and criteria for PECs are shown in **Table 16**.

Table 16: DBCA definitions and criteria for TECs and PECs (DEC 2013)

Criteria	Definition
Threatened Ecological Communities	
Presumed Totally Destroyed (PD)	An ecological community that has been adequately searched for but for which no representative occurrences have been located. The community has been found to be totally destroyed or so extensively modified throughout its range that no occurrence of it is likely to recover its species composition and/or structure in the foreseeable future. An ecological community will be listed as presumed totally destroyed if there are no recent records of the community being extant and either of the following applies (A or B): A. Records within the last 50 years have not been confirmed despite thorough searches of known or likely habitats or B. All occurrences recorded within the last 50 years have since been destroyed
Critically Endangered (CR)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or that was originally of limited distribution and is facing severe modification or destruction throughout its range in the immediate future, or is already severely degraded throughout its range but capable of being substantially restored or rehabilitated. An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future. This will be determined on the basis of the best available information, by it meeting any one or more of the following criteria (A, B or C): A. The estimated geographic range, and/or total area occupied, and/or number of discrete occurrences since European settlement have been reduced by at least 90% and either or both of the following apply (i or ii): i. geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is imminent (within approximately 10 years); ii. modification throughout its range is continuing such that in the immediate future (within approximately 10 years) the community is unlikely to be capable of being substantially rehabilitated. B. Current distribution is limited, and one or more of the following apply (i, ii or iii): i. geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the immediate future (within approximately 10 years); ii. there are very few occurrences, each of which is small and/or isolated and extremely vulnerable to known threatening processes; iii. there may be many occurrences but total area is very small and each occurrence is small and/or isolated and extremely vulnerable to known threatening processes. C. The ecological community exists only as highly modified occurrences that may be capable of being rehabilitated if such work begins in the immediate future (within approximately 10 years).
Endangered (EN)	An ecological community that has been adequately surveyed and found to have been subject to a major contraction in area and/or was originally of limited distribution and is in danger of significant modification throughout its range or severe modification or destruction over most of its range in the near future. An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B, or C): A. The geographic range, and/or total area occupied, and/or number of discrete occurrences have been reduced by at least 70% since European settlement and either or both of the following apply (i or ii): i. the estimated geographic range, and/or total area occupied and/or number of discrete occurrences are continuing to decline such that total destruction of the community is likely in the short term future (within approximately 20 years); ii. modification throughout its range is continuing such that in the short term future (within approximately 20 years) the community is unlikely to be capable of being substantially restored or rehabilitated. B. Current distribution is limited, and one or more of the following apply (i, ii or iii): i. geographic range and/or number of discrete occurrences, and/or area occupied is highly restricted and the community is currently subject to known threatening processes which are likely to result in total destruction throughout its range in the short term future (within approximately 20 years); ii. there are few occurrences, each of which is small and/or isolated and all or most occurrences are very vulnerable to known threatening processes; iii. there may be many occurrences but total area is small and all or most occurrences are small and/or isolated and very vulnerable to known threatening processes. The ecological community exists only as very modified occurrences that may be capable of being substantially restored or rehabilitated if such work begins in the short-term future (within approximately 20 years).

Criteria	Definition
Vulnerable (VU)	An ecological community that has been adequately surveyed and is found to be declining and/or has declined in distribution and/or condition and whose ultimate security has not yet been assured and/or a community that is still widespread but is believed likely to move into a category of higher threat in the near future if threatening processes continue or begin operating throughout its range. An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing a high risk of total destruction or significant modification in the medium to long-term future. This will be determined on the basis of the best available information by it meeting any one or more of the following criteria (A, B or C): A. The ecological community exists largely as modified occurrences that are likely to be capable of being substantially restored or rehabilitated. B. The ecological community may already be modified and would be vulnerable to threatening processes, is restricted in area and/or range and/or is only found at a few locations. C. The ecological community may be still widespread but is believed likely to move into a category of higher threat in the medium to long term future because of existing or impending threatening processes.
Priority ecological communities	
Priority One	*Poorly known ecological communities* Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist. Communities may be included if they are comparatively well-known from one or more localities but do not meet adequacy of survey requirements, and/or are not well defined, and appear to be under immediate threat from known threatening processes across their range.
Priority Two	*Poorly known ecological communities* Communities that are known from few small occurrences, all or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, state forest, unallocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation. Communities may be included if they are comparatively well known from one or more localities, but do not meet adequacy of survey requirements, and / or are not well defined, and appear to be under threat from known threatening processes.
Priority Three	*Poorly known ecological communities* i. Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or; ii. Communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or; iii. Communities made up of large, and/or widespread occurrences, that may or may not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing by domestic and/or feral stock, and inappropriate fire regimes. Communities may be included if they are comparatively well known from several localities, but do not meet adequacy of survey requirements and / or are not well defined, and known threatening processes exist that could affect them.
Priority Four	Ecological communities that are adequately known, rare but not threatened or meet criteria for Near Threatened, or that have been recently removed from the threatened list. These communities require regular monitoring. i. Rare. Ecological communities known from few occurrences that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change These communities are usually represented on conservation lands. ii. Near Threatened. Ecological communities that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable. iii. Ecological communities that have been removed from the list of threatened communities during the past five years.
Priority Five	*Conservation Dependent Ecological Communities* Ecological Communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.

FLORA CRITERIA
OTHER SIGNIFICANT FLORA

According to the Flora and Vegetation Technical Guidance (EPA 2016a) other than being listed as Threatened or Priority Flora, a species can be considered as significant if it is considered to be:

- locally endemic or association with a restricted habitat type (e.g. Groundwater Dependent Ecosystems, Sheet Flow Dependent Vegetation)
- a new species or has anomalous features that indicate a potential new species
- at the extremes of range, recently discovered range extensions (generally considered greater than 100 km or in a different bioregion), or isolated outliers of the main range
- unusual species, including restricted subspecies, varieties or naturally occurring hybrids
- relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape.

INTRODUCED FLORA

Introduced plant species, known as weeds, are plants that are not indigenous to an area and have been introduced either directly or indirectly (unintentionally) through human activity. Species are regarded as introduced if they are listed as 'alien' on *FloraBase* (Western Australian Herbarium [WAH] 1998-2023) and are designated with an asterisk (*) in this document.

Weeds of National Significance

At a national level there are 32 weed species listed as Weeds of National Significance (Weeds Australia & Centre for Invasive Species Solutions 2021). The Commonwealth *Australian Weeds Strategy 2017-2027* (Invasive Plants and Animals Committee 2016) describes broad goals and objectives to manage these species.

Declared Pest Plants

The Western Australian Organism List (WAOL) details organisms listed as Declared Pests under the *Biosecurity and Agriculture Management Act 2007* (BAM Act). Under the BAM Act, Declared Pests are listed as one of the three categories, or exempt:

- C1 (exclusion), that applies to pests not established in Western Australia; control measures are to be taken to prevent their entry and establishment
- C2 (eradication), that applies to pests that are present in Western Australia but in low numbers or in limited areas where eradication is still a possibility
- C3 (management), that applies to established pests where it is not feasible or desirable to manage them in order to limit their damage
- exempt (no category).

VEGETATION CRITERIA
OTHER SIGNIFICANT VEGETATION

According to the Flora and Vegetation Technical Guidance (EPA 2016a) other than being listed as a TEC or PEC, vegetation can be considered as significant if it is considered to have:

- restricted distribution
- a degree of historical impact from threatening processes
- a role as a refuge
- provides an important function required to maintain ecological integrity of a significant ecosystem.

Groundwater Dependent and Sheet Flow Dependent Mulga vegetation may be considered as significant and are described below.

Groundwater Dependent Vegetation

Groundwater Definition

Groundwater is water that is found in the saturated zone of the soil, where all soil pores are filled with water. The water table is the upper surface of the saturated zone in an unconfined aquifer. Groundwater may also occur as a perched aquifer located above unsaturated rock formations as a result of a discontinuous permeable layer or held under pressure in a confined aquifer (Goulburn-Murray Water 2010).

Groundwater Dependent Ecosystems Definition

Groundwater Dependent Ecosystems (GDEs) have been defined as ecosystems that are dependent on groundwater for their survival at some stage or stages of their lifecycle, however groundwater use cannot be equated with groundwater dependence (Eamus 2009). In some contexts (including that of a flora and vegetation assessment), GDEs are also known as Groundwater Dependent Vegetation (GDV).

Hatton and Evans (1998) identified four types of GDEs based on their geographic setting: terrestrial vegetation (vegetation communities and dependent fauna that have seasonal or episodic dependence on groundwater), river base flow systems (aquatic and riparian ecosystems that exist in or adjacent to streams that are fed by groundwater base flow), aquifer and cave ecosystems, and wetlands.

Eamus *et al.* (2006) identified three primary classes based on type of groundwater reliance:

1. Aquifer and cave ecosystems.
2. All ecosystems dependent on the surface expression of groundwater:
    a) river base flows
    b) wetlands, swamplands
    c) seagrass beds in estuaries
    d) floodplains
    e) mound springs
    f) riparian vegetation
    g) saline discharge to lakes
    h) low lying forests.
3. All ecosystems dependent on the subsurface presence of groundwater, often accessed via the capillary fringe (non-saturated zone above the water table) when roots penetrate this zone:
    a) River Red Gum (*Eucalyptus camaldulensis*) forests
    b) Banksia woodlands
    c) Riparian vegetation in the wet/dry tropics.

GDEs in arid areas, including the Pilbara region, are generally determined to be vegetation associated with riparian areas. GDEs dependent on the surface expression of groundwater (Eamus et al. 2006 class 2) includes vegetation associated with wetlands (permanent or semi-permanent pools) within riparian areas, and generally includes *Melaleuca argentea* in association with other species described below.

GDEs associated with the subsurface presence of groundwater (Eamus et al. 2006 class 3) includes riparian vegetation characterised by the phreatophytic species described below.

Direct impacts on GDEs (clearing), and indirect impacts, including from dewatering and reinjection, frequently feature as being a significant environmental impact in mining approvals documents e.g. Office of the Appeals Convenor (2016a, 2016b), Rio Tinto (2016).

Phreatophytic Species

Phreatophytic species rely on groundwater sources for water intake (Maunsell Australia Pty Ltd 2006) essentially the water requirements of phreatophytes are greater than can be provided from the surface soil profile (e.g. riparian vegetation) or they are dependent on free water availability (e.g. wetland species). They frequently show low tolerance to extended water stress due to a lack of physiological and/or morphological adaptation to drought and respond to significant water deficit by a decline in health and eventual death (*ibid.).*

Obligate phreatophytes are dependent on free access to water (i.e. they are wetland species) whereas facultative phreatophytes can switch their water source between the soil surface profile in times of rain, to groundwater in times of drought when the soil surface profile (vadosphere) is depleted (Grierson 2010).

Phreatophytic species likely to occur in the Pilbara include:

- *Eucalyptus camaldulensis sens. lat.*, which is regarded as a facultative phreatophyte that is dependent on groundwater for part of its lifecycle and/or in times of drought. This species has been reported to be tolerant of groundwater falls of up to 4 m per year (Maunsell Australia Pty Ltd 2006), has both lateral and sinker roots and is tolerant of waterlogging (Grierson 2010).
- *Eucalyptus victrix*, which may be regarded as a facultative phreatophyte. It is considered to be relatively drought tolerant and likely to be tolerant of gradual declines to the water table (to a degree) (Maunsell Australia Pty Ltd 2006). *Eucalyptus victrix* has lateral and sinker roots (i.e. a dimorphic root system) but is not tolerant of waterlogging (Grierson 2010). There is some conjecture that this species is actually a vadophyte (i.e. relies on water from within the soil surface profile, and is independent of groundwater) or, at best, weakly phreatophytic (Resource and Environmental Management Pty Ltd 2007). Depth to groundwater is likely to be an important indicator of groundwater dependence (Equinox Environmental 2017).
- wetland species such as *Melaleuca argentea*, an obligate phreatophyte
- *Melaleuca xerophila* may be groundwater dependent in some areas (Markey 2016).

Vegetation containing *Eucalyptus camaldulensis sens. lat.* and *Melaleuca argentea* is generally considered to represent a GDE.

However, there is supporting evidence that, in some circumstances, *Eucalyptus victrix* does not always depend on groundwater (Batini 2009; Eamus 2009; EPA 2010; Resource and Environmental Management Pty Ltd 2007). Depth to groundwater provides guidance to determining if the vegetation is likely to be groundwater dependent or not. Where the depth to groundwater is more than 10 m below the soil surface *Eucalyptus victrix* is unlikely to be able to access the resource (Barron et al. 2012); therefore *Eucalyptus victrix*-dominated vegetation is not likely to be groundwater dependent. However, where the depth to groundwater is less than 10 m, or where depth to groundwater is unknown but is potentially in this range, *Eucalyptus victrix*-dominated vegetation is considered to be potentially groundwater dependent (i.e. representative of a potential GDE).

Atlas of Groundwater Dependent Ecosystems

The Groundwater Dependent Ecosystems Atlas (BoM 2024) indicates the presence of known GDEs and Inflow Dependent Ecosystems (IDEs) in Australia.

An Inflow Dependent Ecosystem is one in which the vegetation within the landscape is likely to be accessing water in addition to rainfall, from soil or surface water or groundwater, assessed using remotely sensed data. The likelihood of a landscape using additional water is rated from one to 10 (low to high), with a rating above six indicating that a landscape is likely to be inflow dependent (BoM 2024).

Sheet Flow Dependent Vegetation

Sheet Flow Dependent Vegetation (SFDV) occurs through much of the arid and semi-arid zones of the world and is characterised by a mosaic of low cover or bare areas with low water infiltration rates (run-off areas) and high biomass cover with high infiltration rates (Saco, Willgoose & Hancock 2007). The high biomass component in Australia is generally characterised by Mulga (a suite of related Acacia species; Maslin & Reid 2012), although other vegetation is also considered as SFDV (Ecologia Environment 2010).

These mosaics form over time due to a positive feedback wherein the increases in soil moisture in vegetated patches reinforces the pattern. They are considered to have an important role in stabilising the ecosystem and assist ecosystem recovery from disturbance. World-wide, these mosaics occur frequently in the form of irregular clusters of vegetation surrounded by bare soil, but also form bands, stripes or arcs with banded vegetation usually forming along contour lines and intercepting surface water flow. They occur most frequently on gentle slopes but also occur on relatively steep slopes. Interruptions to the banding pattern result in the

formation of erosion gullies and rills that concentrate water flow, with the landscape no longer displaying sheet flow and disrupting the formation of banded vegetation (Saco, Willgoose & Hancock 2007).

The most commonly known form of SFDV in Australia is 'grove-intergrove' Mulga wherein the 'grove' of Mulga trees and shrubs form the high-infiltration, high-biomass component and the 'intergrove' represents the low-infiltration, low-biomass component of the system. These form on relatively flat (very gently sloping) landscapes (Muller 2005; The University of Western Australia, Grierson & Page 2012). Grove-intergrove Mulga formations are known to occur over much of Australia including in Queensland, Western Australia, New South Wales and South Australia, and all occur on gently sloping alluvial-colluvial plains (Dunkerley 2002). The relatively soil high nutrient status (due to interception and retention of organic material), moisture (including soil moisture), shelter and diversity of structure within the Mulga groves are significant as habitat for both flora and fauna species (Freudenberger & Hiernaux 2001; Page 2013; Woinarski, Burbidge & Harrison 2014), including fossorial fauna species that, through their burrows and nests, aerate the soil and increase rainwater infiltration (Tongway 1994), in an otherwise depauperate environment.

Linear infrastructure, including roads and railways, are known to alter surface water hydrology, thereby placing SFDV at risk of degradation (Astron Environmental Services 2010).

ENVIRONMENTALLY SENSITIVE AREAS

There are a number of areas within Western Australia identified as being of environmental significance within which the exemptions to the Native Vegetation Clearing Regulations do not apply. These are referred to as Environmentally Sensitive Areas (ESAs), and are declared under section 51B of the EP Act and described in the *Environmental Protection (Environmentally Sensitive Areas) Notice*.

CONSERVATION ESTATE

The National Reserve System is a network of protected areas managed for conservation under international guidelines. The objective of placing areas of bushland into the Conservation Estate is to achieve and maintain a comprehensive, adequate and representative reserve system for Western Australia. The Conservation and Parks Commission is the vesting body for conservation lands, forest and marine reserves that are managed by DBCA (Government of Western Australia 2018).

APPENDIX TWO FIELD SURVEY CRITERIA

Table 17: NVIS structural formation terminology, terrestrial vegetation (NVIS Technical Working Group & DotEE 2017)

	Cover characteristics							
	Foliage cover *	70-100	30-70	10-30	<10	» 0 (scattered)	0-5 (clumped)	unknown
	Cover code	d	c	i	r	bi	bc	unknown
Growth Form	**Height Ranges (m)**	**Structural Formation Classes**						
tree, palm	<10,10-30, >30	closed forest	open forest	woodland	open woodland	isolated trees	isolated clumps of trees	tree, palm
tree mallee	<3, <10, 10-30	closed mallee forest	open mallee forest	mallee woodland	open mallee woodland	isolated mallee trees	isolated clumps of mallee trees	tree mallee
shrub, cycad, grass-tree, tree-fern	<1,1-2,>2	closed shrubland	shrubland	open shrubland	sparse shrubland	isolated shrubs	isolated clumps of shrubs	shrub, cycad, grass-tree, tree-fern
mallee shrub	<3, <10, 10-30	closed mallee shrubland	mallee shrubland	open mallee shrubland	sparse mallee shrubland	isolated mallee shrubs	isolated clumps of mallee shrubs	mallee shrub
heath shrub	<1,1-2,>2	closed heathland	heathland	open heathland	sparse heathland	isolated heath shrubs	isolated clumps of heath shrubs	heath shrub
chenopod shrub	<1,1-2,>2	closed chenopod shrubland	chenopod shrubland	open chenopod shrubland	sparse chenopod shrubland	isolated chenopod shrubs	isolated clumps of chenopod shrubs	chenopod shrub
samphire shrub	<0.5,>0.5	closed samphire shrubland	samphire shrubland	open samphire shrubland	sparse samphire shrubland	isolated samphire shrubs	isolated clumps of samphire shrubs	samphire shrub
hummock grass	<2,>2	closed hummock grassland	hummock grassland	open hummock grassland	sparse hummock grassland	isolated hummock grasses	isolated clumps of hummock grasses	hummock grass
tussock grass	<0.5,>0.5	closed tussock grassland	tussock grassland	open tussock grassland	sparse tussock grassland	isolated tussock grasses	isolated clumps of tussock grasses	tussock grass
other grass	<0.5,>0.5	closed grassland	grassland	open grassland	sparse grassland	isolated grasses	isolated clumps of grasses	other grass
sedge	<0.5,>0.5	closed sedgeland	sedgeland	open sedgeland	sparse sedgeland	isolated sedges	isolated clumps of sedges	sedge
rush	<0.5,>0.5	closed rushland	rushland	open rushland	sparse rushland	isolated rushes	isolated clumps of rushes	rush
forb	<0.5,>0.5	closed forbland	forbland	open forbland	sparse forbland	isolated forbs	isolated clumps of forbs	forb
fern	<1,1-2,>2	closed fernland	fernland	open fernland	sparse fernland	isolated ferns	isolated clumps of ferns	fern
bryophyte	<0.5	closed bryophyte-land	bryophyte-land	open bryophyteland	sparse bryophyteland	isolated bryophytes	isolated clumps of bryophytes	bryophyte
lichen	<0.5	closed lichenland	lichenland	open lichenland	sparse lichenland	isolated lichens	isolated clumps of lichens	lichen
vine	<10,10-30, >30	closed vineland	vineland	open vineland	sparse vineland	isolated vines	isolated clumps of vines	vine

Table 18: NVIS height classes (NVIS Technical Working Group & DotEE 2017)

Height		Growth form				
Height Class	**Height Range (m)**	**Tree, vine (M & U), palm (single-stemmed)**	**Shrub, heath shrub, chenopod shrub, ferns, samphire shrub, cycad, tree-fern, grass-tree, palm (multi-stemmed)**	**Tree mallee, mallee shrub**	**Tussock grass, hummock grass, other grass, sedge, rush, forbs, vine (G)**	**Bryophyte, lichen, seagrass, aquatic**
8	>30	tall	NA	NA	NA	NA
7	10-30	mid	NA	tall	NA	NA
6	<10	low	NA	mid	NA	NA
5	<3	NA	NA	low	NA	NA
4	>2	NA	tall	NA	tall	NA
3	1-2	NA	mid	NA	tall	NA
2	0.5-1	NA	low	NA	mid	tall
1	<0.5	NA	low	NA	low	low
Source: (based on Walker & Hopkins 1990)						

Table 19: Vegetation condition scale for the Eremaean and Northern Botanical Provinces (EPA 2016a)

Condition rating	Description
Excellent	Pristine or nearly so, no obvious signs of disturbance or damage caused by human activities since European settlement.
Very Good	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
Good	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor	Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires or aggressive weeds.
Degraded	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	Areas that are completely or almost completely without native species in the structure of their vegetation; i.e. areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.

APPENDIX THREE DESKTOP ASSESSMENT RESULTS AND LIKELIHOOD ASSESSMENTS

Table 20: Flora database search results, habitat and likelihood assessment

Blue shading indicates high likelihood; dark blue indicates species is known (recorded) from the survey area

Database*	Species name	Habitat from: • *FloraBase* • (for *Acacia* species) *World Wide Wattle*	Flowering	Distance (km)	Likelihood of occurrence	
					Desktop	Post-survey
	Threatened Flora* **					
WAH, TP, PMST	*Quoya zonalis* (EPBC – EN; BC – EN)	Narrow zones along steep, rocky, sandstone conglomerates and granite slopes in skeletal, brown, sandy loam soils.	July to September	54.0	Unlikely	Very Unlikely
	DBCA Priority 1					
WAH	*Acacia cyperophylla* var. *omearana*	Along drainage lines. Stony and gritty alluvium. Open *Eucalyptus* and *Melaleuca* woodland over *Melaleuca* shrubland.	Mar-Apr	64.6	Unlikely	Very Unlikely
WAH, TP	*Acacia leeuweniana*	Gritty, skeletal red-grey sandy loam, light orange-brown gravelly sand, granite. In rock fissures in outcrops, among boulders. Open *Acacia* shrubland over *Triodia* grassland.	May	67.5	Unlikely	Very Unlikely
WAH, TP	*Atriplex eremitis*	Plains, edges of clay pans. Brown sand. Grasslands.	Oct	35.1	Very Unlikely	Very Unlikely
WAH	*Corchorus* sp. Yarrie (J. Bull & D. Roberts CAL 01.05)	Slopes, drainage lines, gullies and hill tops. Brown clay loam.	May-Jun	60.7	Unlikely	Very Unlikely
WAH	*Euploca parviantrum*	Flats, plains and rocky slopes.	Feb-Jun	29.6	May	Unlikely
WAH	*Josephinia* sp. Woodstock (A.A. Mitchell PRP 989)	Plains and flats. Red-brown clay loam soils.	May-Nov	98.6	Very Unlikely	Very Unlikely
WAH	*Tephrosia rosea* var. Port Hedland (A.S. George 1114)	Coastal sand dunes, sand plains.	Jul-Sep	40.1	Very Unlikely	Very Unlikely
WAH	*Themeda* sp. Panorama (J. Nelson et al. NS 102)	Shady rocky slopes of ironstone. Skeletal rocky red clay loam.	May	58.1	Unlikely	Very Unlikely
WAH	*Triodia degreyensis*	Gravelly hills. Brown skeletal clay loam over massive ironstone outcropping.	-	18.7	May	Unlikely
	DBCA Priority 2					
WAH	*Gomphrena pusilla*	Limestone ridges, coastal sand dunes. Calcareous sand, sandstone	Mar-Jun	47.0	Very Unlikely	Very Unlikely
	DBCA Priority 3					
WAH, TP	*Abutilon* sp. Pritzelianum (S. van Leeuwen 5095)	Plains, floodplains, sand dunes. Red-brown or orange-brown sandy or loamy soil. Open *Acacia* shrubland over *Triodia* grassland.	Apr-Sep	23.2	Likely	May

Database*	Species name	Habitat from: • *FloraBase* • (for *Acacia* species) *World Wide Wattle*	Flowering	Distance (km)	Likelihood of occurrence	
					Desktop	Post-survey
WAH, TP	*Acacia levata*	Hillslopes. Sand or sandy loam over granite. *Triodia* grassland with scattered *Acacia* shrubs.	May	82.2	Unlikely	Very Unlikely
WAH	*Dolichocarpa* sp. Hamersley Station (A.A. Mitchell PRP 1479)	Crabhole plains, drainage lines, gentle slopes. Clay or loam soil	Mar	52.9	Very Unlikely	Very Unlikely
WAH, TP	*Euphorbia clementii*	Flats/plains, rocky slopes, drainage lines. Red-brown or orange clay loam with ironstone gravel.	May-Jul	0.1	Known	Known
WAH	*Euphorbia inappendiculata* var. *inappendiculata*	Plains and hill slopes. With cracking clays.	Apr-May	53.0	Very Unlikely	Very Unlikely
WAH	*Euploca mutica*	Plains/sandplains. Brown to orange or red sand or sandy loam, sometimes with gravel.	May-Nov	1.2	Known	Known
WAH, TP	*Gomphrena cucullata*	Open floodplains. Red sandy loam or clay soil.	Feb-May	87.3	Unlikely	Very Unlikely
WAH	*Gomphrena leptophylla*	Sand, sandy to clayey loam, granite, quartzite. Open flats, sandy creek beds, edges salt pans & marshes, stony hillsides.	Mar-Sep	53.4	Unlikely	Very Unlikely
WAH	*Goodenia obscurata*	Disturbed ground. Floodplain, hills. Brown/Red sandy-clay loam.	July-Nov	57.2	Unlikely	Very Unlikely
WAH, TP	*Gymnanthera cunninghamii*	Creek beds, drainage lines, on margins of mound springs. Sandy soils. *Eucalyptus* open woodland over *Acacia* shrubland over hummock/tussock grassland. *Eucalyptus camaldulensis*, *E. victrix*, *Melaleuca argentea*, *Corymbia hamersleyana*, *Acacia colei*, *A. trachycarpa*, *A. tumida*, *Triodia epactia*, *T. angusta*.	Dec-Jan	0.1	Likely	Known
WAH	*Heliotropium murinum*	Plains, undulating plains, floodplains. Red-brown soil.	May-Sep	57.4	Unlikely	Very Unlikely
WAH, TP	*Indigofera ammobia*	Sand dunes, plains. Sandy soils.	Jul-Sep	99.5	Very Unlikely	Very Unlikely
WAH	*Nicotiana umbratica*	Rocky outcrops with shallow soils.	Apr-Jun	52.8	May	Known
WAH	*Phyllanthus hebecarpus*	Granite outcrops, drainage lines. Skeletal brown sand or red sandy loam.		62.5	Unlikely	Very Unlikely
WAH	*Rothia indica* subsp. *australis*	Sandhills and sandy flats. Sandy soils.	Apr-Aug	20.6	May	Known
WAH	*Stylidium weeliwolli*	Edges of watercourses. Gritty red/brown sand or clay soil.		38.7	May	Very Unlikely
WAH	*Terminalia supranitifolia*	Drainage lines, cliffs, slopes, rocky outcrops. Red-brown clay loam or sandy soil.	May-Dec	50.4	Unlikely	Very Unlikely

Database*	Species name	Habitat from: • *FloraBase* • (for *Acacia* species) *World Wide Wattle*	Flowering	Distance (km)	Likelihood of occurrence	
					Desktop	Post-survey
WAH	*Triodia basitricha*	Hill tops, rocky plains and in gullies. Gravelly soils, red-brown clay loam over ironstone.	May-Jul	54.2	Unlikely	Very Unlikely
WAH	*Triodia chichesterensis*	Plains, low hills. Orange sandy soil or brown clay loam, sometimes gravelly.	Mar-May	0	Known	Known
WAH	*Vigna triodiophila*	Rocky hill slopes. Red-brown soil.	Mar-Jul	38.1	Unlikely	Very Unlikely
	DBCA Priority 4					
WAH, TP	*Bulbostylis burbidgeae*	Granite outcrops, cliff bases, slopes. Brown skeletal clay-loam soils.	Mar-Aug	0.6	Known	Known
WAH	*Ptilotus mollis*	Stony hills and screes.	May or Sep	32.9	Unlikely	Very Unlikely

* WAH = herbarium record (vouchered specimen)

TP = Threatened and Priority Flora Report Form record; may be unconfirmed i.e. without vouchered specimen

** PMST likelihood of occurrence or likelihood of habitat occurring

*** Commonwealth EPBC Act and Western Australian BC Act conservation status

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. Please see the caveat for interpretation of information provided here.

Report created: 18-Aug-2025

Summary
Details
- Matters of NES
- Other Matters Protected by the EPBC Act
- Extra Information

Caveat
Acknowledgements

Summary

Matters of National Environment 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 (Ramsar	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	1
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	45
Listed Migratory Species:	66

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 https://www.dcceew.gov.au/parks-heritage/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 Lands:	73
Commonwealth Heritage Places:	None
Listed Marine Species:	106
Whales and Other Cetaceans:	14
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	1

Extra Information

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

State and Territory Reserves:	None
Regional Forest Agreements:	None
Nationally Important Wetlands:	2
EPBC Act Referrals:	53
Key Ecological Features (Marine):	None
Biologically Important Areas:	9
Bioregional Assessments:	None
Geological and Bioregional Assessments:	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 a Commonwealth Marine Area but which has, may have or is likely to have a significant impact on the environment in the Commonwealth Marine Area.

Feature Name	Buffer Status
Commonwealth Marine Areas (EPBC Act)	In buffer area only

Listed Threatened Species [Resource Information]

Status of Conservation Dependent and Extinct are not MNES under the EPBC Act.
Number is the current name ID.

Scientific Name	Threatened Category	Presence Text	Buffer Status
BIRD			
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Charadrius leschenaultii Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius mongolus Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
Erythrotriorchis radiatus Red Goshawk [942]	Endangered	Species or species habitat may occur within area	In feature area
Falco hypoleucos Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
Limnodromus semipalmatus Asian Dowitcher [843]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Limosa lapponica menzbieri Northern Siberian Bar-tailed Godwit, Russkoye Bar-tailed Godwit [86432]	Endangered	Species or species habitat known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Pezoporus occidentalis Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
Phaethon lepturus fulvus Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In buffer area only
Phaethon rubricauda westralis Red-tailed Tropicbird (Indian Ocean), Indian Ocean Red-tailed Tropicbird [91824]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Pluvialis squatarola Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Polytelis alexandrae Princess Parrot, Alexandra's Parrot [758]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Rostratula australis Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area
Sternula albifrons Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Tringa nebularia Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In buffer area only
Xenus cinereus Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
MAMMAL			
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat known to occur within area	In feature area
Macroderma gigas Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area	In feature area
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area	In feature area
Orcaella heinsohni Australian Snubfin Dolphin [81322]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Rhinonicteris aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Roosting known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Sousa sahulensis](#) Australian Humpback Dolphin [87942]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
PLANT			
[Quoya zonalis listed as Pityrodia sp. Marble Bar (G.Woodman & D.Coultas GWDC Opp 4)](#) Pilbara Foxglove [91588]	Endangered (listed as Pityrodia sp. Marble Bar	Species or species habitat known to occur within area	In buffer area only
REPTILE			
[Aipysurus apraefrontalis](#) Short-nosed Sea Snake, Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
[Aipysurus foliosquama](#) Leaf-scaled Sea Snake, Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
[Caretta caretta](#) Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
[Chelonia mydas](#) Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
[Dermochelys coriacea](#) Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
[Eretmochelys imbricata](#) Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In buffer area only
[Liasis olivaceus barroni](#) Pilbara Olive Python [66699]	Vulnerable	Species or species habitat known to occur within area	In feature area
[Liopholis kintorei](#) Great Desert Skink, Tjakura, Warrarna, Mulyamiji, Tjalapa, Nampu [83160]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Natator depressus](#) Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only
SHARK			

Scientific Name	Threatened Category	Presence Text	Buffer Status
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sphyrna lewini Scalloped Hammerhead [85267]	Conservation Dependent	Species or species habitat likely to occur within area	In buffer area only

Listed Migratory Species		[Resource Information]	
Scientific Name	Threatened Category	Presence Text	Buffer Status
null			
Balaenoptera omurai Omura's Whale [87136]		Species or species habitat likely to occur within area	In buffer area only
Migratory Marine Birds			
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Fregata ariel](#) Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In buffer area only
[Macronectes giganteus](#) Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
[Phaethon lepturus](#) White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area	In buffer area only
[Phaethon rubricauda](#) Red-tailed Tropicbird [994]		Species or species habitat likely to occur within area	In buffer area only
[Sternula albifrons](#) Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Migratory Marine Species			
[Anoxypristis cuspidata](#) Narrow Sawfish, Knifetooth Sawfish [68448]		Species or species habitat likely to occur within area	In buffer area only
[Balaenoptera edeni](#) Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
[Balaenoptera musculus](#) Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
[Carcharhinus longimanus](#) Oceanic Whitetip Shark [84108]		Species or species habitat may occur within area	In buffer area only
[Carcharias taurus](#) Grey Nurse Shark [64469]		Species or species habitat may occur within area	In buffer area only
[Carcharodon carcharias](#) White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat may occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Dugong dugon Dugong [28]		Species or species habitat known to occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Mobula alfredi as Manta alfredi Reef Manta Ray, Coastal Manta Ray [90033]		Species or species habitat known to occur within area	In buffer area only
Mobula birostris as Manta birostris Giant Manta Ray [90034]		Species or species habitat likely to occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only
Orcaella heinsohni Australian Snubfin Dolphin [81322]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Pristis pristis Freshwater Sawfish, Largetooth Sawfish, River Sawfish, Leichhardt's Sawfish, Northern Sawfish [60756]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Breeding likely to occur within area	In buffer area only
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area	In buffer area only
Sousa sahulensis as Sousa chinensis Australian Humpback Dolphin [87942]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In buffer area only
Migratory Terrestrial Species			
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area	In buffer area only
Hirundo rustica Barn Swallow [662]		Species or species habitat known to occur within area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area	In feature area
Migratory Wetlands Species			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Arenaria interpres](#) Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Calidris acuminata](#) Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
[Calidris alba](#) Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
[Calidris canutus](#) Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Calidris ferruginea](#) Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area	In feature area
[Calidris melanotos](#) Pectoral Sandpiper [858]		Species or species habitat known to occur within area	In feature area
[Calidris ruficollis](#) Red-necked Stint [860]		Species or species habitat known to occur within area	In buffer area only
[Calidris subminuta](#) Long-toed Stint [861]		Species or species habitat known to occur within area	In buffer area only
[Calidris tenuirostris](#) Great Knot [862]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Charadrius leschenaultii](#) Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Charadrius mongolus](#) Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area	In feature area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat known to occur within area	In feature area
Limicola falcinellus Broad-billed Sandpiper [842]		Species or species habitat known to occur within area	In buffer area only
Limnodromus semipalmatus Asian Dowitcher [843]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Species or species habitat known to occur within area	In buffer area only
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area
Phalaropus lobatus Red-necked Phalarope [838]		Species or species habitat known to occur within area	In buffer area only
Pluvialis fulva Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Pluvialis squatarola			
Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Tringa brevipes			
Grey-tailed Tattler [851]		Species or species habitat known to occur within area	In buffer area only
Tringa glareola			
Wood Sandpiper [829]		Species or species habitat known to occur within area	In buffer area only
Tringa nebularia			
Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area	In buffer area only
Tringa stagnatilis			
Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area	In buffer area only
Xenus cinereus			
Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Commonwealth Lands [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.

Commonwealth Land Name	State	Buffer Status
Unknown		
Commonwealth Land - [51403]	WA	In buffer area only
Commonwealth Land - [51054]	WA	In buffer area only
Commonwealth Land - [51049]	WA	In buffer area only
Commonwealth Land - [51048]	WA	In buffer area only
Commonwealth Land - [51678]	WA	In buffer area only
Commonwealth Land - [51679]	WA	In buffer area only
Commonwealth Land - [51677]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51676]	WA	In buffer area only
Commonwealth Land - [51675]	WA	In buffer area only
Commonwealth Land - [51674]	WA	In buffer area only
Commonwealth Land - [51691]	WA	In buffer area only
Commonwealth Land - [51690]	WA	In buffer area only
Commonwealth Land - [51711]	WA	In buffer area only
Commonwealth Land - [51718]	WA	In buffer area only
Commonwealth Land - [51693]	WA	In buffer area only
Commonwealth Land - [51692]	WA	In buffer area only
Commonwealth Land - [51683]	WA	In buffer area only
Commonwealth Land - [50349]	WA	In buffer area only
Commonwealth Land - [50359]	WA	In buffer area only
Commonwealth Land - [50324]	WA	In buffer area only
Commonwealth Land - [51687]	WA	In buffer area only
Commonwealth Land - [50325]	WA	In buffer area only
Commonwealth Land - [51682]	WA	In buffer area only
Commonwealth Land - [50326]	WA	In buffer area only
Commonwealth Land - [51681]	WA	In buffer area only
Commonwealth Land - [51689]	WA	In buffer area only
Commonwealth Land - [51684]	WA	In buffer area only
Commonwealth Land - [51685]	WA	In buffer area only
Commonwealth Land - [51686]	WA	In buffer area only
Commonwealth Land - [51688]	WA	In buffer area only
Commonwealth Land - [51712]	WA	In buffer area only
Commonwealth Land - [51713]	WA	In buffer area only
Commonwealth Land - [50327]	WA	In buffer area only
Commonwealth Land - [51716]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51717]	WA	In buffer area only
Commonwealth Land - [51710]	WA	In buffer area only
Commonwealth Land - [51719]	WA	In buffer area only
Commonwealth Land - [51050]	WA	In buffer area only
Commonwealth Land - [51706]	WA	In buffer area only
Commonwealth Land - [51714]	WA	In buffer area only
Commonwealth Land - [51707]	WA	In buffer area only
Commonwealth Land - [51715]	WA	In buffer area only
Commonwealth Land - [51429]	WA	In buffer area only
Commonwealth Land - [51666]	WA	In buffer area only
Commonwealth Land - [51404]	WA	In buffer area only
Commonwealth Land - [51708]	WA	In buffer area only
Commonwealth Land - [51051]	WA	In buffer area only
Commonwealth Land - [50323]	WA	In buffer area only
Commonwealth Land - [51709]	WA	In buffer area only
Commonwealth Land - [51705]	WA	In buffer area only
Commonwealth Land - [51667]	WA	In buffer area only
Commonwealth Land - [51669]	WA	In buffer area only
Commonwealth Land - [51700]	WA	In buffer area only
Commonwealth Land - [51703]	WA	In buffer area only
Commonwealth Land - [51702]	WA	In buffer area only
Commonwealth Land - [51052]	WA	In buffer area only
Commonwealth Land - [51668]	WA	In buffer area only
Commonwealth Land - [51720]	WA	In buffer area only
Commonwealth Land - [51947]	WA	In buffer area only
Commonwealth Land - [51671]	WA	In buffer area only
Commonwealth Land - [51670]	WA	In buffer area only

Commonwealth Land Name	State	Buffer Status
Commonwealth Land - [51673]	WA	In buffer area only
Commonwealth Land - [51672]	WA	In buffer area only
Commonwealth Land - [51698]	WA	In buffer area only
Commonwealth Land - [51699]	WA	In buffer area only
Commonwealth Land - [51696]	WA	In buffer area only
Commonwealth Land - [51697]	WA	In buffer area only
Commonwealth Land - [51053]	WA	In buffer area only
Commonwealth Land - [51704]	WA	In buffer area only
Commonwealth Land - [51055]	WA	In buffer area only
Commonwealth Land - [51680]	WA	In buffer area only
Commonwealth Land - [51695]	WA	In buffer area only
Commonwealth Land - [51694]	WA	In buffer area only

Listed Marine Species [Resource Information]

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat known to occur within area	In feature area
Anous stolidus Common Noddy [825]		Species or species habitat may occur within area	In buffer area only
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area
Arenaria interpres Ruddy Turnstone [872]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
Bubulcus ibis as Ardea ibis Cattle Egret [66521]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris acuminata Sharp-tailed Sandpiper [874]	Vulnerable	Species or species habitat known to occur within area	In feature area
Calidris alba Sanderling [875]		Species or species habitat known to occur within area	In buffer area only
Calidris canutus Red Knot, Knot [855]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat known to occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat known to occur within area overfly marine area	In feature area
Calidris ruficollis Red-necked Stint [860]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris subminuta Long-toed Stint [861]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Calidris tenuirostris Great Knot [862]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In buffer area only
Calonectris leucomelas Streaked Shearwater [1077]		Species or species habitat may occur within area	In buffer area only
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Charadrius leschenaultii](#) Greater Sand Plover, Large Sand Plover [877]	Vulnerable	Species or species habitat known to occur within area	In buffer area only
[Charadrius mongolus](#) Lesser Sand Plover, Mongolian Plover [879]	Endangered	Species or species habitat known to occur within area	In buffer area only
[Charadrius ruficapillus](#) Red-capped Plover [881]		Species or species habitat known to occur within area overfly marine area	In buffer area only
[Charadrius veredus](#) Oriental Plover, Oriental Dotterel [882]		Species or species habitat known to occur within area overfly marine area	In feature area
[Fregata ariel](#) Lesser Frigatebird, Least Frigatebird [1012]		Species or species habitat known to occur within area	In buffer area only
[Glareola maldivarum](#) Oriental Pratincole [840]		Species or species habitat known to occur within area overfly marine area	In feature area
[Haliaeetus leucogaster](#) White-bellied Sea-Eagle [943]		Species or species habitat known to occur within area	In feature area
[Himantopus himantopus](#) Pied Stilt, Black-winged Stilt [870]		Species or species habitat known to occur within area overfly marine area	In buffer area only
[Hirundo rustica](#) Barn Swallow [662]		Species or species habitat known to occur within area overfly marine area	In feature area
[Limicola falcinellus](#) Broad-billed Sandpiper [842]		Species or species habitat known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Limnodromus semipalmatus Asian Dowitcher [843]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In buffer area only
Limosa lapponica Bar-tailed Godwit [844]		Species or species habitat known to occur within area	In buffer area only
Macronectes giganteus Southern Giant-Petrel, Southern Giant Petrel [1060]	Endangered	Species or species habitat may occur within area	In buffer area only
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area overfly marine area	In feature area
Motacilla flava Yellow Wagtail [644]		Species or species habitat known to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat known to occur within area	In feature area
Numenius minutus Little Curlew, Little Whimbrel [848]		Species or species habitat known to occur within area overfly marine area	In buffer area only
Numenius phaeopus Whimbrel [849]		Species or species habitat known to occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Breeding known to occur within area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Phaethon lepturus](#) White-tailed Tropicbird [1014]		Species or species habitat likely to occur within area	In buffer area only
[Phaethon lepturus fulvus](#) Christmas Island White-tailed Tropicbird, Golden Bosunbird [26021]	Endangered	Species or species habitat may occur within area	In buffer area only
[Phaethon rubricauda](#) Red-tailed Tropicbird [994]		Species or species habitat likely to occur within area	In buffer area only
[Phalaropus lobatus](#) Red-necked Phalarope [838]		Species or species habitat known to occur within area	In buffer area only
[Pluvialis fulva](#) Pacific Golden Plover [25545]		Species or species habitat known to occur within area	In buffer area only
[Pluvialis squatarola](#) Grey Plover [865]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In buffer area only
[Recurvirostra novaehollandiae](#) Red-necked Avocet [871]		Species or species habitat known to occur within area overfly marine area	In buffer area only
[Rostratula australis as Rostratula benghalensis (sensu lato)](#) Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area overfly marine area	In feature area
[Sternula albifrons as Sterna albifrons](#) Little Tern [82849]	Vulnerable	Species or species habitat may occur within area	In buffer area only
[Stiltia isabella](#) Australian Pratincole [818]		Species or species habitat known to occur within area overfly marine area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
[Tringa brevipes as Heteroscelus brevipes](#) Grey-tailed Tattler [851]		Species or species habitat known to occur within area	In buffer area only
[Tringa glareola](#) Wood Sandpiper [829]		Species or species habitat known to occur within area overfly marine area	In buffer area only
[Tringa nebularia](#) Common Greenshank, Greenshank [832]	Endangered	Species or species habitat known to occur within area overfly marine area	In buffer area only
[Tringa stagnatilis](#) Marsh Sandpiper, Little Greenshank [833]		Species or species habitat known to occur within area overfly marine area	In buffer area only
[Xenus cinereus](#) Terek Sandpiper [59300]	Vulnerable	Species or species habitat known to occur within area overfly marine area	In buffer area only
Fish			
[Acentronura larsonae](#) Helen's Pygmy Pipehorse [66186]		Species or species habitat may occur within area	In buffer area only
[Bulbonaricus brauni](#) Braun's Pughead Pipefish, Pug-headed Pipefish [66189]		Species or species habitat may occur within area	In buffer area only
[Campichthys tricarinatus](#) Three-keel Pipefish [66192]		Species or species habitat may occur within area	In buffer area only
[Choeroichthys brachysoma](#) Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area	In buffer area only
[Choeroichthys latispinosus](#) Muiron Island Pipefish [66196]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Choeroichthys suillus Pig-snouted Pipefish [66198]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus dactyliophorus Banded Pipefish, Ringed Pipefish [66210]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus multiannulatus Many-banded Pipefish [66717]		Species or species habitat may occur within area	In buffer area only
Doryrhamphus negrosensis Flagtail Pipefish, Masthead Island Pipefish [66213]		Species or species habitat may occur within area	In buffer area only
Festucalex scalaris Ladder Pipefish [66216]		Species or species habitat may occur within area	In buffer area only
Filicampus tigris Tiger Pipefish [66217]		Species or species habitat may occur within area	In buffer area only
Halicampus brocki Brock's Pipefish [66219]		Species or species habitat may occur within area	In buffer area only
Halicampus grayi Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area	In buffer area only
Halicampus nitidus Glittering Pipefish [66224]		Species or species habitat may occur within area	In buffer area only
Halicampus spinirostris Spiny-snout Pipefish [66225]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Haliichthys taeniophorus Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area	In buffer area only
Hippichthys penicillus Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area	In buffer area only
Hippocampus angustus Western Spiny Seahorse, Narrow-bellied Seahorse [66234]		Species or species habitat may occur within area	In buffer area only
Hippocampus histrix Spiny Seahorse, Thorny Seahorse [66236]		Species or species habitat may occur within area	In buffer area only
Hippocampus kuda Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat may occur within area	In buffer area only
Hippocampus planifrons Flat-face Seahorse [66238]		Species or species habitat may occur within area	In buffer area only
Hippocampus trimaculatus Three-spot Seahorse, Low-crowned Seahorse, Flat-faced Seahorse [66720]		Species or species habitat may occur within area	In buffer area only
Micrognathus micronotopterus Tidepool Pipefish [66255]		Species or species habitat may occur within area	In buffer area only
Phoxocampus belcheri Black Rock Pipefish [66719]		Species or species habitat may occur within area	In buffer area only
Solegnathus hardwickii Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat may occur within area	In buffer area only
Solegnathus lettiensis Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Solenostomus cyanopterus Robust Ghostpipefish, Blue-finned Ghost Pipefish, [66183]		Species or species habitat may occur within area	In buffer area only
Syngnathoides biaculeatus Double-end Pipehorse, Double-ended Pipehorse, Alligator Pipefish [66279]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus bicoarctatus Bentstick Pipefish, Bend Stick Pipefish, Short-tailed Pipefish [66280]		Species or species habitat may occur within area	In buffer area only
Trachyrhamphus longirostris Straightstick Pipefish, Long-nosed Pipefish, Straight Stick Pipefish [66281]		Species or species habitat may occur within area	In buffer area only
Mammal			
Dugong dugon Dugong [28]		Species or species habitat known to occur within area	In buffer area only
Reptile			
Aipysurus apraefrontalis Short-nosed Sea Snake, Short-nosed Seasnake [1115]	Critically Endangered	Species or species habitat likely to occur within area	In buffer area only
Aipysurus duboisii Dubois' Sea Snake, Dubois' Seasnake, Reef Shallows Sea Snake [1116]		Species or species habitat may occur within area	In buffer area only
Aipysurus foliosquama Leaf-scaled Sea Snake, Leaf-scaled Seasnake [1118]	Critically Endangered	Species or species habitat known to occur within area	In buffer area only
Aipysurus laevis Olive Sea Snake, Olive-brown Sea Snake [1120]		Species or species habitat may occur within area	In buffer area only
Aipysurus mosaicus as Aipysurus eydouxii Mosaic Sea Snake [87261]		Species or species habitat may occur within area	In buffer area only
Aipysurus tenuis Brown-lined Sea Snake, Mjoberg's Sea Snake [1121]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Caretta caretta Loggerhead Turtle [1763]	Endangered	Foraging, feeding or related behaviour known to occur within area	In buffer area only
Chelonia mydas Green Turtle [1765]	Vulnerable	Breeding known to occur within area	In buffer area only
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat may occur within area	In feature area
Dermochelys coriacea Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Breeding likely to occur within area	In buffer area only
Emydocephalus annulatus Eastern Turtle-headed Sea Snake [1125]		Species or species habitat may occur within area	In buffer area only
Ephalophis greyae as Ephalophis greyi Mangrove Sea Snake [93738]		Species or species habitat may occur within area	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Breeding known to occur within area	In buffer area only
Hydrelaps darwiniensis Port Darwin Sea Snake, Black-ringed Mangrove Sea Snake [1100]		Species or species habitat may occur within area	In buffer area only
Hydrophis czeblukovi Fine-spined Sea Snake [59233]		Species or species habitat may occur within area	In buffer area only
Hydrophis elegans Elegant Sea Snake, Bar-bellied Sea Snake [1104]		Species or species habitat may occur within area	In buffer area only
Hydrophis kingii as Disteira kingii Spectacled Sea Snake [93511]		Species or species habitat may occur within area	In buffer area only
Hydrophis macdowelli as Hydrophis mcdowelli MacDowell's Sea Snake, Small-headed Sea Snake, [75601]		Species or species habitat may occur within area	In buffer area only

Scientific Name	Threatened Category	Presence Text	Buffer Status
Hydrophis major as Disteira major Olive-headed Sea Snake [93512]		Species or species habitat may occur within area	In buffer area only
Hydrophis ornatus Spotted Sea Snake, Ornate Reef Sea Snake [1111]		Species or species habitat may occur within area	In buffer area only
Hydrophis peronii as Acalyptophis peronii Horned Sea Snake [93509]		Species or species habitat may occur within area	In buffer area only
Hydrophis platura as Pelamis platurus Yellow-bellied Sea Snake [93746]		Species or species habitat may occur within area	In buffer area only
Hydrophis stokesii as Astrotia stokesii Stokes' Sea Snake [93510]		Species or species habitat may occur within area	In buffer area only
Natator depressus Flatback Turtle [59257]	Vulnerable	Breeding known to occur within area	In buffer area only

Whales and Other Cetaceans			[Resource Information]
Current Scientific Name	Status	Type of Presence	Buffer Status
Mammal			
Balaenoptera acutorostrata Minke Whale [33]		Species or species habitat may occur within area	In buffer area only
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area	In buffer area only
Balaenoptera musculus Blue Whale [36]	Endangered	Species or species habitat likely to occur within area	In buffer area only
Balaenoptera omurai Omura's Whale [87136]		Species or species habitat likely to occur within area	In buffer area only
Delphinus delphis Common Dolphin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area	In buffer area only

Current Scientific Name	Status	Type of Presence	Buffer Status
Grampus griseus Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area	In buffer area only
Megaptera novaeangliae Humpback Whale [38]		Species or species habitat known to occur within area	In buffer area only
Orcaella heinsohni Australian Snubfin Dolphin [81322]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area	In buffer area only
Sousa sahulensis Australian Humpback Dolphin [87942]	Vulnerable	Species or species habitat likely to occur within area	In buffer area only
Stenella attenuata Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area	In buffer area only
Tursiops aduncus Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin [68418]		Species or species habitat likely to occur within area	In buffer area only
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat known to occur within area	In buffer area only
Tursiops truncatus s. str. Bottlenose Dolphin [68417]		Species or species habitat may occur within area	In buffer area only

Habitat Critical to the Survival of Marine Turtles			[Resource Information]
Scientific Name	Behaviour	Presence	Buffer Status
All year (Jun - Aug)			
Natator depressus Flatback Turtle [59257]	Nesting	Known to occur	In buffer area only

Extra Information

Nationally Important Wetlands		[Resource Information]
Wetland Name	State	Buffer Status
De Grey River	WA	In buffer area only
Leslie (Port Hedland) Saltfields System	WA	In buffer area only

EPBC Act Referrals				[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
East Pilbara Network Stage 1	2024/09933		Completed	In buffer area only
Hemi Gold Project	2023/09556		Referral Decision	In buffer area only
Lynas Find Project	2023/09471		Post-Approval	In buffer area only
Miralga Creek Project, Pilbara region, WA	2019/8601		Post-Approval	In buffer area only
Panoram Copper-Zinc mine	2007/3310		Completed	In buffer area only
Port Hedland Green Steel Project - Stage 1	2023/09764		Assessment	In buffer area only
Port Hedland Solar Project	2022/09241		Post-Approval	In buffer area only
Ridley Magnetite Project	2023/09477		Referral Decision	In buffer area only
Controlled action				
Abydos Direct Shipping Ore (DSO) Project, Stage 2	2013/6985	Controlled Action	Post-Approval	In buffer area only
Abydos Direct Shipping Ore Project	2012/6345	Controlled Action	Post-Approval	In buffer area only
Additional Rail Infrastructure between Herb Elliott Port Facility and Cloudbreak Mine Site	2010/5513	Controlled Action	Post-Approval	In buffer area only
Development of a Quarry Operation to extract gravel, sand and pindan material	2012/6636	Controlled Action	Post-Approval	In buffer area only
Great Northern Pipeline - 630 km buried gas pipeline	2009/5257	Controlled Action	Completed	In buffer area only
Mt Dove Direct Shipping Ore Project	2011/5848	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
North Star Hematite Project	2012/6530	Controlled Action	Post-Approval	In buffer area only
North Star Magnetite Project	2012/6689	Controlled Action	Post-Approval	In buffer area only
Poondano Iron Ore Project	2010/5759	Controlled Action	Post-Approval	In buffer area only
Port Hedland Outer Harbour Development and associated marine and terrestrial in	2008/4159	Controlled Action	Post-Approval	In buffer area only
Port Hedland Spoilbank Marina, WA	2019/8520	Controlled Action	Post-Approval	In buffer area only
Roy Hill to Port Hedland Rail Line and Associated Infrastructure	2010/5424	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
150m Boodarie Gas Lateral Pipeline	2014/7116	Not Controlled Action	Completed	In buffer area only
Bulgarene Borefield	2006/2507	Not Controlled Action	Completed	In buffer area only
Construction of a Commodities Berth, Wharf and Associated Infrastructure	2008/4129	Not Controlled Action	Completed	In buffer area only
Development of iron ore resources in eastern Pilbara region, including port at P	2004/1562	Not Controlled Action	Completed	In buffer area only
Horizon Power South Hedland Transmission Line, WA	2012/6551	Not Controlled Action	Completed	In buffer area only
Improving rabbit biocontrol: releasing another strain of RHDV, sthrn two thirds of Australia	2015/7522	Not Controlled Action	Completed	In feature area
Iron Bridge Port Facility, Port Hedland, WA	2015/7565	Not Controlled Action	Completed	In buffer area only
Pardoo Direct Shipping Ore (DSO) Project	2007/3539	Not Controlled Action	Completed	In buffer area only
Pilbara Bulk Ore Transport System Project, WA	2016/7637	Not Controlled Action	Completed	In buffer area only
Pilbara Transmission Project, Pilbara, WA	2018/8349	Not Controlled Action	Completed	In buffer area only
Pippingarra Quarry Expansion Works	2012/6461	Not Controlled Action	Completed	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action				
Port Hedland Channel Risk and Optimisation Project, WA	2017/7915	Not Controlled Action	Completed	In buffer area only
Port Hedland Power Station Conversion Project	2011/6080	Not Controlled Action	Completed	In buffer area only
Rail and Port Facilities	2001/474	Not Controlled Action	Completed	In buffer area only
Relocation of approx. 670m of the Pilbara Energy Pipeline	2013/6756	Not Controlled Action	Completed	In buffer area only
South Hedland Power Station WA	2011/5929	Not Controlled Action	Completed	In buffer area only
Sulphur Springs Copper-Zinc Mining Project, Pilbara Region, WA	2013/6899	Not Controlled Action	Completed	In buffer area only
Telfer Gold Mine Project - Mine and Borefield Extensions and Upgrade of Storage	2002/787	Not Controlled Action	Completed	In buffer area only
Telfer Gold Mine Project - Power Supply and Infrastructure Corridor	2002/786	Not Controlled Action	Completed	In buffer area only
Walkway Lighting Upgrade	2009/4965	Not Controlled Action	Completed	In buffer area only
Wilga Quarry Expansion	2020/8726	Not Controlled Action	Completed	In buffer area only
Wodgina Lithium Mine Expansion, Pilbara, NT	2018/8194	Not Controlled Action	Completed	In buffer area only
Not controlled action (particular manner)				
Additional Rail Infrastructure	2012/6314	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Atlas Boodarie Link Project, WA	2012/6506	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Dredging of marine sediment to enable construction of eight berths and a turnin	2010/5678	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Mine the Hercules Deposit under the Wodgina Direct Shipping Ore Project Stage 3	2013/6789	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Nelson Point Dredging	2009/4920	Not Controlled Action (Particular	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
		Manner)		
Offshore Fibre Optic Cable Network Construction & Operation, Port Hedland WA to Darwin NT	2014/7223	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Port of Port Hedland channel marker replacement project, WA	2017/8010	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Realignment of the Great Northern Highway	2010/5793	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
upgrade of 3 community recreation sites	2005/2349	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only
Referral decision				
Mine the Hercules Deposit under the Wodgina Direct Shipping Ore Project ??? Stage 3	2013/6777	Referral Decision	Completed	In buffer area only
Outer Harbour Development and associated marine and terrestial infrastructure	2008/4148	Referral Decision	Completed	In buffer area only

Biologically Important Areas			[Resource Information]
Scientific Name	Behaviour	Presence	Buffer Status
Marine Turtles			
Caretta caretta Loggerhead Turtle [1763]	Foraging	Known to occur	In buffer area only
Chelonia mydas Green Turtle [1765]	Foraging	Known to occur	In buffer area only
Eretmochelys imbricata Hawksbill Turtle [1766]	Foraging	Known to occur	In buffer area only
Natator depressus Flatback Turtle [59257]	Foraging	Known to occur	In buffer area only
Natator depressus Flatback Turtle [59257]	Internesting buffer	Known to occur	In buffer area only

Scientific Name	Behaviour	Presence	Buffer Status
Natator depressus Flatback Turtle [59257]	Nesting	Known to occur	In buffer area only
Seabirds			
Ardenna tenuirostris Short-tailed Shearwater [84292]	Breeding	Known to occur	In feature area
Fregata ariel Lesser Frigatebird [1012]	Breeding	Known to occur	In feature area
Whales			
Megaptera novaeangliae Humpback Whale [38]	Migration (north and south)	Known to occur	In buffer area only

Caveat

1 PURPOSE

This report is designed to assist in identifying the location of matters of national environmental significance (MNES) and other matters protected by the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) which may be relevant in determining obligations and requirements under the EPBC Act.

The report contains the mapped locations of:

- World and National Heritage properties;
- Wetlands of International and National Importance;
- Commonwealth and State/Territory reserves;
- distribution of listed threatened, migratory and marine species;
- listed threatened ecological communities; and
- other information that may be useful as an indicator of potential habitat value.

2 DISCLAIMER

This report is not intended to be exhaustive and should only be relied upon as a general guide as mapped data is not available for all species or ecological communities listed under the EPBC Act (see below). Persons seeking to use the information contained in this report to inform the referral of a proposed action under the EPBC Act should consider the limitations noted below and whether additional information is required to determine the existence and location of MNES and other protected matters.

Where data is available to inform the mapping of protected species, the presence type (e.g. known, likely or may occur) that can be determined from the data is indicated in general terms. It is the responsibility of any person using or relying on the information in this report to ensure that it is suitable for the circumstances of any proposed use. The Commonwealth cannot accept responsibility for the consequences of any use of the report or any part thereof. To the maximum extent allowed under governing law, the Commonwealth will not be liable for any loss or damage that may be occasioned directly or indirectly through the use of, or reliance on the contents of this report.

3 DATA SOURCES

Threatened ecological communities

For threatened ecological communities where the distribution is well known, maps are generated based on information contained in recovery plans, State vegetation maps and 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

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

Where little information is available for a 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 detailed distribution mapping methods are used to update these distributions when time permits.

4 LIMITATIONS

The following species and ecological communities have not been mapped and do not appear in this report:

- threatened species listed as extinct or considered vagrants;
- some recently listed species and ecological communities;
- some listed migratory and listed marine species, which are not listed as threatened species; and
- migratory species that are very widespread, vagrant, or only occur in Australia in small numbers.

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

- listed migratory and/or listed marine seabirds, which are not listed as threatened, have only been mapped for recorded breeding sites; and
- seals which have only been mapped for breeding sites near the Australian continent

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

Refer to the metadata for the feature group (using the Resource Information link) for the currency of the information.

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.

GOVERNMENT OF WESTERN AUSTRALIA

Dandjoo Species List Export

Created by Guest User on 18 Aug 2025

Source	Dandjoo – Department of Biodiversity, Conservation and Attractions
Method	User defined polygon: [[[[118.65234375000001, -20.314046078805447], [118.91601562500001, -20.180073420405833], [119.14398193359376, -20.1620298252759], [119.2730712890625, -20.19038310873841], [119.52301025390626, -20.378414806390168], [119.64385986328126, -20.630480629526975], [119.65759277343751, -20.96677406894936], [119.46807861328126, -21.100055903566272], [119.34997558593751, -21.128234841727725], [119.16870117187501, -21.18969756753532], [118.85284423828126, -21.14104168024597], [118.62487792968751, -21.071871616696278], [118.47381591796876, -20.833373320993264], [118.49578857421876, -20.45562182946398], [118.65234375000001, -20.314046078805447]]]].
Date time	2025-08-18T12:24:05.978539+08:00

Conservation status summary	Count
EN	1
None	776
P1	12
P2	3
P3	25
P4	4
Total	**821**

Kingdoms	Count
Plantae	821
Total unique species	**821**

#	Class	Family	Name	Establishment	Conservation
Plantae					
1	Charophyceae	Characeae Gray	Chara L.		
2	Charophyceae	Characeae Gray	Chara ecklonii KÃ¼tz.	native	
3	Charophyceae	Characeae Gray	Chara lucida (A.Braun) Casanova & Karol		
4	Charophyceae	Characeae Gray	Chara porteri Casanova	native	
5	Charophyceae	Characeae Gray	Chara zeylanica Willd.		
6	Charophyceae	Characeae Gray	Nitella C.Agardh		
7	Charophyceae	Characeae Gray	Nitella micklei Casanova	native	
8	Liliopsida	Centrolepidaceae Endl.	Centrolepis banksii (R.Br.) Poir.	native	
9	Liliopsida	Commelinaceae Mirb.	Commelina ensifolia R.Br.	native	
10	Liliopsida	Commelinaceae Mirb.	Murdannia graminea (R.Br.) G.Brueckn.	native	
11	Liliopsida	Cyperaceae Juss.	Abildgaardia oxystachya (F.Muell.) K.L.Wilson & J.J.Bruhl	native	
12	Liliopsida	Cyperaceae Juss.	Bulbostylis barbata (Rottb.) C.B.Clarke	native	
13	Liliopsida	Cyperaceae Juss.	Bulbostylis burbidgeae K.L.Wilson	native	P4
14	Liliopsida	Cyperaceae Juss.	Bulbostylis turbinata S.T.Blake	native	
15	Liliopsida	Cyperaceae Juss.	Cyperus L.		
16	Liliopsida	Cyperaceae Juss.	Cyperus bifax C.B.Clarke *(Downs Nutgrass)*	native	
17	Liliopsida	Cyperaceae Juss.	Cyperus blakeanus K.L.Wilson	native	

18	Liliopsida	Cyperaceae Juss.	Cyperus castaneus Willd.	native	
19	Liliopsida	Cyperaceae Juss.	Cyperus conicus (R.Br.) Boeckeler	native	
20	Liliopsida	Cyperaceae Juss.	Cyperus cunninghamii (C.B.Clarke) C.A.Gardner	native	
21	Liliopsida	Cyperaceae Juss.	Cyperus cunninghamii (C.B.Clarke) C.A.Gardner subsp. cunninghamii	native	
22	Liliopsida	Cyperaceae Juss.	Cyperus difformis L.	native	
23	Liliopsida	Cyperaceae Juss.	Cyperus hesperius K.L.Wilson	native	
24	Liliopsida	Cyperaceae Juss.	Cyperus iria L.	native	
25	Liliopsida	Cyperaceae Juss.	Cyperus ixiocarpus F.Muell.	native	
26	Liliopsida	Cyperaceae Juss.	Cyperus leptocarpus (F.Muell.) Bauters	native	
27	Liliopsida	Cyperaceae Juss.	Cyperus macrostachyos Lam.	native	
28	Liliopsida	Cyperaceae Juss.	Cyperus microcephalus subsp. saxicola K.L.Wilson	native	
29	Liliopsida	Cyperaceae Juss.	Cyperus pulchellus R.Br.	native	
30	Liliopsida	Cyperaceae Juss.	Cyperus pygmaeus Rottb.	native	
31	Liliopsida	Cyperaceae Juss.	Cyperus rotundus L.	alien	
32	Liliopsida	Cyperaceae Juss.	Cyperus squarrosus L.	native	
33	Liliopsida	Cyperaceae Juss.	Cyperus vaginatus R.Br. *(Stiffleaf Sedge)*	native	
34	Liliopsida	Cyperaceae Juss.	Eleocharis atropurpurea (Retz.) Kunth	native	
35	Liliopsida	Cyperaceae Juss.	Fimbristylis Vahl		
36	Liliopsida	Cyperaceae Juss.	Fimbristylis caespitosa R.Br.	native	
37	Liliopsida	Cyperaceae Juss.	Fimbristylis depauperata	native	
38	Liliopsida	Cyperaceae Juss.	Fimbristylis dichotoma Vahl	native	
39	Liliopsida	Cyperaceae Juss.	Fimbristylis elegans S.T.Blake	native	
40	Liliopsida	Cyperaceae Juss.	Fimbristylis leucocolea Benth.	native	
41	Liliopsida	Cyperaceae Juss.	Fimbristylis littoralis Gaudich.	native	
42	Liliopsida	Cyperaceae Juss.	Fimbristylis microcarya F.Muell.	native	
43	Liliopsida	Cyperaceae Juss.	Fimbristylis neilsonii F.Muell.	native	
44	Liliopsida	Cyperaceae Juss.	Fimbristylis nuda Boeckeler	native	
45	Liliopsida	Cyperaceae Juss.	Fimbristylis rara R.Br.	native	
46	Liliopsida	Cyperaceae Juss.	Fimbristylis simulans Latz	native	
47	Liliopsida	Cyperaceae Juss.	Fuirena ciliaris (L.) Roxb.	native	
48	Liliopsida	Cyperaceae Juss.	Schoenoplectiella dissachantha (S.T.Blake) Lye	native	
49	Liliopsida	Cyperaceae Juss.	Schoenoplectiella laevis (S.T.Blake) Lye	native	
50	Liliopsida	Cyperaceae Juss.	Schoenoplectiella lateriflora (J.F.Gmel.) Lye	native	
51	Liliopsida	Cyperaceae Juss.	Schoenoplectus subulatus	native	
52	Liliopsida	Cyperaceae Juss.	Scleria rugosa R.Br.	native	
53	Liliopsida	Hemerocallidaceae R.Br.	Corynotheca pungens R.J.F.Hend. *(Spiny Sand Lily)*	native	
54	Liliopsida	Hemerocallidaceae R.Br.	Tricoryne corynothecoides Keighery	native	
55	Liliopsida	Hydrocharitaceae Juss.	Najas L.		
56	Liliopsida	Hydrocharitaceae Juss.	Najas marina L.	native	
57	Liliopsida	Hydrocharitaceae Juss.	Najas pseudograminea W.Koch	native	
58	Liliopsida	Hydrocharitaceae Juss.	Najas tenuifolia R.Br.	native	
59	Liliopsida	Hydrocharitaceae Juss.	Vallisneria annua S.W.L.Jacobs & K.A.Frank	native	
60	Liliopsida	Hydrocharitaceae Juss.	Vallisneria nana R.Br.	native	
61	Liliopsida	Poaceae Barnhart	Alloteropsis semialata (R.Br.) Hitchc. *(Cockatoo Grass)*	native	
62	Liliopsida	Poaceae Barnhart	Aristida burbidgeae	native	
63	Liliopsida	Poaceae Barnhart	Aristida contorta F.Muell. *(Bunched Kerosene Grass)*	native	
64	Liliopsida	Poaceae Barnhart	Aristida holathera Domin	native	
65	Liliopsida	Poaceae Barnhart	Aristida holathera Domin var. holathera	native	
66	Liliopsida	Poaceae Barnhart	Aristida hygrometrica R.Br. *(Northern Kerosene Grass)*	native	
67	Liliopsida	Poaceae Barnhart	Aristida inaequiglumis Domin *(Feathertop Threeawn)*	native	
68	Liliopsida	Poaceae Barnhart	Aristida latifolia Domin *(Feathertop Wiregrass)*	native	
69	Liliopsida	Poaceae Barnhart	Bothriochloa ewartiana	native	
70	Liliopsida	Poaceae Barnhart	Cenchrus ciliaris L. *(Buffel Grass)*	alien	
71	Liliopsida	Poaceae Barnhart	Cenchrus echinatus L. *(Burrgrass)*	alien	

72	Liliopsida	Poaceae Barnhart	Cenchrus pennisetiformis Steud.	native	
73	Liliopsida	Poaceae Barnhart	Cenchrus setiger Vahl *(Birdwood Grass)*	alien	
74	Liliopsida	Poaceae Barnhart	Chloris barbata Sw. *(Purpletop Chloris)*	alien	
75	Liliopsida	Poaceae Barnhart	Chloris pectinata Benth. *(Comb Chloris)*	native	
76	Liliopsida	Poaceae Barnhart	Chloris pumilio R.Br.	mixed	
77	Liliopsida	Poaceae Barnhart	Chloris virgata Sw. *(Feathertop Rhodes Grass)*	alien	
78	Liliopsida	Poaceae Barnhart	Chrysopogon fallax S.T.Blake *(Golden Beard Grass)*	native	
79	Liliopsida	Poaceae Barnhart	Cymbopogon Spreng.		
80	Liliopsida	Poaceae Barnhart	Cymbopogon ambiguus (Hack.) A.Camus *(Scentgrass)*	native	
81	Liliopsida	Poaceae Barnhart	Cymbopogon obtectus S.T.Blake *(Silkyheads)*	native	
82	Liliopsida	Poaceae Barnhart	Cynodon convergens F.Muell. *(Spider Grass)*	native	
83	Liliopsida	Poaceae Barnhart	Cynodon dactylon (L.) Pers. *(Couch)*	alien	
84	Liliopsida	Poaceae Barnhart	Cynodon dactylon (L.) Pers. var. dactylon		
85	Liliopsida	Poaceae Barnhart	Cynodon prostratus	native	
86	Liliopsida	Poaceae Barnhart	Dactyloctenium radulans (R.Br.) P.Beauv. *(Button Grass)*	native	
87	Liliopsida	Poaceae Barnhart	Dichanthium fecundum S.T.Blake	native	
88	Liliopsida	Poaceae Barnhart	Dichanthium sericeum subsp. humilius (J.M.Black) B.K.Simon	native	
89	Liliopsida	Poaceae Barnhart	Digitaria ammophila (Benth.) Hughes *(Silky Umbrella Grass)*	native	
90	Liliopsida	Poaceae Barnhart	Digitaria brownii (Roem. & Schult.) Hughes	native	
91	Liliopsida	Poaceae Barnhart	Digitaria ciliaris (Retz.) Koeler	alien	
92	Liliopsida	Poaceae Barnhart	Digitaria ctenantha (F.Muell.) Hughes	native	
93	Liliopsida	Poaceae Barnhart	Diplachne fusca (L.) Roem. & Schult.	mixed	
94	Liliopsida	Poaceae Barnhart	Diplachne fusca (L.) Roem. & Schult. subsp. fusca	native	
95	Liliopsida	Poaceae Barnhart	Echinochloa colona (L.) Link	alien	
96	Liliopsida	Poaceae Barnhart	Elytrophorus spicatus (Willd.) A.Camus *(Spikegrass)*	native	
97	Liliopsida	Poaceae Barnhart	Enneapogon caerulescens (Gaudich.) N.T.Burb. *(Limestone Grass)*	native	
98	Liliopsida	Poaceae Barnhart	Enneapogon lindleyanus (Domin) C.E.Hubb.	native	
99	Liliopsida	Poaceae Barnhart	Enneapogon polyphyllus (Domin) N.T.Burb.	native	
100	Liliopsida	Poaceae Barnhart	Enteropogon ramosus B.K.Simon	native	
101	Liliopsida	Poaceae Barnhart	Eragrostis cilianensis (All.) Janch. *(Stinkgrass)*	alien	
102	Liliopsida	Poaceae Barnhart	Eragrostis crateriformis Lazarides	native	
103	Liliopsida	Poaceae Barnhart	Eragrostis cumingii Steud. *(Cuming's Love Grass)*	native	
104	Liliopsida	Poaceae Barnhart	Eragrostis curvula (Schrad.) Nees *(African Lovegrass)*	alien	
105	Liliopsida	Poaceae Barnhart	Eragrostis desertorum Domin *(Desert Lovegrass)*	native	
106	Liliopsida	Poaceae Barnhart	Eragrostis dielsii Pilg. *(Mallee Lovegrass)*	native	
107	Liliopsida	Poaceae Barnhart	Eragrostis elongata (Willd.) J.Jacq. *(Clustered Lovegrass)*	native	
108	Liliopsida	Poaceae Barnhart	Eragrostis eriopoda Benth. *(Woollybutt Grass)*	native	
109	Liliopsida	Poaceae Barnhart	Eragrostis exigua Lazarides	native	
110	Liliopsida	Poaceae Barnhart	Eragrostis falcata (Gaudich.) Steud. *(Sickle Lovegrass)*	native	
111	Liliopsida	Poaceae Barnhart	Eragrostis fallax Lazarides	native	
112	Liliopsida	Poaceae Barnhart	Eragrostis minor Host *(Smaller Stinkgrass)*	alien	
113	Liliopsida	Poaceae Barnhart	Eragrostis pergracilis S.T.Blake	native	
114	Liliopsida	Poaceae Barnhart	Eragrostis pilosa (L.) P.Beauv.	alien	
115	Liliopsida	Poaceae Barnhart	Eragrostis setifolia Nees *(Neverfail Grass)*	native	
116	Liliopsida	Poaceae Barnhart	Eragrostis speciosa (Roem. & Schult.) Steud. *(Handsome Lovegrass)*	native	
117	Liliopsida	Poaceae Barnhart	Eragrostis tenellula (Kunth) Steud. *(Delicate Lovegrass)*	native	
118	Liliopsida	Poaceae Barnhart	Eragrostis xerophila Domin *(Knotty-butt Neverfail)*	native	
119	Liliopsida	Poaceae Barnhart	Eriachne R.Br.		
120	Liliopsida	Poaceae Barnhart	Eriachne aristidea F.Muell.	native	
121	Liliopsida	Poaceae Barnhart	Eriachne benthamii Hartley *(Swamp Wanderrie)*	native	
122	Liliopsida	Poaceae Barnhart	Eriachne ciliata R.Br. *(Slender Wandarrie Grass)*	native	
123	Liliopsida	Poaceae Barnhart	Eriachne flaccida Hartley *(Claypan Grass)*	native	
124	Liliopsida	Poaceae Barnhart	Eriachne glauca R.Br. *(Pan Wandarrie Grass)*	native	
125	Liliopsida	Poaceae Barnhart	Eriachne glauca R.Br. var. glauca	native	

126	Liliopsida	Poaceae Barnhart	Eriachne helmsii Hartley *(Buck Wanderrie Grass)*	native	
127	Liliopsida	Poaceae Barnhart	Eriachne lanata Lazarides	native	
128	Liliopsida	Poaceae Barnhart	Eriachne melicacea F.Muell.	native	
129	Liliopsida	Poaceae Barnhart	Eriachne mucronata R.Br. *(Mountain Wanderrie Grass)*	native	
130	Liliopsida	Poaceae Barnhart	Eriachne obtusa R.Br. *(Northern Wandarrie Grass)*	native	
131	Liliopsida	Poaceae Barnhart	Eriachne pulchella Domin *(Pretty Wanderrie)*	native	
132	Liliopsida	Poaceae Barnhart	Eriachne pulchella subsp. dominii (Hartley) Lazarides	native	
133	Liliopsida	Poaceae Barnhart	Eriachne sp. Dugald River (B.K. Simon+ 3007)	native	
134	Liliopsida	Poaceae Barnhart	Eriachne sulcata Hartley	native	
135	Liliopsida	Poaceae Barnhart	Eriachne tenuiculmis Hartley	native	
136	Liliopsida	Poaceae Barnhart	Eriochloa procera (Retz.) C.E.Hubb.	native	
137	Liliopsida	Poaceae Barnhart	Eriochloa pseudoacrotricha (Thell.) J.M.Black *(Perennial Cupgrass)*	native	
138	Liliopsida	Poaceae Barnhart	Eulalia aurea (Bory) Kunth	native	
139	Liliopsida	Poaceae Barnhart	Heteropogon contortus (L.) Roem. & Schult. *(Bunch Speargrass)*	native	
140	Liliopsida	Poaceae Barnhart	Iseilema dolichotrichum C.E.Hubb.	native	
141	Liliopsida	Poaceae Barnhart	Iseilema eremaeum S.T.Blake	native	
142	Liliopsida	Poaceae Barnhart	Iseilema membranaceum (Lindl.) Domin	native	
143	Liliopsida	Poaceae Barnhart	Iseilema vaginiflorum Domin *(Red Flinders Grass)*	native	
144	Liliopsida	Poaceae Barnhart	Leptochloa digitata (R.Br.) Domin *(Whorled Cane Grass)*	native	
145	Liliopsida	Poaceae Barnhart	Melinis repens (Willd.) Zizka	alien	
146	Liliopsida	Poaceae Barnhart	Neurachne muelleri Hack. *(Northern Mulga Grass)*	native	
147	Liliopsida	Poaceae Barnhart	Panicum australiense Domin *(Bunch Panic)*	native	
148	Liliopsida	Poaceae Barnhart	Panicum australiense Domin var. australiense	native	
149	Liliopsida	Poaceae Barnhart	Panicum decompositum R.Br. *(Kaltu-kaltu, Native Millet)*	native	
150	Liliopsida	Poaceae Barnhart	Paspalidium clementii (Domin) C.E.Hubb. *(Clements Paspalidium)*	native	
151	Liliopsida	Poaceae Barnhart	Paspalidium rarum (R.Br.) Hughes *(Rare Paspalidium)*	native	
152	Liliopsida	Poaceae Barnhart	Paspalidium tabulatum (Hack.) C.E.Hubb.	native	
153	Liliopsida	Poaceae Barnhart	Perotis rara R.Br. *(Comet Grass)*	native	
154	Liliopsida	Poaceae Barnhart	Schizachyrium fragile (R.Br.) A.Camus *(Senale Redgrass)*	native	
155	Liliopsida	Poaceae Barnhart	Setaria surgens Stapf *(Pigeon Grass)*	native	
156	Liliopsida	Poaceae Barnhart	Setaria verticillata (L.) P.Beauv. *(Whorled Pigeon Grass)*	alien	
157	Liliopsida	Poaceae Barnhart	Sorghum plumosum (R.Br.) P.Beauv. *(Plume Canegrass)*	native	
158	Liliopsida	Poaceae Barnhart	Sporobolus actinocladus (F.Muell.) F.Muell. *(Ray Grass)*	native	
159	Liliopsida	Poaceae Barnhart	Sporobolus australasicus Domin *(Fairy Grass)*	native	
160	Liliopsida	Poaceae Barnhart	Sporobolus mitchellii (Trin.) S.T.Blake *(Ratstail Couch)*	native	
161	Liliopsida	Poaceae Barnhart	Themeda sp. Hamersley Station (M.E. Trudgen 11431)	native	P3
162	Liliopsida	Poaceae Barnhart	Themeda sp. Panorama (J. Nelson et al. NS 102)	native	P1
163	Liliopsida	Poaceae Barnhart	Themeda triandra Forssk.	native	
164	Liliopsida	Poaceae Barnhart	Tragus australianus S.T.Blake *(Small Burrgrass)*	native	
165	Liliopsida	Poaceae Barnhart	Triodia R.Br.		
166	Liliopsida	Poaceae Barnhart	Triodia angusta N.T.Burb.	native	
167	Liliopsida	Poaceae Barnhart	Triodia basedowii E.Pritz. *(Lobed Spinifex)*	native	
168	Liliopsida	Poaceae Barnhart	Triodia basitricha M.D.Barrett	native	P3
169	Liliopsida	Poaceae Barnhart	Triodia brizoides N.T.Burb.	native	
170	Liliopsida	Poaceae Barnhart	Triodia chichesterensis B.M.Anderson	native	P3
171	Liliopsida	Poaceae Barnhart	Triodia degreyensis M.D.Barrett	native	P1
172	Liliopsida	Poaceae Barnhart	Triodia epactia S.W.L.Jacobs	native	
173	Liliopsida	Poaceae Barnhart	Triodia lanigera Domin	native	
174	Liliopsida	Poaceae Barnhart	Triodia longiceps J.M.Black *(Giant Grey Spinifex)*	native	
175	Liliopsida	Poaceae Barnhart	Triodia pungens R.Br. *(Soft Spinifex)*	native	
176	Liliopsida	Poaceae Barnhart	Triodia schinzii (Henrard) Lazarides	native	
177	Liliopsida	Poaceae Barnhart	Triodia secunda N.T.Burb.	native	
178	Liliopsida	Poaceae Barnhart	Triodia wiseana C.A.Gardner *(Limestone Spinifex)*	native	
179	Liliopsida	Poaceae Barnhart	Tripogonella loliiformis (F.Muell.) P.M.Peterson & Romasch. *(Five Minute Grass)*	native	

180	Liliopsida	Poaceae Barnhart	Urochloa P.Beauv.		
181	Liliopsida	Poaceae Barnhart	Urochloa distachyos (L.) T.Q.Nguyen	native	
182	Liliopsida	Poaceae Barnhart	Urochloa holosericea subsp. velutina R.D.Webster	native	
183	Liliopsida	Poaceae Barnhart	Urochloa occidentalis (C.A.Gardner & C.E.Hubb.) B.K.Simon var. occidentalis	native	
184	Liliopsida	Poaceae Barnhart	Urochloa piligera (Benth.) R.D.Webster	native	
185	Liliopsida	Poaceae Barnhart	Urochloa pubigera (Roem. & Schult.) R.D.Webster	native	
186	Liliopsida	Poaceae Barnhart	Whiteochloa cymbiformis (Hughes) B.K.Simon	native	
187	Liliopsida	Poaceae Barnhart	Xerochloa barbata R.Br. *(Rice Grass)*	native	
188	Liliopsida	Poaceae Barnhart	Xerochloa imberbis R.Br. *(Rice Grass)*	native	
189	Liliopsida	Potamogetonaceae Bercht. & J. Presl	Stuckenia pectinata (L.) BÃ¶rner *(Fennel Pondweed)*	native	
190	Liliopsida	Restionaceae R.Br.	Lepidobolus quadratus B.G.Briggs & L.A.S.Johnson	native	P3
191	Liliopsida	Typhaceae Juss.	Typha domingensis Pers. *(Bulrush)*	native	
192	Magnoliopsida	Acanthaceae Juss.	Rostellularia adscendens var. clementii (Domin) R.M.Barker	native	
193	Magnoliopsida	Aizoaceae Martinov	Carpobrotus sp. Thevenard Island (M. White 050)	native	P3
194	Magnoliopsida	Aizoaceae Martinov	Trianthema L.		
195	Magnoliopsida	Aizoaceae Martinov	Trianthema cusackianum F.Muell.	native	
196	Magnoliopsida	Aizoaceae Martinov	Trianthema glossostigmum F.Muell.	native	
197	Magnoliopsida	Aizoaceae Martinov	Trianthema oxycalyptrum F.Muell. var. oxycalyptrum	native	
198	Magnoliopsida	Aizoaceae Martinov	Trianthema pilosum F.Muell.	native	
199	Magnoliopsida	Aizoaceae Martinov	Trianthema triquetrum Willd. *(Red Spinach)*	native	
200	Magnoliopsida	Aizoaceae Martinov	Trianthema turgidifolium F.Muell.	native	
201	Magnoliopsida	Aizoaceae Martinov	Zaleya galericulata (Melville) H.Eichler subsp. galericulata	native	
202	Magnoliopsida	Amaranthaceae Juss.	Achyranthes aspera L. *(Chaff Flower)*	native	
203	Magnoliopsida	Amaranthaceae Juss.	Aerva javanica (Burm.f.) Schult.	alien	
204	Magnoliopsida	Amaranthaceae Juss.	Alternanthera angustifolia R.Br.	native	
205	Magnoliopsida	Amaranthaceae Juss.	Alternanthera denticulata	native	
206	Magnoliopsida	Amaranthaceae Juss.	Alternanthera denticulata R.Br. var. denticulata		
207	Magnoliopsida	Amaranthaceae Juss.	Alternanthera nana R.Br. *(Hairy Joyweed)*	native	
208	Magnoliopsida	Amaranthaceae Juss.	Alternanthera pungens Kunth *(Khaki Weed)*	alien	
209	Magnoliopsida	Amaranthaceae Juss.	Amaranthus L.		
210	Magnoliopsida	Amaranthaceae Juss.	Amaranthus interruptus R.Br.	native	
211	Magnoliopsida	Amaranthaceae Juss.	Amaranthus undulatus R.Br.	native	
212	Magnoliopsida	Amaranthaceae Juss.	Gomphrena affinis subsp. pilbarensis J.Palmer	native	
213	Magnoliopsida	Amaranthaceae Juss.	Gomphrena canescens	native	
214	Magnoliopsida	Amaranthaceae Juss.	Gomphrena cunninghamii (Moq.) Druce	native	
215	Magnoliopsida	Amaranthaceae Juss.	Gomphrena leptoclada Benth.	native	
216	Magnoliopsida	Amaranthaceae Juss.	Gomphrena leptoclada Benth. subsp. leptoclada	native	
217	Magnoliopsida	Amaranthaceae Juss.	Gomphrena leptophylla (Benth.) J.Palmer	native	P3
218	Magnoliopsida	Amaranthaceae Juss.	Gomphrena pusilla Benth.	native	P2
219	Magnoliopsida	Amaranthaceae Juss.	Gomphrena sordida	native	
220	Magnoliopsida	Amaranthaceae Juss.	Gomphrena tenella (Moq.) Benth.	native	
221	Magnoliopsida	Amaranthaceae Juss.	Ptilotus arthrolasius F.Muell.	native	
222	Magnoliopsida	Amaranthaceae Juss.	Ptilotus astrolasius F.Muell.	native	
223	Magnoliopsida	Amaranthaceae Juss.	Ptilotus auriculifolius (Moq.) F.Muell.	native	
224	Magnoliopsida	Amaranthaceae Juss.	Ptilotus axillaris (Benth.) F.Muell.	native	
225	Magnoliopsida	Amaranthaceae Juss.	Ptilotus calostachyus F.Muell. *(Weeping Mulla Mulla)*	native	
226	Magnoliopsida	Amaranthaceae Juss.	Ptilotus clementii (Farmar) Benl *(Tassel Top)*	native	
227	Magnoliopsida	Amaranthaceae Juss.	Ptilotus exaltatus Nees *(Tall Mulla Mulla)*	native	
228	Magnoliopsida	Amaranthaceae Juss.	Ptilotus fusiformis (R.Br.) Poir.	native	
229	Magnoliopsida	Amaranthaceae Juss.	Ptilotus gomphrenoides Benth.	native	
230	Magnoliopsida	Amaranthaceae Juss.	Ptilotus helipteroides (F.Muell.) F.Muell. *(Hairy Mulla Mulla)*	native	
231	Magnoliopsida	Amaranthaceae Juss.	Ptilotus incanus (R.Br.) Poir.	native	
232	Magnoliopsida	Amaranthaceae Juss.	Ptilotus mollis Benl	native	P4

233	Magnoliopsida	Amaranthaceae Juss.	Ptilotus murrayi F.Muell.	native	
234	Magnoliopsida	Amaranthaceae Juss.	Ptilotus nobilis (Lindl.) F.Muell. *(Tall Mulla Mulla)*	native	
235	Magnoliopsida	Amaranthaceae Juss.	Ptilotus obovatus (Gaudich.) F.Muell.	native	
236	Magnoliopsida	Amaranthaceae Juss.	Ptilotus polystachyus (Gaudich.) F.Muell. *(Prince of Wales Feather)*	native	
237	Magnoliopsida	Amaranthaceae Juss.	Ptilotus xerophilus T.Hammer & R.W.Davis	native	
238	Magnoliopsida	Amaranthaceae Juss.	Surreya diandra (R.Br.) R.Masson & G.Kadereit	native	
239	Magnoliopsida	Apocynaceae Juss.	Calotropis procera (Aiton) W.T.Aiton *(Calotrope)*	alien	
240	Magnoliopsida	Apocynaceae Juss.	Carissa lanceolata R.Br. *(Conkerberry)*	native	
241	Magnoliopsida	Apocynaceae Juss.	Cynanchum floribundum R.Br. *(Dumara Bush)*	native	
242	Magnoliopsida	Apocynaceae Juss.	Cynanchum viminale subsp. australe (R.Br.) Meve & Liede *(Caustic Bush)*	native	
243	Magnoliopsida	Apocynaceae Juss.	Gymnanthera cunninghamii (Benth.) P.I.Forst.	native	P3
244	Magnoliopsida	Apocynaceae Juss.	Vincetoxicum carnosum (R.Br.) Benth.	native	
245	Magnoliopsida	Araliaceae Juss.	Trachymene oleracea (Domin) B.L.Burtt	native	
246	Magnoliopsida	Araliaceae Juss.	Trachymene oleracea (Domin) B.L.Burtt subsp. oleracea	native	
247	Magnoliopsida	Asteraceae Bercht. & J.Presl	Apowollastonia hamersleyensis Orchard	native	
248	Magnoliopsida	Asteraceae Bercht. & J.Presl	Blumea tenella DC.	native	
249	Magnoliopsida	Asteraceae Bercht. & J.Presl	Brachyscome Cass.		
250	Magnoliopsida	Asteraceae Bercht. & J.Presl	Calotis plumulifera F.Muell.	native	
251	Magnoliopsida	Asteraceae Bercht. & J.Presl	Centipeda minima (L.) A.Braun & Asch. *(Spreading Sneezeweed)*	native	
252	Magnoliopsida	Asteraceae Bercht. & J.Presl	Centipeda minima subsp. macrocephala N.G.Walsh	native	
253	Magnoliopsida	Asteraceae Bercht. & J.Presl	Flaveria trinervia (Spreng.) C.Mohr *(Speedy Weed)*	alien	
254	Magnoliopsida	Asteraceae Bercht. & J.Presl	Helichrysum oligochaetum F.Muell.	native	P1
255	Magnoliopsida	Asteraceae Bercht. & J.Presl	Minuria integerrima (DC.) Benth. *(Smooth Minuria)*	native	
256	Magnoliopsida	Asteraceae Bercht. & J.Presl	Olearia Moench		
257	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pentalepis trichodesmoides subsp. trichodesmoides	native	
258	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea dentex Benth.	native	
259	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea dunlopii Hunger	native	
260	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea ferdinandi-muelleri Domin	native	
261	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea longiseta A.R.Bean	native	
262	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea rubelliflora (F.Muell.) B.L.Rob.	native	
263	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pluchea tetranthera F.Muell.	native	
264	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon		
265	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon intermedium (DC.) A.R.Bean	native	
266	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon serrulatum var. velutinum (Ewart & O.B.Davies) Guillaumin	native	
267	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon sphacelatum (Labill.) F.Muell. *(Apple Bush)*	native	
268	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon sphaeranthoides (DC.) F.Muell.	native	
269	Magnoliopsida	Asteraceae Bercht. & J.Presl	Pterocaulon xenicum A.R.Bean	native	P3
270	Magnoliopsida	Asteraceae Bercht. &	Rhodanthe margarethae (F.Muell.) Paul G.Wilson	native	

		J.Presl			
271	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa		
272	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa bubakii (Domin) Dunlop	native	
273	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa decurrens (DC.) Dunlop	native	
274	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa macrocephala (F.Muell.) Dunlop	native	
275	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa odora (F.Muell.) Dunlop	native	
276	Magnoliopsida	Asteraceae Bercht. & J.Presl	Streptoglossa tenuiflora Dunlop	native	
277	Magnoliopsida	Asteraceae Bercht. & J.Presl	Vittadinia virgata N.T.Burb.	native	
278	Magnoliopsida	Asteraceae Bercht. & J.Presl	Waitzia acuminata Steetz var. acuminata	native	
279	Magnoliopsida	Asteraceae Bercht. & J.Presl	Xanthium occidentale Bertol. *(Noogoora Burr)*	alien	
280	Magnoliopsida	Bignoniaceae Juss.	Dolichandrone (Fenzl) Seem.		
281	Magnoliopsida	Bignoniaceae Juss.	Dolichandrone occidentalis Jackes	native	
282	Magnoliopsida	Boraginaceae Juss.	Ehretia saligna R.Br.	native	
283	Magnoliopsida	Boraginaceae Juss.	Ehretia saligna R.Br. var. saligna	native	
284	Magnoliopsida	Boraginaceae Juss.	Euploca Nutt.		
285	Magnoliopsida	Boraginaceae Juss.	Euploca chrysocarpa (Craven) M.W.Frohl. & M.W.Chase	native	
286	Magnoliopsida	Boraginaceae Juss.	Euploca cunninghamii (Benth.) M.W.Frohl. & M.W.Chase	native	
287	Magnoliopsida	Boraginaceae Juss.	Euploca diversifolia (Benth.) M.W.Frohl. & M.W.Chase	native	
288	Magnoliopsida	Boraginaceae Juss.	Euploca foliata (R.Br.) Feuillet	native	
289	Magnoliopsida	Boraginaceae Juss.	Euploca heterantha (F.Muell.) M.W.Frohl. & M.W.Chase	native	
290	Magnoliopsida	Boraginaceae Juss.	Euploca mutica (Domin) M.W.Frohl. & M.W.Chase	native	P3
291	Magnoliopsida	Boraginaceae Juss.	Euploca ovalifolia (Forssk.) Diane & Hilger	native	
292	Magnoliopsida	Boraginaceae Juss.	Euploca pachyphylla (Craven) M.W.Frohl. & M.W.Chase	native	
293	Magnoliopsida	Boraginaceae Juss.	Euploca parviantrum (Craven) M.W.Frohl. & M.W.Chase	native	P1
294	Magnoliopsida	Boraginaceae Juss.	Euploca skeleton (Craven) M.W.Frohl. & M.W.Chase	native	
295	Magnoliopsida	Boraginaceae Juss.	Euploca tanythrix (Craven) M.W.Frohl. & M.W.Chase	native	
296	Magnoliopsida	Boraginaceae Juss.	Euploca vestita (Benth.) M.W.Frohl. & M.W.Chase	native	
297	Magnoliopsida	Boraginaceae Juss.	Halgania solanacea F.Muell. var. solanacea	native	
298	Magnoliopsida	Boraginaceae Juss.	Heliotropium L.		
299	Magnoliopsida	Boraginaceae Juss.	Heliotropium ammophilum Craven	native	
300	Magnoliopsida	Boraginaceae Juss.	Heliotropium crispatum Benth.	native	
301	Magnoliopsida	Boraginaceae Juss.	Heliotropium europaeum L.	alien	
302	Magnoliopsida	Boraginaceae Juss.	Heliotropium murinum Craven	native	P3
303	Magnoliopsida	Boraginaceae Juss.	Trichodesma zeylanicum (Burm.f.) R.Br. *(Camel Bush)*	native	
304	Magnoliopsida	Boraginaceae Juss.	Trichodesma zeylanicum (Burm.f.) R.Br. var. zeylanicum	native	
305	Magnoliopsida	Brassicaceae Burnett	Lepidium pedicellosum F.Muell.	native	
306	Magnoliopsida	Brassicaceae Burnett	Lepidium pholidogynum F.Muell.	native	
307	Magnoliopsida	Byblidaceae Domin	Byblis filifolia Planch.	native	
308	Magnoliopsida	Byblidaceae Domin	Byblis pilbarana Lowrie & Conran	native	
309	Magnoliopsida	Cactaceae Juss.	Cylindropuntia imbricata (Haw.) F.M.Knuth	alien	
310	Magnoliopsida	Cactaceae Juss.	Opuntia elata Salm-Dyck	alien	
311	Magnoliopsida	Cactaceae Juss.	Opuntia stricta (Haw.) Haw.	alien	
312	Magnoliopsida	Campanulaceae Juss.	Lobelia arnhemiaca	native	
313	Magnoliopsida	Campanulaceae Juss.	Lobelia heterophylla Labill. *(Wing-seeded Lobelia)*	native	
314	Magnoliopsida	Campanulaceae Juss.	Wahlenbergia queenslandica P.J.Sm.	native	
315	Magnoliopsida	Campanulaceae Juss.	Wahlenbergia tumidifructa P.J.Sm.	native	
316	Magnoliopsida	Cannabaceae Martinov	Celtis strychnoides Planch.	native	
317	Magnoliopsida	Capparaceae Juss.	Capparis spinosa subsp. nummularia	native	

318	Magnoliopsida	Caryophyllaceae Juss.	Gypsophila vaccaria (L.) Sm.	alien	
319	Magnoliopsida	Caryophyllaceae Juss.	Polycarpaea corymbosa (L.) Lam.	native	
320	Magnoliopsida	Caryophyllaceae Juss.	Polycarpaea corymbosa (L.) Lam. var. corymbosa	native	
321	Magnoliopsida	Caryophyllaceae Juss.	Polycarpaea holtzei Maiden & Betche	native	
322	Magnoliopsida	Caryophyllaceae Juss.	Polycarpaea involucrata	native	
323	Magnoliopsida	Caryophyllaceae Juss.	Polycarpaea longiflora F.Muell.	native	
324	Magnoliopsida	Celastraceae R.Br.	Stackhousia clementii Domin	native	P3
325	Magnoliopsida	Celastraceae R.Br.	Stackhousia intermedia F.M.Bailey	native	
326	Magnoliopsida	Celastraceae R.Br.	Stackhousia muricata Lindl.	native	
327	Magnoliopsida	Celastraceae R.Br.	Stackhousia sp. swollen gynophore (W.R. Barker 2041)	native	
328	Magnoliopsida	Celastraceae R.Br.	Stackhousia umbellata C.A.Gardner & A.S.George	native	P3
329	Magnoliopsida	Chenopodiaceae Vent.	Atriplex bunburyana F.Muell.	native	
330	Magnoliopsida	Chenopodiaceae Vent.	Atriplex eremitis Cranfield	native	P1
331	Magnoliopsida	Chenopodiaceae Vent.	Chenopodium auricomum Lindl. *(Queensland Bluebush)*	native	
332	Magnoliopsida	Chenopodiaceae Vent.	Dysphania kalpari Paul G.Wilson	native	
333	Magnoliopsida	Chenopodiaceae Vent.	Dysphania plantaginella F.Muell.	native	
334	Magnoliopsida	Chenopodiaceae Vent.	Dysphania rhadinostachya (F.Muell.) A.J.Scott	native	
335	Magnoliopsida	Chenopodiaceae Vent.	Dysphania rhadinostachya (F.Muell.) A.J.Scott subsp. rhadinostachya	native	
336	Magnoliopsida	Chenopodiaceae Vent.	Dysphania rhadinostachya subsp. inflata (Aellen) Paul G.Wilson	native	
337	Magnoliopsida	Chenopodiaceae Vent.	Dysphania sphaerosperma	native	
338	Magnoliopsida	Chenopodiaceae Vent.	Enchylaena tomentosa R.Br. var. tomentosa	native	
339	Magnoliopsida	Chenopodiaceae Vent.	Rhagodia eremaea Paul G.Wilson *(Thorny Saltbush)*	native	
340	Magnoliopsida	Chenopodiaceae Vent.	Salsola australis R.Br.	native	
341	Magnoliopsida	Chenopodiaceae Vent.	Sclerolaena costata (R.H.Anderson) A.J.Scott	native	
342	Magnoliopsida	Chenopodiaceae Vent.	Sclerolaena glabra (F.Muell.) Domin	native	
343	Magnoliopsida	Chenopodiaceae Vent.	Sclerolaena hostilis (Diels) Domin	native	
344	Magnoliopsida	Chenopodiaceae Vent.	Tecticornia sp.		
345	Magnoliopsida	Chenopodiaceae Vent.	Tecticornia auriculata (Paul G.Wilson) K.A.Sheph. & Paul G.Wilson	native	
346	Magnoliopsida	Chenopodiaceae Vent.	Tecticornia halocnemoides subsp. tenuis	native	
347	Magnoliopsida	Chenopodiaceae Vent.	Tecticornia indica subsp. leiostachya	native	
348	Magnoliopsida	Cleomaceae Bercht. & J.Presl	Areocleome oxalidea (F.Muell.) R.L.Barrett & Roalson	native	
349	Magnoliopsida	Cleomaceae Bercht. & J.Presl	Arivela uncifera (Kers) R.L.Barrett	native	
350	Magnoliopsida	Cleomaceae Bercht. & J.Presl	Arivela viscosa (L.) Raf.	native	
351	Magnoliopsida	Combretaceae R.Br.	Terminalia canescens (DC.) T.Durand *(Joolal)*	native	
352	Magnoliopsida	Combretaceae R.Br.	Terminalia circumalata F.Muell.	native	
353	Magnoliopsida	Combretaceae R.Br.	Terminalia supranitifolia Byrnes	native	P3
354	Magnoliopsida	Convolvulaceae Juss.	Bonamia Thouars		
355	Magnoliopsida	Convolvulaceae Juss.	Bonamia alatisemina R.W.Johnson	native	
356	Magnoliopsida	Convolvulaceae Juss.	Bonamia brevifolia (Benth.) Myint	native	P1
357	Magnoliopsida	Convolvulaceae Juss.	Bonamia erecta R.W.Johnson	native	
358	Magnoliopsida	Convolvulaceae Juss.	Bonamia linearis (R.Br.) Hallier f.	native	
359	Magnoliopsida	Convolvulaceae Juss.	Bonamia media (R.Br.) Hallier f.	native	
360	Magnoliopsida	Convolvulaceae Juss.	Bonamia oblongifolia Myint	native	P3
361	Magnoliopsida	Convolvulaceae Juss.	Bonamia pannosa (R.Br.) Hallier f.	native	
362	Magnoliopsida	Convolvulaceae Juss.	Bonamia pilbarensis R.W.Johnson	native	
363	Magnoliopsida	Convolvulaceae Juss.	Bonamia rosea (F.Muell.) Hallier f. *(Felty Bellflower)*	native	
364	Magnoliopsida	Convolvulaceae Juss.	Distimake davenportii (F.Muell.) A.R.SimÃµes & Staples	native	
365	Magnoliopsida	Convolvulaceae Juss.	Distimake dissectus (Jacq.) A.R.SimÃµes & Staples var. dissectus	alien	
366	Magnoliopsida	Convolvulaceae Juss.	Evolvulus alsinoides (L.) L. *(Tropical Speedwell)*	native	
367	Magnoliopsida	Convolvulaceae Juss.	Evolvulus alsinoides var. decumbens (R.Br.) Ooststr.	native	
368	Magnoliopsida	Convolvulaceae Juss.	Evolvulus alsinoides var. villosicalyx Ooststr.	native	
369	Magnoliopsida	Convolvulaceae Juss.	Ipomoea coptica (L.) Roth	native	

370	Magnoliopsida	Convolvulaceae Juss.	Ipomoea diamantinensis Eardley	native	
371	Magnoliopsida	Convolvulaceae Juss.	Ipomoea lonchophylla J.M.Black	native	
372	Magnoliopsida	Convolvulaceae Juss.	Ipomoea muelleri Benth. *(Poison Morning Glory, Yumbu)*	native	
373	Magnoliopsida	Convolvulaceae Juss.	Ipomoea pes-caprae subsp. brasiliensis (L.) Ooststr.	native	
374	Magnoliopsida	Convolvulaceae Juss.	Ipomoea polymorpha Roem. & Schult.	native	
375	Magnoliopsida	Convolvulaceae Juss.	Operculina aequisepala (Domin) R.W.Johnson	native	
376	Magnoliopsida	Convolvulaceae Juss.	Polymeria R.Br.		
377	Magnoliopsida	Convolvulaceae Juss.	Polymeria ambigua R.Br. *(Morning Glory)*	native	
378	Magnoliopsida	Convolvulaceae Juss.	Polymeria calycina R.Br.	native	
379	Magnoliopsida	Convolvulaceae Juss.	Polymeria lanata R.Br.	native	
380	Magnoliopsida	Cucurbitaceae Juss.	Austrobryonia pilbarensis I.Telford	native	
381	Magnoliopsida	Cucurbitaceae Juss.	Citrullus amarus Schrad.	alien	
382	Magnoliopsida	Cucurbitaceae Juss.	Citrullus colocynthis (L.) Schrad.	alien	
383	Magnoliopsida	Cucurbitaceae Juss.	Cucumis L.		
384	Magnoliopsida	Cucurbitaceae Juss.	Cucumis melo L. *(Ulcardo Melon)*	native	
385	Magnoliopsida	Cucurbitaceae Juss.	Cucumis sp. Barrow Island (D.W. Goodall 1264)	native	P2
386	Magnoliopsida	Cucurbitaceae Juss.	Cucumis variabilis P.Sebastian & I.Telford	native	
387	Magnoliopsida	Cucurbitaceae Juss.	Cucurbita pepo L.	alien	
388	Magnoliopsida	Cucurbitaceae Juss.	Trichosanthes cucumerina L.	native	
389	Magnoliopsida	Droseraceae Salisb.	Drosera burmanni Vahl *(Tropical Sundew)*	native	
390	Magnoliopsida	Droseraceae Salisb.	Drosera finlaysoniana Arn.	native	
391	Magnoliopsida	Elatinaceae Dumort.	Bergia ammannioides Roxb.	native	
392	Magnoliopsida	Elatinaceae Dumort.	Bergia pedicellaris	native	
393	Magnoliopsida	Elatinaceae Dumort.	Bergia perennis (F.Muell.) Benth. subsp. perennis	native	
394	Magnoliopsida	Elatinaceae Dumort.	Bergia trimera Fisch. & C.A.Mey.	native	
395	Magnoliopsida	Euphorbiaceae Juss.	Adriana tomentosa Gaudich.	native	
396	Magnoliopsida	Euphorbiaceae Juss.	Adriana tomentosa Gaudich. var. tomentosa	native	
397	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia australis Boiss. *(Namana)*	native	
398	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia australis Boiss. var. australis	native	
399	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia australis var. subtomentosa Domin	native	
400	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia biconvexa Domin	native	
401	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia careyi F.Muell.	native	
402	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia clementii Domin	native	P3
403	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia coghlanii F.M.Bailey	native	
404	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia fitzroyensis Halford & W.K.Harris	native	
405	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia hirta L. *(Asthma Plant)*	alien	
406	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia inappendiculata Domin var. inappendiculata	native	P3
407	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia psilosperma Halford & W.K.Harris	native	
408	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia schultzii Benth.	native	
409	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia tannensis subsp. eremophila (A.Cunn.) Hassall *(Desert Spurge)*	native	
410	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia tirucalli L.	alien	
411	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia trigonosperma Halford & W.K.Harris	native	
412	Magnoliopsida	Euphorbiaceae Juss.	Euphorbia vaccaria Baill. var. vaccaria	native	
413	Magnoliopsida	Euphorbiaceae Juss.	Ricinus communis L. *(Castor Oil Plant)*	alien	
414	Magnoliopsida	Fabaceae	Acacia sp.		
415	Magnoliopsida	Fabaceae Lindl.	Acacia acradenia F.Muell.	native	
416	Magnoliopsida	Fabaceae Lindl.	Acacia adoxa Pedley var. adoxa	native	
417	Magnoliopsida	Fabaceae Lindl.	Acacia adoxa var. subglabra Pedley	native	
418	Magnoliopsida	Fabaceae Lindl.	Acacia ampliceps Maslin	native	
419	Magnoliopsida	Fabaceae Lindl.	Acacia ancistrocarpa Maiden & Blakely *(Fitzroy Wattle)*	native	
420	Magnoliopsida	Fabaceae Lindl.	Acacia arida Benth.	native	
421	Magnoliopsida	Fabaceae Lindl.	Acacia bivenosa DC.	native	
422	Magnoliopsida	Fabaceae Lindl.	Acacia colei Maslin & L.A.J.Thomson	native	
423	Magnoliopsida	Fabaceae Lindl.	Acacia colei Maslin & L.Thomson var. colei	native	

424	Magnoliopsida	Fabaceae Lindl.	Acacia coriacea DC. subsp. coriacea	native	
425	Magnoliopsida	Fabaceae Lindl.	Acacia coriacea subsp. pendens R.S.Cowan & Maslin	native	
426	Magnoliopsida	Fabaceae Lindl.	Acacia cyperophylla Benth. *(Miniritchie)*	native	
427	Magnoliopsida	Fabaceae Lindl.	Acacia cyperophylla var. omearana Maslin	native	P1
428	Magnoliopsida	Fabaceae Lindl.	Acacia dictyophleba F.Muell. *(Sandhill Wattle)*	native	
429	Magnoliopsida	Fabaceae Lindl.	Acacia elachantha Maslin & M.W.McDonald	native	
430	Magnoliopsida	Fabaceae Lindl.	Acacia eriopoda Maiden & Blakely *(Broome Pindan Wattle)*	native	
431	Magnoliopsida	Fabaceae Lindl.	Acacia glaucocaesia Domin	native	
432	Magnoliopsida	Fabaceae Lindl.	Acacia hilliana Maiden	mixed	
433	Magnoliopsida	Fabaceae Lindl.	Acacia inaequilatera Domin *(Baderi)*	native	
434	Magnoliopsida	Fabaceae Lindl.	Acacia maitlandii F.Muell. *(Maitland's Wattle)*	native	
435	Magnoliopsida	Fabaceae Lindl.	Acacia melleodora Pedley	native	
436	Magnoliopsida	Fabaceae Lindl.	Acacia monticola J.M.Black *(Gawar)*	native	
437	Magnoliopsida	Fabaceae Lindl.	Acacia orthocarpa F.Muell. *(Needleleaf Wattle)*	native	
438	Magnoliopsida	Fabaceae Lindl.	Acacia pruinocarpa	native	
439	Magnoliopsida	Fabaceae Lindl.	Acacia ptychophylla F.Muell.	native	
440	Magnoliopsida	Fabaceae Lindl.	Acacia pyrifolia DC. *(Ranji Bush)*	native	
441	Magnoliopsida	Fabaceae Lindl.	Acacia pyrifolia DC. var. pyrifolia	native	
442	Magnoliopsida	Fabaceae Lindl.	Acacia pyrifolia var. morrisonii Maiden	native	
443	Magnoliopsida	Fabaceae Lindl.	Acacia retivenea subsp. clandestina	native	
444	Magnoliopsida	Fabaceae Lindl.	Acacia sabulosa Maslin	native	
445	Magnoliopsida	Fabaceae Lindl.	Acacia salicina Lindl.	native	
446	Magnoliopsida	Fabaceae Lindl.	Acacia sclerosperma F.Muell. *(Limestone Wattle)*	native	
447	Magnoliopsida	Fabaceae Lindl.	Acacia sclerosperma F.Muell. subsp. sclerosperma	native	
448	Magnoliopsida	Fabaceae Lindl.	Acacia sericophylla F.Muell.	native	
449	Magnoliopsida	Fabaceae Lindl.	Acacia sphaerostachya E.Pritz.	native	
450	Magnoliopsida	Fabaceae Lindl.	Acacia spondylophylla F.Muell.	native	
451	Magnoliopsida	Fabaceae Lindl.	Acacia stellaticeps Kodela, Tindale & D.Keith	native	
452	Magnoliopsida	Fabaceae Lindl.	Acacia synchronicia Maslin	native	
453	Magnoliopsida	Fabaceae Lindl.	Acacia trachycarpa E.Pritz. *(Minni Ritchi)*	native	
454	Magnoliopsida	Fabaceae Lindl.	Acacia trachycarpa x tumida var. pilbarensis	native	
455	Magnoliopsida	Fabaceae Lindl.	Acacia tumida Benth. *(Pindan Wattle)*	native	
456	Magnoliopsida	Fabaceae Lindl.	Acacia tumida Benth. var. tumida	native	
457	Magnoliopsida	Fabaceae Lindl.	Acacia tumida var. pilbarensis M.W.McDonald	native	
458	Magnoliopsida	Fabaceae Lindl.	Aeschynomene indica L. *(Budda Pea)*	native	
459	Magnoliopsida	Fabaceae Lindl.	Alysicarpus muelleri Schindl.	native	
460	Magnoliopsida	Fabaceae Lindl.	Cajanus cinereus (Benth.) F.Muell.	native	
461	Magnoliopsida	Fabaceae Lindl.	Cajanus marmoratus (Benth.) F.Muell.	native	
462	Magnoliopsida	Fabaceae Lindl.	Cajanus pubescens (Ewart & Morrison) Maesen	native	
463	Magnoliopsida	Fabaceae Lindl.	Canavalia rosea (Sw.) DC. *(Wild Jack Bean)*	native	
464	Magnoliopsida	Fabaceae Lindl.	Crotalaria cunninghamii R.Br. *(Green Birdflower)*	native	
465	Magnoliopsida	Fabaceae Lindl.	Crotalaria cunninghamii R.Br. subsp. cunninghamii	native	
466	Magnoliopsida	Fabaceae Lindl.	Crotalaria dissitiflora subsp. benthamiana	native	
467	Magnoliopsida	Fabaceae Lindl.	Crotalaria medicaginea Lam.	native	
468	Magnoliopsida	Fabaceae Lindl.	Crotalaria medicaginea var. neglecta (Wight & Arn.) Baker	native	
469	Magnoliopsida	Fabaceae Lindl.	Crotalaria ramosissima Roxb.	native	
470	Magnoliopsida	Fabaceae Lindl.	Cullen badocanum (Blanco) Verdc.	native	
471	Magnoliopsida	Fabaceae Lindl.	Cullen cinereum (Lindl.) J.W.Grimes	native	
472	Magnoliopsida	Fabaceae Lindl.	Cullen graveolens	native	
473	Magnoliopsida	Fabaceae Lindl.	Cullen lachnostachys (F.Muell.) J.W.Grimes	native	
474	Magnoliopsida	Fabaceae Lindl.	Cullen leucanthum (F.Muell.) J.W.Grimes	native	
475	Magnoliopsida	Fabaceae Lindl.	Cullen leucochaites J.W.Grimes	native	
476	Magnoliopsida	Fabaceae Lindl.	Cullen martinii (F.Muell.) J.W.Grimes	native	
477	Magnoliopsida	Fabaceae Lindl.	Cullen pallidum (N.T.Burb.) J.W.Grimes	native	
478	Magnoliopsida	Fabaceae Lindl.	Cullen pogonocarpum J.W.Grimes	native	

479	Magnoliopsida	Fabaceae Lindl.	Cullen stipulaceum (Decne.) J.W.Grimes	native	
480	Magnoliopsida	Fabaceae Lindl.	Desmodiopsis campylocaulon (Benth.) H.Ohashi & K.Ohashi	native	
481	Magnoliopsida	Fabaceae Lindl.	Dichrostachys spicata	native	
482	Magnoliopsida	Fabaceae Lindl.	Erythrina vespertilio	native	
483	Magnoliopsida	Fabaceae Lindl.	Glycine tomentella Hayata *(Woolly Glycine)*	native	
484	Magnoliopsida	Fabaceae Lindl.	Grona filiformis (Zoll. & Moritzi) H.Ohashi & K.Ohashi	native	
485	Magnoliopsida	Fabaceae Lindl.	Indigofera boviperda Morrison	native	
486	Magnoliopsida	Fabaceae Lindl.	Indigofera boviperda Morrison subsp. boviperda	native	
487	Magnoliopsida	Fabaceae Lindl.	Indigofera colutea (Burm.f.) Merr. *(Sticky Indigo)*	native	
488	Magnoliopsida	Fabaceae Lindl.	Indigofera hirsuta L. *(Hairy Indigo)*	native	
489	Magnoliopsida	Fabaceae Lindl.	Indigofera hochstetteri Baker	alien	
490	Magnoliopsida	Fabaceae Lindl.	Indigofera ixocarpa Peter G.Wilson & Rowe	native	P2
491	Magnoliopsida	Fabaceae Lindl.	Indigofera linifolia (L.f.) Retz.	native	
492	Magnoliopsida	Fabaceae Lindl.	Indigofera linnaei Ali	native	
493	Magnoliopsida	Fabaceae Lindl.	Indigofera monophylla DC.	native	
494	Magnoliopsida	Fabaceae Lindl.	Indigofera oblongifolia Forssk.	alien	
495	Magnoliopsida	Fabaceae Lindl.	Indigofera rugosa Benth.	native	
496	Magnoliopsida	Fabaceae Lindl.	Indigofera trita L.f. subsp. trita	native	
497	Magnoliopsida	Fabaceae Lindl.	Isotropis atropurpurea F.Muell. *(Poison Sage)*	native	
498	Magnoliopsida	Fabaceae Lindl.	Leptosema anomalum (Ewart & Morrison) Crisp	native	
499	Magnoliopsida	Fabaceae Lindl.	Leucaena leucocephala (Lam.) de Wit	alien	
500	Magnoliopsida	Fabaceae Lindl.	Lotus cruentus Court *(Redflower Lotus)*	native	
501	Magnoliopsida	Fabaceae Lindl.	Lysiphyllum cunninghamii (Benth.) de Wit *(Bauhinia)*	native	
502	Magnoliopsida	Fabaceae Lindl.	Neltuma pallida (Willd.) C.E.Hughes & G.P.Lewis		
503	Magnoliopsida	Fabaceae Lindl.	Neptunia dimorphantha Domin *(Sensitive Plant)*	native	
504	Magnoliopsida	Fabaceae Lindl.	Neptunia scutata A.R.Bean	native	
505	Magnoliopsida	Fabaceae Lindl.	Neptunia xanthonema A.R.Bean		
506	Magnoliopsida	Fabaceae Lindl.	Parkinsonia aculeata L. *(Parkinsonia)*	alien	
507	Magnoliopsida	Fabaceae Lindl.	Petalostylis cassioides (F.Muell.) Symon	native	
508	Magnoliopsida	Fabaceae Lindl.	Petalostylis labicheoides R.Br. *(Slender Petalostylis)*	native	
509	Magnoliopsida	Fabaceae Lindl.	Rhynchosia Lour.		
510	Magnoliopsida	Fabaceae Lindl.	Rhynchosia australis Benth.	native	
511	Magnoliopsida	Fabaceae Lindl.	Rhynchosia bungarensis Maesen	native	P4
512	Magnoliopsida	Fabaceae Lindl.	Rhynchosia minima (L.) DC. *(Rhynchosia)*	native	
513	Magnoliopsida	Fabaceae Lindl.	Rothia indica subsp. australis A.E.Holland	native	P3
514	Magnoliopsida	Fabaceae Lindl.	Senna Mill.		
515	Magnoliopsida	Fabaceae Lindl.	Senna artemisioides (DC.) Randell	native	
516	Magnoliopsida	Fabaceae Lindl.	Senna artemisioides subsp. oligophylla (F.Muell.) Randell	native	
517	Magnoliopsida	Fabaceae Lindl.	Senna costata (Bailey & C.T.White) Randell	native	
518	Magnoliopsida	Fabaceae Lindl.	Senna curvistyla (J.M.Black) Randell	native	
519	Magnoliopsida	Fabaceae Lindl.	Senna glutinosa (DC.) Randell	native	
520	Magnoliopsida	Fabaceae Lindl.	Senna glutinosa (DC.) Randell subsp. glutinosa	native	
521	Magnoliopsida	Fabaceae Lindl.	Senna glutinosa subsp. pruinosa (F.Muell.) Randell	native	
522	Magnoliopsida	Fabaceae Lindl.	Senna glutinosa subsp. x luerssenii	native	
523	Magnoliopsida	Fabaceae Lindl.	Senna notabilis (F.Muell.) Randell	native	
524	Magnoliopsida	Fabaceae Lindl.	Senna symonii (Randell) Randell	native	
525	Magnoliopsida	Fabaceae Lindl.	Senna venusta (F.Muell.) Randell	native	
526	Magnoliopsida	Fabaceae Lindl.	Sesbania cannabina (Retz.) Pers. *(Sesbania Pea)*	native	
527	Magnoliopsida	Fabaceae Lindl.	Sesbania formosa (F.Muell.) N.T.Burb. *(White Dragon Tree)*	native	
528	Magnoliopsida	Fabaceae Lindl.	Stylosanthes hamata (L.) Taub. *(Verano Stylo)*	alien	
529	Magnoliopsida	Fabaceae Lindl.	Swainsona decurrens A.T.Lee	native	
530	Magnoliopsida	Fabaceae Lindl.	Swainsona formosa (G.Don) Joy Thomps.	native	
531	Magnoliopsida	Fabaceae Lindl.	Swainsona pterostylis (DC.) Bakh.f.	native	
532	Magnoliopsida	Fabaceae Lindl.	Templetonia hookeri (F.Muell.) Benth.	native	

533	Magnoliopsida	Fabaceae Lindl.	Tephrosia Pers.		
534	Magnoliopsida	Fabaceae Lindl.	Tephrosia bidwillii Benth.	native	
535	Magnoliopsida	Fabaceae Lindl.	Tephrosia clementii Skan	native	
536	Magnoliopsida	Fabaceae Lindl.	Tephrosia densa (Benth.) R.Butcher	native	
537	Magnoliopsida	Fabaceae Lindl.	Tephrosia leptoclada Benth.	native	
538	Magnoliopsida	Fabaceae Lindl.	Tephrosia oxalidea R.Butcher & P.J.H.Hurter	native	
539	Magnoliopsida	Fabaceae Lindl.	Tephrosia rosea Benth. *(Flinders River Poison)*	native	
540	Magnoliopsida	Fabaceae Lindl.	Tephrosia rosea Benth. var. rosea	native	
541	Magnoliopsida	Fabaceae Lindl.	Tephrosia rosea var. Port Hedland (A.S. George 1114)	native	P1
542	Magnoliopsida	Fabaceae Lindl.	Tephrosia rosea var. clementii Domin	native	
543	Magnoliopsida	Fabaceae Lindl.	Tephrosia simplicifolia Benth.	native	
544	Magnoliopsida	Fabaceae Lindl.	Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	native	
545	Magnoliopsida	Fabaceae Lindl.	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	native	
546	Magnoliopsida	Fabaceae Lindl.	Tephrosia sp. D Kimberley Flora (R.D. Royce 1848)	native	
547	Magnoliopsida	Fabaceae Lindl.	Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	native	
548	Magnoliopsida	Fabaceae Lindl.	Tephrosia sp. clay soils (S. van Leeuwen et al. PBS 0273)	native	
549	Magnoliopsida	Fabaceae Lindl.	Tephrosia sphaerospora F.Muell.	native	
550	Magnoliopsida	Fabaceae Lindl.	Tephrosia subpectinata Domin	native	
551	Magnoliopsida	Fabaceae Lindl.	Tephrosia supina Domin	native	
552	Magnoliopsida	Fabaceae Lindl.	Tephrosia uniovulata F.Muell.	native	
553	Magnoliopsida	Fabaceae Lindl.	Tephrosia virens Pedley	native	
554	Magnoliopsida	Fabaceae Lindl.	Vachellia farnesiana (L.) Wight & Arn. *(Mimosa Bush)*	alien	
555	Magnoliopsida	Fabaceae Lindl.	Vachellia farnesiana (L.) Wight & Arn. var. farnesiana		
556	Magnoliopsida	Fabaceae Lindl.	Vigna lanceolata Benth.	native	
557	Magnoliopsida	Fabaceae Lindl.	Vigna lanceolata Benth. var. lanceolata	native	
558	Magnoliopsida	Fabaceae Lindl.	Vigna sp. Hamersley Clay (A.A. Mitchell PRP 113)	native	
559	Magnoliopsida	Fabaceae Lindl.	Vigna triodiophila A.E.Holland & R.Butcher	native	P3
560	Magnoliopsida	Fabaceae Lindl.	Zornia albiflora Mohlenbr.	native	
561	Magnoliopsida	Fabaceae Lindl.	Zornia muelleriana Mohlenbr.	native	
562	Magnoliopsida	Gentianaceae Juss.	Schenkia clementii (Domin) G.Mans.	native	
563	Magnoliopsida	Goodeniaceae R.Br.	Dampiera R.Br.		
564	Magnoliopsida	Goodeniaceae R.Br.	Dampiera candicans F.Muell.	native	
565	Magnoliopsida	Goodeniaceae R.Br.	Goodenia Sm.		
566	Magnoliopsida	Goodeniaceae R.Br.	Goodenia armitiana F.Muell.	native	
567	Magnoliopsida	Goodeniaceae R.Br.	Goodenia forrestii F.Muell.	native	
568	Magnoliopsida	Goodeniaceae R.Br.	Goodenia lamprosperma F.Muell.	native	
569	Magnoliopsida	Goodeniaceae R.Br.	Goodenia microptera F.Muell.	native	
570	Magnoliopsida	Goodeniaceae R.Br.	Goodenia muelleriana Carolin	native	
571	Magnoliopsida	Goodeniaceae R.Br.	Goodenia nuda E.Pritz.	native	
572	Magnoliopsida	Goodeniaceae R.Br.	Goodenia prostrata Carolin	native	
573	Magnoliopsida	Goodeniaceae R.Br.	Goodenia scaevolina F.Muell.	native	
574	Magnoliopsida	Goodeniaceae R.Br.	Goodenia stobbsiana F.Muell.	native	
575	Magnoliopsida	Goodeniaceae R.Br.	Goodenia triodiophila Carolin	native	
576	Magnoliopsida	Goodeniaceae R.Br.	Scaevola L.		
577	Magnoliopsida	Goodeniaceae R.Br.	Scaevola amblyanthera F.Muell.	native	
578	Magnoliopsida	Goodeniaceae R.Br.	Scaevola amblyanthera var. centralis Carolin	native	
579	Magnoliopsida	Goodeniaceae R.Br.	Scaevola browniana Carolin	native	
580	Magnoliopsida	Goodeniaceae R.Br.	Scaevola browniana Carolin subsp. browniana	native	
581	Magnoliopsida	Goodeniaceae R.Br.	Scaevola parvifolia Benth. subsp. parvifolia	native	
582	Magnoliopsida	Goodeniaceae R.Br.	Scaevola parvifolia subsp. pilbarae Carolin	native	
583	Magnoliopsida	Gyrostemonaceae A.Juss.	Codonocarpus cotinifolius (Desf.) F.Muell. *(Native Poplar)*	native	
584	Magnoliopsida	Gyrostemonaceae A.Juss.	Gyrostemon tepperi (H.Walter) A.S.George	native	
585	Magnoliopsida	Haloragaceae R.Br.	Gonocarpus ephemerus Orchard	native	

586	Magnoliopsida	Haloragaceae R.Br.	Haloragis gossei F.Muell.	native	
587	Magnoliopsida	Haloragaceae R.Br.	Haloragis gossei F.Muell. var. gossei	native	
588	Magnoliopsida	Lamiaceae Martinov	Basilicum polystachyon (L.) Moench	native	
589	Magnoliopsida	Lamiaceae Martinov	Clerodendrum floribundum var. angustifolium	native	
590	Magnoliopsida	Lamiaceae Martinov	Clerodendrum tomentosum var. tomentosum	native	
591	Magnoliopsida	Lamiaceae Martinov	Clerodendrum tomentosum var. lanceolatum (F.Muell.) Munir	native	
592	Magnoliopsida	Lamiaceae Martinov	Quoya zonalis K.A.Sheph. & Hislop *(Pilbara Foxglove)*	native	EN
593	Magnoliopsida	Lauraceae Juss.	Cassytha capillaris Meisn.	native	
594	Magnoliopsida	Lauraceae Juss.	Cassytha filiformis L. *(Love Vine)*	native	
595	Magnoliopsida	Loganiaceae Mart.	Mitrasacme connata R.Br.	native	
596	Magnoliopsida	Loganiaceae Mart.	Mitrasacme exserta F.Muell.	native	
597	Magnoliopsida	Loranthaceae Juss.	Amyema benthamii (Blakely) Danser	native	
598	Magnoliopsida	Loranthaceae Juss.	Amyema preissii (Miq.) Tiegh. *(Wireleaf Mistletoe)*	native	
599	Magnoliopsida	Lythraceae J.St.-Hil.	Ammannia baccifera L.	native	
600	Magnoliopsida	Lythraceae J.St.-Hil.	Ammannia multiflora Roxb.	native	
601	Magnoliopsida	Lythraceae J.St.-Hil.	Rotala diandra (F.Muell.) Koehne	native	
602	Magnoliopsida	Malvaceae Juss.	Abutilon Mill.		
603	Magnoliopsida	Malvaceae Juss.	Abutilon amplum Benth.	native	
604	Magnoliopsida	Malvaceae Juss.	Abutilon australiense (Britten) Nimbalkar, Nandikar & Sardesai	native	
605	Magnoliopsida	Malvaceae Juss.	Abutilon lepidum (F.Muell.) A.S.Mitch.	native	
606	Magnoliopsida	Malvaceae Juss.	Abutilon malvifolium	native	
607	Magnoliopsida	Malvaceae Juss.	Abutilon otocarpum F.Muell.	native	
608	Magnoliopsida	Malvaceae Juss.	Abutilon oxycarpum subsp. Prostrate (A.A. Mitchell PRP 1266)	native	
609	Magnoliopsida	Malvaceae Juss.	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)	native	
610	Magnoliopsida	Malvaceae Juss.	Abutilon sp. Onslow (F. Smith s.n. 10/9/61)	native	P3
611	Magnoliopsida	Malvaceae Juss.	Abutilon sp. Pilbara (W.R. Barker 2025)	native	
612	Magnoliopsida	Malvaceae Juss.	Abutilon sp. Pritzelianum (S. van Leeuwen 5095)	native	P3
613	Magnoliopsida	Malvaceae Juss.	Corchorus L.		
614	Magnoliopsida	Malvaceae Juss.	Corchorus congener Halford	native	P3
615	Magnoliopsida	Malvaceae Juss.	Corchorus elachocarpus F.Muell.	native	
616	Magnoliopsida	Malvaceae Juss.	Corchorus incanus Halford	native	
617	Magnoliopsida	Malvaceae Juss.	Corchorus incanus Halford subsp. incanus	native	
618	Magnoliopsida	Malvaceae Juss.	Corchorus laniflorus Rye	native	
619	Magnoliopsida	Malvaceae Juss.	Corchorus parviflorus (Benth.) Domin	native	
620	Magnoliopsida	Malvaceae Juss.	Corchorus sidoides F.Muell. subsp. sidoides	native	
621	Magnoliopsida	Malvaceae Juss.	Corchorus sp. Yarrie (J. Bull & D. Roberts CAL 01.05)	native	P1
622	Magnoliopsida	Malvaceae Juss.	Corchorus tectus Halford	native	
623	Magnoliopsida	Malvaceae Juss.	Corchorus tridens L.	native	
624	Magnoliopsida	Malvaceae Juss.	Corchorus walcottii F.Muell. *(Woolly Corchorus)*	native	
625	Magnoliopsida	Malvaceae Juss.	Gossypium L.		
626	Magnoliopsida	Malvaceae Juss.	Gossypium australe F.Muell. *(Native Cotton)*	native	
627	Magnoliopsida	Malvaceae Juss.	Gossypium hirsutum L. *(Upland Cotton)*	alien	
628	Magnoliopsida	Malvaceae Juss.	Gossypium robinsonii F.Muell. *(Wild Cotton)*	native	
629	Magnoliopsida	Malvaceae Juss.	Hibiscus L.		
630	Magnoliopsida	Malvaceae Juss.	Hibiscus austrinus Juswara & Craven var. austrinus	native	
631	Magnoliopsida	Malvaceae Juss.	Hibiscus brachychlaenus	native	
632	Magnoliopsida	Malvaceae Juss.	Hibiscus brachysiphonius F.Muell.	native	
633	Magnoliopsida	Malvaceae Juss.	Hibiscus burtonii F.M.Bailey	native	
634	Magnoliopsida	Malvaceae Juss.	Hibiscus coatesii F.Muell.	native	
635	Magnoliopsida	Malvaceae Juss.	Hibiscus goldsworthii F.Muell.	native	
636	Magnoliopsida	Malvaceae Juss.	Hibiscus krichauffianus F.Muell.	native	P1
637	Magnoliopsida	Malvaceae Juss.	Hibiscus leptocladus Benth.	native	
638	Magnoliopsida	Malvaceae Juss.	Hibiscus panduriformis Burm.f. *(Yellow Hibiscus)*	native	P1
639	Magnoliopsida	Malvaceae Juss.	Hibiscus sturtii Hook. *(Sturt's Hibiscus)*	native	
640	Magnoliopsida	Malvaceae Juss.	Hibiscus sturtii var. campylochlamys Benth.	native	

641	Magnoliopsida	Malvaceae Juss.	Hibiscus sturtii var. platychlamys Benth.	native	
642	Magnoliopsida	Malvaceae Juss.	Hibiscus verdcourtii	native	
643	Magnoliopsida	Malvaceae Juss.	Malvastrum americanum (L.) Torr. *(Spiked Malvastrum)*	alien	
644	Magnoliopsida	Malvaceae Juss.	Melhania		
645	Magnoliopsida	Malvaceae Juss.	Melhania oblongifolia F.Muell.	native	
646	Magnoliopsida	Malvaceae Juss.	Melochia pyramidata L.	alien	
647	Magnoliopsida	Malvaceae Juss.	Seringia nephrosperma F.Muell. *(Free carpel fire-bush)*	native	
648	Magnoliopsida	Malvaceae Juss.	Sida L.		
649	Magnoliopsida	Malvaceae Juss.	Sida arenicola S.T.Reynolds & A.E.Holland	native	
650	Magnoliopsida	Malvaceae Juss.	Sida arsiniata R.M.Barker	native	
651	Magnoliopsida	Malvaceae Juss.	Sida cardiophylla F.Muell.	native	
652	Magnoliopsida	Malvaceae Juss.	Sida clementii Domin	native	
653	Magnoliopsida	Malvaceae Juss.	Sida echinocarpa F.Muell.	native	
654	Magnoliopsida	Malvaceae Juss.	Sida fibulifera Lindl. *(Silver Sida)*	native	
655	Magnoliopsida	Malvaceae Juss.	Sida macropoda Benth.	native	
656	Magnoliopsida	Malvaceae Juss.	Sida rohlenae Domin subsp. rohlenae	native	
657	Magnoliopsida	Malvaceae Juss.	Sida sp. Articulation below (A.A. Mitchell PRP 1605)	native	
658	Magnoliopsida	Malvaceae Juss.	Sida sp. Barlee Range (S. van Leeuwen 1642)	native	P4
659	Magnoliopsida	Malvaceae Juss.	Sida sp. Pilbara (A.A. Mitchell PRP 1543)	native	
660	Magnoliopsida	Malvaceae Juss.	Sida sp. Pindan (B.G. Thomson 3398)	native	
661	Magnoliopsida	Malvaceae Juss.	Sida sp. Rabbit Flat (B.J. Carter 626)	native	
662	Magnoliopsida	Malvaceae Juss.	Sida spinosa L. *(Spiny Sida)*	native	
663	Magnoliopsida	Malvaceae Juss.	Triumfetta L.		
664	Magnoliopsida	Malvaceae Juss.	Triumfetta appendiculata F.Muell.	native	
665	Magnoliopsida	Malvaceae Juss.	Triumfetta chaetocarpa F.Muell.	native	
666	Magnoliopsida	Malvaceae Juss.	Triumfetta clementii (Domin) Rye	native	
667	Magnoliopsida	Malvaceae Juss.	Triumfetta deserticola Halford	native	
668	Magnoliopsida	Malvaceae Juss.	Triumfetta maconochieana Halford	native	
669	Magnoliopsida	Malvaceae Juss.	Triumfetta propinqua Halford	native	
670	Magnoliopsida	Malvaceae Juss.	Triumfetta ramosa Sprague & Hutch.	native	
671	Magnoliopsida	Malvaceae Juss.	Triumfetta rupestris Halford	native	P1
672	Magnoliopsida	Malvaceae Juss.	Waltheria L.		
673	Magnoliopsida	Malvaceae Juss.	Waltheria indica L.	native	
674	Magnoliopsida	Malvaceae Juss.	Waltheria virgata Ewart & Cookson	native	
675	Magnoliopsida	Meliaceae Juss.	Owenia reticulata F.Muell. *(Bandal, Native Walnut)*	native	
676	Magnoliopsida	Menispermaceae Juss.	Tinospora smilacina Benth. *(Oondala, Snakevine)*	native	
677	Magnoliopsida	Molluginaceae Bartl.	Glinus lotoides L. *(Hairy Carpet Weed)*	native	
678	Magnoliopsida	Molluginaceae Bartl.	Glinus oppositifolius	mixed	
679	Magnoliopsida	Molluginaceae Bartl.	Glinus oppositifolius var. keenanii (C.B.Clarke) Sukhor.	native	
680	Magnoliopsida	Molluginaceae Bartl.	Hypertelis cerviana	native	
681	Magnoliopsida	Molluginaceae Bartl.	Trigastrotheca molluginea F.Muell.	native	
682	Magnoliopsida	Montiaceae Raf.	Calandrinia sp.		
683	Magnoliopsida	Montiaceae Raf.	Calandrinia pentavalvis Obbens	native	
684	Magnoliopsida	Montiaceae Raf.	Calandrinia ptychosperma F.Muell.	native	
685	Magnoliopsida	Montiaceae Raf.	Calandrinia pumila (Benth.) F.Muell.	native	
686	Magnoliopsida	Montiaceae Raf.	Calandrinia stagnensis J.M.Black	native	
687	Magnoliopsida	Montiaceae Raf.	Calandrinia strophiolata (F.Muell.) B.D.Jacks.	native	
688	Magnoliopsida	Montiaceae Raf.	Calandrinia tepperiana W.Fitzg.	native	
689	Magnoliopsida	Moraceae	Ficus sp.		
690	Magnoliopsida	Moraceae Gaudich.	Ficus aculeata var. indecora (Miq.) D.J.Dixon *(Ranji)*	native	
691	Magnoliopsida	Moraceae Gaudich.	Ficus brachypoda (Miq.) Miq.	native	
692	Magnoliopsida	Moringaceae Martinov	Moringa oleifera Lam.	alien	
693	Magnoliopsida	Myrtaceae Juss.	Corymbia K.D.Hill & L.A.S.Johnson		
694	Magnoliopsida	Myrtaceae Juss.	Corymbia aspera (F.Muell.) K.D.Hill & L.A.S.Johnson	native	

695	Magnoliopsida	Myrtaceae Juss.	Corymbia candida K.D.Hill & L.A.S.Johnson	native	
696	Magnoliopsida	Myrtaceae Juss.	Corymbia candida K.D.Hill & L.A.S.Johnson subsp. candida	native	
697	Magnoliopsida	Myrtaceae Juss.	Corymbia candida subsp. lautifolia K.D.Hill & L.A.S.Johnson		
698	Magnoliopsida	Myrtaceae Juss.	Corymbia candida subsp. x lautifolia K.D.Hill & L.A.S.Johnson	native	
699	Magnoliopsida	Myrtaceae Juss.	Corymbia deserticola (D.J.Carr & S.G.M.Carr) K.D.Hill & L.A.S.Johnson	native	
700	Magnoliopsida	Myrtaceae Juss.	Corymbia deserticola (D.J.Carr & S.G.M.Carr) K.D.Hill & L.A.S.Johnson subsp. deserticola	native	
701	Magnoliopsida	Myrtaceae Juss.	Corymbia ferriticola	native	
702	Magnoliopsida	Myrtaceae Juss.	Corymbia flavescens K.D.Hill & L.A.S.Johnson	native	
703	Magnoliopsida	Myrtaceae Juss.	Corymbia hamersleyana (D.J.Carr & S.G.M.Carr) K.D.Hill & L.A.S.Johnson	native	
704	Magnoliopsida	Myrtaceae Juss.	Corymbia opaca (D.J.Carr & S.G.M.Carr) K.D.Hill & L.A.S.Johnson	native	
705	Magnoliopsida	Myrtaceae Juss.	Corymbia terminalis (F.Muell.) K.D.Hill & L.A.S.Johnson		
706	Magnoliopsida	Myrtaceae Juss.	Corymbia zygophylla (Blakely) K.D.Hill & L.A.S.Johnson	native	
707	Magnoliopsida	Myrtaceae Juss.	Eucalyptus camaldulensis	mixed	
708	Magnoliopsida	Myrtaceae Juss.	Eucalyptus camaldulensis subsp. obtusa (Blakely) Brooker & M.W.McDonald *(Blunt-budded River Red Gum)*	mixed	
709	Magnoliopsida	Myrtaceae Juss.	Eucalyptus camaldulensis subsp. refulgens Brooker & M.W.McDonald	native	
710	Magnoliopsida	Myrtaceae Juss.	Eucalyptus leucophloia subsp. leucophloia	native	
711	Magnoliopsida	Myrtaceae Juss.	Eucalyptus patellaris F.Muell. *(Weeping Box)*	native	
712	Magnoliopsida	Myrtaceae Juss.	Eucalyptus victrix L.A.S.Johnson & K.D.Hill	native	
713	Magnoliopsida	Myrtaceae Juss.	Melaleuca argentea W.Fitzg. *(Silver Cadjeput)*	native	
714	Magnoliopsida	Myrtaceae Juss.	Melaleuca glomerata F.Muell.	native	
715	Magnoliopsida	Myrtaceae Juss.	Melaleuca lasiandra F.Muell.	native	
716	Magnoliopsida	Myrtaceae Juss.	Melaleuca linophylla	native	
717	Magnoliopsida	Nyctaginaceae Juss.	Boerhavia L.		
718	Magnoliopsida	Nyctaginaceae Juss.	Boerhavia burbidgeana Hewson	native	
719	Magnoliopsida	Nyctaginaceae Juss.	Boerhavia coccinea Mill.	mixed	
720	Magnoliopsida	Nyctaginaceae Juss.	Boerhavia gardneri Hewson	native	
721	Magnoliopsida	Nyctaginaceae Juss.	Boerhavia repleta	native	
722	Magnoliopsida	Onagraceae Juss.	Ludwigia perennis	native	
723	Magnoliopsida	Orobanchaceae Vent.	Buchnera linearis R.Br. *(Blackrod)*	native	
724	Magnoliopsida	Orobanchaceae Vent.	Striga Lour.		
725	Magnoliopsida	Orobanchaceae Vent.	Striga curviflora (R.Br.) Benth.	native	
726	Magnoliopsida	Orobanchaceae Vent.	Striga squamigera W.R.Barker	native	
727	Magnoliopsida	Papaveraceae Juss.	Argemone ochroleuca	alien	
728	Magnoliopsida	Papaveraceae Juss.	Argemone ochroleuca Sweet subsp. ochroleuca	alien	
729	Magnoliopsida	Passifloraceae Roussel	Passiflora foetida L. *(Stinking Passion Flower)*	alien	
730	Magnoliopsida	Passifloraceae Roussel	Passiflora foetida var. hispida (Triana & Planch.) Killip	alien	
731	Magnoliopsida	Pedaliaceae R.Br.	Josephinia Vent.		
732	Magnoliopsida	Pedaliaceae R.Br.	Josephinia eugeniae F.Muell.	native	
733	Magnoliopsida	Phrymaceae Schauer	Mimulus gracilis R.Br.	native	
734	Magnoliopsida	Phrymaceae Schauer	Peplidium muelleri Benth.	native	
735	Magnoliopsida	Phrymaceae Schauer	Uvedalia linearis R.Br.	native	
736	Magnoliopsida	Phyllanthaceae Martinov	Cathetus Lour.		
737	Magnoliopsida	Phyllanthaceae Martinov	Phyllanthus exilis	native	
738	Magnoliopsida	Phyllanthaceae Martinov	Dendrophyllanthus erwinii (J.T.Hunter & J.J.Bruhl) R.W.Bouman	native	
739	Magnoliopsida	Phyllanthaceae Martinov	Flueggea virosa subsp. melanthesoides (F.Muell.) G.L.Webster *(Dogwood)*	native	
740	Magnoliopsida	Phyllanthaceae Martinov	Lysiandra arida (Benth.) R.W.Bouman	native	
741	Magnoliopsida	Phyllanthaceae Martinov	Nellica maderaspatensis (L.) Raf.	native	
742	Magnoliopsida	Phyllanthaceae Martinov	Notoleptopus decaisnei (Benth.) Voronts. & Petra Hoffm.	native	
743	Magnoliopsida	Phyllanthaceae Martinov	Notoleptopus decaisnei (Benth.) Voronts. & Petra Hoffm. var. decaisnei	native	
744	Magnoliopsida	Phyllanthaceae Martinov	Synostemon rhytidospermus (MÃ¼ll.Arg.) I.Telford & Pruesapan	native	

745	Magnoliopsida	Plantaginaceae Juss.	Stemodia grossa Benth. *(Marsh Stemodia, Mindjaara)*	native	
746	Magnoliopsida	Plantaginaceae Juss.	Stemodia kingii F.Muell.	native	
747	Magnoliopsida	Plantaginaceae Juss.	Stemodia lathraia W.R.Barker	native	
748	Magnoliopsida	Plantaginaceae Juss.	Stemodia viscosa Roxb. *(Pagurda)*	native	
749	Magnoliopsida	Polygalaceae Hoffmanns. & Link	Polygala L.		
750	Magnoliopsida	Polygalaceae Hoffmanns. & Link	Polygala galeocephala R.A.Kerrigan	native	
751	Magnoliopsida	Polygalaceae Hoffmanns. & Link	Polygala glaucifolia	native	
752	Magnoliopsida	Polygonaceae Juss.	Rumex vesicarius L. *(Ruby Dock)*	alien	
753	Magnoliopsida	Portulacaceae Juss.	Portulaca L.		
754	Magnoliopsida	Portulacaceae Juss.	Portulaca conspicua Domin	native	
755	Magnoliopsida	Portulacaceae Juss.	Portulaca cyclophylla F.Muell.	native	
756	Magnoliopsida	Portulacaceae Juss.	Portulaca decipiens Poelln.	native	
757	Magnoliopsida	Portulacaceae Juss.	Portulaca filifolia F.Muell.	native	
758	Magnoliopsida	Portulacaceae Juss.	Portulaca oleracea L. *(Purslane, Wakati)*	mixed	
759	Magnoliopsida	Portulacaceae Juss.	Portulaca pilosa L. *(Djanggara)*	alien	
760	Magnoliopsida	Proteaceae Juss.	Grevillea pyramidalis R.Br. *(Caustic Bush, Tjungu)*	native	
761	Magnoliopsida	Proteaceae Juss.	Grevillea pyramidalis subsp. leucadendron (R.Br.) Makinson	native	
762	Magnoliopsida	Proteaceae Juss.	Grevillea wickhamii Meisn.	native	
763	Magnoliopsida	Proteaceae Juss.	Grevillea wickhamii subsp. aprica McGill.	native	
764	Magnoliopsida	Proteaceae Juss.	Grevillea wickhamii subsp. hispidula Makinson	native	
765	Magnoliopsida	Proteaceae Juss.	Grevillea wickhamii subsp. macrodonta Makinson	native	
766	Magnoliopsida	Proteaceae Juss.	Hakea lorea (R.Br.) R.Br.		
767	Magnoliopsida	Proteaceae Juss.	Hakea lorea (R.Br.) R.Br. subsp. lorea	native	
768	Magnoliopsida	Rubiaceae Juss.	Dentella asperata Airy Shaw	native	
769	Magnoliopsida	Rubiaceae Juss.	Dolichocarpa crouchiana (F.Muell.) K.L.Gibbons	native	
770	Magnoliopsida	Rubiaceae Juss.	Dolichocarpa sp. Hamersley Station (A.A. Mitchell PRP 1479)	native	P3
771	Magnoliopsida	Rubiaceae Juss.	Scleromitrion galioides (F.Muell.) K.L.Gibbons	native	
772	Magnoliopsida	Rubiaceae Juss.	Spermacoce hillii (Chippend.) Govaerts	native	
773	Magnoliopsida	Rubiaceae Juss.	Synaptantha tillaeacea (F.Muell.) Hook.f.	native	
774	Magnoliopsida	Rubiaceae Juss.	Synaptantha tillaeacea (F.Muell.) Hook.f. var. tillaeacea	native	
775	Magnoliopsida	Sapindaceae Juss.	Atalaya hemiglauca (F.Muell.) Benth. *(Whitewood)*	native	
776	Magnoliopsida	Sapindaceae Juss.	Diplopeltis eriocarpa (Benth.) Hemsl. *(Hairy Pepperflower)*	native	
777	Magnoliopsida	Sapindaceae Juss.	Dodonaea coriacea (Ewart & O.B.Davies) McGill.	native	
778	Magnoliopsida	Sapindaceae Juss.	Dodonaea petiolaris F.Muell.	native	
779	Magnoliopsida	Scrophulariaceae Juss.	Eremophila gibsonii F.Muell.	native	
780	Magnoliopsida	Scrophulariaceae Juss.	Eremophila longifolia (R.Br.) F.Muell.	native	
781	Magnoliopsida	Solanaceae Juss.	Datura leichhardtii Benth. *(Native Thornapple)*	alien	
782	Magnoliopsida	Solanaceae Juss.	Nicotiana benthamiana Domin	native	
783	Magnoliopsida	Solanaceae Juss.	Nicotiana occidentalis subsp. obliqua	native	
784	Magnoliopsida	Solanaceae Juss.	Nicotiana umbratica N.T.Burb.	native	P3
785	Magnoliopsida	Solanaceae Juss.	Physalis angulata L.	alien	
786	Magnoliopsida	Solanaceae Juss.	Solanum L.		
787	Magnoliopsida	Solanaceae Juss.	Solanum cataphractum Benth.	native	P3
788	Magnoliopsida	Solanaceae Juss.	Solanum cleistogamum Symon	native	
789	Magnoliopsida	Solanaceae Juss.	Solanum dioicum W.Fitzg. *(Gilu)*	native	
790	Magnoliopsida	Solanaceae Juss.	Solanum diversiflorum F.Muell.	native	
791	Magnoliopsida	Solanaceae Juss.	Solanum lasiophyllum Poir.	mixed	
792	Magnoliopsida	Solanaceae Juss.	Solanum lucani F.Muell.	native	
793	Magnoliopsida	Solanaceae Juss.	Solanum nigrum L. *(Black Berry Nightshade)*	alien	
794	Magnoliopsida	Solanaceae Juss.	Solanum perarmatum A.R.Bean	native	
795	Magnoliopsida	Solanaceae Juss.	Solanum phlomoides Benth.	native	
796	Magnoliopsida	Solanaceae Juss.	Solanum symonii H.Eichler	native	
797	Magnoliopsida	Stylidiaceae R.Br.	Stylidium desertorum Carlquist	native	

798	Magnoliopsida	Stylidiaceae R.Br.	Stylidium fluminense F.L.Erickson & J.H.Willis	native	
799	Magnoliopsida	Stylidiaceae R.Br.	Stylidium weeliwolli Lowrie & Kenneally	native	P3
800	Magnoliopsida	Surianaceae Arn.	Stylobasium spathulatum Desf. *(Pebble Bush)*	native	
801	Magnoliopsida	Tamaricaceae Link	Tamarix aphylla (L.) H.Karst. *(Athel Tree)*	alien	
802	Magnoliopsida	Thymelaeaceae Juss.	Pimelea ammocharis F.Muell.	native	
803	Magnoliopsida	Violaceae Batsch	Afrohybanthus aurantiacus (Benth.) Flicker	native	
804	Magnoliopsida	Violaceae Batsch	Afrohybanthus enneaspermus (L.) Flicker	native	
805	Magnoliopsida	Zygophyllaceae R.Br.	Tribulopis angustifolia R.Br.	native	
806	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus L.		
807	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus cistoides L.	native	
808	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus hirsutus Benth.	native	
809	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus macrocarpus Benth.	native	
810	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus occidentalis R.Br.	native	
811	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus platypterus Benth. *(Cork Hopbush)*	native	
812	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus sp. long-styled eichlerianus (A.S. George 10666)	native	
813	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus suberosus	native	
814	Magnoliopsida	Zygophyllaceae R.Br.	Tribulus terrestris	alien	
815	Marchantiopsida	Ricciaceae	Riccia crystallina L.	native	
816	Psilotopsida	Ophioglossaceae Martinov	Ophioglossum lusitanicum L.	native	
817	Pteridopsida	Marsileaceae Mirb.	Marsilea L.		
818	Pteridopsida	Marsileaceae Mirb.	Marsilea exarata A.Braun	native	
819	Pteridopsida	Marsileaceae Mirb.	Marsilea hirsuta R.Br. *(Nardoo)*	native	
820	Pteridopsida	Pteridaceae E.D.M.Kirchn.	Cheilanthes brownii (Kuhn) Domin	native	
821	Pteridopsida	Pteridaceae E.D.M.Kirchn.	Cheilanthes sieberi subsp. sieberi	native	

Conservation status definitions

Threatened species

- CR – Critically Endangered
- EN – Endangered
- VU – Vulnerable
- EX – Extinct
- EW – Extinct in the Wild
- CD – Species of special conservation interest (conservation dependent)
- OS – Species otherwise in need of special protection (other specially protected)
- MI – Migratory
- SP – Specially protected species

Priority species

- P1 – Priority 1: Poorly-known species – known from few locations, none on conservation lands
- P2 – Priority 2: Poorly-known species – known from few locations, some on conservation lands
- P3 – Priority 3: Poorly-known species – known from several locations
- P4 – Priority 4: Rare, Near Threatened and other species in need of monitoring

Dandjoo specific codes

- Parent of conservation listed taxa
- Cons code inherited from parent, X

Read full definitions at https://bio.wa.gov.au/guide/conservation-status-definitions

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Further note, precise locations of conservation listed species are considered sensitive. To protect this information, obfuscation has been applied to conservation-listed species records. For these species, the true location is ±10km from the search area used to generate this species list.

APPENDIX FOUR FIELD SURVEY RESULTS

Table 21: Flora inventory

Family	Species	Intr.	Cons.
Aizoaceae	*Trianthema cusackianum*		
	Trianthema pilosum		
	Trianthema triquetrum		
Amaranthaceae	*Aerva javanica*	*	
	Alternanthera angustifolia		
	Alternanthera nana		
	Amaranthus undulatus		
	Gomphrena cunninghamii		
	Gomphrena leptoclada subsp. *leptoclada*		
	Gomphrena sordida		
	Ptilotus arthrolasius		
	Ptilotus astrolasius		
	Ptilotus auriculifolius		
	Ptilotus axillaris		
	Ptilotus calostachyus		
	Ptilotus clementii		
	Ptilotus exaltatus		
	Ptilotus fusiformis		
	Ptilotus incanus		
	Ptilotus obovatus		
Apocynaceae	*Calotropis procera*	*	
	Carissa lanceolata		
	Cynanchum floribundum		
	Gymnanthera cunninghamii		3
Araliaceae	*Trachymene oleracea* subsp. *oleracea*		
Asteraceae	*Bidens bipinnata*	*	
	Blumea tenella		
	Centipeda minima subsp. *macrocephala*		
	Flaveria trinervia	*	
	Peripleura virgata		
	Pluchea dentex		
	Pluchea ferdinandi-muelleri		
	Pluchea rubelliflora		
	Pluchea tetranthera		
	Pterocaulon sphacelatum		
	Streptoglossa decurrens		
	Tridax procumbens	*	
Bignoniaceae	*Dolichandrone occidentalis*		
Boraginaceae	*Ehretia saligna* var. *saligna*		
	Euploca chrysocarpa		
	Euploca cunninghamii		
	Euploca heterantha		
	Euploca mutica		3
	Euploca pachyphylla		
	Euploca tenuifolia		
	Heliotropium crispatum		
	Trichodesma zeylanicum var. *zeylanicum*		
Byblidaceae	*Byblis pilbarana*		
Campanulaceae	*Wahlenbergia tumidifructa*		
Capparaceae	*Capparis spinosa* subsp. *nummularia*		
	Capparis umbonata		
Caryophyllaceae	*Polycarpaea* aff. *corymbosa*		O
	Polycarpaea corymbosa var. *corymbosa*		
	Polycarpaea holtzei		
	Polycarpaea longiflora		
Celastraceae	*Stackhousia muricata* subsp. annual (W.R. Barker 2172)		
Chenopodiaceae	*Maireana georgei*		
	Salsola australis		
Cleomaceae	*Arivela uncifera*		
	Arivela viscosa		

Family	Species	Intr.	Cons.
Combretaceae	*Terminalia circumalata*		
Commelinaceae	*Commelina ensifolia*		
Convolvulaceae	*Bonamia alatisemina*		
	Bonamia erecta		
	Bonamia linearis		
	Bonamia media		
	Bonamia pannosa		
	Bonamia pilbarensis (atypical form)		
	Bonamia pilbarensis (typical form)		
	Duperreya commixta		
	Evolvulus alsinoides var. *decumbens*		
	Evolvulus alsinoides var. *villosicalyx*		
	Ipomoea coptica		
	Ipomoea muelleri		
	Ipomoea polymorpha		
	Ipomoea sp.		
	Operculina aequisepala		
	Polymeria ambigua		
	Polymeria sp.		O
Cucurbitaceae	*Citrullus amarus*	*	
	Cucumis variabilis		
	Trichosanthes cucumerina		
Cyperaceae	*Abildgaardia oxystachya*		
	Bulbostylis barbata		
	Bulbostylis burbidgeae		4
	Bulbostylis turbinata		
	Cyperus blakeanus		
	Cyperus conicus		
	Cyperus cunninghamii subsp. *cunninghamii*		
	Cyperus difformis		
	Cyperus ixiocarpus		
	Cyperus leptocarpus		
	Cyperus pulchellus		
	Cyperus squarrosus		
	Cyperus vaginatus		
	Fimbristylis dichotoma		
	Fimbristylis microcarya		
	Fimbristylis neilsonii		
	Fimbristylis rara		
	Fimbristylis simulans		
	Fuirena ciliaris		
	Schoenoplectiella dissachantha		
Droseraceae	*Drosera finlaysoniana*		
Elatinaceae	*Bergia pedicellaris*		
	Bergia trimera		
Euphorbiaceae	*Adriana tomentosa* var. *tomentosa*		
	Euphorbia australis		
	Euphorbia australis var. *hispidula*		
	Euphorbia australis var. *subtomentosa*		
	Euphorbia biconvexa		
	Euphorbia boophthona		
	Euphorbia clementii		3
	Euphorbia coghlanii		
	Euphorbia hirta	*	
	Euphorbia tannensis subsp. *eremophila*		
	Euphorbia trigonosperma		
	Euphorbia vaccaria var. *vaccaria*		
	Microstachys chamaelea		
Fabaceae	*Acacia acradenia*		
	Acacia ampliceps		
	Acacia ancistrocarpa		
	Acacia ancistrocarpa x orthocarpa		
	Acacia bivenosa		
	Acacia bivenosa x pyrifolia		

Family	Species	Intr.	Cons.
Fabaceae cont'	*Acacia colei*		
	Acacia hilliana		
	Acacia inaequilatera		
	Acacia maitlandii		
	Acacia orthocarpa		
	Acacia pyrifolia var. *pyrifolia*		
	Acacia sabulosa		
	Acacia sericophylla		
	Acacia sphaerostachya		
	Acacia spondylophylla		
	Acacia stellaticeps		
	Acacia synchronicia		
	Acacia trachycarpa		
	Acacia trachycarpa x ?		
	Acacia tumida var. *pilbarensis*		
	Acacia tumida var. *pilbarensis x ?citrinoviridis*		
	Acacia tumida x ?		
	Acacia tumida x trachycarpa		
	Alysicarpus muelleri		
	Cajanus cinereus		
	Crotalaria cunninghamii		
	Crotalaria medicaginea var. *neglecta*		
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*		
	Crotalaria ramosissima		
	Cullen leucanthum		
	Cullen martinii		
	Cullen pogonocarpum		
	Cullen stipulaceum		
	Grona filiformis		
	Grona muelleri		
	Indigofera colutea		
	Indigofera hirsuta		
	Indigofera linifolia		
	Indigofera linnaei		
	Indigofera monophylla		
	Indigofera oblongifolia	*	
	Indigofera rugosa		
	Indigofera trita		
	Isotropis atropurpurea		
	Leptosema anomalum		
	Neptunia xanthonema		
	Rhynchosia minima		
	Rothia indica subsp. *australis*		3
	Senna artemisioides subsp. *oligophylla*		
	Senna artemisioides subsp. *oligophylla x helmsii*		
	Senna glutinosa subsp. *glutinosa*		
	Senna glutinosa subsp. *pruinosa*		
	Senna glutinosa subsp. *x luerssenii*		
	Senna notabilis		
	Senna symonii		
	Senna venusta		
	Sesbania cannabina		
	Stylosanthes hamata	*	
	Swainsona formosa		
	Swainsona kingii		
	Tephrosia clementii		
	Tephrosia rosea var. *clementii*		
	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		
	Vachellia farnesiana	*	
	Vigna lanceolata var. *lanceolata*		

Family	Species	Intr.	Cons.
Fabaceae cont'	*Zornia muelleriana* subsp. *congesta*		
Goodeniaceae	*Dampiera candicans*		
	Goodenia armitiana		
	Goodenia forrestii		
	Goodenia lamprosperma		
	Goodenia microptera		
	Goodenia muelleriana		
	Goodenia nuda		
	Goodenia sp.		
	Goodenia stobbsiana		
	Goodenia triodiophila		
	Scaevola amblyanthera var. *centralis*		
	Scaevola browniana subsp. *browniana*		
	Scaevola spinescens		
Haloragaceae	*Gonocarpus ephemerus*		
Lamiaceae	*Clerodendrum floribundum*		
	Clerodendrum tomentosum		
Lauraceae	*Cassytha capillaris*		
Loganiaceae	*Mitrasacme connata*		
Lythraceae	*Ammannia baccifera*		
	Ammannia multiflora		
	Rotala diandra		
Malvaceae	*Abutilon cunninghamii*		
	Abutilon fraseri		
	Abutilon lepidum		
	Abutilon otocarpum		
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)		
	Abutilon sp. Pilbara (W.R. Barker 2025)		
	Corchorus elachocarpus		
	Corchorus incanus subsp. *incanus*		
	Corchorus parviflorus		
	Corchorus sp.		
	Corchorus tridens		
	Gossypium australe		
	Hibiscus austrinus		
	Hibiscus coatesii		
	Hibiscus leptocladus		
	Hibiscus sp.		
	Hibiscus sturtii var. *campylochlamys*		
	Hibiscus sturtii var. *platychlamys*		
	Melhania oblongifolia		
	Seringia exastia		T
	Sida arenicola		
	Sida clementii		
	Sida echinocarpa		
	Sida fibulifera		
	Sida rohlenae subsp. *rohlenae*		
	Sida sp.		
	Sida sp. L (A.M. Ashby 4202)		
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)		
	Sida sp. Rabbit Flat (B.J. Carter 626)		
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)		
	Triumfetta appendiculata		
	Triumfetta chaetocarpa		
	Triumfetta clementii		
	Triumfetta incana		
	Triumfetta maconochieana		
	Triumfetta ramosa		
	Waltheria indica		
	Waltheria virgata		
Marsileaceae	*Marsilea hirsuta*		
	Marsilea sp.		
Menispermaceae	*Tinospora smilacina*		
Molluginaceae	*Glinus oppositifolia* var. *keenanii*		

Family	Species	Intr.	Cons.
Molluginaceae cont'	*Trigastrotheca molluginea*		
Montiaceae	*Calandrinia pentavalvis*		
	Calandrinia tepperiana		
Moraceae	*Ficus aculeata* var. *indecora*		
	Ficus brachypoda		
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*		
	Corymbia flavescens		
	Corymbia hamersleyana		
	Corymbia zygophylla		
	Eucalyptus camaldulensis subsp. *refulgens*		
	Eucalyptus victrix		
	Melaleuca argentea		
	Melaleuca glomerata		
	Melaleuca lasiandra		
Nyctaginaceae	*Boerhavia coccinea*		
	Boerhavia gardneri		
Oleaceae	*Jasminum didymum* subsp. *lineare*		
Onagraceae	*Ludwigia perennis*		
Orobanchaceae	*Buchnera linearis*		
Phyllanthaceae	*Flueggea virosa* subsp. *melanthesoides*		
	Nellica maderaspatensis		
	Notoleptopus decaisnei var. Orbicularis (A.B. Craig 428)		
Plantaginaceae	*Stemodia grossa*		
	Stemodia kingii		
	Stemodia viscosa		
Poaceae	*Aristida contorta*		
	Aristida holathera var. *holathera*		
	Aristida hygrometrica		
	Aristida inaequiglumis		
	Bothriochloa ewartiana		
	Bothriochloa sp.		
	Cenchrus ciliaris	*	
	Cenchrus setiger	*	
	Chloris pumilio		
	Chloris virgata	*	
	Chrysopogon fallax		
	Cymbopogon ambiguus		
	Cynodon convergens		
	Dactyloctenium radulans		
	Dichanthium sericeum subsp. *humilius*		
	Digitaria ctenantha		
	Enneapogon caerulescens		
	Enneapogon lindleyanus		
	Enneapogon robustissimus		
	Eragrostis cumingii		
	Eragrostis desertorum		
	Eragrostis dielsii		
	Eragrostis elongata		
	Eragrostis eriopoda		
	Eragrostis speciosa		
	Eragrostis tenellula		
	Eragrostis xerophila		
	Eriachne aristidea		
	Eriachne benthamii		
	Eriachne ciliata		
	Eriachne lanata		
	Eriachne melicacea		
	Eriachne mucronata		
	Eriachne obtusa		
	Eriachne pulchella subsp. *dominii*		
	Eriachne pulchella subsp. *pulchella*		
	Eriachne sp.		
	Eulalia aurea		
	Heteropogon contortus		

Family	Species	Intr.	Cons.
Poaceae cont'	*Iseilema eremaeum*		
	Neurachne muelleri		
	Panicum australiense var. *australiense*		
	Paspalidium clementii		
	Paspalidium rarum		
	Paspalidium sp.		
	Paspalidium tabulatum		
	Perotis rara		
	Poaceae sp.		
	Schizachyrium fragile		
	Setaria surgens		
	Sorghum plumosum var. *plumosum*		
	Sporobolus actinocladus		
	Sporobolus australasicus		
	Themeda triandra		
	Triodia chichesterensis		3
	Triodia epactia		
	Triodia lanigera		
	Triodia schinzii		
	Triodia secunda		
	Triodia wiseana		
	Tripogonella loliiformis		
	Whiteochloa airoides		
	Xerochloa barbata		
Polygalaceae	*Polygala galeocephala*		
	Polygala glaucifolia		
	Polygala isingii		
Portulacaceae	*Portulaca digyna*		
	Portulaca filifolia		
	Portulaca oleracea		
Proteaceae	*Grevillea pyramidalis* subsp. *leucadendron*		
	Grevillea wickhamii		
	Hakea chordophylla		
	Hakea lorea subsp. *lorea*		
Pteridaceae	*Cheilanthes brownii*		
	Cheilanthes sieberi subsp. *sieberi*		
Rubiaceae	*Dolichocarpa crouchiana*		
	Paranotis pterospora		
	Scleromitrion galioides		
	Synaptantha tillaeacea var. *tillaeacea*		
Santalaceae	*Santalum lanceolatum*		
Sapindaceae	*Atalaya hemiglauca*		
	Dodonaea coriacea		
Scrophulariaceae	*Eremophila* sp.		
Solanaceae	*Nicotiana bilybara*		
	Nicotiana umbratica		3
	Solanum chippendalei		
	Solanum cleistogamum		
	Solanum diversiflorum		
	Solanum phlomoides		
	Solanum sp. aff. *gabrielae*		O
Stylidiaceae	*Stylidium desertorum*		
Thymelaeaceae	*Pimelea ammocharis*		
Violaceae	*Afrohybanthus aurantiacus*		
Zygophyllaceae	*Tribulopis angustifolia*		
	Tribulus hirsutus		
	Tribulus platypterus		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
Aizoaceae	*Trianthema cusackianum*																																																																					
	Trianthema pilosum																																																																					
	Trianthema triquetrum																																															X		X																							
Amaranthaceae	*Aerva javanica*	*																														X																																								
	Alternanthera angustifolia																																																																									
	Alternanthera nana																																X																																							
	Amaranthus undulatus																																																																								
	Gomphrena cunninghamii																																				X																																							
	Gomphrena leptoclada subsp. *leptoclada*																																																																															
	Gomphrena sordida																																																																														
	Ptilotus arthrolasius																																			X																																								
	Ptilotus astrolasius										X		X	X							X												X	X		X			X	X		X		X	X	X																										X
	Ptilotus auriculifolius																																																																												
	Ptilotus axillaris																																																																														
	Ptilotus calostachyus						X																									X						X																																						
	Ptilotus clementii																																					X																																								
	Ptilotus exaltatus												X																																																																		
	Ptilotus fusiformis																																																																															
	Ptilotus incanus																																																																															
	Ptilotus obovatus																																																																															
Apocynaceae	*Calotropis procera*	*															X																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
	Bonamia linearis									X										X					X		X		X						X	X															X													
	Bonamia media																																													X																							
	Bonamia pannosa									X																																																														
	Bonamia pilbarensis (atypical form)			X		X				X				X									X														X		X		X					X					X		X	X					X										
	Bonamia pilbarensis (typical form)																																																														X										
	Duperreya commixta																																																																								
	Evolvulus alsinoides var. *decumbens*									X							X																																																								
	Evolvulus alsinoides var. *villosicalyx*																	X								X								X			X					X												X																
	Ipomoea coptica																X																													X	X																		X										
	Ipomoea muelleri									X																																																																				
	Ipomoea polymorpha																X																																	X																												
	Ipomoea sp.																																																																														
	Operculina aequisepala																																																																														
	Polymeria ambigua			X				X		X		X									X					X									X																																													
	Polymeria sp.		O																																																																																
Cucurbitaceae	*Citrullus amarus*	*																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
	Acacia orthocarpa			X		X						X			X	X		X		X										X																																												X
	Acacia pyrifolia var. *pyrifolia*							X		X		X				X		X																																																																X
	Acacia sabulosa																																																																																				
	Acacia sericophylla																																																																																									
	Acacia sphaerostachya																				X	X																X																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
	Goodenia lamprosperma																X																																																		
	Goodenia microptera																																																																				
	Goodenia muelleriana																																																																				
	Goodenia nuda																																																																				
	Goodenia sp.																																																																				
	Goodenia stobbsiana																																					X																														
	Goodenia triodiophila																																																																				
	Scaevola amblyanthera var. *centralis*											X																								X																																X	
	Scaevola browniana subsp. *browniana*										X																										X																			X		X		X									
	Scaevola spinescens																																																																				
Haloragaceae	*Gonocarpus ephemerus*																																																																				
Lamiaceae	*Clerodendrum floribundum*																																																																			
	Clerodendrum tomentosum																																																																			
Lauraceae	*Cassytha capillaris*							X				X		X												X						X																																X		X		
Loganiaceae	*Mitrasacme connata*																																																																			
Lythraceae	*Ammannia baccifera*																																																																			
	Ammannia multiflora																																																																			
	Rotala diandra																																																																			
Malvaceae	*Abutilon cunninghamii*																																																																			
	Abutilon fraseri																																																																			
	Abutilon lepidum																																																																			
	Abutilon otocarpum																																																																			
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)																																																																		
	Abutilon sp. Pilbara (W.R. Barker 2025)																																																																	
	Corchorus elachocarpus							X				X	X				X				X	X				X						X		X																																
	Corchorus incanus subsp. *incanus*							X		X		X																						X																																
	Corchorus parviflorus			X																												X								X	X																							
	Corchorus sp.																X																											X																						
	Corchorus tridens				X																																																														
	Gossypium australe					X																															X																														
	Hibiscus austrinus																																																																			
	Hibiscus coatesii																																																																	X		X		
	Hibiscus leptocladus																																																																			
	Hibiscus sp.																																																																			
	Hibiscus sturtii var. *campylochlamys*											X														X	X											X																													
	Hibiscus sturtii var. *platychlamys*					X																																						X		X																						
	Melhania oblongifolia																																																																		
	Seringia exastia		T																																																																	
	Sida arenicola																																																																			
	Sida clementii											X																																																							
	Sida echinocarpa																																																																		
	Sida fibulifera																															X					X																												
	Sida rohlenae subsp. *rohlenae*																X																X																																
	Sida sp.																																																																		
	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																										
	Sida sp. Rabbit Flat (B.J. Carter 626)																																																																		
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)																																																																		
	Triumfetta appendiculata																																																																			
	Triumfetta chaetocarpa											X																																																							
	Triumfetta clementii																																																																		
	Triumfetta incana																																																																		
	Triumfetta maconochieana																																																																		
	Triumfetta ramosa																																			X	X																													
	Waltheria indica							X		X							X																																																
	Waltheria virgata																																																																		
Marsileaceae	*Marsilea hirsuta*																																																																			
	Marsilea sp.																X																																																	
Menispermaceae	*Tinospora smilacina*									X		X	X				X																			X																													
Molluginaceae	*Glinus oppositifolia* var. *keenanii*																																																																		
	Trigastrotheca molluginea																										X								X	X																												
Montiaceae	*Calandrinia pentavalvis*																																																																		
	Calandrinia tepperiana																																																																		
Moraceae	*Ficus aculeata* var. *indecora*											X																																																							

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
	Ficus brachypoda																																				X																												
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*																																																																		
	Corymbia flavescens							X		X																							X																																			
	Corymbia hamersleyana			X		X	X	X				X	X		X						X	X	X			X					X		X			X		X	X		X			X	X	X	X	X					X	X	X	X									
	Corymbia zygophylla																																																																					
	Eucalyptus camaldulensis subsp. *refulgens*																																																																					
	Eucalyptus victrix									X		X					X																																																						
	Melaleuca argentea									X																																																														
	Melaleuca glomerata																																																																							
	Melaleuca lasiandra																																																																							
Nyctaginaceae	*Boerhavia coccinea*																X																				X																																		
	Boerhavia gardneri																	X																																																						
Oleaceae	*Jasminum didymum* subsp. *lineare*																																X																																						
Onagraceae	*Ludwigia perennis*																																																																											
Orobanchaceae	*Buchnera linearis*																																																																											
Phyllanthaceae	*Flueggea virosa* subsp. *melanthesoides*									X							X																					X																																		
	Nellica maderaspatensis									X							X									X						X		X																																					
	Notoleptopus decaisnei var. Orbicularis (A.B. Craig 428)																									X																																																
Plantaginaceae	*Stemodia grossa*											X														X																																																
	Stemodia kingii																																																																														
	Stemodia viscosa																																																																														
Poaceae	*Aristida contorta*																															X																																														
	Aristida holathera var. *holathera*																X								X	X	X																																																				
	Aristida hygrometrica																																																																														
	Aristida inaequiglumis																																																																														
	Bothriochloa ewartiana																																																																														
	Bothriochloa sp.																X																	X																																											
	Cenchrus ciliaris	*		X	X					X		X					X									X					X		X			X		X	X					X									X																			
	Cenchrus setiger	*			X																													X																																									
	Chloris pumilio																																																																														
	Chloris virgata	*																																																																														
	Chrysopogon fallax			X	X	X		X		X		X					X									X							X			X																																							
	Cymbopogon ambiguus									X		X						X																			X																																							
	Cynodon convergens																																																																														
	Dactyloctenium radulans											X																																																																						
	Dichanthium sericeum subsp. *humilius*																																																																																		
	Digitaria ctenantha																																																																																	
	Enneapogon caerulescens																															X																																																
	Enneapogon lindleyanus																																																																																	
	Enneapogon robustissimus																																					X																																											
	Eragrostis cumingii									X							X									X																																																												
	Eragrostis desertorum																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24001	T24002	T24003	T24004	T24005	T24006	T24007	T24008	T24009	T24010	T24011	T24012	T24013	T24014	T24015	T24016	T24017	T24018	T24019	T24020	T24027	T24028	T24029	T24030	T24031	T24032	T24033	T24034	T24035	T24036	T24037	T24038	T24039	T24040	T24041	T24042	T24043	T24044	T24045	T24046	T24047	T24048	T24049	T24050	T24051	T24052	T24058	T24059	T24060	T24061	T24062	T24067	T24068	T24069	T24071	T24072	T24073	T24074	T24075	T24076	T24077
	Paspalidium rarum																																																																		X	
	Paspalidium sp.																																																																								
	Paspalidium tabulatum																																																																								
	Perotis rara																X																															X																									
	Poaceae sp.																																																																												
	Schizachyrium fragile																																																																												
	Setaria surgens																																																																														
	Sorghum plumosum var. *plumosum*																																																																															
	Sporobolus actinocladus																		X																																																												
	Sporobolus australasicus											X																																					X																													
	Themeda triandra											X																										X																																									X	
	Triodia chichesterensis		3	X		X	X						X	X	X								X							X								X		X				X																						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	X			X	X		X		X	X	X	X	X	X	X	X	X

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
Aizoaceae	*Trianthema cusackianum*																																																																				
	Trianthema pilosum																																																																									
	Trianthema triquetrum								X																											X	X			X						X																		X						
Amaranthaceae	*Aerva javanica*	*				X	X			X													X																					X																														
	Alternanthera angustifolia																																																																										
	Alternanthera nana																																																																										
	Amaranthus undulatus											X																																	X																														
	Gomphrena cunninghamii											X																																																																	
	Gomphrena leptoclada subsp. *leptoclada*																																											X																														
	Gomphrena sordida																																																																										
	Ptilotus arthrolasius																																																																										
	Ptilotus astrolasius					X					X		X		X		X					X				X			X		X	X													X																														
	Ptilotus auriculifolius																																																																										
	Ptilotus axillaris																																																																										
	Ptilotus calostachyus					X									X						X		X					X	X		X	X											X			X	X			X		X				X	X														
	Ptilotus clementii																																	X																X		X		X																				
	Ptilotus exaltatus																																																																										
	Ptilotus fusiformis																																										X	X	X			X			X															X	X	X	
	Ptilotus incanus																																																																									
	Ptilotus obovatus																																																																										
Apocynaceae	*Calotropis procera*	*																														X													X																														
	Carissa lanceolata																																																																										
	Cynanchum floribundum																																																																										
	Gymnanthera cunninghamii		3																																																																										
Araliaceae	*Trachymene oleracea* subsp. *oleracea*																																				X							X	X													X	X						X												
Asteraceae	*Bidens bipinnata*	*																																																																															
	Blumea tenella																																																																																
	Centipeda minima subsp. *macrocephala*																																																																																
	Flaveria trinervia	*																																																																																
	Peripleura virgata																																																																																
	Pluchea dentex															X																																																																	
	Pluchea ferdinandi-muelleri										X																																																																					
	Pluchea rubelliflora																																																																																
	Pluchea tetranthera																																																																																
	Pterocaulon sphacelatum																																																																																
	Streptoglossa decurrens																																																																																
	Tridax procumbens	*																																																																																				
Bignoniaceae	*Dolichandrone occidentalis*																																																																																						
Boraginaceae	*Ehretia saligna* var. *saligna*																																																																																					
	Euploca chrysocarpa													X	X													X	X			X																																																								
	Euploca cunninghamii														X																																																																																	
	Euploca heterantha																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
	Bonamia linearis																				X	X			X											X	X																													
	Bonamia media																										X					X																																						
	Bonamia pannosa																																				X										X				X																					
	Bonamia pilbarensis (atypical form)			X			X	X																																				X												X		X	X			X													
	Bonamia pilbarensis (typical form)						X																																																																					
	Duperreya commixta																																																																												
	Evolvulus alsinoides var. *decumbens*															X																		X																																												
	Evolvulus alsinoides var. *villosicalyx*																			X			X	X										X				X				X	X																																					X
	Ipomoea coptica								X																																			X																																					
	Ipomoea muelleri																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
	Acacia orthocarpa			X		X	X	X		X							X	X					X											X																																													
	Acacia pyrifolia var. *pyrifolia*																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
	Goodenia lamprosperma															X																	X																			X												X
	Goodenia microptera																																				X											X	X			X						X		X		X						X
	Goodenia muelleriana																																																												X	X																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
	Ficus brachypoda											X																																																						
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*										X																																																								
	Corymbia flavescens										X																						X																																		
	Corymbia hamersleyana				X	X		X			X		X	X	X	X	X			X	X	X			X	X	X		X		X													X			X	X					X			X	X	X	X	X	X	X	X	X	X	X	X
	Corymbia zygophylla																																																																			
	Eucalyptus camaldulensis subsp. *refulgens*																																																																			
	Eucalyptus victrix																																X																					X																
	Melaleuca argentea																																																								X																
	Melaleuca glomerata																																																																						
	Melaleuca lasiandra																																																																						
Nyctaginaceae	*Boerhavia coccinea*								X	X													X				X						X	X												X																						X
	Boerhavia gardneri						X			X																																																													
Oleaceae	*Jasminum didymum* subsp. *lineare*																																																																									
Onagraceae	*Ludwigia perennis*																																																																									
Orobanchaceae	*Buchnera linearis*																																																																							
Phyllanthaceae	*Flueggea virosa* subsp. *melanthesoides*																																X	X																																						
	Nellica maderaspatensis																																																																						
	Notoleptopus decaisnei var. Orbicularis (A.B. Craig 428)																																				X																																				
Plantaginaceae	*Stemodia grossa*												X																							X																																			
	Stemodia kingii																																																																								
	Stemodia viscosa																																																																								
Poaceae	*Aristida contorta*																			X													X				X									X			X				X					X												
	Aristida holathera var. *holathera*																																		X	X	X							X			X			X			X			X			X		X	X						
	Aristida hygrometrica																																				X																																	
	Aristida inaequiglumis																																																																								
	Bothriochloa ewartiana																																																																								
	Bothriochloa sp.																																																																							
	Cenchrus ciliaris	*				X			X	X		X											X									X	X			X									X			X												X								
	Cenchrus setiger	*				X																	X									X				X																																
	Chloris pumilio																																																																							
	Chloris virgata	*																																																																							
	Chrysopogon fallax										X	X				X				X														X		X			X																																
	Cymbopogon ambiguus						X	X																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T24078	T24079	T24080	T24081	T24082	T24083	T24084	T24085	T24086	T24087	T24088	T24089	T24090	T24091	T24092	T24093	T24094	T24095	T24096	T24097	T24098	T24099	T24100	T24101	T24106	T24107	T24108	T24109	T24110	T24111	T24112	T2501	T2502	T2503	T2504	T2505	T2506	T2507	T2508	T2509	T2510	T2511	T2512	T2513	T2514	T2515	T2516	T2517	T2518	T2519	T2520	T2521	T2522	T2523	T2524	T2525	T2526	T2527	T2528	T2529	T2530
	Paspalidium rarum																																	X			X						X	X	X																						X
	Paspalidium sp.																																																																				
	Paspalidium tabulatum																																																																			
	Perotis rara																																	X																																				
	Poaceae sp.																																																																			
	Schizachyrium fragile																																																																		X
	Setaria surgens																																																																				
	Sorghum plumosum var. *plumosum*																																																																			
	Sporobolus actinocladus																																	X																																			
	Sporobolus australasicus																																X			X	X			X	X		X		X		X		X		X		X	X	X	X								
	Themeda triandra															X																																																						
	Triodia chichesterensis		3	X		X	X	X		X					X		X	X	X	X			X	X	X		X		X				X				X										X		X	X	X		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	X	X	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 lanigera										X			X							X	X		X	X	X		X		X	X	X									X	X	X	X			X	X			X		X															X	X
	Triodia schinzii																																																																							
	Triodia secunda								X				X																				X				X																																
	Triodia wiseana					X		X		X							X			X							X																																		X			X	X							
	Tripogonella loliiformis																																																																					
	Whiteochloa airoides																																																																					
	Xerochloa barbata																																																																					
Polygalaceae	*Polygala galeocephala*																																		X																															X			
	Polygala glaucifolia																																																																					
	Polygala isingii																																																																					
Portulacaceae	*Portulaca digyna*																																																																					
	Portulaca filifolia								X																																																												
	Portulaca oleracea								X																								X		X		X				X		X			X	X															X
Proteaceae	*Grevillea pyramidalis* subsp. *leucadendron*																																																																	X			
	Grevillea wickhamii							X					X	X							X													X				X																													
	Hakea chordophylla																					X																																															
	Hakea lorea subsp. *lorea*														X													X								X																																
Pteridaceae	*Cheilanthes brownii*																																																																								
	Cheilanthes sieberi subsp. *sieberi*																																																																						
Rubiaceae	*Dolichocarpa crouchiana*																																																																								
	Paranotis pterospora																																																																							
	Scleromitrion galioides																																																																						
	Synaptantha tillaeacea var. *tillaeacea*																																	X																																						
Santalaceae	*Santalum lanceolatum*																																		X																																				
Sapindaceae	*Atalaya hemiglauca*																																																																								
	Dodonaea coriacea															X																	X	X																																				
Scrophulariaceae	*Eremophila* sp.																																																																										
Solanaceae	*Nicotiana bilybara*																																																																									
	Nicotiana umbratica		3																																																																							
	Solanum chippendalei																																																																									
	Solanum cleistogamum																																																																									
	Solanum diversiflorum						X																										X		X			X																																		
	Solanum phlomoides																			X																																																					
	Solanum sp. aff. *gabrielae*		O																																																																							
Stylidiaceae	*Stylidium desertorum*																																																																								
Thymelaeaceae	*Pimelea ammocharis*																																																																								
Violaceae	*Afrohybanthus aurantiacus*					X	X			X						X				X													X	X		X		X				X																														
Zygophyllaceae	*Tribulopis angustifolia*																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
Aizoaceae	*Trianthema cusackianum*																																																																		
	Trianthema pilosum				X																							X																																								
	Trianthema triquetrum																	X																						X					X					X																				
Amaranthaceae	*Aerva javanica*	*																																																																								
	Alternanthera angustifolia																																																																												
	Alternanthera nana																																																																												
	Amaranthus undulatus											X																									X																																								
	Gomphrena cunninghamii			X			X	X															X											X		X	X																																							
	Gomphrena leptoclada subsp. *leptoclada*			X																				X				X										X																																									
	Gomphrena sordida																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
	Bonamia linearis												X																																			X	X							X			X				
	Bonamia media										X												X																																											
	Bonamia pannosa					X						X			X					X												X																				X												
	Bonamia pilbarensis (atypical form)										X																X										X																	X						X		X		
	Bonamia pilbarensis (typical form)																																																																					
	Duperreya commixta																																																																					
	Evolvulus alsinoides var. *decumbens*																											X					X																					X															X
	Evolvulus alsinoides var. *villosicalyx*			X			X	X							X	X		X		X	X	X							X					X					X	X		X	X	X									X														X	
	Ipomoea coptica			X			X																																																																X
	Ipomoea muelleri																																																																					
	Ipomoea polymorpha																																																																					
	Ipomoea sp.																																																																					
	Operculina aequisepala																																																																		X				
	Polymeria ambigua						X				X	X																X																																							X				
	Polymeria sp.		O								X																																																								X				
Cucurbitaceae	*Citrullus amarus*	*																X																																																						
	Cucumis variabilis							X												X	X	X							X		X									X				X																		X								
	Trichosanthes cucumerina																																			X																																				
Cyperaceae	*Abildgaardia oxystachya*																								X																																								X	X		X				
	Bulbostylis barbata			X	X		X	X			X	X	X		X					X	X			X	X	X		X	X	X			X	X		X			X		X		X	X	X	X	X		X	X			X		X												
	Bulbostylis burbidgeae		4	X																																																																								
	Bulbostylis turbinata																																																																										
	Cyperus blakeanus																																																																										
	Cyperus conicus																											X																																														X
	Cyperus cunninghamii subsp. *cunninghamii*			X				X																																					X																										X				
	Cyperus difformis																																																																										
	Cyperus ixiocarpus																											X																																													X
	Cyperus leptocarpus																											X																																													
	Cyperus pulchellus																																																																										
	Cyperus squarrosus							X								X												X																																													
	Cyperus vaginatus																																					X																																						
	Fimbristylis dichotoma			X				X		X	X				X										X	X		X					X																X																					X				
	Fimbristylis microcarya																											X																																														
	Fimbristylis neilsonii						X																										X																																										
	Fimbristylis rara																											X	X									X																																					
	Fimbristylis simulans						X									X																																																																
	Fuirena ciliaris																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
	Acacia orthocarpa				X	X	X	X		X	X		X			X							X		X												X							X																			
	Acacia pyrifolia var. *pyrifolia*			X																																X	X			X																				X						
	Acacia sabulosa							X																																																											
	Acacia sericophylla																													X																																					
	Acacia sphaerostachya																						X	X																																														
	Acacia spondylophylla																																																																							
	Acacia stellaticeps										X			X	X				X				X	X	X				X			X	X						X		X		X		X																									
	Acacia synchronicia																X					X	X																							X																									
	Acacia trachycarpa																											X																				X																									X
	Acacia trachycarpa x ?																																																																											
	Acacia tumida var. *pilbarensis*			X			X	X			X		X														X	X	X		X	X	X	X			X	X						X	X					X	X	X				X	X	X			X			X	
	Acacia tumida var. *pilbarensis x ?citrinoviridis*																																																																							
	Acacia tumida x ?																																																																								
	Acacia tumida x trachycarpa																																																																							
	Alysicarpus muelleri																	X		X																		X																																	
	Cajanus cinereus			X				X										X		X														X		X		X																								X						X			
	Crotalaria cunninghamii																																																																									X
	Crotalaria medicaginea var. *neglecta*																											X										X																																			
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*																																																																										
	Crotalaria ramosissima																											X																																															
	Cullen leucanthum																																																																											
	Cullen martinii																																																																											
	Cullen pogonocarpum																																																																											
	Cullen stipulaceum																																			X																																							
	Grona filiformis																												X														X																																
	Grona muelleri																							X																																																				
	Indigofera colutea																											X								X		X																																						
	Indigofera hirsuta										X																	X																																																				
	Indigofera linifolia						X		X							X				X								X										X																																									
	Indigofera linnaei											X								X																																																														
	Indigofera monophylla				X						X		X		X	X			X		X			X	X	X			X	X	X	X						X	X		X	X	X				X	X	X	X	X		X	X	X	X		X	X		X								
	Indigofera oblongifolia	*																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
	Goodenia lamprosperma						X														X	X						X																																				X
	Goodenia microptera			X	X						X				X										X			X		X				X										X																					X
	Goodenia muelleriana																																																																			
	Goodenia nuda																																																																			
	Goodenia sp.																																																																			
	Goodenia stobbsiana																																																																			
	Goodenia triodiophila																																																																			
	Scaevola amblyanthera var. *centralis*										X																X																																									
	Scaevola browniana subsp. *browniana*												X					X																																																		
	Scaevola spinescens																																																																				
Haloragaceae	*Gonocarpus ephemerus*							X																										X																																			
Lamiaceae	*Clerodendrum floribundum*																																		X																																
	Clerodendrum tomentosum																																																																			
Lauraceae	*Cassytha capillaris*					X																	X						X																																						
Loganiaceae	*Mitrasacme connata*																								X																																											
Lythraceae	*Ammannia baccifera*																											X																																								
	Ammannia multiflora																																																																			X
	Rotala diandra																																																																		
Malvaceae	*Abutilon cunninghamii*			X																																																																	
	Abutilon fraseri																																																																		X
	Abutilon lepidum			X				X																																																												X
	Abutilon otocarpum																											X																																						
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)																																																															
	Abutilon sp. Pilbara (W.R. Barker 2025)																																																														
	Corchorus elachocarpus											X									X																																												
	Corchorus incanus subsp. *incanus*							X																				X				X	X				X																												X
	Corchorus parviflorus			X	X						X					X	X		X									X						X	X			X																								X
	Corchorus sp.																																																																	
	Corchorus tridens																	X																																															
	Gossypium australe																												X						X																													
	Hibiscus austrinus																											X									X																												X
	Hibiscus coatesii																																																																	
	Hibiscus leptocladus										X																																																							
	Hibiscus sp.																						X																																										
	Hibiscus sturtii var. *campylochlamys*										X																																																								
	Hibiscus sturtii var. *platychlamys*						X																										X																																	
	Melhania oblongifolia										X																																																						
	Seringia exastia		T																																																															
	Sida arenicola											X																																																					
	Sida clementii										X																																																					
	Sida echinocarpa																																																																
	Sida fibulifera																																																															
	Sida rohlenae subsp. *rohlenae*														X													X																																					X
	Sida sp.											X																																																				
	Sida sp. L (A.M. Ashby 4202)																																																																
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)											X	X																																																			
	Sida sp. Rabbit Flat (B.J. Carter 626)																																																															
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)																																																															
	Triumfetta appendiculata																																																																	X
	Triumfetta chaetocarpa																																																																	
	Triumfetta clementii							X												X																																													
	Triumfetta incana			X																																																													
	Triumfetta maconochieana																																																														X		X		
	Triumfetta ramosa																																																																	
	Waltheria indica						X	X												X	X												X																															X
	Waltheria virgata																											X																																				
Marsileaceae	*Marsilea hirsuta*																																																																	
	Marsilea sp.																																																																
Menispermaceae	*Tinospora smilacina*			X				X																				X	X		X		X			X																									X		
Molluginaceae	*Glinus oppositifolia* var. *keenanii*																																																																
	Trigastrotheca molluginea				X	X	X	X	X		X	X	X	X	X	X	X		X			X		X	X	X			X	X		X		X				X		X		X	X	X	X	X	X	X		X										
Montiaceae	*Calandrinia pentavalvis*																																																																
	Calandrinia tepperiana							X																				X						X				X																									X
Moraceae	*Ficus aculeata* var. *indecora*																																																																

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
	Ficus brachypoda																																		X																													X				
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*																																																																							
	Corymbia flavescens											X																																																																		
	Corymbia hamersleyana										X				X				X	X	X		X	X	X	X	X		X	X	X	X	X																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2531	T2532	T2533	T2534	T2535	T2536	T2537	T2538	T2539	T2540	T2541	T2542	T2543	T2544	T2545	T2546	T2547	T2548	T2549	T2550	T2551	T2552	T2553	T2554	T2555	T2556	T2557	T2558	T2559	T2560	T2561	T2562	T2563	T2564	T2565	T2566	T2567	T2568	T2569	T2570	T2571	T2572	T2573	T2574	T2575	T2576	T2577	T2578	T2579	T2580	T2581	T2582	T2583	T2584	T2585	T2586	T2587	T2588	T2589	T2590	T2591
	Paspalidium rarum			X				X			X																	X					X																																	
	Paspalidium sp.																												X								X																														
	Paspalidium tabulatum																		

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
Aizoaceae	*Trianthema cusackianum*											X
	Trianthema pilosum						X					
	Trianthema triquetrum			X								X
Amaranthaceae	*Aerva javanica*	*										X
	Alternanthera angustifolia											X
	Alternanthera nana											
	Amaranthus undulatus											X
	Gomphrena cunninghamii				X				X	X	X	X
	Gomphrena leptoclada subsp. *leptoclada*											X
	Gomphrena sordida											X
	Ptilotus arthrolasius											
	Ptilotus astrolasius											
	Ptilotus auriculifolius								X	X	X	X
	Ptilotus axillaris								X			X
	Ptilotus calostachyus							X	X		X	
	Ptilotus clementii											
	Ptilotus exaltatus											
	Ptilotus fusiformis							X			X	
	Ptilotus incanus											X
	Ptilotus obovatus					X						
Apocynaceae	*Calotropis procera*	*										X
	Carissa lanceolata											X
	Cynanchum floribundum				X							
	Gymnanthera cunninghamii		3									X
Araliaceae	*Trachymene oleracea* subsp. *oleracea*											X
Asteraceae	*Bidens bipinnata*	*										X
	Blumea tenella											
	Centipeda minima subsp. *macrocephala*											X
	Flaveria trinervia	*										X
	Peripleura virgata											X
	Pluchea dentex											
	Pluchea ferdinandi-muelleri											
	Pluchea rubelliflora											X
	Pluchea tetranthera											
	Pterocaulon sphacelatum											
	Streptoglossa decurrens									X		X
	Tridax procumbens	*										
Bignoniaceae	*Dolichandrone occidentalis*											X
Boraginaceae	*Ehretia saligna* var. *saligna*				X							X
	Euploca chrysocarpa											X
	Euploca cunninghamii				X							
	Euploca heterantha											
	Euploca mutica		3									X
	Euploca pachyphylla											X
	Euploca tenuifolia							X				
	Heliotropium crispatum											X
	Trichodesma zeylanicum var. *zeylanicum*											
Byblidaceae	*Byblis pilbarana*											X
Campanulaceae	*Wahlenbergia tumidifructa*											
Capparaceae	*Capparis spinosa* subsp. *nummularia*											
	Capparis umbonata											
Caryophyllaceae	*Polycarpaea* aff. *corymbosa*		O									
	Polycarpaea corymbosa var. *corymbosa*				X					X		
	Polycarpaea holtzei							X		X	X	
	Polycarpaea longiflora				X				X			X
Celastraceae	*Stackhousia muricata* subsp. annual (W.R. Barker 2172)											X
Chenopodiaceae	*Maireana georgei*											X
	Salsola australis											
Cleomaceae	*Arivela uncifera*											X
	Arivela viscosa				X	X	X		X	X	X	
Combretaceae	*Terminalia circumalata*				X	X						
Commelinaceae	*Commelina ensifolia*											X
Convolvulaceae	*Bonamia alatisemina*							X				
	Bonamia erecta							X				

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
	Bonamia linearis											X
	Bonamia media											
	Bonamia pannosa						X					
	Bonamia pilbarensis (atypical form)								X	X	X	
	Bonamia pilbarensis (typical form)											
	Duperreya commixta											
	Evolvulus alsinoides var. *decumbens*											
	Evolvulus alsinoides var. *villosicalyx*				X				X	X		
	Ipomoea coptica											
	Ipomoea muelleri											
	Ipomoea polymorpha											
	Ipomoea sp.											
	Operculina aequisepala											X
	Polymeria ambigua						X					
	Polymeria sp.		O									
Cucurbitaceae	*Citrullus amarus*	*										X
	Cucumis variabilis											X
	Trichosanthes cucumerina											
Cyperaceae	*Abildgaardia oxystachya*							X				
	Bulbostylis barbata				X		X		X	X		X
	Bulbostylis burbidgeae		4		X							X
	Bulbostylis turbinata											X
	Cyperus blakeanus											
	Cyperus conicus											X
	Cyperus cunninghamii subsp. *cunninghamii*				X							X
	Cyperus difformis											
	Cyperus ixiocarpus											
	Cyperus leptocarpus											
	Cyperus pulchellus											X
	Cyperus squarrosus											
	Cyperus vaginatus											
	Fimbristylis dichotoma				X			X	X	X	X	X
	Fimbristylis microcarya											
	Fimbristylis neilsonii											
	Fimbristylis rara											
	Fimbristylis simulans											X
	Fuirena ciliaris											X
	Schoenoplectiella dissachantha											X
Droseraceae	*Drosera finlaysoniana*											
Elatinaceae	*Bergia pedicellaris*											X
	Bergia trimera											X
Euphorbiaceae	*Adriana tomentosa* var. *tomentosa*											X
	Euphorbia australis											
	Euphorbia australis var. *hispidula*											X
	Euphorbia australis var. *subtomentosa*				X				X	X		X
	Euphorbia biconvexa											
	Euphorbia boophthona											X
	Euphorbia clementii		3									X
	Euphorbia coghlanii											X
	Euphorbia hirta	*										X
	Euphorbia tannensis subsp. *eremophila*											
	Euphorbia trigonosperma								X			
	Euphorbia vaccaria var. *vaccaria*									X		X
	Microstachys chamaelea											X
Fabaceae	*Acacia acradenia*											X
	Acacia ampliceps											
	Acacia ancistrocarpa				X	X		X				
	Acacia ancistrocarpa x orthocarpa											X
	Acacia bivenosa											
	Acacia bivenosa x pyrifolia											X
	Acacia colei						X					
	Acacia hilliana											
	Acacia inaequilatera				X		X				X	
	Acacia maitlandii									X		X

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
	Acacia orthocarpa							X	X	X	X	
	Acacia pyrifolia var. *pyrifolia*					X			X	X	X	
	Acacia sabulosa											X
	Acacia sericophylla											X
	Acacia sphaerostachya											X
	Acacia spondylophylla											
	Acacia stellaticeps							X				
	Acacia synchronicia											
	Acacia trachycarpa											
	Acacia trachycarpa x ?											
	Acacia tumida var. *pilbarensis*				X	X		X				X
	Acacia tumida var. *pilbarensis x ?citrinoviridis*											
	Acacia tumida x ?											
	Acacia tumida x trachycarpa											X
	Alysicarpus muelleri											
	Cajanus cinereus					X						X
	Crotalaria cunninghamii											
	Crotalaria medicaginea var. *neglecta*											
	Crotalaria novae-hollandiae subsp. *novae-hollandiae*											X
	Crotalaria ramosissima						X					X
	Cullen leucanthum											
	Cullen martinii						X					X
	Cullen pogonocarpum											X
	Cullen stipulaceum											X
	Grona filiformis											
	Grona muelleri											
	Indigofera colutea				X		X					
	Indigofera hirsuta											X
	Indigofera linifolia										X	
	Indigofera linnaei						X					
	Indigofera monophylla							X				
	Indigofera oblongifolia	*										
	Indigofera rugosa											X
	Indigofera trita											
	Isotropis atropurpurea											
	Leptosema anomalum											X
	Neptunia xanthonema											
	Rhynchosia minima					X			X			
	Rothia indica subsp. *australis*		3									X
	Senna artemisioides subsp. *oligophylla*											X
	Senna artemisioides subsp. *oligophylla x helmsii*											
	Senna glutinosa subsp. *glutinosa*							X	X			X
	Senna glutinosa subsp. *pruinosa*											
	Senna glutinosa subsp. *x luerssenii*											
	Senna notabilis						X		X	X		
	Senna symonii											
	Senna venusta											X
	Sesbania cannabina											X
	Stylosanthes hamata	*										X
	Swainsona formosa											X
	Swainsona kingii											X
	Tephrosia clementii								X	X	X	
	Tephrosia rosea var. *clementii*											
	Tephrosia sp.											
	Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)											X
	Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)						X					
	Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 035								X	X	X	
	Tephrosia supina						X					X
	Vachellia farnesiana	*										
	Vigna lanceolata var. *lanceolata*											X
	Zornia muelleriana subsp. *congesta*											X
Goodeniaceae	*Dampiera candicans*							X				
	Goodenia armitiana											X
	Goodenia forrestii											X

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
	Goodenia lamprosperma											
	Goodenia microptera									X		X
	Goodenia muelleriana										X	
	Goodenia nuda											X
	Goodenia sp.											
	Goodenia stobbsiana							X				
	Goodenia triodiophila											
	Scaevola amblyanthera var. *centralis*										X	
	Scaevola browniana subsp. *browniana*											X
	Scaevola spinescens											X
Haloragaceae	*Gonocarpus ephemerus*											
Lamiaceae	*Clerodendrum floribundum*											X
	Clerodendrum tomentosum											X
Lauraceae	*Cassytha capillaris*								X	X		
Loganiaceae	*Mitrasacme connata*											
Lythraceae	*Ammannia baccifera*											X
	Ammannia multiflora											
	Rotala diandra											X
Malvaceae	*Abutilon cunninghamii*											
	Abutilon fraseri											
	Abutilon lepidum											
	Abutilon otocarpum											
	Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)				X							
	Abutilon sp. Pilbara (W.R. Barker 2025)											X
	Corchorus elachocarpus											
	Corchorus incanus subsp. *incanus*											
	Corchorus parviflorus				X	X	X		X	X	X	
	Corchorus sp.											
	Corchorus tridens											X
	Gossypium australe											
	Hibiscus austrinus											X
	Hibiscus coatesii											X
	Hibiscus leptocladus						X					X
	Hibiscus sp.											
	Hibiscus sturtii var. *campylochlamys*											
	Hibiscus sturtii var. *platychlamys*											
	Melhania oblongifolia											
	Seringia exastia		T									X
	Sida arenicola											
	Sida clementii						X					
	Sida echinocarpa											X
	Sida fibulifera											
	Sida rohlenae subsp. *rohlenae*											
	Sida sp.											
	Sida sp. L (A.M. Ashby 4202)											
	Sida sp. Pilbara (A.A. Mitchell PRP 1543)				X		X	X				
	Sida sp. Rabbit Flat (B.J. Carter 626)											X
	Sida sp. spiciform panicles (E. Leyland s.n. 14/8/90)											X
	Triumfetta appendiculata						X					X
	Triumfetta chaetocarpa											
	Triumfetta clementii								X	X		
	Triumfetta incana											X
	Triumfetta maconochieana				X							X
	Triumfetta ramosa											
	Waltheria indica											
	Waltheria virgata											
Marsileaceae	*Marsilea hirsuta*											X
	Marsilea sp.											
Menispermaceae	*Tinospora smilacina*				X	X						
Molluginaceae	*Glinus oppositifolia* var. *keenanii*											X
	Trigastrotheca molluginea				X			X		X	X	X
Montiaceae	*Calandrinia pentavalvis*											X
	Calandrinia tepperiana											
Moraceae	*Ficus aculeata* var. *indecora*											

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
	Ficus brachypoda											X
Myrtaceae	*Corymbia deserticola* subsp. *deserticola*											X
	Corymbia flavescens											
	Corymbia hamersleyana					X		X	X			
	Corymbia zygophylla											X
	Eucalyptus camaldulensis subsp. *refulgens*											
	Eucalyptus victrix											
	Melaleuca argentea											
	Melaleuca glomerata											X
	Melaleuca lasiandra											X
Nyctaginaceae	*Boerhavia coccinea*				X		X			X	X	X
	Boerhavia gardneri											
Oleaceae	*Jasminum didymum* subsp. *lineare*											
Onagraceae	*Ludwigia perennis*											
Orobanchaceae	*Buchnera linearis*											X
Phyllanthaceae	*Flueggea virosa* subsp. *melanthesoides*				X							
	Nellica maderaspatensis											
	Notoleptopus decaisnei var. Orbicularis (A.B. Craig 428)								X	X		
Plantaginaceae	*Stemodia grossa*											
	Stemodia kingii											X
	Stemodia viscosa											X
Poaceae	*Aristida contorta*				X			X	X	X	X	
	Aristida holathera var. *holathera*						X	X				
	Aristida hygrometrica											X
	Aristida inaequiglumis											
	Bothriochloa ewartiana											X
	Bothriochloa sp.											
	Cenchrus ciliaris	*			X							X
	Cenchrus setiger	*										X
	Chloris pumilio											
	Chloris virgata	*										X
	Chrysopogon fallax											
	Cymbopogon ambiguus				X				X	X		
	Cynodon convergens											
	Dactyloctenium radulans											X
	Dichanthium sericeum subsp. *humilius*											
	Digitaria ctenantha				X							X
	Enneapogon caerulescens								X	X	X	
	Enneapogon lindleyanus				X				X			X
	Enneapogon robustissimus											
	Eragrostis cumingii											
	Eragrostis desertorum											X
	Eragrostis dielsii											X
	Eragrostis elongata											
	Eragrostis eriopoda						X					
	Eragrostis speciosa											X
	Eragrostis tenellula											X
	Eragrostis xerophila											
	Eriachne aristidea											X
	Eriachne benthamii											X
	Eriachne ciliata				X			X	X	X	X	
	Eriachne lanata											
	Eriachne melicacea											X
	Eriachne mucronata				X			X		X	X	
	Eriachne obtusa											
	Eriachne pulchella subsp. *dominii*											
	Eriachne pulchella subsp. *pulchella*							X	X	X	X	
	Eriachne sp.											
	Eulalia aurea											
	Heteropogon contortus											
	Iseilema eremaeum									X		
	Neurachne muelleri											
	Panicum australiense var. *australiense*				X						X	X
	Paspalidium clementii											

Table 21: Site x species matrix

Family	Species	Intr.	Cons.	T2592	T2593	T2594	T2595	T2596	T2597	T2598	T2599	Opp.
	Paspalidium rarum											
	Paspalidium sp.										X	
	Paspalidium tabulatum				X							
	Perotis rara				X		X					
	Poaceae sp.											X
	Schizachyrium fragile									X		
	Setaria surgens											
	Sorghum plumosum var. *plumosum*											X
	Sporobolus actinocladus											
	Sporobolus australasicus			X						X	X	X
	Themeda triandra											
	Triodia chichesterensis		3						X	X	X	X
	Triodia epactia			X	X	X	X	X	X	X	X	
	Triodia lanigera							X				X
	Triodia schinzii											
	Triodia secunda			X								
	Triodia wiseana								X	X	X	X
	Tripogonella loliiformis											
	Whiteochloa airoides											
	Xerochloa barbata											X
Polygalaceae	*Polygala galeocephala*											
	Polygala glaucifolia							X	X	X	X	
	Polygala isingii											X
Portulacaceae	*Portulaca digyna*											X
	Portulaca filifolia											X
	Portulaca oleracea				X			X		X		
Proteaceae	*Grevillea pyramidalis* subsp. *leucadendron*											X
	Grevillea wickhamii											X
	Hakea chordophylla											X
	Hakea lorea subsp. *lorea*											
Pteridaceae	*Cheilanthes brownii*											X
	Cheilanthes sieberi subsp. *sieberi*											
Rubiaceae	*Dolichocarpa crouchiana*								X	X	X	X
	Paranotis pterospora											
	Scleromitrion galioides											
	Synaptantha tillaeacea var. *tillaeacea*											
Santalaceae	*Santalum lanceolatum*											
Sapindaceae	*Atalaya hemiglauca*											X
	Dodonaea coriacea											X
Scrophulariaceae	*Eremophila* sp.											
Solanaceae	*Nicotiana bilybara*											X
	Nicotiana umbratica		3									X
	Solanum chippendalei											
	Solanum cleistogamum											
	Solanum diversiflorum											
	Solanum phlomoides											
	Solanum sp. aff. *gabrielae*		O									X
Stylidiaceae	*Stylidium desertorum*											X
Thymelaeaceae	*Pimelea ammocharis*											X
Violaceae	*Afrohybanthus aurantiacus*							X	X			
Zygophyllaceae	*Tribulopis angustifolia*											
	Tribulus hirsutus									X	X	
	Tribulus platypterus					X						X

APPENDIX FIVE FLORISTIC QUADRAT DATA

T24001

Staff SOK **Date** 11/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698895 **mE** 7713060 **mN** **Lat.** -20.6713 **Long.** 118.9093

Habitat Flat

Aspect SE **Slope** N/A

Soil Type Orange sandy loam

Rock Type Quartz

Loose Rock 0 % cover **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** <1 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^^*Acacia orthocarpa*,*Acacia ancistrocarpa*,*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	1	
Acacia colei		3	<1	
Acacia inaequilatera		2	1	
Acacia orthocarpa		3	5	
Acacia stellaticeps		1	<1	

Afrohybanthus aurantiacus		0.4	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
**Cenchrus ciliaris*		0.4	<1	
Chrysopogon fallax		0.5	<1	
Corchorus parviflorus		0.35	<1	
Corymbia hamersleyana		5	1	
Indigofera monophylla		0.5	<1	
Indigofera trita		0.2	<1	
Pluchea ferdinandi-muelleri		0.3	<1	
Polymeria ambigua		0.1	<1	
Triodia chichesterensis	P 3	0.3	45	200
Triodia epactia		0.4	4	

T24002

Staff SOK **Date** 11/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699426 **mE** 7712703 **mN** **Lat.** -20.6745 **Long.** 118.9145

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** <1 % cover

Vegetation G+ ^*Triodia secunda*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		0.2	<1	
**Cenchrus ciliaris*		0.3	<1	
**Cenchrus setiger*		0.3	<1	
Cheilanthes sieberi subsp. *sieberi*		0.3	<1	
Chrysopogon fallax		0.5	<1	
Corchorus tridens		0.1	<1	

Eriachne obtusa	0.3	<1
Euphorbia coghlanii	0.3	<1
Fimbristylis dichotoma	0.2	3
Indigofera colutea	0.1	<1
Indigofera linifolia	0.2	<1
Pluchea ferdinandi-muelleri	0.3	<1
Pluchea rubelliflora	0.3	<1
Salsola australis	0.3	<1
Senna notabilis	0.4	<1
Sida sp. L (A.M. Ashby 4202)	0.1	<1
Solanum diversiflorum	0.3	<1
Tribulopis angustifolia	0.1	<1
Triodia epactia	0.4	20
Triodia secunda	0.3	30

T24003

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700015 **mE** 7711855 **mN** **Lat.** -20.6821 **Long.** 118.9202

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\r;M+ ^*Acacia inaequilatera*,^*Acacia colei*\^shrub\4\r;G ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia colei		3	2	
Acacia inaequilatera		2.5	4	
Acacia orthocarpa		2	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	

Carissa lanceolata			2	<1	
Chrysopogon fallax			0.4	<1	
Corymbia hamersleyana			4	2	
Eriachne obtusa			0.5	<1	
Gossypium australe			0.3	<1	
Hibiscus sturtii var. *platychlamys*			0.3	<1	
Indigofera monophylla			0.4	<1	
Indigofera trita			0.2	<1	
Rhynchosia minima			0.3	<1	
Senna notabilis			0.3	<1	
Triodia chichesterensis		P 3	0.3	35	250
Triodia epactia			0.5	15	

T24004

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700453 **mE** 7711282 **mN** **Lat.** -20.6872 **Long.** 118.9245

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*,^*Acacia bivenosa*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle movement

Fire Age 2-5 years

Notes Eastern side of the road has been burnt more recently, other side hasn't



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	4	
Acacia bivenosa		2	2	
Bonamia erecta		0.1	<1	
Corymbia hamersleyana		4	1	
Euploca mutica	P 3	0.1	<1	2

Ptilotus calostachyus		0.5	<1	
Triodia chichesterensis	P 3	0.2	<1	15
Triodia lanigera		0.4	50	

T24005

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 700738 **mE** 7710872 **mN** **Lat.** -20.6909 **Long.** 118.9273

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 3 % cover ; 0-3 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*,^*Corymbia flavescens*\^tree\6\r;M+ ^^*Acacia tumida* var. *pilbarensis*, *Acacia pyrifolia* var. *pyrifolia*,*Acacia bivenosa*\^shrub\4\i;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2.5	<1	
Acacia bivenosa		2	2	
Acacia colei		3	<1	
Acacia pyrifolia var. *pyrifolia*		2	1	
Acacia stellaticeps		0.4	<1	

Acacia trachycarpa	1	<1
Acacia trachycarpa x ?	1	<1
Acacia tumida var. *pilbarensis*	2.5	8
Afrohybanthus aurantiacus	0.3	<1
Bonamia erecta	0.3	<1
Cassytha capillaris	0.5	<1
Chrysopogon fallax	0.5	<1
Corchorus elachocarpus	0.5	<1
Corchorus incanus subsp. *incanus*	1	<1
Corymbia flavescens	5	1
Corymbia hamersleyana	5	2
Eriachne obtusa	0.3	<1
Euploca pachyphylla	0.4	<1
Hakea lorea subsp. *lorea*	0.8	<1
Indigofera monophylla	0.5	<1
Isotropis atropurpurea	0.3	<1
Pluchea dentex	0.2	<1
Polymeria ambigua	0.4	<1
Rhynchosia minima	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Triodia epactia	0.5	20
Triodia lanigera	0.2	<1
Waltheria indica	0.2	<1

T24006

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700789 **mE** 7710885 **mN** **Lat.** -20.6907 **Long.** 118.9278

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia secunda*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1.5	<1	
Acacia stellaticeps		0.5	<1	
Fimbristylis dichotoma		0.1	<1	
Pluchea tetranthera		0.15	<1	
Triodia epactia		0.4	20	
Triodia secunda		0.3	25	

T24007

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 701533 **mE** 7710168 **mN** **Lat.** -20.6971 **Long.** 118.9350

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light red brown sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 4 % cover ; 0-5 cm in depth

Bare ground 90 % cover **Weeds** 1 % cover

Vegetation U+ ^*Eucalyptus victrix*,^*Melaleuca argentea*\^tree\6\r;M ^^*Acacia tumida* var. *pilbarensis*,*Acacia trachycarpa*,*Acacia pyrifolia* var. *pyrifolia*\^shrub\4\r;G ^*Triodia epactia*,^*Cymbopogon ambiguus*\^hummock grass,tussock grass\1\r

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		3	<1	
Acacia pyrifolia var. *pyrifolia*		2	2	
Acacia trachycarpa		3	2	
Acacia tumida var. *pilbarensis*		2.5	5	

Afrohybanthus aurantiacus	0.3	<1
Arivela viscosa	0.3	<1
Bonamia linearis	0.1	<1
Bonamia pannosa	0.1	<1
Bonamia pilbarensis (atypical form)	0.1	<1
**Cenchrus ciliaris*	0.4	<1
Chrysopogon fallax	0.5	<1
Corchorus incanus subsp. *incanus*	0.5	<1
Corymbia flavescens	3	<1
Cymbopogon ambiguus	0.5	1
Cynanchum floribundum	0.3	<1
Cyperus ixiocarpus	0.5	<1
Eragrostis cumingii	0.1	<1
Eucalyptus victrix	7	5
Eulalia aurea	0.6	1
Euphorbia australis var. *hispidula*	0.1	<1
Euphorbia tannensis subsp. *eremophila*	0.4	<1
Evolvulus alsinoides var. *decumbens*	0.3	<1
Flueggea virosa subsp. *melanthesoides*	2	<1
Heteropogon contortus	0.6	<1
Indigofera linifolia	0.2	<1
Indigofera linnaei	0.1	<1
Indigofera trita	0.5	<1
Ipomoea muelleri	0.1	<1
Isotropis atropurpurea	0.5	<1
Melaleuca argentea	6	1
Nellica maderaspatensis	0.4	<1
Pluchea dentex	0.3	<1
Polymeria ambigua	0.3	<1
Rhynchosia minima	0.3	<1
Senna notabilis	0.4	<1
Solanum phlomoides	0.4	<1
Synaptantha tillaeacea var. *tillaeacea*	0.1	<1
Tinospora smilacina	0.2	<1
Triodia epactia	0.5	3
Waltheria indica	0.4	<1

T24008

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701821 **mE** 7709083 **mN** **Lat.** -20.7069 **Long.** 118.9379

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light red brown sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	1	
Acacia inaequilatera		2	3	
Bonamia erecta		0.3	<1	
Euploca mutica	P 3	0.2	<1	5
Indigofera monophylla		0.3	<1	

Ptilotus astrolasius	0.3	<1
Scaevola browniana subsp. *browniana*	0.3	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Triodia lanigera	0.4	30

T24009

Staff SOK **Date** 12/03/2024 **Season** A

Revisit A

Type Q 100 m x 25 m

Location

MGA Zone 50 702095 **mE** 7707547 **mN** **Lat.** -20.7207 **Long.** 118.9407

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red brown alluvial sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 3 % cover ; 0-5 cm in depth

Bare ground 50 % cover **Weeds** <1 % cover

Vegetation U+ ^*Corymbia hamersleyana*,^*Eucalyptus victrix*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*, ^*Acacia pyrifolia* var. *pyrifolia*\^shrub\4\r;G ^*Triodia epactia*,^*Chrysopogon fallax*\^hummock grass, tussock grass\1\i

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia bivenosa		1	<1	
Acacia orthocarpa		2	<1	
Acacia pyrifolia var. *pyrifolia*		2	1	

Acacia stellaticeps	0.5	<1
Acacia tumida var. *pilbarensis*	2.5	7
Afrohybanthus aurantiacus	0.3	<1
Bonamia erecta	0.3	<1
Cassytha capillaris	.2	<1
**Cenchrus ciliaris*	0.3	<1
Chrysopogon fallax	0.4	3
Corchorus elachocarpus	0.5	<1
Corchorus incanus subsp. *incanus*	0.8	<1
Corymbia hamersleyana	5	4
Cymbopogon ambiguus	0.5	<1
Dactyloctenium radulans	.15	<1
Eucalyptus victrix	3	2
Euphorbia australis var. *subtomentosa*	.05	<1
Euphorbia coghlanii	.08	<1
Euploca pachyphylla	0.3	<1
Ficus aculeata var. *indecora*	2	<1
Grevillea wickhamii	0.4	<1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Indigofera monophylla	0.4	<1
Isotropis atropurpurea	0.4	<1
Polymeria ambigua	<1	<1
Rhynchosia minima	0.3	<1
Scaevola amblyanthera var. *centralis*	0.2	<1
Senna notabilis	0.3	<1
Sida clementii	1.5	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	<1
Solanum diversiflorum	0.3	<1
Solanum phlomoides	0.4	<1
Sporobolus australasicus	.15	<1
Stemodia grossa	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Themeda triandra	.4	<1
Tinospora smilacina	0.2	<1
Triodia epactia	0.5	25
Triumfetta chaetocarpa	0.6	<1

T24010

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702849 **mE** 7706073 **mN** **Lat.** -20.7340 **Long.** 118.9481

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light red brown sandy loam

Rock Type Quartz, granite

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia inaequilatera*\^hummock grass\3\bi;G ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	<1	
Acacia inaequilatera		1.5	1	
Afrohybanthus aurantiacus		0.2	<1	
Corchorus elachocarpus		0.4	<1	
Corymbia hamersleyana		6	2	

Euploca chrysocarpa		0.3	<1	
Euploca cunninghamii		0.2	<1	
Ptilotus astrolasius		0.2	<1	
Ptilotus exaltatus		0.1	<1	
Senna symonii		0.5	<1	
Tephrosia clementii		0.3	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Tinospora smilacina		0.2	<1	
Triodia chichesterensis	P 3	0.3	25	250

T24011

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702883 **mE** 7704941 **mN** **Lat.** -20.7442 **Long.** 118.9485

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia stellaticeps*\^shrub\3\i;G ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		2	<1	
Acacia stellaticeps		1	3	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia pilbarensis (atypical form)		0.2	<1	
Cassytha capillaris		0.3	<1	
Indigofera monophylla		0.4	<1	

Ptilotus astrolasius		0.3	<1	
Triodia chichesterensis	P 3	0.4	<1	10
Triodia epactia		0.4	30	
Triodia lanigera		0.4	10	

T24012

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699314 **mE** 7712023 **mN** **Lat.** -20.6806 **Long.** 118.9135

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		2	2	
Acacia orthocarpa		2	<1	
Corymbia hamersleyana		2	<1	
Fimbristylis dichotoma		0.2	<1	

Solanum phlomoides		0.4	<1	
Triodia chichesterensis	P 3	0.3	30	300
Triodia epactia		0.5	5	

T24013

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699579 **mE** 7712373 **mN** **Lat.** -20.6774 **Long.** 118.9160

Habitat Flat

Aspect E **Slope** Moderate

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 20 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*\^shrub\4\r;G ^*Triodia epactia*,^,*Triodia wiseana*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		3	3	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Arivela viscosa		0.2	<1	
Fimbristylis dichotoma		0.08	<1	
Indigofera linifolia		0.2	<1	
Indigofera monophylla		0.3	<1	

Senna notabilis	0.2	<1
Tribulus hirsutus	0.1	<1
Triodia epactia	0.4	40
Triodia wiseana	0.3	2

T24014

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699708 **mE** 7712740 **mN** **Lat.** -20.6741 **Long.** 118.9172

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Mixed

Loose Rock <2 % cover; 6-20 mm in size **Litter** 8 % cover ; 0-10 cm in depth

Bare ground 65 % cover **Weeds** 4 % cover

Vegetation U+ ^*Eucalyptus victrix*\^tree\6\i;M ^*Acacia tumida* var. *pilbarensis*,^*Acacia trachycarpa*\^shrub\4\r; G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Grazing, weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ampliceps		2	<1	
Acacia colei		3	<1	
Acacia synchronicia		1	<1	
Acacia trachycarpa		3	2	
Acacia tumida var. *pilbarensis*		2.5	4	

Afrohybanthus aurantiacus	0.4	<1
Aristida holathera var. *holathera*	0.4	<1
Arivela viscosa	0.3	<1
Boerhavia coccinea	0.2	<1
Bothriochloa sp.	0.6	<1
Bulbostylis barbata	0.1	<1
**Calotropis procera*	0.8	<1
Carissa lanceolata	2	<1
**Cenchrus ciliaris*	0.4	4
Chrysopogon fallax	0.4	<1
Corchorus elachocarpus	0.6	<1
Corchorus sp.	0.3	<1
Cynanchum floribundum	0.4	<1
Eragrostis cumingii	0.1	<1
Eragrostis elongata	0.3	<1
Eucalyptus victrix	7	10
Euphorbia coghlanii	0.3	<1
Euphorbia coghlanii	0.4	<1
Evolvulus alsinoides var. *decumbens*	0.2	<1
Flueggea virosa subsp. *melanthesoides*	0.4	<1
Goodenia lamprosperma	0.1	<1
Grona filiformis	0.1	<1
Indigofera linifolia	0.2	<1
Indigofera linnaei	0.1	<1
Ipomoea coptica	0.3	<1
Ipomoea polymorpha	0.1	<1
Marsilea sp.	0.1	<1
Nellica maderaspatensis	0.4	<1
Perotis rara	0.1	<1
Pluchea tetranthera	0.4	<1
Rhynchosia minima	0.3	<1
Senna notabilis	0.3	<1
Sida rohlenae subsp. *rohlenae*	0.4	<1
Solanum diversiflorum	0.3	<1
Tinospora smilacina	0.4	<1
Triodia epactia	0.5	15
Waltheria indica	0.3	<1

T24015

Staff SOK **Date** 12/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700389 **mE** 7713891 **mN** **Lat.** -20.6636 **Long.** 118.9236

Habitat Small ridge

Aspect S **Slope** Moderate

Soil Type Red brown sandy loam

Rock Type Basalt

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** <1 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\3\r;G+ ^*Triodia epactia*,^*Triodia wiseana*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	2	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Boerhavia gardneri		0.2	<1	
Cymbopogon ambiguus		0.5	<1	
Eriachne mucronata		0.4	<1	
Evolvulus alsinoides var. *villosicalyx*		0.3	<1	

Hakea lorea subsp. *lorea*	2	<1
Indigofera monophylla	0.4	<1
Triodia epactia	0.5	40
Triodia wiseana	0.5	10

T24016

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702630 **mE** 7708980 **mN** **Lat.** -20.7077 **Long.** 118.9457

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz, granite

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation G ^*Triodia secunda*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Grazing, cattle trampling

Fire Age >5 years

Notes Quadrat adjacent to large granite outcrops



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.3	<1	
Fimbristylis dichotoma		0.1	<1	
Salsola australis		0.1	<1	
Sporobolus actinocladus		0.2	<1	
Triodia epactia		0.3	5	
Triodia secunda		0.2	25	

T24017

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704551 **mE** 7709101 **mN** **Lat.** -20.7064 **Long.** 118.9641

Habitat Outcrop

Aspect S **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-2 cm in depth

Bare ground 65 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes Non bounded site to represent outcropping vegetation



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		1.6	<1	
Acacia tumida var. *pilbarensis*		2	7	
Bonamia linearis		0.1	<1	
Fimbristylis dichotoma		0.2	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.5	<1	
Tephrosia rosea var. *clementii*		0.5	<1	

Triodia epactia	0.5	25

T24018

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704638 **mE** 7708379 **mN** **Lat.** -20.7130 **Long.** 118.9650

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.3	2	
Acacia bivenosa		1	<1	
Acacia sphaerostachya		1	<1	
Acacia stellaticeps		0.4	<1	
Afrohybanthus aurantiacus		0.3	<1	

Arivela uncifera		0.3	<1	
Corchorus elachocarpus		0.5	<1	
Corymbia hamersleyana		6	3	
Euploca mutica	P 3	0.3	<1	20
Euploca pachyphylla		0.4	<1	
Fimbristylis dichotoma		0.2	<1	
Indigofera monophylla		0.3	<1	
Polymeria ambigua		0.1	<1	
Ptilotus astrolasius		0.3	<1	
Senna glutinosa subsp. *glutinosa*		1	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.5	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Triodia epactia		0.4	<1	
Triodia lanigera		0.3	28	
Triodia secunda		0.2	<1	

T24019

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704144 **mE** 7708649 **mN** **Lat.** -20.7106 **Long.** 118.9602

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay loam

Rock Type Granite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia stellaticeps*\^shrub\3\r;G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia sphaerostachya		1	<1	
Acacia stellaticeps		0.5	8	
Corchorus elachocarpus		0.6	<1	
Corymbia hamersleyana		0.8	<1	
Euploca mutica	P 3	0.3	<1	10
Indigofera monophylla		0.4	<1	

Pluchea tetranthera	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Triodia epactia	0.4	35
Triodia lanigera	0.4	2

T24020

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703794 **mE** 7708564 **mN** **Lat.** -20.7114 **Long.** 118.9569

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Grey brown loam

Rock Type Calcrete

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corymbia hamersleyana		5	0.5	
Pluchea tetranthera		0.3	<1	
Triodia chichesterensis	P 3	0.2	25	250

T24021

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 710379 **mE** 7734150 **mN** **Lat.** -20.4796 **Long.** 119.0170

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** <1 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\\;M+ ^*Acacia inaequilatera*\^shrub\3\r;G ^^*Triodia epactia*, *Triodia lanigera*,*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	8	
Acacia stellaticeps		0.5	5	
Afrohybanthus aurantiacus		0.5	<1	
Aristida holathera var. *holathera*		0.4	<1	
Carissa lanceolata		1	<1	

Cassytha capillaris	0.3	<1
**Cenchrus ciliaris*	0.35	<1
Corchorus incanus subsp. *incanus*	0.5	<1
Corymbia hamersleyana	3	0.5
Euploca pachyphylla	0.4	<1
Hakea lorea subsp. *lorea*	2	<1
Ptilotus astrolasius	0.4	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.2	<1
Triodia epactia	0.4	25
Triodia lanigera	0.4	20

T24022

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 710332 **mE** 7733370 **mN** **Lat.** -20.4866 **Long.** 119.0167

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		2	12	
Acacia sphaerostachya		1	<1	
Acacia stellaticeps		0.5	<1	
Cassytha capillaris		0.5	<1	
Corymbia hamersleyana		2	<1	

Triodia epactia	0.4	15
Triodia lanigera	0.4	35

T24023

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 710065 **mE** 7731897 **mN** **Lat.** -20.5000 **Long.** 119.0143

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia bivenosa*\^shrub\3\r;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1.5	<1	
Acacia inaequilatera		2	5	
Acacia stellaticeps		0.5	<1	
Aristida holathera var. *holathera*		0.4	<1	
Bonamia linearis		0.2	<1	

Cassytha capillaris	0.6	<1
Cassytha capillaris	0.3	<1
Euphorbia tannensis subsp. *eremophila*	0.05	<1
Triodia epactia	0.4	5
Triodia lanigera	0.4	30

T24024

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709886 **mE** 7731165 **mN** **Lat.** -20.5066 **Long.** 119.0127

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia stellaticeps*\^shrub\3\i;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia pyrifolia var. *pyrifolia*		1.5	<1	
Acacia stellaticeps		0.8	10	
Carissa lanceolata		1	<1	
Fimbristylis dichotoma		0.1	<1	
Pluchea tetranthera		0.3	<1	
Triodia epactia		0.4	15	

Triodia lanigera	0.4	30

T24025

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709852 **mE** 7730122 **mN** **Lat.** -20.5160 **Long.** 119.0125

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Triodia epactia		0.4	40	

T24026

Staff SOK **Date** 13/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709421 **mE** 7727920 **mN** **Lat.** -20.5360 **Long.** 119.0086

Habitat Flat

Aspect W **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		7	2	
Pluchea tetranthera		0.4	<1	
Salsola australis		0.3	<1	
Senna artemisioides subsp. *oligophylla*		1	<1	
Senna glutinosa subsp. x *luerssenii*		0.5	<1	

Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.5	<1	
Tephrosia clementii		0.1	<1	
Triodia chichesterensis	P 3	0.3	30	100
Triodia epactia		0.4	7	
Triodia secunda		0.2	3	

T24027

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704837 **mE** 7704631 **mN** **Lat.** -20.7468 **Long.** 118.9673

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light red sandy clay

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia secunda*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Triodia epactia		0.4	<1	
Triodia secunda		0.2	25	

T24028

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705512 **mE** 7704667 **mN** **Lat.** -20.7464 **Long.** 118.9738

Habitat Outcrop

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Granite

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes Unbounded quadrat based on outcropping



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia tumida var. *pilbarensis*		1.5	7	
Aristida holathera var. *holathera*		0.4	<1	
Bonamia linearis		0.2	<1	
Bulbostylis burbidgeae	P 4	0.1	<1	3
Fimbristylis dichotoma		0.1	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.4	<1	

Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Triodia epactia	0.4	35

T24029

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 705710 **mE** 7705104 **mN** **Lat.** -20.7424 **Long.** 118.9757

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Brown sand

Rock Type Granite

Loose Rock <2 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-2 cm in depth

Bare ground 80 % cover **Weeds** <1 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia bivenosa		0.5	<1	
Acacia stellaticeps		0.4	<1	
Acacia tumida var. *pilbarensis*		1.5	4	
Afrohybanthus aurantiacus		0.3	<1	

Aristida holathera var. *holathera*	0.4	<1
Cassytha capillaris	0.4	<1
**Cenchrus ciliaris*	0.4	<1
Chrysopogon fallax	0.4	<1
Corchorus elachocarpus	0.5	<1
Corymbia hamersleyana	6	2
Eragrostis cumingii	0.1	<1
Eriachne obtusa	0.3	<1
Euphorbia coghlanii	0.4	<1
Euploca pachyphylla	0.4	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Fimbristylis dichotoma	0.1	<1
Grevillea wickhamii	1	<1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Indigofera monophylla	0.4	<1
Isotropis atropurpurea	0.5	<1
Nellica maderaspatensis	0.4	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.3	<1
Pluchea dentex	0.4	<1
Polymeria ambigua	0.2	<1
Senna notabilis	0.1	<1
Solanum diversiflorum	0.4	<1
Stemodia grossa	0.5	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Triodia epactia	0.4	20
Triodia secunda	0.2	<1

T24030

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705473 **mE** 7704980 **mN** **Lat.** -20.7436 **Long.** 118.9734

Habitat Outcrop

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Granite

Loose Rock 2-10 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 90 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes Unbounded site based on outcropping



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia maitlandii		0.3	<1	
Acacia tumida var. *pilbarensis*		1.6	5	
Afrohybanthus aurantiacus		0.4	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.3	<1	
Bonamia linearis		0.3	<1	

Eragrostis eriopoda	0.4	<1
Eriachne mucronata	0.3	<1
Eriachne pulchella subsp. *dominii*	0.3	<1
Fimbristylis dichotoma	0.2	<1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Indigofera monophylla	0.4	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	10

T24031

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704982 **mE** 7705166 **mN** **Lat.** -20.7419 **Long.** 118.9687

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sandy clay

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation G ^*Triodia secunda*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minor grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Triodia secunda		0.2	25	

T24032

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704167 **mE** 7705288 **mN** **Lat.** -20.7409 **Long.** 118.9608

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	7	
Acacia inaequilatera		1.5	<1	
Acacia maitlandii		0.5	<1	
Acacia tumida var. *pilbarensis*		1.5	<1	
Afrohybanthus aurantiacus		0.2	<1	
Arivela uncifera		0.3	<1	

Bonamia erecta		0.3	<1	
Bonamia linearis		0.1	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Euploca mutica	P 3	0.2	<1	20
Euploca pachyphylla		0.3	<1	
Indigofera monophylla		0.4	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.3	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Triodia lanigera		0.4	25	

T24033

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701095 **mE** 7714645 **mN** **Lat.** -20.6568 **Long.** 118.9303

Habitat Mid-Slope

Aspect S **Slope** Gentle

Soil Type Red brown loam

Rock Type Granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\3\bi;G+ ^^*Triodia wiseana*,*Triodia chichesterensis*,*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	1	
Enneapogon caerulescens		0.2	<1	
Triodia chichesterensis	P 3	0.4	10	100
Triodia epactia		0.4	5	
Triodia wiseana		0.4	20	

T24034

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702150 **mE** 7717308 **mN** **Lat.** -20.6326 **Long.** 118.9401

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 1 % cover ; 2 cm in depth

Bare ground 90 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia synchronicia*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\r

Veg. Condition Poor

Disturbance Cattle

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		1.5	6	
**Cenchrus ciliaris*		0.1	<1	
Neptunia xanthonema		0.02	<1	
Salsola australis		0.15	<1	
Senna artemisioides subsp. *oligophylla*		0.5	<1	
Sida fibulifera		0.03	<1	

Sida sp. L (A.M. Ashby 4202)	0.2	<1
Triodia epactia	0.3	7

T24035

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702223 **mE** 7717774 **mN** **Lat.** -20.6284 **Long.** 118.9407

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	8	
Acacia bivenosa		2	<1	
Acacia inaequilatera		1.6	<1	
Acacia stellaticeps		0.5	<1	
Acacia synchronicia		1.5	<1	
**Aerva javanica*		0.2	<1	

Afrohybanthus aurantiacus	0.4	<1
Aristida contorta	0.3	<1
Cassytha capillaris	0.4	<1
Corchorus elachocarpus	0.5	<1
Corchorus parviflorus	0.5	<1
Corymbia hamersleyana	2	<1
Hakea lorea subsp. *lorea*	0.5	<1
Nellica maderaspatensis	0.3	<1
Ptilotus calostachyus	0.5	<1
Rhynchosia minima	0.2	<1
Senna artemisioides subsp. *oligophylla*	1.5	<1
Senna glutinosa subsp. *glutinosa*	1	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.2	<1
Triodia epactia	0.4	15

T24036

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702415 **mE** 7718163 **mN** **Lat.** -20.6248 **Long.** 118.9425

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light brown clay loam

Rock Type Quartz

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 90 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia synchronicia*\^Shrub\\bi;G+ ^*Triodia epactia*\^hummock grass\1\r

Veg. Condition Poor

Disturbance Cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.4	<1	
Acacia synchronicia		2	1	
Eragrostis xerophila		0.1	<1	
Triodia epactia		0.3	7	

T24037

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702416 **mE** 7718231 **mN** **Lat.** -20.6242 **Long.** 118.9425

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz, granite

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 5 % cover ; 0-5 cm in depth

Bare ground 35 % cover **Weeds** 10 % cover

Vegetation U+ ^*Corymbia hamersleyana*,^*Corymbia flavescens*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*, ^*Acacia ancistrocarpa*\^shrub\4\i;G ^*Triodia epactia*,^*Cenchrus ciliaris*\^hummock grass,tussock grass\1\i

Veg. Condition Poor

Disturbance Weeds, grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2.5	10	
Acacia bivenosa		2	<1	
Acacia colei		3	<1	
Acacia inaequilatera		1	<1	

Acacia stellaticeps	1	<1
Acacia synchronicia	2	<1
Acacia tumida var. *pilbarensis*	3	10
Alternanthera nana	0.2	<1
Bothriochloa sp.	0.5	<1
Carissa lanceolata	1	<1
**Cenchrus ciliaris*	0.4	20
**Cenchrus setiger*	0.3	<1
Chrysopogon fallax	0.5	<1
Corchorus elachocarpus	0.5	<1
Corchorus incanus subsp. *incanus*	1	<1
Corymbia flavescens	4	2
Corymbia hamersleyana	6	2
Ehretia saligna var. *saligna*	2	<1
Euploca pachyphylla	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Indigofera trita	0.4	<1
Isotropis atropurpurea	1	<1
Jasminum didymum subsp. *lineare*	2	<1
Nellica maderaspatensis	0.4	<1
Neptunia xanthonema	0.3	<1
Pluchea tetranthera	0.5	<1
Polymeria ambigua	0.1	<1
Rhynchosia minima	0.3	<1
Senna artemisioides subsp. *oligophylla*	1	<1
Sida rohlenae subsp. *rohlenae*	0.3	<1
Tinospora smilacina	0.2	<1
Triodia epactia	0.4	25

T24038

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 702956 **mE** 7719122 **mN** **Lat.** -20.6161 **Long.** 118.9476

Habitat Sandplain

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia schinzii*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes Quadrat orientated along road edge



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.3	<1	
Bonamia erecta		0.25	<1	
Bonamia linearis		0.15	<1	
Fimbristylis dichotoma		0.08	<1	
Indigofera monophylla		0.25	<1	
Ptilotus astrolasius		0.25	<1	

Tephrosia rosea var. *clementii*	0.35	<1
Trigastrotheca molluginea	0.1	<1
Triodia schinzii	0.5	50
Triumfetta ramosa	0.2	<1

T24039

Staff SOK **Date** 14/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703112 **mE** 7719326 **mN** **Lat.** -20.6143 **Long.** 118.9491

Habitat Sandplain

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia schinzii*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor grazing

Fire Age >5 years

Notes Quadrat orientated along road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.3	<1	
Acacia tumida var. *pilbarensis*		1.5	<1	
Afrohybanthus aurantiacus		0.1	<1	
Bonamia erecta		0.4	<1	
Bonamia linearis		0.2	<1	
Corchorus elachocarpus		0.5	<1	

Dampiera candicans		0.4	<1	
Eragrostis eriopoda		0.4	<1	
Euploca mutica	P 3	0.1	<1	10
Indigofera monophylla		0.4	<1	
Ptilotus arthrolasius		0.4	<1	
Ptilotus astrolasius		0.4	<1	
Tephrosia rosea var. *clementii*		0.5	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Trigastrotheca molluginea		.1	<1	
Triodia schinzii		0.3	50	
Triumfetta ramosa		0.4	<1	

T24040

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703082 **mE** 7706979 **mN** **Lat.** -20.7258 **Long.** 118.9502

Habitat Flat

Aspect N **Slope** Very Gentle

Soil Type Light red brown clay loam

Rock Type Calcrete

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia stellaticeps*\^shrub\3\r;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minor cattle grazing

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		0.4	<1	
Acacia sphaerostachya		0.3	<1	
Acacia stellaticeps		0.25	10	
Bonamia pilbarensis (atypical form)		0.2	<1	
Corymbia hamersleyana		0.5	<1	
Eremophila sp.		0.15	<1	

Euploca cunninghamii		0.1	<1	
Euploca pachyphylla		0.2	<1	
Scaevola amblyanthera var. *centralis*		0.15	<1	
Senna symonii		0.5	<1	
Triodia chichesterensis	P 3	0.1	20	200
Triodia epactia		0.25	<1	

T24041

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 706165 **mE** 7706890 **mN** **Lat.** -20.7262 **Long.** 118.9798

Habitat Mid-Slope

Aspect NW **Slope** Steep

Soil Type Red brown sandy loam

Rock Type Granite

Loose Rock 10-20 % cover; 60-200 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 1 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Weeds

Fire Age 2-5 years

Notes Unbounded based on approximately 50 m x 50 m



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		1	<1	
Acacia inaequilatera		1.5	<1	
Acacia maitlandii		0.5	<1	
Afrohybanthus aurantiacus		0.3	<1	
Boerhavia coccinea		0.15	<1	
Bulbostylis burbidgeae	P 4	0.1	<1	2

Capparis spinosa subsp. *nummularia*	1	<1
Capparis umbonata	1	<1
**Cenchrus ciliaris*	0.4	1
Chrysopogon fallax	0.3	<1
Corchorus elachocarpus	0.5	<1
Cullen stipulaceum	1	<1
Cymbopogon ambiguus	0.1	<1
Ehretia saligna var. *saligna*	1	<1
Enneapogon robustissimus	0.5	<1
Eriachne mucronata	0.4	<1
Evolvulus alsinoides var. *villosicalyx*	0.4	<1
Ficus brachypoda	3	<1
Fimbristylis dichotoma	0.1	<1
Flueggea virosa subsp. *melanthesoides*	1	<1
Gomphrena cunninghamii	0.2	<1
Gossypium australe	1	<1
Hakea lorea subsp. *lorea*	1	<1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Paspalidium clementii	0.3	<1
Rhynchosia minima	0.2	<1
Salsola australis	0.3	<1
Senna artemisioides subsp. *oligophylla*	1	<1
Senna glutinosa subsp. *glutinosa*	1	<1
Sida fibulifera	0.2	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Solanum phlomoides	0.4	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.4	<1
Themeda triandra	0.1	<1
Triodia epactia	0.4	25
Tripogonella loliiformis	0.1	<1

T24042

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705692 **mE** 7707859 **mN** **Lat.** -20.7175 **Long.** 118.9752

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz, calcrete

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia bivenosa*\^shrub\3\r;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	2	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corymbia hamersleyana		2	0.5	
Euploca cunninghamii		0.1	<1	

Euploca mutica	P 3	0.2	<1	30
Euploca pachyphylla		0.3	<1	
Goodenia stobbsiana		0.3	<1	
Indigofera monophylla		0.4	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus calostachyus		0.4	<1	
Ptilotus clementii		0.3	<1	
Scaevola browniana subsp. *browniana*		0.3	<1	
Senna artemisioides subsp. *oligophylla*		0.3	<1	
Senna symonii		1	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.1	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Triodia chichesterensis	P 3	0.2	20	200

T24043

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704838 **mE** 7707718 **mN** **Lat.** -20.7189 **Long.** 118.9670

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia stellaticeps*\^shrub\3\r;G ^*Triodia lanigera*, ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minor grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia bivenosa		0.5	<1	
Acacia sphaerostachya		0.5	<1	
Acacia stellaticeps		0.5	10	
Bonamia erecta		0.4	<1	

Bonamia linearis		0.1	<1	
Corymbia hamersleyana		3	<1	
Euploca mutica	P 3	0.1	<1	2
Euploca pachyphylla		0.3	<1	
Indigofera monophylla		0.3	<1	
Ptilotus astrolasius		0.3	<1	
Triodia epactia		0.3	5	
Triodia lanigera		0.3	25	

T24044

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701306 **mE** 7715214 **mN** **Lat.** -20.6516 **Long.** 118.9322

Habitat Upper-Slope

Aspect N **Slope** Moderate

Soil Type Red brown loam

Rock Type Granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\bi;G+ ^*Triodia chichesterensis*,^*Triodia wiseana*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Mining exploration track

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.6	0.5	
Acacia orthocarpa		1.5	<1	
Boerhavia gardneri		0.3	<1	
Bonamia pilbarensis (atypical form)		0.2	<1	
Corchorus parviflorus		0.5	<1	

Pluchea tetranthera		0.4	<1	
Ptilotus calostachyus		0.4	<1	
Salsola australis		0.4	<1	
Triodia chichesterensis	P 3	0.3	35	300
Triodia wiseana		0.4	3	

T24045

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701499 **mE** 7715214 **mN** **Lat.** -20.6516 **Long.** 118.9341

Habitat Flat

Aspect SE **Slope** Gentle

Soil Type Red brown sandy loam

Rock Type Granite, quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia inaequilatera*\^shrub\4\r;G ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		0.9	<1	
Acacia inaequilatera		2.5	3	
Acacia orthocarpa		1.5	<1	
Corchorus elachocarpus		0.4	<1	
Corchorus parviflorus		0.5	<1	

Corymbia hamersleyana		4	1	
Eragrostis eriopoda		0.1	<1	
Ptilotus astrolasius		0.3	<1	
Triodia chichesterensis	P 3	0.3	30	300
Triodia epactia		0.5	5	

T24046

Staff SOK **Date** 15/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700865 **mE** 7716035 **mN** **Lat.** -20.6442 **Long.** 118.9279

Habitat Flat

Aspect SE **Slope** Gentle

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^shrub\3\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	2	
Acacia orthocarpa		1.8	1.8	
Corymbia hamersleyana		4	0.5	
Salsola australis		0.3	<1	
Triodia chichesterensis	P 3	0.3	30	300

Triodia epactia	0.4	5

T24047

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699424 **mE** 7712986 **mN** **Lat.** -20.6719 **Long.** 118.9144

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\4\r;G ^*Triodia epactia*\^shrub\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		3	4	
Acacia trachycarpa		2.5	<1	
**Cenchrus ciliaris*		0.4	<1	
Corchorus sp.		0.8	<1	
Eragrostis eriopoda		0.3	<1	
Euphorbia coghlanii		0.3	<1	

Evolvulus alsinoides var. *villosicalyx*		0.1	<1	
Hakea lorea subsp. *lorea*		2	<1	
Hibiscus sturtii var. *platychlamys*		0.3	<1	
Indigofera colutea		0.2	<1	
Indigofera linifolia		0.1	<1	
Indigofera linnaei		0.1	<1	
Indigofera trita		0.3	<1	
Rhynchosia minima		0.2	<1	
Sida sp. L (A.M. Ashby 4202)		0.2	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Tribulopis angustifolia		0.1	<1	
Triodia chichesterensis	P 3	0.3	5	50
Triodia epactia		0.4	40	

T24048

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699334 **mE** 7713264 **mN** **Lat.** -20.6694 **Long.** 118.9135

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock 2-10 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 20 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*,^*Acacia synchronicia*\^*temp*,shrub\4\r;G+ ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle, drilling and tracks nearby

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	3	
Acacia stellaticeps		0.4	2	
Acacia synchronicia		0.5	0.5	
Bonamia pilbarensis (atypical form)		0.15	<1	
Triodia chichesterensis	P 3	0.15	60	100

Triodia epactia	0.3	<1

T24049

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698624 **mE** 7713364 **mN** **Lat.** -20.6686 **Long.** 118.9067

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 5 % cover ; 0-1 cm in depth

Bare ground 35 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia stellaticeps*\^shrub\3\i;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes Quadrat orientated to fit vegetation



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		1	25	
Bonamia erecta		0.3	<1	
Bonamia media		0.1	<1	
Hakea lorea subsp. *lorea*		1.5	<1	
Hibiscus sturtii var. *platychlamys*		0.5	<1	
Solanum diversiflorum		0.3	<1	

Triodia epactia	0.4	35

T24050

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 698165 **mE** 7713570 **mN** **Lat.** -20.6668 **Long.** 118.9023

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light red sand

Rock Type Granite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 3 % cover ; 0-10 cm in depth

Bare ground 85 % cover **Weeds** 5 % cover

Vegetation U+ ^*Eucalyptus victrix*\^tree\6\r;M ^*Acacia trachycarpa*\^shrub\4\i;G ^*Triodia epactia*,^*Cenchrus ciliaris*\^hummock grass,tussock grass\1\i

Veg. Condition Good

Disturbance Grazing, weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ampliceps		2	<1	
Acacia colei		3	<1	
Acacia trachycarpa		3	8	
Aristida holathera var. *holathera*		0.4	<1	
Arivela viscosa		0.3	<1	

Atalaya hemiglauca	2	<1
Boerhavia coccinea	0.3	<1
**Cenchrus ciliaris*	0.3	4
Chrysopogon fallax	0.45	<1
Corchorus elachocarpus	0.5	<1
Cucumis variabilis	0.1	<1
Cynanchum floribundum	0.3	<1
Cyperus ixiocarpus	0.5	<1
Dactyloctenium radulans	0.2	<1
Ehretia saligna var. *saligna*	2	<1
Eriachne benthamii	1	2
Eucalyptus victrix	7	8
Eulalia aurea	0.35	<1
Euphorbia coghlanii	0.3	<1
Fimbristylis dichotoma	0.3	<1
Flueggea virosa subsp. *melanthesoides*	2	<1
Indigofera colutea	0.2	<1
Indigofera linifolia	0.2	<1
Ipomoea coptica	0.4	<1
Ipomoea polymorpha	0.1	<1
Nellica maderaspatensis	0.3	<1
Perotis rara	0.1	<1
Pterocaulon sphacelatum	0.4	<1
Senna notabilis	0.4	<1
**Stylosanthes hamata*	0.3	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.2	<1
Tinospora smilacina	4	<1
Trachymene oleracea subsp. *oleracea*	0.4	<1
Triodia epactia	0.4	10

T24051

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698857 **mE** 7713397 **mN** **Lat.** -20.6683 **Long.** 118.9089

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia synchronicia*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		3	4	
Acacia stellaticeps		1	<1	
Acacia synchronicia		3	2	
Acacia trachycarpa		2	<1	
**Cenchrus ciliaris*		0.3	<1	
Chrysopogon fallax		0.4	<1	

Cucumis variabilis	0.1	<1
Dactyloctenium radulans	0.1	<1
Fimbristylis dichotoma	0.1	<1
Indigofera colutea	0.1	<1
Ipomoea coptica	0.1	<1
Sporobolus australasicus	0.2	<1
Trianthema triquetrum	0.1	<1
Tribulopis angustifolia	0.1	<1
Triodia epactia	0.4	35
Triodia secunda	0.3	<1

T24052

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699198 **mE** 7711862 **mN** **Lat.** -20.6821 **Long.** 118.9124

Habitat Flat

Aspect W **Slope** Very Gentle

Soil Type Light brown clay loam

Rock Type Chert

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** 1 % cover ; 2 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia inaequilatera		2.5	4	
Acacia orthocarpa		1.5	<1	
Acacia stellaticeps		0.5	<1	
Corymbia hamersleyana		1	<1	

Hakea lorea subsp. *lorea*		2.5	<1	
Salsola australis		0.3	<1	
Senna artemisioides subsp. *oligophylla*		0.4	<1	
Triodia chichesterensis	P 3	0.2	40	200
Triodia epactia		0.4	5	

T24053

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704132 **mE** 7720237 **mN** **Lat.** -20.6059 **Long.** 118.9588

Habitat Sandplain

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia schinzii*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Minimal

Fire Age 2-5 years

Notes Quadrat aligned with road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia sphaerostachya		0.5	<1	
Acacia spondylophylla		0.3	<1	
Acacia stellaticeps		0.5	<1	
Acacia tumida var. *pilbarensis*		1	<1	
Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.3	<1	

Bonamia erecta		0.3	<1	
Bonamia linearis		0.1	<1	
Corymbia hamersleyana		1.4	<1	
Dampiera candicans		0.3	<1	
Euploca cunninghamii		0.1	<1	
Euploca mutica	P 3	0.2	<1	5
Indigofera monophylla		0.4	<1	
Pluchea tetranthera		0.4	<1	
Ptilotus astrolasius		0.3	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Trigastrotheca molluginea		0.2	<1	
Triodia schinzii		0.5	25	
Triumfetta ramosa		0.4	<1	

T24054

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704801 **mE** 7721223 **mN** **Lat.** -20.5969 **Long.** 118.9651

Habitat Flat

Aspect NW **Slope** Very Gentle

Soil Type Red sandy loam

Rock Type ?granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Good

Disturbance Road edge effects

Fire Age 2-5 years

Notes Quadrat aligned with road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	2	
Acacia sphaerostachya		1.3	<1	
Acacia stellaticeps		0.6	<1	
Hibiscus sturtii var. *campylochlamys*		0.4	<1	
Pluchea tetranthera		0.3	<1	
Senna glutinosa subsp. x *luerssenii*		1.5	<1	

Tephrosia clementii	0.2	<1
Triodia epactia	0.4	<1
Triodia lanigera	0.3	25

T24055

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705144 **mE** 7721818 **mN** **Lat.** -20.5915 **Long.** 118.9683

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Good

Disturbance Mining exploration track

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia inaequilatera		2	0.5	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corchorus elachocarpus		0.2	<1	
Grevillea wickhamii		1	<1	
Indigofera monophylla		0.5	<1	

Ptilotus astrolasius		0.3	<1	
Tribulus hirsutus		0.03	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia chichesterensis	P 3	0.15	35	300
Triodia epactia		0.4	<1	
Triodia lanigera		0.4	<1	

T24056

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705600 **mE** 7722713 **mN** **Lat.** -20.5834 **Long.** 118.9726

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^^*Triodia chichesterensis*,*Triodia epactia*,*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Road edge effects

Fire Age 2-5 years

Notes Quadrat aligned with road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		1.5	0.5	
Triodia chichesterensis	P 3	0.3	35	300
Triodia epactia		0.5	5	
Triodia lanigera		0.5	3	

T24057

Staff SOK **Date** 16/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 708513 **mE** 7728016 **mN** **Lat.** -20.5352 **Long.** 118.9999

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light red sand

Rock Type Granite, quartz

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 3 % cover ; 0-10 cm in depth

Bare ground 90 % cover **Weeds** <1 % cover

Vegetation U+ ^^*Eucalyptus victrix*,*Melaleuca argentea*,*Eucalyptus camaldulensis* subsp. *refulgens*\^tree\6\r; M ^*Acacia trachycarpa*\^shrub\4\r;G ^*Triodia epactia*,^*Eriachne benthamii*\^hummock grass, tussock grass\1\r

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		2	<1	
Acacia trachycarpa		3	6	
Acacia tumida var. *pilbarensis*		1.3	<1	
Afrohybanthus aurantiacus		0.4	<1	

Arivela viscosa	0.5	<1
Boerhavia coccinea	0.1	<1
Buchnera linearis	0.5	<1
**Cenchrus ciliaris*	0.4	<1
**Cenchrus setiger*	0.4	<1
Chrysopogon fallax	1	<1
Corchorus incanus subsp. *incanus*	1	<1
Crotalaria cunninghamii	1	<1
Cucumis variabilis	0.6	<1
Cynanchum floribundum	0.4	<1
Cyperus ixiocarpus	0.5	<1
Eriachne benthamii	1	5
Eriachne obtusa	0.4	<1
Eucalyptus camaldulensis subsp. *refulgens*	10	2
Eucalyptus victrix	7	3
Euphorbia coghlanii	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Ficus aculeata var. *indecora*	2	<1
Goodenia lamprosperma	0.3	<1
Hibiscus austrinus	1	<1
Indigofera linnaei	0.1	<1
Indigofera trita	0.4	<1
Ipomoea muelleri	0.2	<1
Melaleuca argentea	6	2
Microstachys chamaelea	0.5	<1
Nellica maderaspatensis	0.3	<1
**Passiflora foetida* var. *hispida*	0.1	<1
Petalostylis labicheoides	1	<1
Pluchea ferdinandi-muelleri	0.2	<1
Ptilotus calostachyus	0.5	<1
Rhynchosia minima	0.4	<1
Stemodia grossa	0.4	<1
Themeda triandra	1	<1
Triodia epactia	0.4	0.5
Waltheria indica	0.4	<1

T24058

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703277 **mE** 7707890 **mN** **Lat.** -20.7175 **Long.** 118.9520

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sand

Rock Type Quartz

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia secunda*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Trianthema triquetrum		0.1	<1	
Triodia epactia		0.3	<1	
Triodia secunda		0.2	35	

T24059

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703401 **mE** 7707889 **mN** **Lat.** -20.7175 **Long.** 118.9532

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.4	<1	
Eriachne obtusa		0.3	<1	
Pluchea ferdinandi-muelleri		0.2	<1	
Pluchea tetranthera		0.4	<1	
Triodia epactia		0.4	35	
Triodia secunda		0.2	<1	

T24060

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704046 **mE** 7708305 **mN** **Lat.** -20.7137 **Long.** 118.9593

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light red brown sandy loam

Rock Type Calcrete

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia bivenosa*\^shrub\3\bi;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	0.5	
Acacia stellaticeps		0.3	<1	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia pilbarensis (atypical form)		0.2	<1	
Corchorus elachocarpus		0.4	<1	

Corymbia hamersleyana		4	1	
Euploca chrysocarpa		0.3	<1	
Euploca mutica	P 3	0.2	<1	3
Indigofera monophylla		0.4	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus calostachyus		0.3	<1	
Ptilotus clementii		0.3	<1	
Scaevola browniana subsp. *browniana*		0.3	<1	
Senna symonii		0.5	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Triodia chichesterensis	P 3	0.2	25	300

T24061

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705371 **mE** 7708525 **mN** **Lat.** -20.7115 **Long.** 118.9720

Habitat Outcrop

Aspect N **Slope** Moderate

Soil Type Light red sandy loam

Rock Type Granite

Loose Rock 10-20 % cover; 60-200 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 1 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Weeds

Fire Age 2-5 years

Notes Unbounded quadrat following outcrop



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia inaequilatera		1	<1	
Acacia maitlandii		1	<1	
Aristida contorta		0.2	<1	
Arivela viscosa		0.3	<1	
Boerhavia coccinea		0.1	<1	

**Cenchrus ciliaris*	0.4	<1
Chrysopogon fallax	0.4	<1
Corymbia hamersleyana	3	<1
Cymbopogon ambiguus	0.5	<1
Eriachne mucronata	0.3	<1
Eriachne obtusa	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Fimbristylis dichotoma	0.2	<1
Hakea lorea subsp. *lorea*	1	<1
Hibiscus leptocladus	0.3	<1
Indigofera monophylla	0.2	<1
Paspalidium clementii	0.4	<1
Pluchea ferdinandi-muelleri	0.5	<1
Solanum diversiflorum	0.3	<1
Tephrosia rosea var. *clementii*	0.3	<1
Triodia epactia	0.3	15

T24062

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705083 **mE** 7708187 **mN** **Lat.** -20.7146 **Long.** 118.9693

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Granite

Loose Rock 2-10 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	2	
Acacia orthocarpa		0.7	<1	
Acacia tumida var. *pilbarensis*		1	<1	
Aristida holathera var. *holathera*		0.3	<1	
Bonamia erecta		0.3	<1	

Bonamia linearis		0.2	<1	
Corymbia hamersleyana		3	0.5	
Euphorbia tannensis subsp. *eremophila*		0.3	<1	
Euploca mutica	P 3	9.2	<1	10
Euploca pachyphylla		0.3	<1	
Fimbristylis dichotoma		0.2	<1	
Grevillea wickhamii		1	<1	
Indigofera monophylla		9.3	<1	
Ptilotus astrolasius		0.3	<1	
Scaevola browniana subsp. *browniana*		0.3	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.4	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Trigastrotheca molluginea		0.2	<1	
Triodia lanigera		0.3	25	

T24063

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 708703 **mE** 7727973 **mN** **Lat.** -20.5356 **Long.** 119.0017

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light red alluvial sand

Rock Type Granite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 3 % cover ; 0-10 cm in depth

Bare ground 85 % cover **Weeds** 2 % cover

Vegetation U+ ^^*Eucalyptus camaldulensis* subsp. *refulgens*,*Melaleuca argentea*,*Eucalyptus victrix*\^tree\6\r; M ^*Acacia trachycarpa*\^shrub\4\r;G ^*Triodia epactia*,^*Eriachne benthamii*\^hummock grass, tussock grass\1\i

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		3	<1	
Acacia trachycarpa		3	4	
Afrohybanthus aurantiacus		0.3	<1	
Arivela viscosa		0.4	<1	

Boerhavia coccinea	0.15	<1
Bulbostylis barbata	0.1	<1
**Calotropis procera*	2	<1
**Cenchrus ciliaris*	0.4	2
Chrysopogon fallax	0.6	<1
Corchorus incanus subsp. *incanus*	1	<1
Crotalaria cunninghamii	1	<1
Cucumis variabilis	0.4	<1
Cymbopogon ambiguus	0.8	<1
Cynanchum floribundum	0.4	<1
Cyperus ixiocarpus	0.4	<1
Eriachne benthamii	0.8	3
Eucalyptus camaldulensis subsp. *refulgens*	8	3
Eucalyptus victrix	6	3
Euphorbia coghlanii	0.3	<1
Euphorbia tannensis subsp. *eremophila*	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Goodenia lamprosperma	0.3	<1
Hibiscus austrinus	1	<1
Indigofera hirsuta	0.2	<1
Indigofera linifolia	0.3	<1
Indigofera linnaei	0.2	<1
Indigofera trita	0.3	<1
Ipomoea muelleri	0.3	<1
Melaleuca argentea	6	5
Microstachys chamaelea	0.5	<1
Nellica maderaspatensis	0.4	<1
Petalostylis labicheoides	2	<1
Portulaca filifolia	0.2	<1
Pterocaulon sphacelatum	0.4	<1
Ptilotus fusiformis	0.4	<1
Themeda triandra	0.5	<1
Trichodesma zeylanicum var. *zeylanicum*	0.3	<1
Triodia epactia	0.4	10
Waltheria indica	0.4	<1

T24064

Staff SOK **Date** 17/03/2024 **Season** A

Revisit A

Type Q 50 m x 50 m

Location

MGA Zone 50 708375 **mE** 7728103 **mN** **Lat.** -20.5344 **Long.** 118.9985

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 1 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Good

Disturbance Grazing, road edge effects

Fire Age >5 years

Notes Quadrat aligned along north side of road



Species	WA Cons.	Height (m)	Cover (%)	Count
Bonamia sp.		.15	<1	
Cassytha capillaris		0.3	<1	
**Cenchrus ciliaris*		0.3	1	
Corchorus parviflorus		0.4	<1	
Indigofera trita		0.4	<1	
Neptunia xanthonema		0.1	<1	

Triodia epactia	0.4	40
Triodia secunda	0.1	<1

T24065

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 707804 **mE** 7727268 **mN** **Lat.** -20.5420 **Long.** 118.9932

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia synchronicia*,^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Grazing, road edge effects

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		0.5	<1	
Acacia inaequilatera		2	<1	
Acacia synchronicia		2	3	
Bonamia linearis		0.1	<1	
Chrysopogon fallax		0.5	<1	
Corchorus incanus subsp. *incanus*		0.5	<1	

Neptunia xanthonema	0.1	<1
Senna artemisioides subsp. *oligophylla*	0.5	<1
Sida fibulifera	0.3	<1
Triodia epactia	0.4	25

T24066

Staff SOK **Date** 17/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 707392 **mE** 7726437 **mN** **Lat.** -20.5496 **Long.** 118.9893

Habitat Flat

Aspect E **Slope** Very Gentle

Soil Type Brown clay loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia bivenosa*\^shrub\3\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes Quadrat aligned along road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia bivenosa		1.5	1	
Acacia inaequilatera		2	4	
Acacia stellaticeps		0.5	<1	
Acacia synchronicia		2	<1	

Afrohybanthus aurantiacus		0.4	<1	
Corchorus elachocarpus		0.4	<1	
Corymbia hamersleyana		2	<1	
Evolvulus alsinoides var. *villosicalyx*		0.2	<1	
Hibiscus sturtii var. *campylochlamys*		0.4	<1	
Indigofera monophylla		0.3	<1	
Rhynchosia minima		0.1	<1	
Senna artemisioides subsp. *oligophylla*		0.4	<1	
Triodia chichesterensis	P 3	0.4	30	300

T24067

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704084 **mE** 7705991 **mN** **Lat.** -20.7346 **Long.** 118.9600

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*\^shrub\3\i;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	10	
Acacia bivenosa		0.5	<1	
Acacia inaequilatera		1	<1	
Acacia sphaerostachya		0.5	<1	
Acacia stellaticeps		0.3	<1	
Afrohybanthus aurantiacus		0.3	<1	

Bonamia pilbarensis (atypical form)		0.2	<1	
Corymbia hamersleyana		1.5	<1	
Euploca mutica	P 3	0.2	<1	5
Euploca pachyphylla		0.3	<1	
Hakea lorea subsp. *lorea*		0.8	<1	
Indigofera monophylla		0.4	<1	
Ptilotus astrolasius		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Triodia lanigera		0.3	30	

T24068

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705667 **mE** 7706230 **mN** **Lat.** -20.7322 **Long.** 118.9751

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown sandy loam

Rock Type Calcrete

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia stellaticeps*,^*Acacia bivenosa*\^shrub\3\r;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	0.5	
Acacia orthocarpa		1	<1	
Acacia sphaerostachya		0.3	<1	
Acacia stellaticeps		0.4	7	
Afrohybanthus aurantiacus		0.3	<1	

Bonamia pilbarensis (atypical form)		0.3	<1	
Bonamia pilbarensis (atypical form)		0.2	<1	
Corchorus elachocarpus		0.4	<1	
Corymbia hamersleyana		3	1	
Eragrostis eriopoda		0.2	<1	
Euploca chrysocarpa		0.3	<1	
Grevillea wickhamii		0.5	<1	
Hakea lorea subsp. *lorea*		1	<1	
Neurachne muelleri		0.2	<1	
Pluchea tetranthera		0.4	<1	
Polymeria ambigua		0.1	<1	
Ptilotus astrolasius		0.3	<1	
Scaevola browniana subsp. *browniana*		0.3	<1	
Senna artemisioides subsp. *oligophylla*		0.3	<1	
Senna symonii		0.5	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.4	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Triodia chichesterensis	P 3	0.3	20	300

T24069

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 701854 **mE** 7705728 **mN** **Lat.** -20.7372 **Long.** 118.9386

Habitat Outcrop

Aspect N/A **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Dolerite

Loose Rock 20-50 % cover; 60-200 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^^*Acacia tumida* var. *pilbarensis*,*Acacia inaequilatera*,*Acacia ancistrocarpa*\^shrub\3\i;G ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age 2-5 years

Notes Linear quadrat along dolerite dyke



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.3	<1	
Acacia ancistrocarpa		1.6	2	
Acacia inaequilatera		1.8	2	
Acacia tumida var. *pilbarensis*		1.6	10	
Afrohybanthus aurantiacus		0.3	<1	

Arivela uncifera		0.3	<1	
Euploca mutica	P 3	0.3	<1	5
Grevillea wickhamii		0.4	<1	
Indigofera monophylla		0.4	<1	
Isotropis atropurpurea		0.4	<1	
Neurachne muelleri		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.4	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia epactia		0.4	30	
Triodia lanigera		0.4	5	

T24070

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 706430 **mE** 7724316 **mN** **Lat.** -20.5688 **Long.** 118.9803

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Grazing

Fire Age 2-5 years

Notes Quadrat orientated along road



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	2	
Acacia bivenosa		1	<1	
Acacia inaequilatera		1.8	<1	
Acacia sphaerostachya		0.5	<1	
Acacia stellaticeps		0.5	<1	

Acacia synchronicia		2	<1	
Hakea lorea subsp. *lorea*		2	<1	
Ptilotus calostachyus		0.5	<1	
Salsola australis		0.3	<1	
Triodia chichesterensis	P 3	0.3	<1	1
Triodia epactia		0.4	25	

T24071

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700727 **mE** 7714249 **mN** **Lat.** -20.6604 **Long.** 118.9268

Habitat Mid-Slope

Aspect SE **Slope** Gentle

Soil Type Red brown loam

Rock Type ?granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0- cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation M ^*Grevillea pyramidalis* subsp. *leucadendron*,^*Acacia orthocarpa*\^shrub\3\bi;G+ ^*Triodia wiseana*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	0.2	
Acacia orthocarpa		2	<1	
Acacia pyrifolia var. *pyrifolia*		2	<1	
Boerhavia gardneri		0.2	<1	
Bonamia pilbarensis		0.1	<1	

Fimbristylis dichotoma	0.1	<1
Grevillea pyramidalis subsp. *leucadendron*	2	0.5
Indigofera rugosa	0.5	<1
Indigofera trita	0.3	<1
Triodia epactia	0.4	10
Triodia wiseana	0.4	20

T24072

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700536 **mE** 7714281 **mN** **Lat.** -20.6601 **Long.** 118.9250

Habitat Upper-Slope

Aspect NW **Slope** Moderate

Soil Type Red brown loam

Rock Type ?granite

Loose Rock 20-50 % cover; 60-200 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\3\r;G+ ^*Triodia wiseana*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa x orthocarpa		1.7	<1	
Acacia orthocarpa		2	2	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Boerhavia gardneri		0.2	<1	
Fimbristylis dichotoma		0.1	<1	
Gomphrena cunninghamii		0.1	<1	

Indigofera rugosa	0.4	<1
Senna glutinosa subsp. *glutinosa*	1.6	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	0.1	<1
Triodia epactia	0.4	5
Triodia wiseana	0.4	30

T24073

Staff SOK **Date** 18/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699696 **mE** 7713764 **mN** **Lat.** -20.6649 **Long.** 118.9170

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Granite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** <1 % cover

Vegetation M ^*Acacia synchronicia*\^shrub\4\r;G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		2.5	4	
**Cenchrus ciliaris*		0.3	<1	
Chrysopogon fallax		0.3	<1	
Cynodon convergens		0.2	<1	
Fimbristylis dichotoma		0.1	<1	
Indigofera colutea		0.1	<1	

Indigofera trita	0.4	<1
Ipomoea coptica	0.1	<1
Rhynchosia minima	0.1	<1
Senna notabilis	0.4	<1
Sida sp. L (A.M. Ashby 4202)	0.2	<1
Triodia epactia	0.4	28

T24074

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702030 **mE** 7704721 **mN** **Lat.** -20.7463 **Long.** 118.9404

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Calcrete

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia bivenosa*,^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia bivenosa		1.7	5	
Acacia inaequilatera		2	2	
Acacia sphaerostachya		1	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	

Cassytha capillaris		0.3	<1	
Corymbia hamersleyana		3	0.5	
Euploca chrysocarpa		0.3	<1	
Euploca pachyphylla		0.3	<1	
Hibiscus coatesii		0.5	<1	
Indigofera monophylla		0.4	<1	
Senna artemisioides subsp. *oligophylla*		0.5	<1	
Senna symonii		0.5	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Triodia chichesterensis	P 3	0.4	55	300
Triodia epactia		0.5	<1	
Triodia wiseana		0.5	<1	

T24075

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701432 **mE** 7704772 **mN** **Lat.** -20.7459 **Long.** 118.9346

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Laterite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia stellaticeps*\^shrub\3\i;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Grazing

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.3	<1	
Acacia bivenosa		1	<1	
Acacia stellaticeps		0.7	20	
Afrohybanthus aurantiacus		0.3	<1	
Corymbia hamersleyana		1	<1	
Euploca pachyphylla		0.3	<1	

Ptilotus calostachyus		1	<1	
Senna symonii		0.4	<1	
Triodia chichesterensis	P 3	0.3	<1	1
Triodia epactia		0.5	5	
Triodia lanigera		0.5	40	

T24076

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 702550 **mE** 7704986 **mN** **Lat.** -20.7438 **Long.** 118.9453

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Granite

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-10 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*\^shrub\4\i;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		3	<1	
Acacia bivenosa		1.5	<1	
Acacia stellaticeps		0.6	<1	
Acacia tumida var. *pilbarensis*		3	15	
Acacia tumida var. *pilbarensis x ?citrinoviridis*		4	1	

Afrohybanthus aurantiacus	0.4	<1
Aristida holathera var. *holathera*	0.4	<1
Bonamia erecta	0.3	<1
Cassytha capillaris	0.2	<1
Chrysopogon fallax	0.3	<1
Corymbia hamersleyana	7	0.5
Dodonaea coriacea	1	<1
Eragrostis cumingii	0.2	<1
Eriachne obtusa	0.4	<1
Euploca pachyphylla	0.4	<1
Grevillea wickhamii	1.5	<1
Hibiscus coatesii	0.4	<1
Indigofera monophylla	0.4	<1
Isotropis atropurpurea	0.4	<1
Paspalidium rarum	0.2	<1
Pluchea dentex	0.3	<1
Pluchea tetranthera	0.5	<1
Scaevola amblyanthera var. *centralis*	0.3	<1
Senna glutinosa subsp. *glutinosa*	0.8	<1
Stemodia grossa	0.5	<1
Themeda triandra	0.5	<1
Triodia epactia	0.4	10

T24077

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700619 **mE** 7713535 **mN** **Lat.** -20.6668 **Long.** 118.9258

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 0-5 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^shrub\4\r;G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	2	
Acacia orthocarpa		1.5	<1	
Acacia trachycarpa		0.5	<1	
Corymbia hamersleyana		0.5	<1	
Ptilotus astrolasius		0.2	<1	
Triodia epactia		0.5	40	

T24078

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700719 **mE** 7713464 **mN** **Lat.** -20.6675 **Long.** 118.9268

Habitat Flat

Aspect SW **Slope** Gentle

Soil Type Red brown sandy loam

Rock Type Mixed, quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\4\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Cattle

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	2	
Acacia inaequilatera		2.5	2	
Acacia orthocarpa		0.8	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corchorus parviflorus		0.4	<1	

Triodia chichesterensis	P 3	0.2	35	300
Triodia epactia		2	<1	

T24079

Staff SOK **Date** 19/03/2024 **Season** P

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701291 **mE** 7716230 **mN** **Lat.** -20.6424 **Long.** 118.9320

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz, mixed

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 80 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia synchronicia*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		2	7	
Corymbia hamersleyana		3	<1	
Senna glutinosa subsp. x *luerssenii*		0.5	<1	
Triodia epactia		0.4	20	

T24080

Staff SOK **Date** 19/03/2024 **Season** P

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700796 **mE** 7714977 **mN** **Lat.** -20.6538 **Long.** 118.9274

Habitat Flat

Aspect N **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Metamorphosed granite?

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** <1 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^shrub\3\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.6	<1	
Acacia bivenosa		2	<1	
Acacia colei		2	<1	
Acacia inaequilatera		2	2	
Acacia orthocarpa		2	2	

**Aerva javanica*		0.3	<1	
Afrohybanthus aurantiacus		0.4	<1	
**Cenchrus ciliaris*		0.3	<1	
**Cenchrus setiger*		0.4	<1	
Corchorus parviflorus		0.4	<1	
Corymbia hamersleyana		3	0.5	
Euphorbia coghlanii		0.05	<1	
Hibiscus sturtii var. *campylochlamys*		0.3	<1	
Indigofera monophylla		0.4	<1	
Neurachne muelleri		0.3	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus calostachyus		0.5	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Triodia chichesterensis	P 3	0.3	45	200
Triodia epactia		0.4	<1	
Triodia wiseana		0.5	<1	

T24081

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699941 **mE** 7713702 **mN** **Lat.** -20.6654 **Long.** 118.9193

Habitat Lower-Slope

Aspect W **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Mixed, quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^shrub\4\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Good

Disturbance Mining exploration tracks

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.3	<1	
Acacia bivenosa		1.3	<1	
Acacia colei		2.5	<1	
Acacia inaequilatera		2.5	10	
Acacia orthocarpa		2.5	2	

**Aerva javanica*		0.4	<1	
Afrohybanthus aurantiacus		0.3	<1	
Boerhavia gardneri		0.3	<1	
Bonamia pilbarensis		0.1	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corchorus parviflorus		0.5	<1	
Cymbopogon ambiguus		0.7	<1	
Enneapogon caerulescens		0.2	<1	
Hibiscus coatesii		0.1	<1	
Indigofera monophylla		0.3	<1	
Indigofera trita		0.3	<1	
Rhynchosia minima		0.2	<1	
Solanum diversiflorum		0.1	<1	
**Stylosanthes hamata*		0.4	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Tinospora smilacina		2	<1	
Triodia chichesterensis	P 3	0.3	45	200
Triodia epactia		0.4	<1	

T24082

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699913 **mE** 7713286 **mN** **Lat.** -20.6692 **Long.** 118.9191

Habitat Lower-Slope

Aspect W **Slope** Gentle

Soil Type Brown loam

Rock Type Metamorphosed granite?

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia wiseana*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Good

Disturbance Mining exploration tracks

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1.5	<1	
Acacia inaequilatera		2	3	
Acacia orthocarpa		2	5	
Bonamia pilbarensis (atypical form)		0.2	<1	
Corymbia hamersleyana		1	<1	

Cymbopogon ambiguus		0.5	<1	
Fimbristylis dichotoma		0.1	<1	
Goodenia stobbsiana		0.3	<1	
Grevillea wickhamii		1.5	<1	
Indigofera monophylla		0.3	<1	
Rhynchosia minima		0.2	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Triodia chichesterensis	P 3	0.3	<1	50
Triodia epactia		0.4	20	
Triodia wiseana		0.4	30	

T24083

Staff SOK **Date** 19/03/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699725 **mE** 7713215 **mN** **Lat.** -20.6698 **Long.** 118.9173

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** <1 % cover

Vegetation G+ ^*Triodia secunda*\^hummock grass\1\i

Veg. Condition Poor

Disturbance Grazing, mining exploration tracks

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	<1	
Boerhavia coccinea		0.1	<1	
Bulbostylis barbata		0.1	<1	
**Cenchrus ciliaris*		0.3	<1	
Fimbristylis dichotoma		0.1	<1	
Hibiscus austrinus		0.5	<1	

Ipomoea coptica	0.2	<1
Neptunia xanthonema	0.1	<1
Portulaca filifolia	0.3	<1
Portulaca oleracea	0.1	<1
Rhynchosia minima	0.2	<1
Senna notabilis	0.1	<1
Trianthema triquetrum	0.1	<1
Triodia epactia	0.4	<1
Triodia secunda	0.35	25

T24084

Staff SOK **Date** 19/03/2024 **Season** P

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700275 **mE** 7714423 **mN** **Lat.** -20.6588 **Long.** 118.9224

Habitat Upper-Slope

Aspect W **Slope** Gentle

Soil Type Brown loam

Rock Type Metamorphosed granite?

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** <1 % cover

Vegetation M ^*Acacia orthocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia wiseana*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing, mining exploration tracks

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.1	<1	
Acacia inaequilatera		2	0.5	
Acacia orthocarpa		2	3	
**Aerva javanica*		0.3	<1	
Boerhavia coccinea		0.1	<1	
Boerhavia gardneri		0.1	<1	

**Cenchrus ciliaris*		0.3	<1	
Corchorus parviflorus		0.5	<1	
Enneapogon caerulescens		0.2	<1	
Indigofera linifolia		0.1	<1	
Indigofera trita		0.3	<1	
Salsola australis		0.3	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Triodia chichesterensis	P 3	0.3	4	100
Triodia epactia		0.4	<1	
Triodia wiseana		0.4	30	

T24085

Staff LC **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703765 **mE** 7709655 **mN** **Lat.** -20.7015 **Long.** 118.9565

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; 1-2 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\bi;G+ ^*Triodia lanigera*, ^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		0.5	<1	
Acacia ancistrocarpa		1	0.5	
Acacia stellaticeps		0.3	2	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia erecta		0.15	<1	

Chrysopogon fallax	1	<1
Corymbia deserticola subsp. *deserticola*	1	<1
Corymbia flavescens	3	<1
Corymbia hamersleyana	3.5	<1
Eriachne obtusa	0.3	<1
Indigofera monophylla	0.3	<1
Pluchea ferdinandi-muelleri	0.4	<1
Ptilotus astrolasius	0.2	<1
Rhynchosia minima	0.3	<1
Scaevola browniana subsp. *browniana*	0.2	<1
Triodia lanigera	0.4	35

T24086

Staff LC **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704428 **mE** 7709808 **mN** **Lat.** -20.7001 **Long.** 118.9628

Habitat Outcrop

Aspect E **Slope** Gentle

Soil Type Orange loam

Rock Type Granite

Loose Rock 0 % cover; 200 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 65 % cover **Weeds** 2 % cover

Vegetation G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.4	<1	
Acacia stellaticeps		0.2	<1	
Acacia tumida var. *pilbarensis*		1.5	<1	
Amaranthus undulatus		0.05	<1	
Arivela viscosa		0.2	<1	
**Cenchrus ciliaris*		0.4	2	

Chrysopogon fallax	0.7	<1
Ficus brachypoda	2.5	<1
Gomphrena cunninghamii	0.05	<1
Ipomoea sp.	0.02	<1
Isotropis atropurpurea	0.4	<1
Rhynchosia minima	0.05	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Triodia epactia	0.3	20

T24087

Staff LC **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 706030 **mE** 7709330 **mN** **Lat.** -20.7042 **Long.** 118.9782

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Calcrete

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^,^\^\3\r;G+ ^*Triodia epactia*,^\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.4	0.9	
Acacia bivenosa		0.9	1.1	
Acacia stellaticeps		0.3	<1	
Corymbia hamersleyana		3	0.5	
Grevillea wickhamii		2	<1	
Indigofera monophylla		0.2	<1	

Ptilotus astrolasius	0.3	<1
Scaevola browniana subsp. *browniana*	0.2	<1
Stemodia grossa	0.05	<1
Triodia epactia	0.2	15
Triodia secunda	0.2	10

T24088

Staff LC **Date** 10/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704900 **mE** 7706719 **mN** **Lat.** -20.7279 **Long.** 118.9677

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sandy loam

Rock Type Granite

Loose Rock 20-50 % cover; 2-6 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia tumida* var. *pilbarensis*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.2	2	
Acacia stellaticeps		0.3	3	
Acacia tumida var. *pilbarensis*		1.2	4	
Bonamia erecta		0.2	<1	
Corymbia hamersleyana		3	0.5	

Euploca chrysocarpa		0.3	<1	
Euploca mutica	P 3	0.2	<1	5
Grevillea wickhamii		0.7	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.4	<1	
Triodia lanigera		0.3	30	

T24089

Staff LC **Date** 10/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703472 **mE** 7706831 **mN** **Lat.** -20.7271 **Long.** 118.9540

Habitat Flat

Aspect SE **Slope** Very Gentle

Soil Type Orange sandy loam

Rock Type Quartz, calcrete

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia inaequilatera*,^*Acacia bivenosa*\^shrub\3\bi;G ^*Triodia chichesterensis*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.7	<1	
Acacia bivenosa		1	0.6	
Acacia inaequilatera		1	0.5	
Acacia stellaticeps		0.2	2	
Cassytha capillaris		0.2	<1	

Corymbia hamersleyana		3.5	2	
Euploca chrysocarpa		0.3	<1	
Euploca cunninghamii		0.2	<1	
Hakea lorea subsp. *lorea*		0.5	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus calostachyus		0.7	<1	
Senna artemisioides subsp. *oligophylla*		0.4	<1	
Triodia chichesterensis	P 3	0.2	25	200

T24090

Staff LC **Date** 10/04/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 703236 **mE** 7706666 **mN** **Lat.** -20.7286 **Long.** 118.9517

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Nil

Loose Rock 0 % cover **Litter** <1 % cover ; 1-2 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia bivenosa*,^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.8	<1	
Acacia bivenosa		1	2	
Acacia stellaticeps		0.5	<1	
Acacia trachycarpa		2	<1	
Acacia tumida var. *pilbarensis*		2	4	

Afrohybanthus aurantiacus	0.2	<1
Cassytha capillaris	0.4	<1
Chrysopogon fallax	1	<1
Corchorus incanus subsp. *incanus*	0.4	<1
Corymbia hamersleyana	4	0.5
Dactyloctenium radulans	0.05	<1
Dodonaea coriacea	2	<1
Eriachne obtusa	0.3	<1
Eulalia aurea	0.4	<1
Euphorbia australis var. *hispidula*	0.05	<1
Euphorbia coghlanii	0.2	<1
Evolvulus alsinoides var. *decumbens*	0.2	<1
Goodenia lamprosperma	0.4	<1
Hibiscus sp.	0.1	<1
Indigofera monophylla	0.3	<1
Pluchea dentex	0.4	<1
Rhynchosia minima	0.1	<1
Seringia exastia	0.4	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Themeda triandra	0.6	<1
Triodia epactia	0.3	20
Waltheria indica	0.3	<1

T24091

Staff JLT **Date** 12/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700029 **mE** 7714039 **mN** **Lat.** -20.6623 **Long.** 118.9201

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown clayey sand

Rock Type Quartz

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 1 % cover ; 1-2 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia epactia*, ^*Triodia wiseana*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.5	3	
Acacia orthocarpa		1.6	<1	
Cassytha capillaris		.2	<1	
Corchorus parviflorus		.35	<1	
Corchorus sp.		.25	<1	

Corymbia hamersleyana		3.5	<1	
Euploca pachyphylla		.15	<1	
Hibiscus sturtii var. *campylochlamys*		.4	<1	
Indigofera monophylla		.35	<1	
Indigofera trita		.3	<1	
Ptilotus astrolasius		.35	<1	
Rhynchosia minima		.1	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		.15	<1	
Trichodesma zeylanicum var. *zeylanicum*		.34	<1	
Triodia chichesterensis	P 3	.3	<1	1
Triodia epactia		.4	30	
Triodia wiseana		.4	<1	

T24092

Staff JLT **Date** 11/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location Hillock

MGA Zone 50 700754 **mE** 7715431 **mN** **Lat.** -20.6497 **Long.** 118.9269

Habitat Lower-Slope

Aspect N/A **Slope** N/A

Soil Type Orange clay

Rock Type Quartz

Loose Rock 20-50 % cover; 2-6 mm in size **Litter** 1 % cover ; <1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^2.5,shrub\3\bi;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	.5	
Acacia orthocarpa		1.8	0.2	
Acacia stellaticeps		.5	<1	
Corchorus parviflorus		.5	<1	
Dampiera candicans		.25	<1	

Indigofera monophylla		.4	<1	
Triodia chichesterensis	P 3	.35	24	200
Triodia epactia		0.4	1	

T24093

Staff JLT **Date** 11/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700594 **mE** 7716243 **mN** **Lat.** -20.6424 **Long.** 118.9253

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown sandy clay

Rock Type Quartz

Loose Rock 0 % cover **Litter** 1 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia epactia*,^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.6	2	
Acacia inaequilatera		2	<1	
Senna venusta		.1	<1	
Triodia chichesterensis	P 3	.35	8	150
Triodia epactia		.4	14	

T24094

Staff JLT **Date** 12/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699919 **mE** 7714064 **mN** **Lat.** -20.6621 **Long.** 118.9191

Habitat Hillock

Aspect N/A **Slope** N/A

Soil Type Brown clay

Rock Type Quartz

Loose Rock 20-50 % cover; 2-6 mm in size **Litter** 1 % cover ; 1-2 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^^*Triodia chichesterensis*,*Triodia epactia*,*Triodia wiseana*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Fire

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		1.5	1	
Acacia synchronicia		.2	<1	
Afrohybanthus aurantiacus		.25	<1	
Aristida contorta		.25	<1	
Cassytha capillaris		.2	<1	

Chrysopogon fallax		.3	<1	
Corchorus parviflorus		.25	<1	
Corymbia hamersleyana		3.2	1.5	
Eriachne mucronata		.25	<1	
Evolvulus alsinoides var. *villosicalyx*		.15	<1	
Hibiscus coatesii		.3	<1	
Indigofera trita		.15	<1	
Scaevola amblyanthera var. *centralis*		0.2	<1	
Sida clementii		.3	<1	
Solanum phlomoides		.3	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.4	<1	
Tinospora smilacina		.2	<1	
Triodia chichesterensis	P 3	.3	23	200
Triodia epactia		.4	1	
Triodia wiseana		.3	.5	

T24095

Staff JLT **Date** 10/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703826 **mE** 7705431 **mN** **Lat.** -20.7397 **Long.** 118.9575

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; <1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.1	2.1	
Acacia inaequilatera		1	<1	
Acacia maitlandii		.5	<1	
Bonamia erecta		.3	<1	
Bonamia linearis		.2	<1	

Corymbia hamersleyana		3.1	0.5	
Eriachne pulchella subsp. *dominii*		.05	<1	
Euploca mutica	P 3	.2	<1	8
Euploca pachyphylla		.3	<1	
Fimbristylis dichotoma		.1	<1	
Grevillea wickhamii		1.2	<1	
Indigofera monophylla		0.4	<1	
Isotropis atropurpurea		.2	<1	
Ptilotus calostachyus		.35	<1	
Scaevola browniana subsp. *browniana*		.15	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		.25	<1	
Triodia lanigera		.35	20	

T24096

Staff JLT **Date** 10/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704591 **mE** 7705440 **mN** **Lat.** -20.7395 **Long.** 118.9649

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy

Rock Type Granite, quartz

Loose Rock 0 % cover **Litter** 1 % cover ; <1 cm in depth

Bare ground 63 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^^*Acacia stellaticeps*,*Acacia ancistrocarpa*,*Acacia tumida* var. *pilbarensis*\^shrub\3\bi;G+ ^,^*Triodia lanigera*,*Triodia epactia*\^,hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		.2	0.1	
Acacia stellaticeps		.4	6	
Acacia tumida var. *pilbarensis*		1.2	<1	
Bonamia erecta		.3	<1	
Bonamia linearis		.1	<1	

Corymbia hamersleyana		3.1	<1	
Euploca mutica	P 3	.2	<1	5
Euploca pachyphylla		.25	<1	
Fimbristylis dichotoma		.1	<1	
Hakea chordophylla		.6	<1	
Indigofera monophylla		.3	<1	
Ptilotus astrolasius		.3	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		.25	<1	
Triodia epactia		.3	2	
Triodia lanigera		.3	25	

T24097

Staff JLT **Date** 11/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701457 **mE** 7715824 **mN** **Lat.** -20.6461 **Long.** 118.9336

Habitat Lower-Slope

Aspect W **Slope** Very Gentle

Soil Type Brown clay

Rock Type Granite

Loose Rock 10-20 % cover; 2-6 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** <1 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\3\bi;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Track, close to drill pad.

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		1.8	1	
**Aerva javanica*		.3	<1	
Boerhavia coccinea		.25	<1	
**Cenchrus ciliaris*		.3	<1	
**Cenchrus setiger*		.3	<1	
Corchorus parviflorus		.35	<1	

Dampiera candicans		.4	<1	
Enneapogon caerulescens		.1	<1	
Euphorbia australis var. *hispidula*		.05	<1	
Evolvulus alsinoides var. *villosicalyx*		.15	<1	
Ptilotus calostachyus		.3	<1	
Salsola australis		.35	<1	
Triodia chichesterensis	P 3	0.4	22	200
Triodia epactia		.3	<1	

T24098

Staff JLT **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701656 **mE** 7706053 **mN** **Lat.** -20.7343 **Long.** 118.9366

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^^*Triodia lanigera*,*Triodia chichesterensis*,*Acacia ancistrocarpa*\^hummock grass,shrub\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.6	1	
Acacia inaequilatera		2.1	3	
Bonamia erecta		0.25	<1	
Euploca mutica	P 3	0.25	<1	5
Evolvulus alsinoides var. *villosicalyx*		0.3	<1	

Fimbristylis dichotoma		0.1	<1	
Indigofera monophylla		0.15	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.2	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		.4	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.4	<1	
Trigastrotheca molluginea		.15	<1	
Triodia chichesterensis	P 3	.3	4	100
Triodia epactia		0.25	<1	
Triodia lanigera		0.25	16	

T24099

Staff JLT **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701472 **mE** 7705514 **mN** **Lat.** -20.7392 **Long.** 118.9349

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*\^shrub\3\i;G+ ^*Triodia lanigera*,^*Triodia chichesterensis*\^*temp*, hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	20	
Bonamia erecta		0.1	<1	
Bonamia linearis		.15	<1	
Corymbia hamersleyana		2.5	<1	
Dampiera candicans		0.4	<1	

Indigofera monophylla		0.3	<1	
Triodia chichesterensis	P 3	.3	5	100
Triodia epactia		0.5	<1	
Triodia lanigera		0.25	20	

T24100

Staff JLT **Date** 9/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701400 **mE** 7704419 **mN** **Lat.** -20.7491 **Long.** 118.9344

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy clay

Rock Type Nil

Loose Rock 0 % cover **Litter** 1.5 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia stellaticeps*,^*Acacia ancistrocarpa*\^shrub\3\i;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		0.3	<1	
Acacia ancistrocarpa		.5	<1	
Acacia bivenosa		.4	<1	
Acacia stellaticeps		.35	15	
Acacia tumida var. *pilbarensis*		1	<1	

Corymbia hamersleyana		3.1	1
Cucumis variabilis		.1	<1
Euploca mutica	P 3	0.15	<1
Euploca pachyphylla		.25	<1
Indigofera monophylla		0.3	<1
Neurachne muelleri		.25	<1
Ptilotus astrolasius		.4	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.3	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.4	<1
Triodia epactia		.35	<1
Triodia lanigera		.4	35

T24101

Staff JLT **Date** 11/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701051 **mE** 7714927 **mN** **Lat.** -20.6542 **Long.** 118.9298

Habitat Lower-Slope

Aspect SE **Slope** Gentle

Soil Type Orange clay

Rock Type Granite

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\bi;G+ ^*Triodia chichesterensis*,^*Triodia wiseana*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.1	0.5	
Boerhavia coccinea		.1	<1	
Bonamia media		.15	<1	
Corymbia hamersleyana		.35	<1	
Triodia chichesterensis	P 3	.35	18	200

Triodia wiseana	.4	4

T24102

Staff LC **Date** 10/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709901 **mE** 7729122 **mN** **Lat.** -20.5251 **Long.** 119.0130

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Granite, quartz

Loose Rock 20-50 % cover; 2-6 mm in size **Litter** 1 % cover ; 1-2 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ *Acacia inaequilatera*\^*temp*\6\r;G ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Not obvious

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		2	2	
Acacia stellaticeps		0.4	<1	
Cassytha capillaris		0.2	<1	
Euploca chrysocarpa		0.2	<1	

Hakea lorea subsp. *lorea*		1	<1	
Triodia chichesterensis	P 3	0.2	20	200
Triodia epactia		0.3	5	

T24103

Staff LC **Date** 10/04/2024 **Season** A

Revisit

Type Q 25 m x 100 m

Location

MGA Zone 50 707020 **mE** 7725530 **mN** **Lat.** -20.5578 **Long.** 118.9859

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Mixed

Loose Rock 50-90 % cover; 60-200 mm in size **Litter** 2 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 10 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*,^*Cenchrus ciliaris*\^hummock grass,tussock grass\1\i

Veg. Condition Good

Disturbance Road, weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia tumida var. *pilbarensis*		2	7	
Afrohybanthus aurantiacus		0.3	<1	
Arivela viscosa		0.1	<1	
Atalaya hemiglauca		2.5	<1	
Bonamia erecta		0.2	<1	

Cassytha capillaris	0.2	<1
**Cenchrus ciliaris*	0.4	10
Chrysopogon fallax	0.8	<1
Corchorus incanus subsp. *incanus*	1	<1
Corymbia hamersleyana	4	3
Euphorbia coghlanii	0.2	<1
Nellica maderaspatensis	0.2	<1
Rhynchosia minima	0.1	<1
Senna artemisioides subsp. *oligophylla*	0.6	<1
Themeda triandra	0.5	<1
Triodia epactia	0.3	15

T24104

Staff LC **Date** 11/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705466 **mE** 7722472 **mN** **Lat.** -20.5856 **Long.** 118.9713

Habitat Undulating plain

Aspect SE **Slope** Very Gentle

Soil Type Orange loam

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Not obvious

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		1.2	<1	
Bonamia media		0.1	<1	
Triodia chichesterensis	P 3	0.2	25	200

T24105

Staff LC **Date** 11/04/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 705476 **mE** 7722387 **mN** **Lat.** -20.5864 **Long.** 118.9714

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock 20-50 % cover; 60-200 mm in size **Litter** 3 % cover ; 2 cm in depth

Bare ground 55 % cover **Weeds** 15 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*\^shrub\4\i;G ^*Triodia epactia*,^*Cenchrus ciliaris*\^hummock grass,tussock grass\1\c

Veg. Condition Good

Disturbance Track, weeds

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.2	<1	
Acacia inaequilatera		1	<1	
Acacia tumida var. *pilbarensis*		2.5	10	
**Aerva javanica*		1	<1	
Afrohybanthus aurantiacus		0.3	<1	

Boerhavia gardneri	0.2	<1
Bonamia erecta	0.2	<1
**Cenchrus ciliaris*	0.4	10
**Cenchrus setiger*	0.4	<1
Chrysopogon fallax	1.2	<1
Corchorus tridens	0.3	<1
Corymbia hamersleyana	4	2
Cucumis variabilis	0.1	<1
Cullen stipulaceum	1.5	<1
Hibiscus burtonii	0.6	<1
Indigofera monophylla	0.4	<1
Neurachne muelleri	0.4	<1
Ptilotus astrolasius	0.5	<1
Rhynchosia minima	0.1	<1
Senna notabilis	0.1	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	1	<1
Triodia epactia	0.2	15

T24106

Staff LC **Date** 12/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702681 **mE** 7706701 **mN** **Lat.** -20.7283 **Long.** 118.9464

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*\^shrub\3\bi;G+ ^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Very Good

Disturbance Not obvious

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	0.5	
Acacia stellaticeps		0.3	<1	
Acacia synchronicia		2	<1	
Euploca chrysocarpa		0.2	<1	
Euploca mutica	P 3	0.2	<1	7
Hakea lorea subsp. *lorea*		0.4	<1	

Ptilotus calostachyus	0.5	<1
Triodia lanigera	0.2	20

T24107

Staff LC **Date** 12/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702288 **mE** 7707331 **mN** **Lat.** -20.7227 **Long.** 118.9426

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Quartz

Loose Rock 2-10 % cover; 20-60 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\bi;G+ ^*Triodia chichesterensis*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Track

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	0.5	
Acacia colei		0.6	<1	
Acacia stellaticeps		0.2	<1	
Acacia synchronicia		0.4	<1	
Corymbia hamersleyana		3	0.5	

Euploca chrysocarpa		0.2	<1	
Euploca mutica	P 3	0.2	<1	6
Indigofera monophylla		0.3	<1	
Ptilotus astrolasius		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.3	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.2	<1	
Triodia chichesterensis	P 3	0.2	25	200

T24108

Staff SOK **Date** 12/04/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 701048 **mE** 7710586 **mN** **Lat.** -20.6934 **Long.** 118.9303

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 2 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia ancistrocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Track

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.7	0.6	
Acacia inaequilatera		2	0.5	
Acacia stellaticeps		0.7	<1	
Bonamia erecta		0.2	<1	
Indigofera monophylla		0.4	<1	

Isotropis atropurpurea	0.5	<1
Triodia epactia	0.4	<1
Triodia lanigera	0.5	30

T24109

Staff SOK **Date** 13/04/2024 **Season** P

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701848 **mE** 7708089 **mN** **Lat.** -20.7159 **Long.** 118.9383

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type ?

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*,^*Acacia inaequilatera*\^tree\6\bi;M+ ^*Acacia ancistrocarpa*\^shrub\3\r; G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Track, cattle scat

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	2	
Acacia inaequilatera		2	<1	
Corymbia hamersleyana		3	<1	
Goodenia stobbsiana		0.2	<1	
Indigofera monophylla		0.3	<1	

Ptilotus astrolasius	0.4	<1
Ptilotus calostachyus	0.5	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	<1
Triodia epactia	0.4	<1
Triodia lanigera	0.4	30

T24110

Staff LC **Date** 13/04/2024 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701851 **mE** 7709757 **mN** **Lat.** -20.7008 **Long.** 118.9381

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange Sand

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** <1 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*,^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Track

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	1.5	
Acacia inaequilatera		2	2	
Acacia synchronicia		0.6	<1	
Bonamia media		0.2	<1	
Corchorus tridens		0.2	<1	

Eragrostis eriopoda		0.3	<1	
Euploca chrysocarpa		0.2	<1	
Euploca mutica	P 3	0.2	<1	5
Indigofera monophylla		0.4	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus calostachyus		0.6	<1	
Senna artemisioides subsp. *oligophylla*		0.4	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.2	<1	
Triodia chichesterensis	P 3	0.2	10	100
Triodia lanigera		0.3	15	

T24111

Staff JLT **Date** 12/04/2024 **Season** P

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699561 **mE** 7713434 **mN** **Lat.** -20.6679 **Long.** 118.9157

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Brown clay

Rock Type Nill

Loose Rock 0 % cover **Litter** <1 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** <1 % cover

Vegetation 6rM+ ^^*Acacia synchronicia*,*Acacia inaequilatera*,*Acacia tumida* var. *pilbarensis*\^tree,shrub\4\i;G ^*Triodia epactia*,^*Triodia secunda*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1.2	<1	
Acacia inaequilatera		2	4	
Acacia synchronicia		5	8	
Acacia tumida var. *pilbarensis*		3	<1	
Afrohybanthus aurantiacus		0.3	<1	

Boerhavia coccinea	.1	<1
**Calotropis procera*	.3	<1
**Cenchrus ciliaris*	.2	<1
**Cenchrus setiger*	.3	<1
Corchorus incanus subsp. *incanus*	.3	<1
Corchorus tridens	.15	<1
Dactyloctenium radulans	.08	<1
Dodonaea coriacea	.34	<1
Flueggea virosa subsp. *melanthesoides*	1	<1
**Indigofera oblongifolia*	.45	<1
Indigofera trita	.3	<1
Portulaca oleracea	.1	<1
Senna artemisioides subsp. *oligophylla*	.4	<1
Senna notabilis	.4	<1
Sida rohlenae subsp. *rohlenae*	.35	<1
Solanum diversiflorum	.2	<1
Sporobolus australasicus	.02	<1
Synaptantha tillaeacea var. *tillaeacea*	.5	<1
Triodia epactia	0.35	15
Triodia secunda	0.3	2.5
Triumfetta chaetocarpa	.2	<1

T24112

Staff JLT **Date** 13/04/2024 **Season** A

Revisit

Type Q 100 m x 25 m

Location Major creek

MGA Zone 50 699292 **mE** 7712270 **mN** **Lat.** -20.6784 **Long.** 118.9132

Habitat River

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 2 % cover ; 1-2 cm in depth

Bare ground 60 % cover **Weeds** 5 % cover

Vegetation U+ ^*Eucalyptus victrix*,^*Corymbia flavescens*\^tree\6\i;M ^^*Acacia trachycarpa*,*Acacia tumida* var. *pilbarensis*,*Scaevola spinescens*\^shrub\4\r;G ^^*Triodia epactia*,*Chrysopogon fallax*,*Cenchrus ciliaris*\^hummock grass,tussock grass\1\r

Veg. Condition Good

Disturbance Not obvious

Fire Age >10 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia trachycarpa		1.8	4	
Acacia tumida var. *pilbarensis*		1.5	3	
Afrohybanthus aurantiacus		.35	<1	
Aristida contorta		.15	<1	

Boerhavia coccinea	.3	<1
Bulbostylis turbinata	0.15	<1
Capparis umbonata	2	<1
Cassytha capillaris	.1	<1
**Cenchrus ciliaris*	.2	2
Chrysopogon fallax	.45	0.5
Corchorus elachocarpus	.45	<1
Corchorus incanus subsp. *incanus*	1.2	<1
Corchorus parviflorus	.3	<1
Corchorus tridens	.35	<1
Corymbia flavescens	6.5	5
Cucumis variabilis	.1	<1
Cyperus blakeanus	.45	<1
Dodonaea coriacea	1	<1
Eragrostis cumingii	.8	<1
Eragrostis eriopoda	.35	<1
Eucalyptus victrix	7	12
Eulalia aurea	.4	<1
Euphorbia coghlanii	.15	<1
Evolvulus alsinoides var. *decumbens*	.3	<1
Evolvulus alsinoides var. *villosicalyx*	.3	<1
Fimbristylis dichotoma	.2	<1
Flueggea virosa subsp. *melanthesoides*	1.8	<1
Goodenia lamprosperma	.3	<1
Hibiscus sturtii var. *platychlamys*	.3	<1
Ipomoea polymorpha	.06	<1
Paspalidium rarum	.1	<1
Perotis rara	.1	<1
Rhynchosia minima	.1	<1
Santalum lanceolatum	4	<1
Scaevola spinescens	0.5	2
Senna notabilis	.4	<1
Sida rohlenae subsp. *rohlenae*	0.5	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	.2	<1
Tinospora smilacina	.5	<1
Triodia epactia	.4	8
Triumfetta clementii	0.4	<1
Vigna lanceolata var. *lanceolata*	.2	<1

Waltheria indica	.45	<1

T2501

Staff LC **Date** 5/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 713973 **mE** 7727260 **mN** **Lat.** -20.5414 **Long.** 119.0523

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		1	<1	
Acacia stellaticeps		0.5	<1	
Aristida holathera var. *holathera*		0.2	<1	
Arivela uncifera		0.3	<1	
Bonamia erecta		0.3	<1	
Bonamia linearis		0.1	<1	

Bulbostylis barbata	0.2	<1
Eriachne pulchella subsp. *dominii*	0.1	<1
Fimbristylis neilsonii	0.2	<1
Grevillea wickhamii	1	<1
Hibiscus leptocladus	0.2	<1
Indigofera monophylla	0.2	<1
Portulaca oleracea	0.1	<1
Ptilotus clementii	0.4	<1
Scaevola browniana subsp. *browniana*	0.2	<1
Senna notabilis	0.2	<1
Solanum diversiflorum	0.2	<1
Sporobolus actinocladus	0.3	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	20

T2502

Staff LC **Date** 5/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 713551 **mE** 7725689 **mN** **Lat.** -20.5556 **Long.** 119.0484

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia orthocarpa*\^shrub\3\bi;G ^^*Triodia epactia*,*Corchorus elachocarpus*,*Indigofera monophylla*\^hummock grass,shrub\1\i

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		1	<1	
Acacia ancistrocarpa		1.2	<1	
Acacia inaequilatera		1.7	<1	
Acacia orthocarpa		1	<1	
Afrohybanthus aurantiacus		0.3	<1	

Aristida holathera var. *holathera*		0.2	<1
Arivela uncifera		0.2	<1
Arivela viscosa		0.4	<1
Bonamia erecta		0.2	<1
Bonamia linearis		0.05	<1
Bulbostylis barbata		0.15	<1
Chrysopogon fallax		1	<1
Corchorus elachocarpus		0.3	5
Enneapogon caerulescens		0.2	<1
Eragrostis eriopoda		0.3	<1
Euploca mutica	P 3	0.05	<1
Fimbristylis neilsonii		0.3	<1
Hakea lorea subsp. *lorea*		1	<1
Indigofera monophylla		0.3	3
Panicum australiense var. *australiense*		0.05	<1
Polycarpaea holtzei		0.05	<1
Polygala galeocephala			<1
Trigastrotheca molluginea		0.1	<1
Triodia epactia		0.4	20

T2503

Staff LC **Date** 9/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 712692 **mE** 7725053 **mN** **Lat.** -20.5615 **Long.** 119.0403

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** <1 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia epactia*,^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Cow tracks

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.5	5	
Acacia stellaticeps		0.4	<1	
Aristida contorta		0.2	<1	
Aristida holathera var. *holathera*		0.3	<1	
Arivela uncifera		0.3	<1	

Arivela viscosa		0.4	<1
**Cenchrus setiger*		0.2	<1
Dactyloctenium radulans		0.2	<1
Eragrostis dielsii		0.1	<1
Eriachne aristidea		0.2	<1
Eriachne sp.		0.2	<1
Indigofera monophylla		0.2	<1
Portulaca oleracea		0.3	<1
Sporobolus australasicus		0.2	<1
Stemodia grossa		0.3	<1
Trianthema triquetrum		0.2	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.3	20
Triodia epactia		0.3	20

T2504

Staff LC **Date** 9/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 712963 **mE** 7724162 **mN** **Lat.** -20.5695 **Long.** 119.0430

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam clay

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 1.5 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia stellaticeps*\^shrub\3\r;G ^*Triodia epactia*,^*Triodia secunda*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.2	<1	
Acacia bivenosa		2	<1	
Acacia inaequilatera		2	5	
Acacia stellaticeps		1	2	
Afrohybanthus aurantiacus		0.2	<1	

Aristida inaequiglumis	1	<1
Arivela viscosa	0.1	<1
Bonamia pannosa	0.1	<1
Bulbostylis barbata	0.1	<1
**Cenchrus ciliaris*	0.4	1.5
Corchorus elachocarpus	0.4	<1
Dactyloctenium radulans	0.1	<1
Eriachne pulchella subsp. *dominii*	0.1	<1
Euphorbia australis var. *subtomentosa*	0.05	<1
Euphorbia coghlanii	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Goodenia microptera	0.3	<1
Hibiscus sturtii var. *platychlamys*	0.2	<1
Indigofera linifolia	0.15	<1
Indigofera linnaei	0.1	<1
Indigofera monophylla	0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.1	<1
Paspalidium rarum	0.3	<1
Rhynchosia minima	0.1	<1
Senna glutinosa subsp. *glutinosa*	1.2	<1
Senna notabilis	0.3	<1
Solanum diversiflorum	0.2	<1
Sporobolus australasicus	0.15	<1
Trachymene oleracea subsp. *oleracea*	0.1	<1
Trianthema triquetrum	0.05	<1
Triodia epactia	0.3	25
Triodia secunda	0.2	15

T2505

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 710875 **mE** 7723033 **mN** **Lat.** -20.5799 **Long.** 119.0231

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 5 % cover ; 0-1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia bivenosa*\^shrub\4\r;G ^*Triodia epactia*,^*Acacia stellaticeps*\^hummock grass,shrub\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia bivenosa		2	1	
Acacia inaequilatera		2.5	4	
Acacia stellaticeps		0.5	5	
Acacia tumida var. *pilbarensis*		2	<1	

Arivela viscosa		<1
Bonamia erecta	0.4	<1
Bulbostylis barbata	0.3	<1
Cassytha capillaris	0.2	<1
Chrysopogon fallax	0.3	<1
Corchorus incanus subsp. *incanus*	0.5	<1
Eragrostis cumingii	0.2	<1
Eriachne aristidea	0.3	<1
Eriachne obtusa	0.4	<1
Fimbristylis dichotoma	0.3	<1
Indigofera monophylla	0.3	<1
Paspalidium rarum	0.2	<1
Pluchea tetranthera	0.3	<1
Triodia epactia	0.5	60

T2506

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 710440 **mE** 7720980 **mN** **Lat.** -20.5985 **Long.** 119.0192

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 3 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.7	<1	
Acacia inaequilatera		2	2	
Arivela uncifera		0.3	<1	
Bonamia erecta		0.3	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Indigofera monophylla		0.5	<1	

Panicum australiense var. *australiense*	0.2	<1
Triodia lanigera	0.5	40

T2507

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709479 **mE** 7719024 **mN** **Lat.** -20.6163 **Long.** 119.0102

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 3 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia lanigera*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		0.8	<1	
Acacia inaequilatera		2	2	
Acacia stellaticeps		0.5	<1	
Afrohybanthus aurantiacus		0.4	<1	
Arivela uncifera		0.4	<1	
Bonamia erecta		0.3	<1	

Bulbostylis barbata	0.2	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Indigofera monophylla	0.4	<1
Isotropis atropurpurea	0.5	<1
Panicum australiense var. *australiense*	0.2	<1
Polymeria sp.	0.1	<1
Sporobolus australasicus	0.2	<1
Trianthema triquetrum	0.1	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.5	<1
Triodia lanigera	0.5	40

T2508

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 707137 **mE** 7717798 **mN** **Lat.** -20.6276 **Long.** 118.9879

Habitat Flat

Aspect NW **Slope** Very Gentle

Soil Type Red loamy sand

Rock Type Granite

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	4	
Acacia maitlandii		1	<1	
Acacia orthocarpa		2	5	
Arivela viscosa		0.3	<1	
Bonamia erecta		0.4	<1	

Bonamia linearis	0.2	<1
Bulbostylis barbata	0.2	<1
Corchorus elachocarpus	0.5	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia australis var. *hispidula*	0.2	<1
Fimbristylis dichotoma	0.3	<1
Grevillea wickhamii	0.8	<1
Indigofera monophylla	0.4	<1
Polycarpaea corymbosa var. *corymbosa*	0.2	<1
Polycarpaea holtzei	0.1	<1
Portulaca oleracea	0.1	<1
Ptilotus fusiformis	0.4	<1
Scaevola browniana subsp. *browniana*	0.4	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.3	<1
Sporobolus australasicus	0.3	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.5	20
Triodia lanigera	0.5	20

T2509

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 707179 **mE** 7716775 **mN** **Lat.** -20.6368 **Long.** 118.9884

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock 10-20 % cover; 2-6 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\i;G+ ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	10	
Acacia inaequilatera		1	<1	
Acacia sericophylla		1	<1	
Acacia sphaerostachya		1	<1	
Acacia spondylophylla		0.5	<1	

Acacia stellaticeps	0.5	<1
Aristida contorta	0.3	<1
Aristida holathera var. *holathera*		<1
Arivela uncifera	0.3	<1
Bonamia erecta	0.3	<1
Bonamia linearis	0.3	<1
Bulbostylis barbata	0.1	<1
Corymbia hamersleyana	5	1
Eriachne pulchella subsp. *dominii*	0.2	<1
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Hakea lorea subsp. *lorea*	1	<1
Indigofera monophylla	0.4	<1
Panicum australiense var. *australiense*	0.1	<1
Ptilotus calostachyus	1	<1
Ptilotus fusiformis	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.4	30

T2510

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 706605 **mE** 7716192 **mN** **Lat.** -20.6422 **Long.** 118.9830

Habitat Outcropping

Aspect N **Slope** Gentle

Soil Type Red loamy sand

Rock Type Granite

Loose Rock 10-20 % cover; 200 mm in size **Litter** 3 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.5	<1	
Acacia spondylophylla		0.5	<1	
Acacia tumida var. *pilbarensis*		2	8	
Arivela uncifera		0.4	<1	
Arivela viscosa		0.4	<1	
Bulbostylis barbata		0.2	<1	

Bulbostylis burbidgeae	P 4	0.2	<1	
Corchorus parviflorus		0.7	<1	
Cucumis variabilis		0.1	<1	
Eriachne ciliata		0.1	<1	
Eriachne pulchella subsp. *dominii*		0.3	<1	
Euphorbia tannensis subsp. *eremophila*		0.4	<1	
Evolvulus alsinoides var. *villosicalyx*		0.3	<1	
Fimbristylis dichotoma		0.4	<1	
Fimbristylis simulans		0.2	<1	
Gomphrena leptoclada subsp. *leptoclada*		0.2	<1	
Indigofera colutea		0.2	<1	
Indigofera monophylla		0.4	<1	
Paspalidium clementii		0.2	<1	
Paspalidium rarum		0.2	<1	
Polycarpaea corymbosa var. *corymbosa*		0,2	<1	
Polycarpaea holtzei		0.1	<1	
Portulaca oleracea		0.1	<1	
Ptilotus fusiformis		0.3	<1	
Rothia indica subsp. *australis*	P 3	0.1	<1	5
Senna notabilis		0.3	<1	
Terminalia circumalata		3	<1	
Trachymene oleracea subsp. *oleracea*		0.2	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia epactia		0.5	20	

T2511

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703318 **mE** 7715611 **mN** **Lat.** -20.6478 **Long.** 118.9515

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light brown sand

Rock Type Granite, quartz, basalt

Loose Rock <2 % cover; 2-6 mm in size **Litter** 5 % cover ; 2 cm in depth

Bare ground 80 % cover **Weeds** 3 % cover

Vegetation U+ ^*Melaleuca argentea*,^*Eucalyptus victrix*\^tree\7\i;M ^*Acacia trachycarpa*,^*Acacia colei*\^shrub\4\r;G ^*Triodia epactia*,^*Eulalia aurea*\^hummock grass,tussock grass\1\r

Veg. Condition Very Good

Disturbance Cattle, grazing

Fire Age >10 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon otocarpum		0.05	<1	
Acacia colei		3	4	
Acacia trachycarpa		3.5	3	
Acacia tumida var. *pilbarensis*		2	<1	
**Aerva javanica*		0.2	<1	

Afrohybanthus aurantiacus	0.3	<1
Amaranthus undulatus	0.4	<1
Ammannia baccifera	0.4	<1
Ammannia multiflora	0.3	<1
Arivela viscosa	0.3	<1
Boerhavia coccinea	0.4	<1
Buchnera linearis	0.3	<1
Bulbostylis barbata	0.15	<1
Calandrinia tepperiana	0.15	<1
**Calotropis procera*	2	<1
**Cenchrus ciliaris*	0.4	1
Chloris pumilio	0.4	<1
Chrysopogon fallax	0.4	<1
Corchorus incanus subsp. *incanus*	0.4	<1
Crotalaria cunninghamii	0.6	<1
Crotalaria ramosissima	0.3	<1
Cymbopogon ambiguus	0.4	<1
Cynanchum floribundum	0.4	<1
Cyperus conicus	0.3	<1
Cyperus ixiocarpus	0.5	<1
Cyperus leptocarpus	0.15	<1
Cyperus squarrosus	0.15	<1
Digitaria ctenantha	0.4	<1
Eragrostis cumingii	0.4	1
Eragrostis tenellula	0.3	<1
Eriachne benthamii	1.2	<1
Eucalyptus victrix	12	8
Eulalia aurea	0.8	2
Euphorbia australis var. *subtomentosa*	0.01	<1
**Euphorbia hirta*	0.25	<1
Euphorbia tannensis subsp. *eremophila*	0.4	<1
Euphorbia trigonosperma	0.3	<1
Fimbristylis rara	0.25	<1
**Flaveria trinervia*	0.4	<1
Fuirena ciliaris	0.3	<1
Grona filiformis	0.15	<1
Hibiscus austrinus	0.4	<1
Indigofera hirsuta	0.5	<1

Indigofera linifolia	0.15	<1
Ipomoea coptica	0.2	<1
Ipomoea polymorpha	0.2	<1
Ludwigia perennis	0.2	
Melaleuca argentea	9	20
Nellica maderaspatensis	0.1	<1
Paspalidium rarum	0.2	<1
Pluchea rubelliflora	0.1	<1
Polycarpaea aff. *corymbosa*		<1
Rhynchosia minima	0.2	<1
Scleromitrion galioides	0.2	<1
Senna notabilis	0.1	<1
Sesbania cannabina	0.6	<1
Sorghum plumosum var. *plumosum*	1.2	<1
Stemodia grossa	0.15	<1
Stemodia viscosa	0.2	<1
Themeda triandra	0.6	<1
Tinospora smilacina	3	<1
Trachymene oleracea subsp. *oleracea*	0.1	<1
**Tridax procumbens*	0.4	<1
Triodia epactia	0.4	5
Waltheria indica	0.5	<1

T2512

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704305 **mE** 7715254 **mN** **Lat.** -20.6509 **Long.** 118.9610

Habitat Low undulating hill

Aspect E **Slope** Very Gentle

Soil Type Light brown sandy clay

Rock Type Quartz, calcrete

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*,^*Acacia orthocarpa*\^shrub\3\r;G ^*Triodia chichesterensis*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.15	<1	
Acacia ancistrocarpa		1	2	
Acacia ancistrocarpa x orthocarpa		1.2	<1	
Acacia bivenosa		1.2	<1	
Acacia orthocarpa		1.5	2	

Acacia stellaticeps		0.3	<1
Afrohybanthus aurantiacus		0.3	<1
Aristida contorta		0.3	<1
Aristida holathera var. *holathera*		0.6	<1
Arivela uncifera		0.3	<1
Bonamia erecta		0.15	<1
Bonamia pilbarensis		0.02	<1
Corchorus elachocarpus		0.2	<1
Corymbia hamersleyana		3.5	2
Eragrostis dielsii		0.2	<1
Eriachne mucronata		0.25	<1
Eriachne pulchella subsp. *pulchella*		0.1	<1
Euphorbia vaccaria var. *vaccaria*		0.1	<1
Grevillea wickhamii		1.2	<1
Hakea lorea subsp. *lorea*		1.5	<1
Indigofera monophylla		0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.15	<1
Panicum australiense var. *australiense*		0.1	<1
Paspalidium rarum			<1
Polygala glaucifolia		0.05	<1
Polymeria ambigua		0.1	<1
Ptilotus astrolasius		0.3	<1
Ptilotus axillaris		0.05	<1
Ptilotus calostachyus		0.5	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.3	<1
Sporobolus australasicus		0.15	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.2	35
Triodia epactia		0.2	<1
Triodia lanigera		0.2	3

T2513

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705054 **mE** 7714930 **mN** **Lat.** -20.6537 **Long.** 118.9682

Habitat Low undulating hill

Aspect S **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*, ^*Acacia spondylophylla*\^hummock grass,shrub\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.15	<1	
Acacia ancistrocarpa		1	4	
Acacia sphaerostachya		0.3	<1	
Acacia spondylophylla		0.3	3	
Acacia tumida var. *pilbarensis*		0.5	<1	

Afrohybanthus aurantiacus		0.4
Bonamia erecta	0.3	<1
Corymbia hamersleyana	3.5	3
Eragrostis dielsii	0.3	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Fimbristylis dichotoma	0.15	<1
Indigofera monophylla	0.25	<1
Polycarpaea holtzei	0.05	<1
Polygala glaucifolia	0,02	<1
Portulaca oleracea	0.5	<1
Ptilotus calostachyus	0.6	<1
Ptilotus fusiformis	0.15	<1
Schizachyrium fragile	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.25	35

T2514

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702594 **mE** 7717676 **mN** **Lat.** -20.6292 **Long.** 118.9443

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Clay

Rock Type Mixed

Loose Rock 2-10 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 80 % cover **Weeds** 3 % cover

Vegetation M+ ^*Acacia synchronicia*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Good

Disturbance Cattle trampling

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		1.7	5	
Afrohybanthus aurantiacus		0.2	<1	
**Cenchrus ciliaris*		3	<1	
Cucumis variabilis		0.3	<1	
Enneapogon caerulescens		0.1	<1	
Euphorbia australis var. *subtomentosa*		0.05	<1	

Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.5	<1
Portulaca oleracea	0.05	<1
Rhynchosia minima	0.2	<1
Senna notabilis	0.4	<1
Sida fibulifera	0.2	<1
Solanum diversiflorum	0.2	<1
Sporobolus australasicus	0.1	<1
Triodia epactia	0.3	16
**Vachellia farnesiana*	0.4	<1

T2515

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703155 **mE** 7717603 **mN** **Lat.** -20.6298 **Long.** 118.9497

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia epactia*,^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.5	3	
Acacia orthocarpa		1	<1	
Acacia stellaticeps		0.5	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.3	<1	

Bonamia pannosa		0.2	<1
Corchorus elachocarpus		0.4	<1
Dolichocarpa crouchiana		0.2	<1
Eriachne pulchella subsp. *dominii*		0.2	<1
Goodenia microptera		0.2	<1
Indigofera monophylla		0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.1	<1
Panicum australiense var. *australiense*		0.2	<1
Ptilotus clementii		0.3	<1
Senna notabilis		0.2	<1
Sporobolus australasicus		0.2	<1
Tephrosia clementii		0.2	<1
Tephrosia rosea var. *clementii*		0.4	<1
Tribulus hirsutus		0.1	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.3	15
Triodia epactia		0.4	20

T2516

Staff LC **Date** 10/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700172 **mE** 7710903 **mN** **Lat.** -20.6906 **Long.** 118.9218

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M ^,^*Acacia ancistrocarpa*\^,shrub\4\r;G+ ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	3	
Acacia inaequilatera		1.5	<1	
Acacia orthocarpa		2.5	3	
Arivela uncifera		0.3	<1	
Bonamia erecta		0.3	<1	
Eriachne aristidea		0.3	<1	

Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia australis	0.2	<1
Goodenia microptera	0.1	<1
Indigofera monophylla	0.1	<1
Polycarpaea holtzei	0.1	<1
Polycarpaea longiflora	0.2	<1
Ptilotus fusiformis	0.3	<1
Senna notabilis	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.4	40

T2517

Staff LC **Date** 5/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701042 **mE** 7718674 **mN** **Lat.** -20.6204 **Long.** 118.9293

Habitat Undulating Hills

Aspect W **Slope** Very Gentle

Soil Type Orange sand

Rock Type Quartz, Basalt

Loose Rock 2-10 % cover; 60-200 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia stellaticeps*\^shrub\3\r;G+ ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	<1	
Acacia stellaticeps		0.4	3	
Aristida contorta		0.1	<1	
Arivela uncifera		0.4	<1	
Arivela viscosa		0.4	<1	
Crotalaria cunninghamii		0.15	<1	

Dactyloctenium radulans	0.1	<1
Eriachne pulchella subsp. *dominii*	0.15	<1
Euphorbia australis var. *hispidula*	0.05	<1
Euphorbia coghlanii	0.2	<1
Fimbristylis dichotoma	0.15	<1
Indigofera linifolia	0.2	<1
Panicum australiense var. *australiense*	0.1	<1
Portulaca filifolia	0.05	<1
Portulaca oleracea	0.05	<1
Ptilotus astrolasius	0.2	<1
Ptilotus clementii	0.3	<1
Ptilotus clementii	0.3	<1
Senna notabilis	0.1	<1
Solanum diversiflorum	0.2	<1
Sporobolus australasicus	0.15	<1
Trianthema triquetrum	0.05	<1
Tribulus hirsutus	0.05	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.2	20

T2518

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 711712 **mE** 7723600 **mN** **Lat.** -20.5747 **Long.** 119.0311

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\4\r;G ^*Triodia lanigera*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia inaequilatera		2.5	3	
Acacia stellaticeps		0.4	<1	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia erecta		0.3	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	

Indigofera monophylla	0.3	<1
Triodia lanigera	0.5	45

T2519

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701322 **mE** 7717672 **mN** **Lat.** -20.6294 **Long.** 118.9321

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*,^*Acacia inaequilatera*\^shrub\3\r;G+ ^^*Triodia epactia*,*Triodia chichesterensis*,*Eriachne pulchella* subsp. *dominii*\^hummock grass,tussock grass\2\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	5	
Acacia inaequilatera		<2	2	
Aristida contorta		0.2	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.3	<1	

Bonamia pannosa		0.3	<1
Chrysopogon fallax		0.5	<1
Corchorus elachocarpus		0.3	<1
Corymbia hamersleyana		2.5	<1
Eriachne pulchella subsp. *dominii*		0.1	5
Euphorbia australis		0.2	<1
Euphorbia tannensis subsp. *eremophila*		0.2	<1
Euploca cunninghamii		0.2	<1
Goodenia lamprosperma		0.2	<1
Goodenia microptera		0.3	<1
Indigofera monophylla		0.2	<1
Nellica maderaspatensis		0.1	<1
Neurachne muelleri		0.5	<1
Panicum australiense var. *australiense*		0.2	<1
Polycarpaea holtzei		0.1	<1
Portulaca oleracea		0.2	<1
Ptilotus clementii		0.3	<1
Rhynchosia minima		0.2	<1
Senna notabilis		0.3	<1
Sporobolus australasicus		0.2	<1
Tribulus hirsutus		0.2	<1
Trigastrotheca molluginea		0.2	<1
Triodia chichesterensis	P 3	0.2	3
Triodia epactia		0.4	20
Triumfetta clementii		0.4	<1

T2520

Staff LC **Date** 5/04/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702784 **mE** 7719522 **mN** **Lat.** -20.6125 **Long.** 118.9459

Habitat Lower-Slope

Aspect SE **Slope** Moderate

Soil Type Loam

Rock Type Granitic

Loose Rock 0 % cover; >2000 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*,^*Terminalia circumalata*\^shrub\4\i;G ^*Triodia epactia*\^Hummock grass\\

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.4	<1	
Acacia spondylophylla		0.5	<1	
Acacia tumida var. *pilbarensis*		3	10	
Afrohybanthus aurantiacus		0.3	<1	
Afrohybanthus aurantiacus		0.6	<1	

Arivela viscosa		0.5	<1	
Bulbostylis burbidgeae	P 4	0.1	<1	50
Cajanus cinereus		0.7	<1	
Commelina ensifolia		0.2	<1	
Corchorus parviflorus			<1	
Cymbopogon ambiguus		0.7	<1	
Cyperus cunninghamii subsp. *cunninghamii*		0.3	<1	
Eriachne mucronata		0.3	<1	
Euphorbia coghlanii		0.3	<1	
Paspalidium clementii		0.3	<1	
Setaria surgens		0.3	<1	
Terminalia circumalata		3	3	
Trachymene oleracea subsp. *oleracea*		0.4	<1	
Triodia epactia		0.3	5	
Triumfetta incana			<1	

T2521

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699680 **mE** 7716076 **mN** **Lat.** -20.6440 **Long.** 118.9165

Habitat Upper-Slope

Aspect W **Slope** Gentle

Soil Type Red brown sandy loam

Rock Type Dolerite

Loose Rock 50-90 % cover; 60-200 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia maitlandii*\^hummock grass\3\bi;G+ ^^*Triodia wiseana*,*Triodia epactia*,*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia maitlandii		1	1	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Afrohybanthus aurantiacus		0.3	<1	
Arivela viscosa		0.4	<1	
Bonamia pilbarensis		0.1	<1	

Bulbostylis barbata		0.2	<1	
Cassytha capillaris		0.4	<1	
Corchorus parviflorus		0.3	<1	
Crotalaria novae-hollandiae subsp. *novae-hollandiae*		0.2	<1	
Dampiera candicans		0.4	<1	
Dampiera candicans		0.5	<1	
Dolichocarpa crouchiana		0.2	<1	
Enneapogon caerulescens		0.2	<1	
Enneapogon lindleyanus		0.4	<1	
Eriachne ciliata		0.2	<1	
Eriachne mucronata		0.3	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Euphorbia boophthona		0.3	<1	
Fimbristylis dichotoma		0.3	<1	
Gomphrena cunninghamii		0.2	<1	
Goodenia triodiophila		0.3	<1	
Grevillea wickhamii		1	<1	
Iseilema eremaeum		0.1	<1	
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.3	<1	
Panicum australiense var. *australiense*		0.1	<1	
Polygala glaucifolia		0.1	<1	
Polygala glaucifolia		0.1	<1	
Ptilotus auriculifolius		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Senna glutinosa subsp. *glutinosa*		1	<1	
Senna notabilis		0.1	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.5	<1	
Solanum diversiflorum		0.3	<1	
Solanum phlomoides		0.5	<1	
Sporobolus australasicus		0.2	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Tinospora smilacina		0.4	<1	
Trachymene oleracea subsp. *oleracea*		0.1	<1	
Tribulus hirsutus		0.1	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia chichesterensis	P 3	0.4	5	20
Triodia epactia		0.5	20	
Triodia wiseana		0.4	20	

Triumfetta clementii	0.5	<1

T2522

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699149 **mE** 7716179 **mN** **Lat.** -20.6431 **Long.** 118.9114

Habitat Undulating flats

Aspect N **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia orthocarpa*\^shrub\3\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	<1	
Acacia orthocarpa		2	1	
Acacia tumida var. *pilbarensis*		2	<1	
Aristida holathera var. *holathera*		0.3	<1	
Arivela viscosa		0.3	<1	

Bulbostylis barbata		0.1	<1	
Corymbia hamersleyana		6	2	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Euploca heterantha		0.1	<1	
Fimbristylis dichotoma		0.3	<1	
Indigofera monophylla		0.3	<1	
Panicum australiense var. *australiense*		0.2	<1	
Polygala glaucifolia		0.1	<1	
Ptilotus auriculifolius		0.3	<1	
Ptilotus calostachyus		0.4	<1	
Ptilotus fusiformis		0.3	<1	
Senna glutinosa subsp. *pruinosa*		1	<1	
Senna notabilis		0.2	<1	
Solanum phlomoides		0.5	<1	
Tinospora smilacina		0.2	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia chichesterensis	P 3	0.4	35	100
Triodia epactia		0.5	10	

T2523

Staff ECM **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702333 **mE** 7710329 **mN** **Lat.** -20.6956 **Long.** 118.9427

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light brown clay

Rock Type Calcrete, quartz

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	3	
Aristida contorta		0.25	<1	
Bonamia pilbarensis (atypical form)		0.15	<1	
Corchorus elachocarpus		0.4	<1	
Corchorus incanus subsp. *incanus*		0.4	<1	
Corymbia hamersleyana		1	<1	

Euphorbia australis var. *subtomentosa*		0.1	<1
Euploca chrysocarpa		0.2	<1
Euploca cunninghamii		0.15	<1
Euploca pachyphylla		0.3	<1
Goodenia stobbsiana		0.3	<1
Hibiscus coatesii		0.8	<1
Scaevola amblyanthera var. *centralis*		0.3	<1
Senna symonii		0.6	<1
Tephrosia clementii		0.2	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1
Triodia chichesterensis	P 3	0.2	35

T2524

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700285 **mE** 7715107 **mN** **Lat.** -20.6527 **Long.** 118.9225

Habitat Upper-Slope

Aspect SE **Slope** Moderate

Soil Type Red brown loam

Rock Type Dolerite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia maitlandii*,^*Acacia orthocarpa*\^shrub\3\r;G+ ^*Triodia wiseana*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia maitlandii		1,5	1	
Acacia orthocarpa		2	1	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.4	<1	

Arivela viscosa	0.4	<1
Bonamia pilbarensis	0.1	<1
Cassytha capillaris	0.3	<1
Corchorus parviflorus	0.7	<1
Corymbia hamersleyana	4	1
Crotalaria medicaginea var. *neglecta*	0.3	<1
Cymbopogon ambiguus	0.5	<1
Dampiera candicans	0.3	<1
Dolichocarpa crouchiana	0.2	<1
Enneapogon lindleyanus	0.4	<1
Eriachne mucronata	0.4	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia biconvexa	0.4	<1
Euphorbia boophthona	0.4	<1
Gomphrena cunninghamii	0.2	<1
Goodenia stobbsiana	0.4	<1
Grevillea wickhamii	1.3	<1
Indigofera monophylla	0.4	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		<1
Polycarpaea holtzei	0.1	<1
Polygala glaucifolia	0.1	<1
Ptilotus auriculifolius	0.4	<1
Senna glutinosa subsp. *glutinosa*	1.5	<1
Sporobolus australasicus	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia wiseana	0.5	50
Triumfetta clementii	0.4	<1

T2525

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698968 **mE** 7715295 **mN** **Lat.** -20.6511 **Long.** 118.9098

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 40 % cover **Weeds** <1 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	2	
Aristida holathera var. *holathera*		0.3	<1	
**Cenchrus ciliaris*		0.5	<1	
Corchorus parviflorus		0.5	<1	
Corymbia hamersleyana		5	2	

Crotalaria medicaginea var. *neglecta*		0.2	<1	
Eragrostis eriopoda		0.4	<1	
Ptilotus auriculifolius		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Rhynchosia minima		0.2	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Tribulus hirsutus		0.1	<1	
Triodia chichesterensis	P 3	0.4	<1	300
Triodia epactia		0.5	<1	
Triodia wiseana		0.5	<1	

T2526

Staff LC **Date** 10/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699882 **mE** 7714428 **mN** **Lat.** -20.6588 **Long.** 118.9187

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown loam clay

Rock Type Mixed

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^^*Acacia inaequilatera*,*Acacia orthocarpa*,*Acacia ancistrocarpa*\^shrub\3\i;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia bivenosa		2	<1	
Acacia inaequilatera		1.5	<1	
Acacia orthocarpa		2	<1	
Acacia stellaticeps		1	<1	

Acacia tumida var. *pilbarensis*	2	<1
Afrohybanthus aurantiacus	0.2	<1
Arivela uncifera	0.2	<1
Bonamia linearis	0.1	<1
Cassytha capillaris	0.2	<1
Chrysopogon fallax	1	<1
Corymbia hamersleyana	3.5	1.5
Cucumis variabilis	0.2	<1
Dolichocarpa crouchiana	0.1	<1
Euphorbia coghlanii	0.2	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Goodenia microptera	0.3	<1
Indigofera monophylla	0.5	<1
Rhynchosia minima	0.1	<1
Scaevola browniana subsp. *browniana*	0.1	<1
Senna notabilis	0.2	<1
Sporobolus australasicus	0.2	<1
Triodia epactia	0.3	40

T2527

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699377 **mE** 7714347 **mN** **Lat.** -20.6596 **Long.** 118.9138

Habitat Flat

Aspect NW **Slope** Very Gentle

Soil Type Red brown sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon sp. Pilbara (W.R. Barker 2025)		0.4	<1	
Acacia inaequilatera		2	4	
Aristida holathera var. *holathera*		0.4	<1	
Arivela viscosa		0.3	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	

Corchorus parviflorus		0.5	<1	
Corymbia hamersleyana		4	1	
Eriachne pulchella subsp. *dominii*		0.3	<1	
Goodenia muelleriana		0.3	<1	
Grevillea pyramidalis subsp. *leucadendron*		0.9	<1	
Panicum australiense var. *australiense*		0.1	<1	
Pluchea tetranthera		0.3	<1	
Polygala glaucifolia		0.1	<1	
Ptilotus auriculifolius		0.4	<1	
Ptilotus calostachyus		0.5	<1	
Senna notabilis		0.4	<1	
Sporobolus australasicus		0.2	<1	
Swainsona formosa		0.2	<1	
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.1	<1	
Tribulus hirsutus		0.1	<1	
Triodia chichesterensis	P 3	0.4	45	300
Triodia epactia		0.5	<1	

T2528

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698698 **mE** 7714570 **mN** **Lat.** -20.6577 **Long.** 118.9073

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Granite

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2.5	8	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Acacia stellaticeps		0.6	2	
Afrohybanthus aurantiacus		0.3	<1	
Aristida holathera var. *holathera*		0.3	<1	
Arivela viscosa		0.4	<1	

Bulbostylis barbata	0.2	<1
Corchorus elachocarpus	0.5	<1
Corymbia hamersleyana	4	<1
Cucumis variabilis	0.5	<1
Cullen pogonocarpum	0.3	<1
Dactyloctenium radulans	0.1	<1
Dampiera candicans	0.2	<1
Eriachne pulchella subsp. *dominii*	0.3	<1
Euphorbia australis var. *hispidula*	0.1	<1
Euphorbia boophthona	0.3	<1
Euploca cunninghamii	0.2	<1
Goodenia microptera	0.3	<1
Goodenia muelleriana	0.4	<1
Ipomoea muelleri	0.1	<1
Panicum australiense var. *australiense*	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.3	<1
Polygala galeocephala	0.1	<1
Polygala glaucifolia	0.1	<1
Ptilotus fusiformis	0.4	<1
Senna glutinosa subsp. *glutinosa*	1	<1
Senna notabilis	0.3	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Solanum diversiflorum	0.3	<1
Sporobolus australasicus	0.2	<1
Streptoglossa decurrens	0.3	<1
Synaptantha tillaeacea var. *tillaeacea*	0.1	<1
Trachymene oleracea subsp. *oleracea*	0.1	<1
Trianthema triquetrum	0.1	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	50

T2529

Staff ECM **Date** 28/05/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701649 **mE** 7710856 **mN** **Lat.** -20.6909 **Long.** 118.9360

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown clay loam

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia ancistrocarpa*,^*Acacia orthocarpa*\^shrub\4\i;G ^*Triodia lanigera*,^*Indigofera monophylla*\^hummock grass,shrub\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes Quadrat crossing over between unburnt and fire scar



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	12	
Acacia inaequilatera		3.5	1	
Acacia orthocarpa		3	3	
Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.5	<1	

Arivela viscosa	0.05	<1
Bonamia alatisemina	0.1	<1
Bonamia erecta	0.2	<1
Bonamia pannosa	0.15	<1
Bulbostylis barbata	0.1	<1
Corymbia hamersleyana	0.7	<1
Eragrostis dielsii	0.3	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Fimbristylis dichotoma	0.1	<1
Grevillea wickhamii	0.7	<1
Indigofera monophylla	0.3	1
Polycarpaea holtzei	0.05	<1
Ptilotus fusiformis	0.5	<1
Senna notabilis	0.1	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Sporobolus australasicus	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.3	65

T2530

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705883 **mE** 7713757 **mN** **Lat.** -20.6642 **Long.** 118.9763

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*,^*Acacia orthocarpa*\^shrub\3\r;G ^^*Triodia epactia*,*Triodia lanigera*,*Indigofera monophylla*\^hummock grass,shrub\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.2	1	
Acacia orthocarpa		1.5	1	
Afrohybanthus aurantiacus		0.4	<1	
Arivela uncifera		0.1	<1	
Boerhavia coccinea		0.3	<1	

Bonamia alatisemina	0.1	<1
Bulbostylis barbata	0.1	<1
Chrysopogon fallax	0.5	<1
Corymbia hamersleyana	6	3
Eragrostis dielsii	0.3	<1
Eriachne ciliata	0.15	<1
Euphorbia australis var. *subtomentosa*	0.1	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Fimbristylis dichotoma	0.15	<1
Fimbristylis rara	0.2	<1
Goodenia lamprosperma	0.3	<1
Goodenia microptera	0.1	<1
Grona filiformis	0.2	<1
Hibiscus leptocladus	0.1	<1
Indigofera colutea	0.15	<1
Indigofera monophylla	0.3	3
Panicum australiense var. *australiense*	0.15	<1
Paspalidium rarum	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Polygala glaucifolia	0.02	<1
Portulaca oleracea	0.1	<1
Ptilotus fusiformis	0.4	<1
Schizachyrium fragile	0.05	<1
Senna notabilis	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	<1
Triodia epactia	0.3	30
Triodia lanigera	0.3	10

T2531

Staff SOK **Date** 26/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698203 **mE** 7712321 **mN** **Lat.** -20.6780 **Long.** 118.9028

Habitat Upper-Slope

Aspect SE **Slope** Gentle

Soil Type Red loamy sand

Rock Type Granite

Loose Rock 20-50 % cover; 600 mm in size **Litter** 3 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*,^*Terminalia circumalata*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon cunninghamii		0.5	<1	
Abutilon lepidum		0.6	<1	
Acacia pyrifolia var. *pyrifolia*		2	<1	
Acacia tumida var. *pilbarensis*		4	6	
Afrohybanthus aurantiacus		0.3	<1	

Arivela viscosa		0.5	<1	
Bulbostylis barbata		0.2	<1	
Bulbostylis burbidgeae	P 4	0.2	<1	10
Cajanus cinereus		0.5	<1	
Corchorus parviflorus		0.4	<1	
Cymbopogon ambiguus		0.7	<1	
Cyperus cunninghamii subsp. *cunninghamii*		0.5	<1	
Eriachne aristidea		0.3	<1	
Eriachne ciliata		0.4	<1	
Eriachne mucronata		0.4	<1	
Eriachne pulchella subsp. *dominii*		0.3	3	
Euphorbia coghlanii		0.3	<1	
Evolvulus alsinoides var. *villosicalyx*		0.2	<1	
Fimbristylis dichotoma		0.4	<1	
Flueggea virosa subsp. *melanthesoides*		2	<1	
Gomphrena cunninghamii		0.2	<1	
Gomphrena leptoclada subsp. *leptoclada*		0.3	<1	
Goodenia microptera		0.5	<1	
Indigofera trita		0.3	<1	
Ipomoea coptica		0.2	<1	
Panicum australiense var. *australiense*		0.1	<1	
Paspalidium clementii		0.3	<1	
Paspalidium rarum		0.2	<1	
Polycarpaea corymbosa var. *corymbosa*		0.2	<1	
Polycarpaea holtzei		0.1	<1	
Ptilotus fusiformis		0.3	<1	
Rhynchosia minima		0.4	<1	
Senna notabilis		0.5	<1	
Senna venusta		0.5	<1	
Solanum aff. *gabrielae*		0.2	<1	
Solanum diversiflorum		0.2	<1	
Sporobolus australasicus		0.2	<1	
Stemodia viscosa		0.4	<1	
Streptoglossa decurrens		0.4	<1	
Terminalia circumalata		3	2	
Tinospora smilacina		0.6	<1	
Trachymene oleracea subsp. *oleracea*		0.4	<1	
Triodia epactia		0.5	35	

Triumfetta incana	1	<1
Zornia muelleriana subsp. *congesta*	0.1	<1

T2532

Staff SOK **Date** 26/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697966 **mE** 7712768 **mN** **Lat.** -20.6740 **Long.** 118.9005

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Granite

Loose Rock <2 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\4\i;G+ ^*Triodia schinzii*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		3	10	
Arivela viscosa			<1	
Bulbostylis barbata		0.2	<1	
Corchorus parviflorus		0.5	<1	
Goodenia microptera		0.2	<1	
Grevillea wickhamii		0.9	<1	

Indigofera monophylla	0.5	<1
Panicum australiense var. *australiense*	0.2	<1
Ptilotus fusiformis	0.3	<1
Senna notabilis	0.4	<1
Sporobolus australasicus	0.3	<1
Trachymene oleracea subsp. *oleracea*	0.4	<1
Trianthema pilosum	0.1	<1
Tribulus hirsutus	0.1	<1
Trigastrotheca molluginea	0.2	<1
Triodia epactia	0.5	2
Triodia schinzii	0.6	55

T2533

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697325 **mE** 7709568 **mN** **Lat.** -20.7030 **Long.** 118.8947

Habitat Flat

Aspect SW **Slope** Very Gentle

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock >90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		2	<1	
Acacia inaequilatera		2	2	
Acacia orthocarpa		1.5	<1	
Bonamia pannosa		0.15	<1	
Cassytha capillaris		0.2	<1	

Eriachne pulchella subsp. *dominii*		0.2	<1
Nellica maderaspatensis		0.1	<1
Panicum australiense var. *australiense*		0.1	<1
Ptilotus clementii		0.2	<1
Senna notabilis		0.2	<1
Trachymene oleracea subsp. *oleracea*		0.2	<1
Tribulus hirsutus		0.1	<1
Trigastrotheca molluginea		0.2	<1
Triodia chichesterensis	P 3	0.3	30
Triodia epactia		0.4	3

T2534

Staff LC **Date** 8/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697656 **mE** 7711019 **mN** **Lat.** -20.6899 **Long.** 118.8977

Habitat Plain

Aspect S **Slope** Gentle

Soil Type Orange loam

Rock Type ?Basalt

Loose Rock 10-20 % cover; 60-200 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*\^shrub\4\i;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2.5	12	
Acacia tumida var. *pilbarensis*		2	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida holathera var. *holathera*		0.2	<1	
Arivela viscosa		0.3	<1	
Boerhavia coccinea		0.3	<1	

Bonamia erecta	0.2	<1
Bulbostylis barbata	0.15	<1
Dampiera candicans	0.3	<1
Dolichocarpa crouchiana	0.1	<1
Eragrostis elongata	0.2	<1
Eragrostis elongata	0.3	<1
Eragrostis eriopoda	0.3	<1
Eriachne aristidea	0.2	<1
Euphorbia coghlanii	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Fimbristylis neilsonii	0.2	<1
Fimbristylis simulans	0.1	<1
Gomphrena cunninghamii	0.1	<1
Goodenia lamprosperma	0.2	<1
Hibiscus sturtii var. *platychlamys*	0.2	<1
Indigofera linifolia	0.2	<1
Ipomoea coptica	0.3	<1
Neurachne muelleri	0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.15	<1
Panicum australiense var. *australiense*	0.1	<1
Paranotis pterospora	0.2	<1
Polycarpaea longiflora	0.15	<1
Polymeria ambigua	0.05	<1
Ptilotus fusiformis	0.3	<1
Rhynchosia minima	0.3	<1
Senna notabilis	0.15	<1
Solanum diversiflorum	0.2	<1
Trachymene oleracea subsp. *oleracea*	0.3	<1
Trichodesma zeylanicum var. *zeylanicum*	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.3	35
Waltheria indica	0.4	<1
Zornia muelleriana subsp. *congesta*	0.2	<1

T2535

Staff LC **Date** 8/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 696913 **mE** 7710325 **mN** **Lat.** -20.6962 **Long.** 118.8906

Habitat Crest

Aspect SE **Slope** Steep

Soil Type Red sandy loam

Rock Type ?Basalt

Loose Rock <2 % cover; >2000 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia sabulosa*,^*Acacia orthocarpa*\^shrub\4\bi;G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon lepidum		0.2	<1	
Acacia orthocarpa		3	1	
Acacia sabulosa		3	1	
Acacia tumida var. *pilbarensis*		2.5	<1	
Afrohybanthus aurantiacus		0.3	<1	
Afrohybanthus aurantiacus		0.3	<1	

Aristida holathera var. *holathera*	0.4	<1
Arivela viscosa	0.5	<1
Bulbostylis barbata	0.1	<1
Cajanus cinereus	1	<1
Calandrinia tepperiana	0.2	<1
Cheilanthes sieberi subsp. *sieberi*	0.2	<1
Chrysopogon fallax	1.5	<1
Commelina ensifolia	0.2	<1
Corchorus incanus subsp. *incanus*	0.4	<1
Cucumis variabilis	0.2	<1
Cymbopogon ambiguus	1	<1
Cyperus cunninghamii subsp. *cunninghamii*	0.2	<1
Cyperus squarrosus	0.1	<1
Dampiera candicans	0.4	<1
Eragrostis elongata	0.4	<1
Eriachne aristidea	0.2	<1
Eriachne lanata	0.3	<1
Euphorbia coghlanii	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Fimbristylis dichotoma	0.3	<1
Gomphrena cunninghamii	0.2	<1
Gonocarpus ephemerus	0.2	<1
Nellica maderaspatensis	0.1	<1
Paspalidium clementii	0.1	<1
Paspalidium rarum	0.3	<1
Polycarpaea longiflora	0.2	<1
Ptilotus clementii	0.3	<1
Rhynchosia minima	0.3	<1
Senna notabilis	0.1	<1
Terminalia circumalata	1.5	<1
Tinospora smilacina	0.3	<1
Trachymene oleracea subsp. *oleracea*	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.3	30
Triumfetta clementii	0.3	<1
Waltheria indica	0.4	<1

T2536

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 696771 **mE** 7709109 **mN** **Lat.** -20.7072 **Long.** 118.8894

Habitat Lower-Slope

Aspect N **Slope** Very Gentle

Soil Type Red brown loam

Rock Type Quartz

Loose Rock 0 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 35 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		1.8	<1	
Arivela viscosa		0.2	<1	
Boerhavia coccinea		0.05	<1	
Eriachne pulchella subsp. *dominii*		0.1	<1	
Euphorbia clementii	P 3	0.2	<1	3

Euploca chrysocarpa		0.2	<1
Indigofera linifolia		0.2	<1
Panicum australiense var. *australiense*		0.1	<1
Ptilotus calostachyus		0.4	<1
Ptilotus clementii		0.2	<1
Senna notabilis		0.3	<1
Tribulus hirsutus		0.1	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.2	35
Triodia epactia		0.3	2

T2537

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695957 **mE** 7708429 **mN** **Lat.** -20.7134 **Long.** 118.8817

Habitat Lower-Slope

Aspect NW **Slope** Gentle

Soil Type Red sandy

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age <5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia inaequilatera		3	1	
Acacia orthocarpa		3	<1	
Arivela viscosa		0.2	<1	
Dolichocarpa crouchiana		0.1	<1	

Eriachne pulchella subsp. *dominii*		0.2	<1
Fimbristylis dichotoma		0.1	<1
Panicum australiense var. *australiense*		0.1	<1
Ptilotus clementii		0.2	<1
Sporobolus australasicus		0.2	<1
Tephrosia rosea var. *clementii*		0.4	<1
Tribulus hirsutus		0.2	<1
Triodia chichesterensis	P 3	0.3	40
Triodia epactia		0.4	10

T2538

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 200 m x 12.5 m

Location

MGA Zone 50 701773 **mE** 7714039 **mN** **Lat.** -20.6621 **Long.** 118.9369

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red brown gravelly sand

Rock Type Granite

Loose Rock 10-20 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia tumida* var. *pilbarensis*,^*Acacia ancistrocarpa*\^shrub\4\c;G ^^*Triodia epactia*,*Triodia lanigera*,*Chrysopogon fallax*\^hummock grass,tussock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	9	
Acacia bivenosa		1	<1	
Acacia inaequilatera		1	<1	
Acacia orthocarpa		2.5	<1	

Acacia stellaticeps	0.3	<1
Acacia tumida var. *pilbarensis*	3	45
Afrohybanthus aurantiacus	0.3	<1
Aristida contorta	0.3	<1
Aristida holathera var. *holathera*	0.4	<1
Aristida hygrometrica	0.4	<1
Bonamia alatisemina	0.1	<1
Bonamia media	0.1	<1
Bonamia pilbarensis (atypical form)	0.1	<1
Bulbostylis barbata	0.15	<1
Chrysopogon fallax	0.4	5
Corymbia hamersleyana	7	1
Eriachne mucronata	0.3	<1
Eriachne pulchella subsp. *pulchella*	0.15	<1
Euphorbia trigonosperma	0.3	<1
Euploca pachyphylla	0.4	<1
Fimbristylis dichotoma	0.15	<1
Goodenia microptera	0.4	<1
Grevillea wickhamii	0.1	<1
Hibiscus leptocladus	0.3	<1
Hibiscus sturtii var. *campylochlamys*	0.2	<1
Indigofera hirsuta	0.3	<1
Indigofera monophylla	0.3	<1
Isotropis atropurpurea	0.3	<1
Melhania oblongifolia	0.3	<1
Neurachne muelleri	0.2	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.2	<1
Panicum australiense var. *australiense*	0.1	<1
Paspalidium rarum	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Polycarpaea holtzei	0.05	<1
Polymeria ambigua	0.15	<1
Polymeria sp.	0.1	<1
Portulaca oleracea	0.05	<1
Ptilotus calostachyus	0.4	<1
Ptilotus fusiformis	0.4	<1
Rhynchosia minima	0.15	<1
Scaevola amblyanthera var. *centralis*	0.15	<1

Senna notabilis	0,1	<1
Sida clementii	0.2	<1
Solanum diversiflorum	0.3	<1
Sporobolus australasicus	0.1	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.5	35
Triodia lanigera	0.3	5

T2539

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695412 **mE** 7709241 **mN** **Lat.** -20.7062 **Long.** 118.8763

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 30 % cover **Weeds** <1 % cover

Vegetation U ^*Corymbia flavescens*\^tree\6\r;M ^*Acacia inaequilatera*\^shrub\3\bi;G+ ^*Triodia epactia*, ^*Corchorus elachocarpus*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		0.5	<1	
Acacia inaequilatera		1.5	1	
Afrohybanthus aurantiacus		0.4	<1	
Amaranthus undulatus		0.4	<1	
Arivela viscosa		0.4	<1	

Boerhavia coccinea	0.1	<1
Bonamia pannosa	0.3	<1
Bulbostylis barbata	0.1	<1
**Cenchrus ciliaris*	0.4	<1
Chrysopogon fallax	0.4	<1
Corchorus elachocarpus	0.4	20
Corchorus parviflorus		<1
Corymbia flavescens	3	1
Eragrostis cumingii	0.2	<1
Grevillea pyramidalis subsp. *leucadendron*	2	<1
Indigofera linnaei		<1
Neurachne muelleri	0.4	<1
Perotis rara	0.1	<1
Polycarpaea longiflora	0.3	<1
Polymeria ambigua		<1
Polymeria ambigua	0.1	<1
Senna notabilis	0.2	<1
Sida arenicola	0.5	<1
Sida sp.	0.2	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	<1
Solanum diversiflorum	0.2	<1
Sporobolus australasicus	0.3	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.15	<1
Triodia epactia	0.3	30
Triodia lanigera	0.1	<1

T2540

Staff SOK **Date** 1/06/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701056 **mE** 7708400 **mN** **Lat.** -20.7131 **Long.** 118.9306

Habitat Flat

Aspect N **Slope** Very Gentle

Soil Type Red brown sand

Rock Type Granite

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M+ ^^*Acacia ancistrocarpa*,*Acacia tumida* var. *pilbarensis*,*Acacia inaequilatera*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.4	5	
Acacia inaequilatera		2	1	
Acacia orthocarpa		1	<1	
Acacia tumida var. *pilbarensis*		1.6	2	
Afrohybanthus aurantiacus		0.3	<1	

Bonamia linearis	0.1	<1
Bulbostylis barbata	0.2	<1
Eriachne pulchella subsp. *dominii*	0.4	<1
Indigofera monophylla	0.4	<1
Pluchea tetranthera	0.3	<1
Polygala galeocephala	0.1	<1
Portulaca oleracea	0.1	<1
Scaevola browniana subsp. *browniana*	0.4	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.5	<1
Sporobolus australasicus	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera		<1

T2541

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695163 **mE** 7707816 **mN** **Lat.** -20.7190 **Long.** 118.8741

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia chichesterensis*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	1	
Acacia inaequilatera		2	2	
Acacia stellaticeps		1	<1	
Aristida contorta		0.1	<1	
Eriachne aristidea		0.1	<1	

Eriachne pulchella subsp. *dominii*		0.1	<1
Panicum australiense var. *australiense*		0.1	<1
Ptilotus clementii		0.3	<1
Senna notabilis		0.2	<1
Sporobolus australasicus		0.1	<1
Tephrosia rosea var. *clementii*		0.4	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.2	35
Triodia epactia		0.3	10

T2542

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703385 **mE** 7713203 **mN** **Lat.** -20.6695 **Long.** 118.9524

Habitat Flat

Aspect N **Slope** Very Gentle

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*, ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	3	
Acacia bivenosa		1	1	
Acacia stellaticeps		0.5	<1	
Afrohybanthus aurantiacus		0.4	<1	
Arivela uncifera		0.1	<1	

Bonamia pannosa	0.25	<1
Bulbostylis barbata	0.1	<1
Chrysopogon fallax	0.6	<1
Corymbia hamersleyana	5	1
Eragrostis dielsii	0.3	<1
Eriachne aristidea	0.2	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Fimbristylis dichotoma	0.15	<1
Goodenia microptera	0.1	<1
Indigofera monophylla	0.3	<1
Isotropis atropurpurea	0.25	<1
Panicum australiense var. *australiense*	0.05	<1
Pluchea dentex	0.3	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Polycarpaea holtzei	0.05	<1
Ptilotus fusiformis	0.4	<1
Schizachyrium fragile	0.2	<1
Senna notabilis	0.2	<1
Sida rohlenae subsp. *rohlenae*	0.1	<1
Sporobolus australasicus	0.1	<1
Trachymene oleracea subsp. *oleracea*	0.1	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	15
Triodia lanigera	0.4	50
Triodia secunda	0.15	<1
Tripogonella loliiformis	0.2	<1

T2543

Staff LC **Date** 10/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698668 **mE** 7709305 **mN** **Lat.** -20.7052 **Long.** 118.9076

Habitat Lower-Slope

Aspect W **Slope** Very Gentle

Soil Type Red loam

Rock Type Basalt

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 35 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia orthocarpa*\^shrub\4\r;G+ ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia orthocarpa		2	2	
Aristida contorta		0.1	<1	
Arivela uncifera		0.2	<1	
Cyperus squarrosus		0.05	<1	
Eriachne pulchella subsp. *dominii*		0.1	<1	

Euploca cunninghamii		0.15	<1
Evolvulus alsinoides var. *villosicalyx*		0.1	<1
Fimbristylis simulans		0.1	<1
Indigofera linifolia		0.2	<1
Indigofera monophylla		0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.1	<1
Panicum australiense var. *australiense*		0.1	<1
Polycarpaea holtzei		0.05	<1
Polycarpaea longiflora		0.1	<1
Senna glutinosa subsp. *glutinosa*		1.2	<1
Senna glutinosa subsp. *pruinosa*		1.5	<1
Sporobolus australasicus		0.4	<1
Tephrosia rosea var. *clementii*		0.2	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.2	2
Triodia epactia		0.3	10
Triodia lanigera		0.4	30

T2544

Staff LC **Date** 8/04/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695516 **mE** 7707328 **mN** **Lat.** -20.7234 **Long.** 118.8776

Habitat Mid-Slope

Aspect SE **Slope** Gentle

Soil Type Red grey sandy

Rock Type Quartz

Loose Rock >90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia chichesterensis*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		1	<1	
Acacia synchronicia		1.5	<1	
Aristida contorta		0.1	<1	
Corchorus parviflorus		0.4	<1	
Tephrosia rosea var. *clementii*		0.4	<1	
Trigastrotheca molluginea		0.2	<1	

Triodia chichesterensis	P 3	0.3	55
Triodia epactia		0.3	<1
Triodia epactia		0.4	1

T2545

Staff LC **Date** 8/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695208 **mE** 7706935 **mN** **Lat.** -20.7270 **Long.** 118.8746

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Mixed

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 35 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Cattle trampling

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		2	<1	
Acacia ancistrocarpa		2	<1	
Acacia inaequilatera		2.3	2	
Alysicarpus muelleri		0.1	<1	
Cajanus cinereus		0.3	<1	

**Citrullus amarus*	0.1	<1	1
Corchorus parviflorus	0.05	<1	
Corchorus tridens	0,2	<1	
Eriachne pulchella subsp. *dominii*	0.1	<1	
Euphorbia australis var. *subtomentosa*	0.05	<1	
Euphorbia coghlanii	0.3	<1	
Evolvulus alsinoides var. *villosicalyx*	0.2	<1	
Indigofera trita	0.2	<1	
Nellica maderaspatensis	0.15	<1	
Portulaca oleracea	0.05	<1	
Rhynchosia minima	0.3	<1	
Scaevola browniana subsp. *browniana*	0.1	<1	
Senna artemisioides subsp. *oligophylla*	1	<1	
Senna notabilis	0.05	<1	
Solanum diversiflorum	0.2	<1	
Sporobolus australasicus	0.1	<1	
Stemodia grossa	0.3	<1	
Swainsona formosa	0.2	<1	
Tephrosia sp.	0.1	<1	
Trianthema triquetrum	0.1	<1	
Triodia epactia	0.3	40	

T2546

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695507 **mE** 7706068 **mN** **Lat.** -20.7348 **Long.** 118.8776

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Quartz

Loose Rock 0 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*,^*Acacia ancistrocarpa*\^shrub\3\r;G+ ^*Triodia lanigera*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.7	5	
Acacia bivenosa		1	<1	
Acacia inaequilatera		1.8	2	
Acacia stellaticeps		0.4	15	
Aristida contorta		0.15	<1	

Bonamia erecta	0.2	<1
Corymbia hamersleyana	2	<1
Eriachne pulchella subsp. *dominii*	0.1	<1
Indigofera monophylla	0.2	<1
Ptilotus astrolasius	0.4	<1
Senna symonii	0.7	<1
Sporobolus australasicus	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.3	30

T2547

Staff LC **Date** 8/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697186 **mE** 7708215 **mN** **Lat.** -20.7152 **Long.** 118.8935

Habitat Lower-Slope

Aspect S **Slope** Gentle

Soil Type Orange loam

Rock Type Mixed

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 1.5 % cover

Vegetation M+ ^*Acacia acradenia*,^*Acacia inaequilatera*\^shrub\4\i;G ^*Triodia epactia*,^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia acradenia		2	7	
Acacia inaequilatera		2.3	3	
Alysicarpus muelleri		0.1	<1	
Arivela viscosa		0.4	<1	
Bonamia pannosa		0.05	<1	

Bulbostylis barbata		0.4	<1
Cajanus cinereus		0.4	<1
**Cenchrus setiger*		0.3	1.5
Corchorus parviflorus		0.4	<1
Corymbia hamersleyana		1	<1
Cucumis variabilis		0.3	<1
Dolichocarpa crouchiana		0.1	<1
Enneapogon caerulescens		0.3	<1
Eragrostis elongata		0.2	<1
Eriachne pulchella subsp. *dominii*		0.1	<1
Euphorbia australis var. *subtomentosa*		0.05	<1
Euphorbia coghlanii		0.3	<1
Evolvulus alsinoides var. *villosicalyx*		0.15	<1
Hakea chordophylla		1.7	<1
Indigofera linifolia		0.3	<1
Indigofera linnaei		0.3	<1
Perotis rara		0.15	<1
Polycarpaea holtzei		0.05	<1
Rhynchosia minima		0.3	<1
Senna notabilis		0,4	<1
Solanum diversiflorum		0.3	<1
Sporobolus australasicus		0.1	<1
Stemodia grossa		0.4	<1
Tephrosia rosea var. *clementii*		0.4	<1
Triodia chichesterensis	P 3	0.2	15
Triodia epactia		0.3	25
Triumfetta clementii		0.3	<1
Waltheria indica		0.3	<1

T2548

Staff LC **Date** 10/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698038 **mE** 7708564 **mN** **Lat.** -20.7120 **Long.** 118.9016

Habitat Flat

Aspect W **Slope** Very Gentle

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock >90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 80 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia inaequilatera*\^shrub\4\r;G+ ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia bivenosa		2	<1	
Acacia inaequilatera		2	5	
Boerhavia coccinea		0.3	<1	
Bulbostylis barbata		0.2	<1	
Corchorus elachocarpus		0.3	<1	

Corymbia hamersleyana	1.5	<1
Cucumis variabilis	0.2	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia australis var. *subtomentosa*	0.2	<1
Euphorbia coghlanii	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Goodenia lamprosperma	0.3	<1
Indigofera monophylla	0.3	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.2	<1
Panicum australiense var. *australiense*	0.2	<1
Polycarpaea longiflora	0.2	<1
Senna notabilis	0.3	<1
Solanum diversiflorum	0.5	<1
Sporobolus australasicus	0.w	<1
Stemodia grossa	0.5	<1
Tephrosia rosea var. *clementii*	0.3	<1
Tribulus hirsutus	0.2	<1
Triodia epactia	0.4	25
Triodia lanigera	0.3	20
Waltheria indica	0.2	<1

T2549

Staff LC **Date** 5/04/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698939 **mE** 7710849 **mN** **Lat.** -20.6913 **Long.** 118.9100

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red loam

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia ancistrocarpa*\^shrub\3\bi;G+ ^*Triodia epactia*,^*Sporobolus actinocladus*\^Hummock grass,tussock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	<1	
Acacia synchronicia		0.5	<1	
Aristida contorta		0.2	<1	
Arivela viscosa		0.5	<1	
Cucumis variabilis		.0.5	<1	

Dactyloctenium radulans	0.1	<1
Dichanthium sericeum subsp. *humilius*	0.1	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia australis var. *hispidula*	0.05	<1
Euphorbia coghlanii	0.3	<1
Euploca heterantha	0.05	<1
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Gomphrena cunninghamii	0.1	<1
Goodenia lamprosperma	0.2	<1
Indigofera trita	0.2	<1
Paspalidium clementii	0.2	<1
Polycarpaea holtzei	0.1	<1
Polycarpaea longiflora	0.3	<1
Polygala glaucifolia	0.1	<1
Portulaca oleracea	0.2	<1
Pterocaulon sphacelatum	0.5	<1
Ptilotus clementii	0.4	<1
Rhynchosia minima	0.2	<1
Senna notabilis	0.3	<1
Sporobolus actinocladus	0.3	5
Trachymene oleracea subsp. *oleracea*	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	30

T2550

Staff LC **Date** 5/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699125 **mE** 7711491 **mN** **Lat.** -20.6854 **Long.** 118.9117

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Quartz

Loose Rock >90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia inaequilatera*\^tree\4\r;G ^*Triodia chichesterensis*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	2	
Acacia sphaerostachya		2	<1	
Acacia stellaticeps		0.5	5	
Acacia synchronicia		0.2	<1	
Afrohybanthus aurantiacus		0.2	<1	

Aristida holathera var. *holathera*		0.2	<1
Bonamia media		0.2	<1
Cassytha capillaris		0.3	<1
Corymbia hamersleyana		3	3
Eriachne pulchella subsp. *dominii*		0.1	<1
Hibiscus sp.		0.2	<1
Polygala glaucifolia		0.05	<1
Ptilotus calostachyus		0.1	<1
Senna notabilis		0.2	<1
Triodia chichesterensis	P 3	0.3	30

T2551

Staff ECM **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703505 **mE** 7711112 **mN** **Lat.** -20.6884 **Long.** 118.9538

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia stellaticeps*\^shrub\3\bi;G+ ^*Triodia lanigera*, ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age <5 years

Notes Some large triodia. Isolated corymbia ham



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2.5	<1	
Acacia bivenosa		0.5	<1	
Acacia sphaerostachya		0.5	<1	
Acacia stellaticeps		1	1	
Afrohybanthus aurantiacus		0.1	<1	

Aristida hygrometrica	0.4	<1
Bonamia alatisemina	0.2	<1
Bulbostylis barbata	0.15	<1
Chrysopogon fallax	0.5	<1
Corymbia hamersleyana	3.5	1
Eriachne obtusa	0.3	<1
Eriachne obtusa	0.35	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Gomphrena leptoclada subsp. *leptoclada*	0.15	<1
Grona muelleri	0.4	<1
Indigofera monophylla	0.3	<1
Panicum australiense var. *australiense*	0.2	<1
Pluchea tetranthera	0.5	<1
Polycarpaea corymbosa var. *corymbosa*	0.05	<1
Polygala galeocephala	0.05	<1
Ptilotus axillaris	0.1	<1
Ptilotus fusiformis	0.4	<1
Schizachyrium fragile	0.3	<1
Stemodia grossa	0.6	<1
Trigastrotheca molluginea	0.05	<1
Triodia epactia	0.2	2
Triodia lanigera	0.4	60

T2552

Staff ECM **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704892 **mE** 7710988 **mN** **Lat.** -20.6894 **Long.** 118.9671

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange brown sandy clay

Rock Type Quartz, biotite/muscovite

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*,^*Acacia orthocarpa*\^shrub\3\bi;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.2	<1	
Acacia ancistrocarpa		1.5	1	
Acacia maitlandii		0.7	<1	
Acacia orthocarpa		1.5	1	
Acacia stellaticeps		0.5	2	

Afrohybanthus aurantiacus	0.3	<1
Aristida holathera var. *holathera*	0.5	<1
Arivela uncifera	0.2	<1
Bonamia alatisemina	0.1	<1
Bulbostylis barbata	0.1	<1
Corymbia hamersleyana	4	1
Eragrostis dielsii		<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Fimbristylis dichotoma	0.1	<1
Goodenia microptera	0.1	<1
Grevillea wickhamii	0.5	<1
Indigofera monophylla	0.3	<1
Leptosema anomalum	0.3	<1
Mitrasacme connata	0.5	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Polycarpaea holtzei	0.05	<1
Polygala glaucifolia	0.05	<1
Ptilotus fusiformis	0.5	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	<1
Trachymene oleracea subsp. *oleracea*	0.1	<1
Trigastrotheca molluginea	0.05	<1
Triodia epactia	0.2	<1
Triodia lanigera	0.2	65

T2553

Staff ECM **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705835 **mE** 7710878 **mN** **Lat.** -20.6903 **Long.** 118.9762

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.2	2	
Acacia inaequilatera		1	<1	
Arivela uncifera		0.2	<1	
Bonamia alatisemina		0.1	<1	
Bonamia erecta		0.15	<1	

Bulbostylis barbata	0.1	<1
Corymbia hamersleyana	3.5	1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Fimbristylis dichotoma	0.2	<1
Indigofera monophylla	0.1	<1
Panicum australiense var. *australiense*	0.2	<1
Sporobolus australasicus	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.3	45

T2554

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704033 **mE** 7713352 **mN** **Lat.** -20.6681 **Long.** 118.9586

Habitat Low undulating hill

Aspect NW **Slope** Very Gentle

Soil Type Light brown clay loam

Rock Type Calcrete

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia bivenosa*\^shrub\3\bi;G ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1	1	
Acacia tumida var. *pilbarensis*		0.15	<1	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corymbia hamersleyana		4.5	3	

Eragrostis dielsii		0.3	<1
Euploca chrysocarpa		0.15	<1
Hakea lorea subsp. *lorea*		0.8	<1
Ptilotus astrolasius		0.2	<1
Scaevola amblyanthera var. *centralis*		0.25	<1
Tribulus hirsutus		0.05	<1
Triodia chichesterensis	P 3	0.2	35

T2555

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702542 **mE** 7713073 **mN** **Lat.** -20.6708 **Long.** 118.9443

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light brown sand

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 10 % cover ; 2 cm in depth

Bare ground 80 % cover **Weeds** 3 % cover

Vegetation U+ ^*Eucalyptus victrix*,^*Melaleuca argentea*\^tree\6\i;M ^*Acacia trachycarpa*,^*Acacia tumida* var. *pilbarensis*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\r

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon otocarpum		0.1	<1	
Acacia colei		1.5	<1	
Acacia trachycarpa		3	2	
Acacia tumida var. *pilbarensis*		1.5	1	
Ammannia baccifera		0.2	<1	

Aristida hygrometrica	0.4	<1
Arivela viscosa	0.7	<1
Arivela viscosa	0.4	<1
Bonamia alatisemina	0.1	<1
Buchnera linearis	0.3	<1
Bulbostylis barbata	0.1	<1
Calandrinia tepperiana	0.1	<1
**Cenchrus ciliaris*	0.4	3
**Cenchrus setiger*	0.5	<1
Chloris pumilio		<1
Chrysopogon fallax	0.4	1
Corchorus incanus subsp. *incanus*	0.3	<1
Crotalaria medicaginea var. *neglecta*	0.4	<1
Crotalaria ramosissima	0.3	<1
Cymbopogon ambiguus	0.8	<1
Cynanchum floribundum	0.3	<1
Cyperus conicus	0.2	<1
Cyperus ixiocarpus	0.5	1
Cyperus leptocarpus	0.25	<1
Cyperus squarrosus	0.15	<1
Digitaria ctenantha		<1
Drosera finlaysoniana	0.05	<1
Eragrostis cumingii	0.3	<1
Eragrostis tenellula	0.4	1
Eriachne aristidea	0.2	<1
Eriachne benthamii	0.8	<1
Eucalyptus victrix	8	8
Eulalia aurea	0.6	1
Euphorbia australis var. *subtomentosa*	0.05	<1
**Euphorbia hirta*	0.15	<1
Euphorbia tannensis subsp. *eremophila*	0.3	<1
Euphorbia trigonosperma	0.5	<1
Evolvulus alsinoides var. *decumbens*	0.2	<1
Fimbristylis microcarya	0.2	<1
Fimbristylis rara	0.25	<1
Flueggea virosa subsp. *melanthesoides*	1	<1
Gomphrena leptoclada subsp. *leptoclada*	0.1	<1
Goodenia lamprosperma	0.3	<1

Goodenia microptera	0.4	<1
Heteropogon contortus	0.7	1
Hibiscus austrinus	0.4	<1
Indigofera colutea	0.15	<1
Indigofera hirsuta	0.4	<1
Indigofera linifolia	0.1	<1
Melaleuca argentea	4	2
Nellica maderaspatensis	0.15	<1
Paspalidium rarum	0.3	<1
Perotis rara	0.1	<1
Pluchea rubelliflora	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Rhynchosia minima	0.4	<1
Scleromitrion galioides	0.15	<1
Senna notabilis	0.3	<1
Setaria surgens	0.4	<1
Sida rohlenae subsp. *rohlenae*	0.5	<1
Solanum chippendalei	0.4	<1
Solanum diversiflorum	0.3	<1
Stackhousia muricata subsp. *annual (W.R. Barker 2172)*	0.3	<1
Stemodia grossa	0.3	<1
Stemodia viscosa	0.2	<1
Streptoglossa decurrens	0.3	<1
Stylidium desertorum	0.03	<1
**Stylosanthes hamata*	0.4	<1
Swainsona kingii	0.2	<1
Themeda triandra	0.7	<1
Tinospora smilacina	0.4	<1
Trachymene oleracea subsp. *oleracea*	1.5	<1
Trianthema pilosum	0.1	<1
**Tridax procumbens*	0.4	<1
Triodia epactia	0.4	4
Wahlenbergia tumidifructa	0.2	<1
Waltheria virgata	0.5	<1

T2556

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705454 **mE** 7712414 **mN** **Lat.** -20.6764 **Long.** 118.9724

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Light brown sandy clay

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;G ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes A. tumida and A. ancistrocarpa mid isolated shrubs



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia stellaticeps		0.5	2	
Acacia tumida var. *pilbarensis*		1.5	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.2	<1	

Boerhavia coccinea	0.15	<1
Bonamia alatisemina	0.1	<1
Bulbostylis barbata	0.1	<1
Corchorus parviflorus	0.1	<1
Corymbia hamersleyana	4	3
Cucumis variabilis	0.05	<1
Eriachne ciliata	0.15	<1
Euphorbia trigonosperma	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Fimbristylis dichotoma	0.2	<1
Fimbristylis rara	0.3	<1
Gossypium australe	0.3	<1
Grona filiformis	0.15	<1
Indigofera monophylla	0.2	<1
Panicum australiense var. *australiense*	0.1	<1
Paspalidium sp.	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.1	<1
Polycarpaea holtzei	0.05	<1
Polygala galeocephala	0.05	<1
Polygala glaucifolia	0.02	<1
Ptilotus fusiformis	0.4	<1
Schizachyrium fragile	0.2	<1
Stackhousia muricata subsp. *annual (W.R. Barker 2172)*	0.3	<1
Tinospora smilacina	0.3	<1
Trachymene oleracea subsp. *oleracea*	0.5	<1
Tribulus hirsutus	0.05	<1
Trigastrotheca molluginea	0.05	<1
Triodia epactia	0.4	40
Triodia lanigera	0.3	5

T2557

Staff ECM **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 706579 **mE** 7713474 **mN** **Lat.** -20.6667 **Long.** 118.9830

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.7	6	
Acacia sericophylla		0.7	<1	
Afrohybanthus aurantiacus		0.4	<1	
Arivela uncifera		0.25	<1	
Bonamia alatisemina		0.25	<1	

Bonamia erecta	0.3	<1
Bulbostylis barbata	0.1	<1
Chrysopogon fallax	0.4	<1
Corymbia hamersleyana	3.5	1
Eragrostis dielsii	0.3	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Goodenia microptera	0.4	<1
Indigofera monophylla	0.3	<1
Polycarpaea holtzei	0.05	<1
Polygala glaucifolia	0.05	<1
Ptilotus calostachyus	0.1	<1
Ptilotus fusiformis		<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.15	<1
Trigastrotheca molluginea	0.05	<1
Triodia lanigera	0.3	45

T2558

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702259 **mE** 7702626 **mN** **Lat.** -20.7652 **Long.** 118.9428

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;M ^*Acacia ancistrocarpa*\^shrub\4\r;G ^*Triodia lanigera*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2.5	2	
Acacia tumida var. *pilbarensis*		1.2	<1	
Arivela viscosa		0.4	<1	
Bonamia erecta		0.5	<1	
Cassytha capillaris		0.3	<1	

Chrysopogon fallax	1	<1
Corymbia hamersleyana	5	5
Cucumis variabilis	0.3	<1
Euphorbia australis var. *subtomentosa*	0.1	<1
Grevillea pyramidalis subsp. *leucadendron*	5	<1
Indigofera monophylla	0.4	<1
Tinospora smilacina	0.3	<1
Triodia lanigera	0.5	55

T2559

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 701150 **mE** 7702736 **mN** **Lat.** -20.7643 **Long.** 118.9322

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Nil

Loose Rock 0 % cover **Litter** <1 % cover ; <1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\\;M *Acacia ancistrocarpa*\^\3\r;G+ ^*Triodia lanigera*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	3	
Acacia stellaticeps		0.3	2	
Acacia tumida var. *pilbarensis*		1	<1	
Afrohybanthus aurantiacus		0.2	<1	
Aristida holathera var. *holathera*		0.3	<1	

Arivela uncifera	0.2	<1
Chrysopogon fallax	1	<1
Corymbia hamersleyana	3	<1
Indigofera monophylla	0.2	<1
Neurachne muelleri	0.1	<1
Ptilotus fusiformis	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia lanigera	0.2	55

T2560

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 699649 **mE** 7702887 **mN** **Lat.** -20.7631 **Long.** 118.9177

Habitat Outcrop

Aspect N/A **Slope** Gentle

Soil Type Orange loam

Rock Type ? Basalt

Loose Rock 0 % cover **Litter** <3 % cover ; 1-5 cm in depth

Bare ground 80 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia stellaticeps		0.3	<1	
Acacia tumida var. *pilbarensis*		2	4	
Afrohybanthus aurantiacus		0.2	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.2	<1	
Bulbostylis barbata		0.1	<1	

Corchorus incanus subsp. *incanus*	0.4	<1
Corymbia hamersleyana	2	<1
Evolvulus alsinoides var. *decumbens*	0.1	<1
Fimbristylis neilsonii	0.2	<1
Hibiscus sturtii var. *platychlamys*	0.2	<1
Neurachne muelleri	0.2	<1
Panicum australiense var. *australiense*	0.1	<1
Paspalidium rarum	0.3	<1
Ptilotus fusiformis	0.3	<1
Tinospora smilacina	0.3	<1
Triodia epactia	0.2	10
Zornia muelleriana subsp. *congesta*	0.2	<1

T2561

Staff LC **Date** 6/04/2025 **Season**

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 698555 **mE** 7702970 **mN** **Lat.** -20.7625 **Long.** 118.9072

Habitat Flat

Aspect S **Slope** Very Gentle

Soil Type Red sandy gravel

Rock Type Granitic

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia tumida*\^shrub\4\i;G ^*Triodia epactia*\^hummock grass\2\i

Veg. Condition Very Good

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia tumida var. *pilbarensis*		3	15	
Afrohybanthus aurantiacus		0.4	<1	
Aristida contorta		0.2	<1	
Aristida holathera var. *holathera*		0.5	<1	
Bonamia pannosa		0.2	<1	
Bulbostylis barbata		0.1	<1	

Byblis pilbarana	0.2	<1	12
Cajanus cinereus	1	<1	
Calandrinia tepperiana	0.2	<1	
Corchorus incanus subsp. *incanus*	0.5	<1	
Cymbopogon ambiguus	0.4	<1	
Enneapogon caerulescens	0.2	<1	
Eragrostis cumingii	0.2	<1	
Eriachne aristidea	0.2	<1	
Eriachne pulchella subsp. *dominii*	0.2	<1	
Euphorbia coghlanii	0.3	<1	
Evolvulus alsinoides var. *villosicalyx*	0.3	<1	
Fimbristylis dichotoma	0.3	<1	
Gomphrena cunninghamii	0.1	<1	
Gonocarpus ephemerus	0.2	<1	
Panicum australiense var. *australiense*	0.15	<1	
Paspalidium clementii	0.3	<1	
Perotis rara	0.1	<1	
Pluchea rubelliflora	0.1	<1	
Polycarpaea holtzei	0.1	<1	
Polycarpaea longiflora	0.2	<1	
Portulaca filifolia	0.1	<1	
Ptilotus clementii	0.4	<1	
Senna notabilis	0.4	<1	
Solanum diversiflorum	0.3	<1	
Sporobolus australasicus	0.3	<1	
Stemodia grossa	0.1	<1	
Trachymene oleracea subsp. *oleracea*	0.3	<1	
Tribulus hirsutus	0.2	<1	
Trigastrotheca molluginea	0.1	<1	
Triodia epactia	0.4	20	
Waltheria indica	0.3	<1	

T2562

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697327 **mE** 7703120 **mN** **Lat.** -20.7612 **Long.** 118.8954

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Clay loam

Rock Type Nil

Loose Rock 0 % cover **Litter** <1 % cover ; <1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia wiseana*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Aristida contorta		0.2	<1	
Eragrostis desertorum		0.2	<1	
Euploca chrysocarpa		0.2	<1	
Goodenia microptera		0.3	<1	
Senna notabilis		0.05	<1	
Sporobolus australasicus		0.2	<1	

Stemodia grossa	0.1	<1
Triodia wiseana	0.2	20

T2563

Staff ECM **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699438 **mE** 7705364 **mN** **Lat.** -20.7407 **Long.** 118.9154

Habitat Outcrop*

Aspect W **Slope** Moderate

Soil Type Red clay loam

Rock Type Basalt

Loose Rock 50-90 % cover; 200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 45 % cover **Weeds** 15 % cover

Vegetation G+ ^*Cenchrus ciliaris*,^*Triodia epactia*\^tussock grass,hummock grass\1\i

Veg. Condition Very Good

Disturbance Weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.8	<1	
Arivela viscosa		0.7	<1	
Boerhavia coccinea		0.3	<1	
Bulbostylis barbata		0.15	<1	
Cajanus cinereus		0.5	<1	
**Cenchrus ciliaris*		0.5	15	

Clerodendrum floribundum		2	<1
Corchorus parviflorus		0.5	<1
Corymbia hamersleyana		4	<1
Cullen stipulaceum		0.3	<1
Eriachne mucronata		0.3	<1
Ficus brachypoda		2	<1
Flueggea virosa subsp. *melanthesoides*		1.5	<1
Gomphrena cunninghamii		0.15	<1
Gossypium australe		0.5	<1
Indigofera colutea		0.3	<1
Jasminum didymum subsp. *lineare*		0.5	<1
Nicotiana umbratica	P 3	0.4	<1
Polycarpaea corymbosa		0.05	<1
Rhynchosia minima		0.3	<1
Senna venusta		2	<1
Solanum cleistogamum		0.5	<1
Tinospora smilacina		0.5	<1
Trichosanthes cucumerina		1	5
Triodia epactia		0.3	8

T2564

Staff ECM **Date** 27/05/2025 **Season**

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 699096 **mE** 7704228 **mN** **Lat.** -20.7510 **Long.** 118.9123

Habitat Outcrop*

Aspect E **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Basalt

Loose Rock 20-50 % cover; 60-200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Terminalia circumalata*\^tree\6\r;3biG ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle, old fencing

Fire Age >5 years

Notes Basalt dyke.



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2.5	<1	
Acacia inaequilatera		1	<1	
Acacia tumida var. *pilbarensis*		2	1	
Amaranthus undulatus		0.7	<1	
Arivela viscosa		0.6	<1	
Corchorus parviflorus		0.8	<1	

Corymbia hamersleyana	2	<1
Cymbopogon ambiguus	1	<1
Eriachne ciliata	0.35	<1
Euphorbia trigonosperma	0.4	<1
Gomphrena cunninghamii	0.1	<1
Ptilotus auriculifolius	0.5	<1
Ptilotus clementii	0.5	<1
Rhynchosia minima	0.3	<1
Senna glutinosa subsp. *glutinosa*	2	<1
Senna notabilis	0.4	<1
Solanum cleistogamum	0.4	<1
Terminalia circumalata	1	2
Tribulus platypterus	1.2	<1
Triodia epactia	0.3	45

T2565

Staff ECM **Date** 27/05/2025 **Season**

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 699706 **mE** 7705515 **mN** **Lat.** -20.7393 **Long.** 118.9180

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light brown sand

Rock Type Quartz

Loose Rock 0 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 80 % cover **Weeds** <1 % cover

Vegetation U+ ^*Eucalyptus victrix*\^tree\6\r;M ^^*Acacia tumida* var. *pilbarensis*,*Acacia colei*,*Acacia pyrifolia* var. *pyrifolia*\^shrub\4\i;G ^*Chrysopogon fallax*,^*Triodia epactia*\^tussock grass,hummock grass\2\i

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ampliceps		1.5	<1	
Acacia bivenosa		1	<1	
Acacia colei		3	5	
Acacia orthocarpa		3	<1	
Acacia pyrifolia var. *pyrifolia*		4	5	

Acacia pyrifolia var. *pyrifolia*	2	<1
Acacia tumida var. *pilbarensis*	4	5
Alysicarpus muelleri	0.6	<1
Aristida holathera var. *holathera*	0.2	<1
Arivela viscosa	0.3	<1
Bonamia pilbarensis (atypical form)	0.15	<1
Buchnera linearis	0.3	<1
Bulbostylis barbata	0.1	<1
Cajanus cinereus	1	<1
**Cenchrus setiger*	0.5	<1
Chrysopogon fallax	0.6	8
Corchorus incanus subsp. *incanus*	0.2	<1
Corymbia hamersleyana	5	1
Crotalaria medicaginea var. *neglecta*	0.5	<1
Cymbopogon ambiguus	1	<1
Cyperus ixiocarpus	0.6	<1
Cyperus vaginatus	0.6	<1
Dolichocarpa crouchiana	0.1	<1
Eragrostis cumingii	0.6	<1
Eucalyptus victrix	9	8
Euphorbia australis var. *subtomentosa*	0.1	<1
Euphorbia trigonosperma	0.4	<1
Evolvulus alsinoides var. *decumbens*	0.3	<1
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Fimbristylis rara	0.15	<1
Flueggea virosa subsp. *melanthesoides*	2	<1
Gomphrena leptoclada subsp. *leptoclada*	0.2	<1
Goodenia lamprosperma	0.3	<1
Hibiscus austrinus	0.5	<1
Indigofera colutea	0.2	<1
Indigofera linifolia	0.3	<1
Indigofera monophylla	0.3	<1
Indigofera trita	0.4	<1
Nellica maderaspatensis	0.15	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.15	<1
Paspalidium sp.	0.2	<1
Pluchea rubelliflora	0.4	<1
Polymeria ambigua	0.1	<1

Rhynchosia minima	0.3	<1
Senna notabilis	0.5	<1
Sesbania cannabina	0.5	<1
Sporobolus australasicus	0.3	<1
Tribulus hirsutus	0.05	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.6	6
Waltheria indica	0.2	<1

T2566

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697395 **mE** 7703724 **mN** **Lat.** -20.7558 **Long.** 118.8960

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 10-20 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\r;G+ ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.7	<1	
Acacia hilliana		0.4	<1	
Acacia pyrifolia var. *pyrifolia*		2	<1	
Acacia stellaticeps		1	<1	
Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.3	<1	

Bulbostylis barbata	0.2	<1
Cassytha capillaris	0.3	<1
Corymbia hamersleyana	4	2
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Indigofera monophylla	0.3	<1
Isotropis atropurpurea	0.3	<1
Panicum australiense var. *australiense*		<1
Senna notabilis	0.1	<1
Sporobolus australasicus	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	30

T2567

Staff ECM **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 703625 **mE** 7710359 **mN** **Lat.** -20.6952 **Long.** 118.9550

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;G ^^*Triodia secunda*,*Triodia lanigera*,*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes A bit of the T lanigera & A. stellaticeps encroaching on T. secunda. Near drainage



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		0.4	<1	
Acacia stellaticeps		0.5	3	
Afrohybanthus aurantiacus		0.4	<1	
Corymbia hamersleyana		3	1	
Cucumis variabilis		0.6	<1	

Eragrostis dielsii	0.25	<1
Eriachne aristidea		<1
Eriachne obtusa	0.15	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Panicum australiense var. *australiense*	0.15	<1
Senna symonii	1	<1
Sporobolus australasicus	0.2	<1
Streptoglossa decurrens	0.1	<1
Trianthema triquetrum	0.1	<1
Trigastrotheca molluginea	0.05	<1
Triodia epactia	0.4	5
Triodia lanigera	0.3	15
Triodia secunda	0.3	20

T2568

Staff LC **Date** 9/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698408 **mE** 7707262 **mN** **Lat.** -20.7237 **Long.** 118.9053

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;G+ ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Fence line and cattle in SW corner

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		1.5	<1	
Acacia stellaticeps		0.4	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida holathera var. *holathera*		0.3	<1	
Arivela uncifera		0.2	<1	

Boerhavia coccinea	0.3	<1
Bulbostylis barbata		<1
Chrysopogon fallax	0.5	<1
Corchorus parviflorus	0.4	<1
Corymbia hamersleyana	5	1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia coghlanii	0.4	<1
Evolvulus alsinoides var. *villosicalyx*	0.3	<1
Grona filiformis	0.4	<1
Indigofera monophylla	0.5	<1
Perotis rara	0.2	<1
Polycarpaea holtzei	0.1	<1
Polycarpaea longiflora	0.2	<1
Scaevola browniana subsp. *browniana*	0.1	<1
Schizachyrium fragile	0.1	<1
Sporobolus australasicus	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trachymene oleracea subsp. *oleracea*	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.3	20
Triodia lanigera	0.3	20

T2569

Staff LC **Date** 9/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699021 **mE** 7706453 **mN** **Lat.** -20.7309 **Long.** 118.9113

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Mixed

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia tumida* var. *pilbarensis*,^*Acacia stellaticeps*\^shrub\3\i;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.2	<1	
Acacia pyrifolia var. *pyrifolia*		1	<1	
Acacia sphaerostachya		2	<1	
Acacia stellaticeps		0.4	5	
Acacia tumida var. *pilbarensis*		2	7	

Afrohybanthus aurantiacus	0.3	<1
Afrohybanthus aurantiacus	0.2	<1
Arivela uncifera	0.2	<1
Bulbostylis barbata	0.1	<1
Duperreya commixta	1	<1
Eragrostis dielsii	0.1	<1
Eriachne pulchella subsp. *dominii*	0.1	<1
Evolvulus alsinoides var. *villosicalyx*	0.1	<1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Indigofera monophylla	0.3	<1
Isotropis atropurpurea	0.3	<1
Paspalidium rarum	0.2	<1
Polycarpaea holtzei	0.05	<1
Polycarpaea longiflora	0.1	<1
Ptilotus calostachyus	0.3	<1
Scaevola spinescens	0.3	<1
Solanum diversiflorum	0.2	<1
Triodia epactia	0.3	15
Triodia lanigera	0.2	25
Triodia secunda	0.2	<1

T2570

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705937 **mE** 7702564 **mN** **Lat.** -20.7653 **Long.** 118.9782

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 1 % cover ; 1-2 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia ancistrocarpa*,^*Acacia maitlandii*\^shrub\3\r;G ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	3	
Acacia maitlandii		1	2	
Acacia orthocarpa		2	<1	
Aristida contorta		0.15	<1	
Arivela uncifera		0.1	<1	

Bonamia erecta	0.2	<1
Bulbostylis barbata	0.2	<1
Corymbia hamersleyana	3	<1
Cucumis variabilis	0.2	<1
Eriachne pulchella subsp. *dominii*	0.1	<1
Euphorbia coghlanii	0.2	<1
Evolvulus alsinoides var. *villosicalyx*	0.2	<1
Grevillea wickhamii	0.4	<1
Hibiscus sturtii var. *campylochlamys*	0.1	<1
Indigofera monophylla	0.3	<1
Mitrasacme connata	0.3	<1
Panicum australiense var. *australiense*	0.1	<1
Paspalidium rarum	0.2	<1
Polygala galeocephala	0.2	<1
Ptilotus fusiformis	0.2	<1
Senna notabilis	0.1	<1
Stemodia grossa	0.1	<1
Trachymene oleracea subsp. *oleracea*	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	25
Triodia lanigera	0.3	7

T2571

Staff LC **Date** 7/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698137 **mE** 7710389 **mN** **Lat.** -20.6955 **Long.** 118.9024

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam clay

Rock Type Nil

Loose Rock 0 % cover **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** <1 % cover

Vegetation M+ ^*Acacia synchronicia*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Good

Disturbance Minor cattle trampling

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia synchronicia		2	<1	
Bulbostylis barbata		0.15	<1	
**Calotropis procera*		0.2	<1	1
Corchorus elachocarpus		0.3	<1	
Corchorus tridens		0.2	<1	
Dactyloctenium radulans		0.1	<1	

Eriachne pulchella subsp. *dominii*	0.1	<1
Euphorbia coghlanii	0.2	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*	0.15	<1
Portulaca oleracea	0.05	<1
Rhynchosia minima	0.05	<1
Senna artemisioides subsp. *oligophylla*	0.4	<1
Sida fibulifera	0.2	<1
Sporobolus australasicus	0.15	<1
Trianthema triquetrum	0.05	<1
Triodia epactia	0.3	<1

T2572

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 708702 **mE** 7702859 **mN** **Lat.** -20.7623 **Long.** 119.0047

Habitat Flat

Aspect W **Slope** Very Gentle

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia secunda*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Afrohybanthus aurantiacus		0.5	<1	
Fimbristylis dichotoma		0.2	<1	
Triodia epactia		0.5	<1	
Triodia secunda		0.3	45	

T2573

Staff SOK **Date** 27/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 708367 **mE** 7702928 **mN** **Lat.** -20.7618 **Long.** 119.0014

Habitat River

Aspect N/A **Slope** N/A

Soil Type Light yellow brown sand

Rock Type Mixed alluvial

Loose Rock 2-10 % cover; 6-20 mm in size **Litter** 2 % cover ; 0-5 cm in depth

Bare ground 80 % cover **Weeds** 5 % cover

Vegetation U+ ^*Eucalyptus camaldulensis* subsp. *refulgens*,^*Melaleuca argentea*\^tree\6\r;M ^*Acacia trachycarpa*,^*Acacia tumida* var. *pilbarensis*\^shrub\4\r;G ^*Triodia epactia*,^*Eulalia aurea*\^hummock grass,tussock grass\2\i

Veg. Condition Good

Disturbance Grazing, weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia trachycarpa		3	2	
Acacia tumida var. *pilbarensis*		2.5	1	
Afrohybanthus aurantiacus		0.3	<1	

Ammannia multiflora	0.2	<1
Arivela viscosa	0.4	<1
Blumea tenella	0.2	<1
Bulbostylis barbata	0.2	<1
Calandrinia tepperiana	0.1	<1
**Calotropis procera*	2.5	<1
**Cenchrus ciliaris*		5
**Cenchrus setiger*	0.5	<1
Chrysopogon fallax	0.8	<1
Corchorus incanus subsp. *incanus*	0.7	<1
Crotalaria cunninghamii	1.5	<1
Cymbopogon ambiguus	0.8	<1
Cyperus conicus	0.8	<1
Cyperus difformis	0.3	<1
Cyperus ixiocarpus	0.5	<1
Eragrostis cumingii	0.3	<1
Eragrostis speciosa	0.8	<1
Eragrostis tenellula	0.3	<1
Eriachne benthamii	0.8	<1
Eucalyptus camaldulensis subsp. *refulgens*	10	6
Eulalia aurea	0.8	5
Euphorbia australis var. *hispidula*	0.1	<1
Fimbristylis neilsonii	0.4	<1
Fuirena ciliaris	0.2	<1
Goodenia lamprosperma	0.2	<1
Grona filiformis	0.2	<1
Heteropogon contortus	0.7	<1
Hibiscus austrinus		<1
Indigofera hirsuta	0.5	<1
Melaleuca argentea	8	5
Pluchea rubelliflora	0.3	<1
Pterocaulon sphacelatum	0.3	<1
Rhynchosia minima	0.3	<1
Scleromitrion galioides	0.3	<1
Senna notabilis	0.3	<1
Sorghum plumosum var. *plumosum*	1.5	<1
Stemodia grossa		<1
Stemodia viscosa	0.4	<1

Tephrosia sp. B Kimberley Flora (C.A. Gardner 7300)	0.6	<1
Themeda triandra	0.6	<1
Tinospora smilacina	0.4	<1
Triodia epactia	0.5	10
Waltheria indica	0.3	<1
Whiteochloa airoides	0.8	<1

T2574

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705958 **mE** 7703655 **mN** **Lat.** -20.7555 **Long.** 118.9782

Habitat Flat

Aspect SE **Slope** Very Gentle

Soil Type Red sandy loam

Rock Type Quartz

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 70 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia orthocarpa*,^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G+ ^*Triodia epactia*,^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia maitlandii		1	<1	
Acacia orthocarpa		1.5	3	
Acacia tumida var. *pilbarensis*		1.2	1	
Afrohybanthus aurantiacus		0.3	<1	

Bonamia erecta	0.3	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Fimbristylis simulans	0.3	<1
Goodenia stobbsiana	0.3	<1
Grevillea wickhamii	0.5	<1
Hibiscus sturtii var. *campylochlamys*	0.1	<1
Indigofera monophylla	0.2	<1
Scaevola browniana subsp. *browniana*	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	<1
Triodia epactia	0.4	15
Triodia lanigera	0.2	5

T2575

Staff LC **Date** 6/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 702920 **mE** 7703532 **mN** **Lat.** -20.7569 **Long.** 118.9491

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 0 % cover ; 0-1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2	<1	
Corymbia hamersleyana		3	<1	
Indigofera monophylla		0.2	<1	
Triodia chichesterensis	P 3	0.2		

T2576

Staff SOK **Date** 29/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 709366 **mE** 7709087 **mN** **Lat.** -20.7060 **Long.** 119.0103

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy loam

Rock Type Nil

Loose Rock **Litter** 2 % cover ; 0-2 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M ^*Acacia bivenosa*\^shrub\3\bi;G+ ^^*Triodia epactia*,*Triodia lanigera*,*Triodia secunda*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		1.2	<1	
Acacia stellaticeps		0.4	<1	
Aristida contorta		0.3	<1	
Arivela uncifera		0.3	<1	
Bonamia linearis		0.1	<1	

Bulbostylis barbata	0.2	<1
Eriachne aristidea	0.2	<1
Eriachne obtusa	0.4	<1
Eriachne pulchella subsp. *dominii*	0.2	<1
Euphorbia coghlanii	0.3	<1
Fimbristylis dichotoma	0.3	<1
Gomphrena leptoclada subsp. *leptoclada*	0.2	<1
Goodenia microptera	0.3	<1
Indigofera monophylla	0.3	<1
Panicum australiense var. *australiense*	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.2	<1
Polycarpaea holtzei	0.1	<1
Portulaca oleracea	0.1	<1
Ptilotus astrolasius	0.4	<1
Ptilotus fusiformis	0.3	<1
Sporobolus australasicus	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trianthema triquetrum	0.1	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	15
Triodia lanigera	0.5	10
Triodia secunda	0.3	5

T2577

Staff SOK **Date** 29/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 707440 **mE** 7707829 **mN** **Lat.** -20.7176 **Long.** 118.9920

Habitat Flat

Aspect NW **Slope** Very Gentle

Soil Type Red sand

Rock Type Quartz

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	5	
Acacia maitlandii		0.6	<1	
Acacia orthocarpa		1.5	<1	
Afrohybanthus aurantiacus		0.4	<1	
Bonamia erecta		0.3	<1	

Bonamia linearis	0.2	<1
Corymbia hamersleyana	4	1
Eriachne pulchella subsp. *dominii*	0.2	<1
Goodenia stobbsiana	0.4	<1
Grevillea pyramidalis subsp. *leucadendron*	1	<1
Indigofera monophylla	0.4	<1
Ptilotus astrolasius	0.4	<1
Ptilotus calostachyus	0.6	<1
Ptilotus fusiformis	0.4	<1
Scaevola browniana subsp. *browniana*	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Triodia epactia	0.5	1
Triodia lanigera	0.4	30

T2578

Staff SOK **Date** 29/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 708706 **mE** 7707615 **mN** **Lat.** -20.7194 **Long.** 119.0041

Habitat Flat

Aspect E **Slope** Very Gentle

Soil Type Light red brown sandy loam

Rock Type Quartz

Loose Rock 20-50 % cover; 6-20 mm in size **Litter** 1 % cover ; 0-1 cm in depth

Bare ground 75 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia ancistrocarpa*\^shrub\3\bi;G+ ^*Triodia chichesterensis*,^*Triodia lanigera*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia stellaticeps		0.3	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida contorta		0.2	<1	
Bonamia erecta		0.3	<1	

Bonamia pilbarensis (atypical form)		0.1	<1	
Bulbostylis barbata		0.2	<1	
Cassytha capillaris		0.2	<1	
Corchorus elachocarpus		0.3	<1	
Corymbia hamersleyana		4	1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Euploca mutica	P 3	0.2	<1	5
Euploca pachyphylla		0.3	<1	
Fimbristylis dichotoma		0.3	<1	
Goodenia stobbsiana		0.1	<1	
Indigofera monophylla		0.3	<1	
Panicum australiense var. *australiense*		0.2	<1	
Ptilotus astrolasius		0.3	<1	
Ptilotus axillaris		0.1	<1	
Senna artemisioides subsp. *oligophylla*		0.5	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Trianthema triquetrum		0.1	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia chichesterensis	P 3	0.4	20	200
Triodia epactia		0.2	<1	
Triodia lanigera		0.5	5	

T2579

Staff SOK **Date** 29/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 707184 **mE** 7706252 **mN** **Lat.** -20.7319 **Long.** 118.9897

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 5 % cover ; 0-3 cm in depth

Bare ground 50 % cover **Weeds** <1 % cover

Vegetation U+ ^*Corymbia hamersleyana*,^*Corymbia flavescens*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*, ^*Cullen leucanthum*\^shrub\4\i;G ^*Triodia epactia*,^*Chrysopogon fallax*\^hummock grass,tussock grass\1\c

Veg. Condition Very Good

Disturbance Grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		3	<1	
Acacia tumida var. *pilbarensis*		3	5	
Buchnera linearis		0.5	<1	
**Cenchrus ciliaris*		0.5	<1	

Chloris pumilio		0.4	<1	
Chrysopogon fallax		0.5	5	
Corchorus incanus subsp. *incanus*		0.9	<1	
Corymbia flavescens		5	1	
Corymbia hamersleyana		6	1	
Crotalaria ramosissima		0.3	<1	
Cullen leucanthum		2	3	
Cyperus blakeanus		0.4	<1	
Digitaria ctenantha		0.4	<1	
Eragrostis cumingii		0.3	<1	
Eriachne obtusa		0.3	<1	
Euphorbia biconvexa		0.3	<1	
Evolvulus alsinoides var. *decumbens*		0.3	<1	
Fimbristylis dichotoma		0.3	<1	
Gomphrena leptoclada subsp. *leptoclada*		0.2	<1	
Gomphrena sordida		0.2	<1	
Goodenia lamprosperma		0.3	<1	
Grona filiformis		0.2	<1	
Gymnanthera cunninghamii	P 3	0.8	<1	1
Hibiscus austrinus		0.4	<1	
Indigofera colutea		0.3	<1	
Indigofera linifolia		0.3	<1	
Ipomoea coptica		0.2	<1	
Panicum australiense var. *australiense*		0.3	<1	
Perotis rara		0.2	<1	
Pluchea ferdinandi-muelleri		0.4	<1	
Pterocaulon sphacelatum		0.2	<1	
Schizachyrium fragile		0.3	<1	
Senna notabilis		0.2	<1	
Setaria surgens		0.5	<1	
Sida clementii			<1	
Sida rohlenae subsp. *rohlenae*		0.4	<1	
Stemodia grossa		0.4	<1	
Triodia epactia		0.5	20	
Waltheria indica		0.4	<1	
Zornia muelleriana subsp. *congesta*		0.1	<1	

T2580

Staff LC **Date** 9/04/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699218 **mE** 7709902 **mN** **Lat.** -20.6998 **Long.** 118.9128

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange loam

Rock Type Mixed

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** <1 % cover ; <1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation M+ ^^*Acacia bivenosa*,*Acacia ancistrocarpa*,*Acacia inaequilatera*\^shrub\3\i;G ^*Triodia epactia*, ^*Triodia chichesterensis*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	5	
Acacia bivenosa		2	5	
Acacia inaequilatera		2	3	
Acacia stellaticeps		0.4	<1	
Acacia tumida var. *pilbarensis*		1	<1	

Bulbostylis barbata		0.1	<1
Eragrostis cumingii		0.1	<1
Eriachne pulchella subsp. *dominii*		0.1	<1
Euploca cunninghamii		0.1	<1
Indigofera monophylla		0.4	<1
Isotropis atropurpurea		0.3	<1
Polycarpaea holtzei		0.05	<1
Portulaca oleracea		0.05	<1
Ptilotus calostachyus		0.4	<1
Scaevola browniana subsp. *browniana*		0.1	<1
Senna glutinosa subsp. *glutinosa*		1.5	<1
Senna notabilis		0.2	<1
Solanum diversiflorum		0.2	<1
Sporobolus australasicus		0.3	<1
Trachymene oleracea subsp. *oleracea*		0.2	<1
Trianthema triquetrum		0.05	<1
Tribulus hirsutus		0.1	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.3	15
Triodia epactia			30

T2581

Staff ECM **Date** 26/05/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700073 **mE** 7709913 **mN** **Lat.** -20.6996 **Long.** 118.9210

Habitat Flat

Aspect N **Slope** Very Gentle

Soil Type Red sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 6-20 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M+ ^^*Acacia ancistrocarpa*,*Acacia orthocarpa*,*Acacia inaequilatera*\^shrub\4\i;G ^*Triodia lanigera*,^*Triodia epactia*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	5	
Acacia inaequilatera		3	2	
Acacia orthocarpa		3	5	
Afrohybanthus aurantiacus		0.2	<1	
Arivela uncifera		0.3	<1	

Arivela viscosa		0.5	<1	
Bonamia alatisemina		0.2	<1	
Bonamia erecta		0.2	<1	
Bonamia pannosa		0.2	<1	
Bulbostylis barbata		0.1	<1	
Corchorus elachocarpus		0.3	<1	
Corymbia hamersleyana		3	<1	
Eriachne ciliata		0.1	<1	
Euphorbia australis var. *subtomentosa*		0.1	<1	
Euploca mutica	P 3	0.1	<1	4
Evolvulus alsinoides var. *villosicalyx*		0.15	<1	
Fimbristylis dichotoma		0.3	<1	
Goodenia microptera		0.4	<1	
Goodenia sp.		0.05	<1	
Indigofera monophylla		0.2	<1	
Isotropis atropurpurea		0.5	<1	
Panicum australiense var. *australiense*		0.3	<1	
Polycarpaea corymbosa var. *corymbosa*		0.3	<1	
Polycarpaea holtzei		0.05	<1	
Polygala glaucifolia		0.05	<1	
Ptilotus fusiformis		0.3	<1	
Scaevola browniana subsp. *browniana*		0.3	<1	
Schizachyrium fragile		0.4	<1	
Senna notabilis		0.1	<1	
Solanum diversiflorum		0.3	<1	
Synaptantha tillaeacea var. *tillaeacea*		0.05	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Trachymene oleracea subsp. *oleracea*		0.3	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia epactia		0.4	20	
Triodia lanigera		0.5	45	

T2582

Staff ECM **Date** 26/05/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 700694 **mE** 7709683 **mN** **Lat.** -20.7016 **Long.** 118.9270

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sandy clay

Rock Type Quartz

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 30 % cover **Weeds** 0 % cover

Vegetation M+ ^^*Acacia orthocarpa*,*Acacia ancistrocarpa*,*Acacia bivenosa*\^shrub\4\i;G ^*Triodia lanigera*\^hummock grass\1\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		2	4	
Acacia bivenosa		2	3	
Acacia inaequilatera		1.8	<1	
Acacia orthocarpa		2.5	4	
Acacia stellaticeps		0.7	<1	

Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.3	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Bulbostylis barbata		0.1	<1	
Eriachne pulchella subsp. *pulchella*		0.1	<1	
Indigofera monophylla		0.5	<1	
Polycarpaea corymbosa var. *corymbosa*		0.3	<1	
Polycarpaea holtzei		0.05	<1	
Ptilotus fusiformis		0.3	<1	
Scaevola browniana subsp. *browniana*		0.2	<1	
Senna glutinosa subsp. *glutinosa*		1	<1	
Senna notabilis		0.2	<1	
Solanum diversiflorum		0.15	<1	
Sporobolus australasicus		0.2	<1	
Trigastrotheca molluginea		0.15	<1	
Triodia chichesterensis	P 3	0.2	2	50
Triodia epactia		0.3	1	
Triodia lanigera		0.4	50	

T2583

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 705208 **mE** 7715242 **mN** **Lat.** -20.6509 **Long.** 118.9697

Habitat Crest

Aspect SE **Slope** Moderate

Soil Type Light brown clay loam

Rock Type Quartz

Loose Rock 20-50 % cover; 60-200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\4\bi;G ^^*Triodia lanigera*,*Triodia epactia*,*Acacia spondylophylla*\^hummock grass,shrub\1\c

Veg. Condition Very Good

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.15	<1	
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		2	1	
Acacia orthocarpa		1	<1	
Acacia sericophylla		1.3	<1	

Acacia spondylophylla	0.3	15
Afrohybanthus aurantiacus	0.3	<1
Bulbostylis barbata	0.15	<1
Corymbia hamersleyana	0.5	1.2
Dampiera candicans	0.4	<1
Eriachne ciliata	0.2	<1
Hibiscus sturtii var. *campylochlamys*	0.2	<1
Indigofera monophylla	0.2	<1
Leptosema anomalum	0.3	<1
Neurachne muelleri	0.3	<1
Polycarpaea holtzei	0.05	<1
Ptilotus calostachyus	0.4	<1
Senna glutinosa subsp. *glutinosa*	1.2	<1
Senna glutinosa subsp. *pruinosa*	1.2	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Sporobolus australasicus	0.1	<1
Trianthema triquetrum	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	20
Triodia lanigera	0.3	30

T2584

Staff SOK **Date** 31/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709625 **mE** 7706319 **mN** **Lat.** -20.7310 **Long.** 119.0131

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia schinzii*,^*Acacia stellaticeps*\^hummock grass,shrub\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.1	<1	
Acacia stellaticeps		0.5	3	
Acacia tumida var. *pilbarensis*		3	<1	
Arivela uncifera		0.3	<1	
Byblis pilbarana		0.1	<1	
Chrysopogon fallax		0.3	<1	

Eriachne obtusa	0.4	<1
Fimbristylis neilsonii	0.3	<1
Panicum australiense var. *australiense*	0.2	<1
Pluchea ferdinandi-muelleri	0.5	<1
Stackhousia muricata subsp. *annual (W.R. Barker 2172)*	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia schinzii	0.5	60

T2585

Staff SOK **Date** 31/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 709412 **mE** 7711066 **mN** **Lat.** -20.6882 **Long.** 119.0105

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation U ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia tumida* var. *pilbarensis*\^shrub\3\r;G+ ^*Triodia schinzii*,^*Acacia stellaticeps*\^hummock grass,shrub\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia inaequilatera		1.5	<1	
Acacia stellaticeps		0.6	4	
Acacia tumida var. *pilbarensis*		2	4	
Acacia tumida x ?		2	<1	

Afrohybanthus aurantiacus	0.4	<1
Aristida holathera var. *holathera*	0.3	<1
Arivela uncifera	0.4	<1
Bonamia erecta	0.4	<1
Bonamia linearis	0.1	<1
Bulbostylis barbata	0.2	<1
Chrysopogon fallax	0.3	<1
Corymbia hamersleyana	5	1
Hibiscus sturtii var. *campylochlamys*	0.3	<1
Indigofera monophylla	0.3	<1
Panicum australiense var. *australiense*	0.2	<1
Polycarpaea corymbosa var. *corymbosa*	0.2	<1
Polygala galeocephala	0.1	<1
Ptilotus fusiformis	0.4	<1
Rhynchosia minima	0.4	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.4	<1
Triodia lanigera	0.4	<1
Triodia schinzii	0.8	50

T2586

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 708198 **mE** 7717529 **mN** **Lat.** -20.6299 **Long.** 118.9981

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red sand

Rock Type Nil

Loose Rock 0 % cover **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation M ^*Grevillea wickhamii*\^shrub\3\bi;G+ ^*Triodia schinzii*,^*Triodia lanigera*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.3	<1	
Acacia ancistrocarpa		0.9	<1	
Acacia stellaticeps		0.5	<1	
Acacia tumida var. *pilbarensis*		2	<1	
Afrohybanthus aurantiacus		0.3	<1	
Arivela uncifera		0.3	<1	

Bonamia erecta	0.3	<1
Bulbostylis barbata	0.2	<1
Chrysopogon fallax	0.3	<1
Corymbia hamersleyana	3	<1
Dampiera candicans	0.5	<1
Eriachne obtusa	0.4	<1
Grevillea wickhamii	2	1
Indigofera monophylla	9	<1
Panicum australiense var. *australiense*	0.1	<1
Polycarpaea corymbosa var. *corymbosa*	0.2	<1
Polygala galeocephala		<1
Polymeria ambigua	0.1	<1
Polymeria sp.	0.1	<1
Ptilotus astrolasius	0.3	<1
Ptilotus fusiformis	0.1	<1
Stackhousia muricata subsp. *annual (W.R. Barker 2172)*	0.2	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.5	<1
Triodia lanigera	0.6	5
Triodia schinzii	0.8	30

T2587

Staff SOK **Date** 28/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location

MGA Zone 50 702289 **mE** 7715771 **mN** **Lat.** -20.6465 **Long.** 118.9416

Habitat Crest

Aspect W **Slope** Steep

Soil Type Red brown sandy loam

Rock Type Quartzite

Loose Rock 10-20 % cover; 200 mm in size **Litter** 4 % cover ; 0-2 cm in depth

Bare ground 70 % cover **Weeds** 10 % cover

Vegetation M+ ^*Atalaya hemiglauca*,^*Ehretia saligna* var. *saligna*\^shrub\4\r;G ^*Triodia epactia*,^*Cenchrus ciliaris*\^hummock grass,tussock grass\1\i

Veg. Condition Good

Disturbance Weeds, grazing

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1.5	<1	
Acacia pyrifolia var. *pyrifolia*		1.8	<1	
Acacia synchronicia		3	<1	
**Aerva javanica*		0.5	<1	
Afrohybanthus aurantiacus		0.3	<1	

Arivela viscosa		0.4	<1
Atalaya hemiglauca		4	3
Bulbostylis burbidgeae	P 4	0.1	<1
Capparis spinosa subsp. *nummularia*		0.5	<1
Carissa lanceolata		1.5	<1
**Cenchrus ciliaris*		0.4	10
Clerodendrum floribundum		1.5	<1
Corymbia hamersleyana		4	<1
Cucumis variabilis		0.5	<1
Cymbopogon ambiguus		0.5	<1
Cyperus cunninghamii subsp. *cunninghamii*		0.3	<1
Ehretia saligna var. *saligna*		3	1
Eriachne mucronata		0.3	2
Evolvulus alsinoides var. *villosicalyx*		0.3	<1
Ficus aculeata var. *indecora*		1.5	<1
Ficus brachypoda		4	<1
Gomphrena cunninghamii		0.2	<1
Indigofera trita		0.3	<1
Jasminum didymum subsp. *lineare*		1	<1
Operculina aequisepala		0.3	<1
Polycarpaea longiflora		0.4	<1
Triodia epactia		0.4	15
Triumfetta maconochieana		0.5	<1

T2588

Staff SOK **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 696943 **mE** 7712095 **mN** **Lat.** -20.6802 **Long.** 118.8907

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sand

Rock Type Quartz

Loose Rock 10-20 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia orthocarpa*\^shrub\3\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	6	
Acacia stellaticeps		0.4	<1	
Aristida holathera var. *holathera*		0.4	<1	
Arivela uncifera		0.3	<1	
Bonamia linearis		0.1	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	

Corchorus parviflorus		0.4	<1	
Corymbia hamersleyana		0.8	<1	
Eriachne obtusa		0.3	<1	
Eriachne pulchella subsp. *dominii*		0.2	<1	
Goodenia microptera		0.3	<1	
Hibiscus sturtii var. *platychlamys*		0.3	<1	
Indigofera linifolia		0.3	<1	
Indigofera monophylla		0.4	<1	
Panicum australiense var. *australiense*		0.2	<1	
Pluchea tetranthera		0.4	<1	
Polycarpaea holtzei		0.1	<1	
Portulaca oleracea		0.1	<1	
Ptilotus auriculifolius		0.3	<1	
Ptilotus axillaris		0.2	<1	
Ptilotus fusiformis		0.4	<1	
Senna notabilis		0.2	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.4	<1	
Solanum diversiflorum		0.3	<1	
Sporobolus actinocladus		0.3	<1	
Sporobolus australasicus		0.2	<1	
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)		0.3	<1	
Trianthema triquetrum		0.1	<1	
Tribulus hirsutus		0.1	<1	
Tribulus platypterus		0.5	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia chichesterensis	P 3	0.3	<1	30
Triodia epactia		0.4	25	
Triodia secunda		0.3	<1	
Triumfetta appendiculata		0.4	<1	

T2589

Staff SOK **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 697018 **mE** 7711630 **mN** **Lat.** -20.6844 **Long.** 118.8915

Habitat Upper-Slope

Aspect NW **Slope** Moderate

Soil Type Red brown loamy sand

Rock Type Granite

Loose Rock 10-20 % cover; 600 mm in size **Litter** 2 % cover ; 0-2 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Terminalia circumalata*\^shrub\4\r;G ^*Triodia epactia*\^hummock grass\1\i

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon fraseri		0.3	<1	
Abutilon lepidum		0.5	<1	
Acacia tumida var. *pilbarensis*		3	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida holathera var. *holathera*		0.3	<1	
Arivela viscosa		0.3	<1	

Bulbostylis barbata		0.1	<1	
Bulbostylis burbidgeae	P 4	0.2	<1	20
Cajanus cinereus		0.8	<1	
Cheilanthes brownii		0.1	<1	
Commelina ensifolia		0.2	<1	
Corchorus parviflorus		0.5	<1	
Cymbopogon ambiguus		0.8	<1	
Ehretia saligna var. *saligna*		3	<1	
Eriachne aristidea		0.2	<1	
Eriachne ciliata		0.3	<1	
Euphorbia coghlanii		0.3	<1	
Fimbristylis dichotoma		0.3	<1	
Flueggea virosa subsp. *melanthesoides*		2	<1	
Gomphrena leptoclada subsp. *leptoclada*		0.3	<1	
Gonocarpus ephemerus		0.3	<1	
Jasminum didymum subsp. *lineare*		1	<1	
Nicotiana umbratica	P 3	0.3	<1	1
Paspalidium clementii		0.2	<1	
Paspalidium tabulatum		0.4	<1	
Perotis rara		0.2	<1	
Polycarpaea longiflora		0.4	<1	
Rhynchosia minima		0.2	<1	
Senna venusta		0.9	<1	
Solanum aff. *gabrielae*		0.3	<1	
Sporobolus australasicus		0.2	<1	
Stemodia viscosa		0.3	<1	
Terminalia circumalata		4	8	
Tinospora smilacina		1	<1	
Trachymene oleracea subsp. *oleracea*		0.4	<1	
Trianthema triquetrum		0.1	<1	
Triodia epactia		0.4	20	
Triumfetta maconochieana		0.5	<1	

T2590

Staff SOK **Date** 31/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 707437 **mE** 7709931 **mN** **Lat.** -20.6986 **Long.** 118.9917

Habitat Flat

Aspect S **Slope** Very Gentle

Soil Type Light red brown sandy loam

Rock Type Calcrete

Loose Rock 50-90 % cover; 20-60 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\r;G ^*Triodia chichesterensis*\^hummock grass\2\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia bivenosa		0.3	<1	
Acacia colei		1	<1	
Acacia stellaticeps		0.4	<1	
Afrohybanthus aurantiacus		0.3	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	
Corymbia hamersleyana		5	5	

Euploca pachyphylla		0.3	<1	
Goodenia stobbsiana		0.2	<1	
Hakea lorea subsp. *lorea*		2	<1	
Hibiscus sturtii var. *campylochlamys*		0.3	<1	
Polygala glaucifolia		0.1	<1	
Ptilotus astrolasius		0.4	<1	
Ptilotus clementii		0.3	<1	
Scaevola amblyanthera var. *centralis*		0.4	<1	
Scaevola browniana subsp. *browniana*		0.4	<1	
Senna artemisioides subsp. *oligophylla* x *helmsii*		1	<1	
Triodia chichesterensis	P 3	0.2	30	300

T2591

Staff SOK **Date** 31/05/2025 **Season** A

Revisit

Type Q 100 m x 25 m

Location Strelley River East

MGA Zone 50 709846 **mE** 7706092 **mN** **Lat.** -20.7330 **Long.** 119.0153

Habitat Creek

Aspect N/A **Slope** N/A

Soil Type Light orange sand

Rock Type Mixed alluvial

Loose Rock 2-10 % cover; 2-6 mm in size **Litter** 4 % cover ; 0-7 cm in depth

Bare ground 80 % cover **Weeds** 1 % cover

Vegetation U+ ^*Melaleuca argentea*,^*Eucalyptus camaldulensis* subsp. *refulgens*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*,^*Acacia trachycarpa*\^shrub\4\r;G ^*Triodia epactia*,^*Eulalia aurea*\^hummock grass,tussock grass\2\i

Veg. Condition Very Good

Disturbance Grazing, weeds

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		1	<1	
Acacia trachycarpa		3	2	
Acacia tumida var. *pilbarensis*		3	7	
Afrohybanthus aurantiacus		0.3	<1	

Ammannia multiflora	0.3	<1	
Aristida holathera var. *holathera*	0.4	<1	
Arivela viscosa	0.3	<1	
Buchnera linearis	0.3	<1	
Bulbostylis barbata	0.1	<1	
Calandrinia tepperiana	0.2	<1	
**Calotropis procera*	2	<1	3
**Cenchrus ciliaris*	0.5	1	
**Cenchrus setiger*	0.5	<1	
Chrysopogon fallax	0.7	<1	
Corchorus incanus subsp. *incanus*	0.8	<1	
Crotalaria cunninghamii	1	<1	
Cyperus conicus	0.5	<1	
Cyperus ixiocarpus	0.3	<1	
Eragrostis cumingii	0.2	<1	
Eragrostis tenellula	0.3	<1	
Eriachne benthamii	0.6	<1	
Eucalyptus camaldulensis subsp. *refulgens*	9	4	
Eulalia aurea	0.8	3	
Euphorbia australis var. *hispidula*	0.1	<1	
Euphorbia biconvexa	0.3	<1	
**Euphorbia hirta*	0.1	<1	
Evolvulus alsinoides var. *decumbens*	0.2	<1	
Fuirena ciliaris	0.2	<1	
Goodenia lamprosperma	0.4	<1	
Grevillea wickhamii	2	<1	
Hibiscus austrinus	1	<1	
Ipomoea coptica	0.3	<1	
Melaleuca argentea	8	5	
Melaleuca glomerata	1	<1	
Ptilotus fusiformis	0.4	<1	
Rhynchosia minima	0.3	<1	
Scleromitrion galioides	0.3	<1	
Senna notabilis	0.3	<1	
Setaria surgens	0.5	<1	
Sida rohlenae subsp. *rohlenae*	0.4	<1	
Sorghum plumosum var. *plumosum*	1.5	<1	
Stemodia grossa	0.4	<1	

Stemodia viscosa	0.4	<1
Themeda triandra	1	<1
Triodia epactia	0.5	10
Triumfetta appendiculata	0.5	<1
Vigna lanceolata var. *lanceolata*	0.1	<1
Waltheria indica	0.4	<1

T2592

Staff SOK **Date** 31/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704747 **mE** 7703002 **mN** **Lat.** -20.7615 **Long.** 118.9667

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Orange brown sandy loam

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 2 % cover ; 0-1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia secunda*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Sporobolus australasicus		0.3	<1	
Trianthema triquetrum		0.1	<1	
Triodia epactia		0.4	<1	
Triodia secunda		0.3	50	

T2593

Staff ECM **Date** 27/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 698387 **mE** 7704351 **mN** **Lat.** -20.7500 **Long.** 118.9055

Habitat Outcrop*

Aspect S **Slope** N/A

Soil Type Orange sand

Rock Type Granite

Loose Rock 2-10 % cover; >2000 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 80 % cover **Weeds** <1 % cover

Vegetation U+ ^*Terminalia circumalata*\^tree\6\r;M ^*Acacia tumida* var. *pilbarensis*,^*Ehretia saligna*\^shrub, i\3\r;G ^*Triodia epactia*\^hummock grass\1\r

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abutilon sp. Dioicum (A.A. Mitchell PRP 1618)		0.3	<1	
Acacia ancistrocarpa		2	<1	
Acacia inaequilatera		3	<1	
Acacia tumida var. *pilbarensis*		4	4	
Aristida contorta		0.2	<1	

Arivela viscosa		0.5	<1	
Boerhavia coccinea		0.25	<1	
Bulbostylis barbata		0.1	<1	
Bulbostylis burbidgeae	P 4	0.05	<1	20
**Cenchrus ciliaris*		0.3	<1	
Corchorus parviflorus		0.4	<1	
Cymbopogon ambiguus		0.5	<1	
Cynanchum floribundum		0.2	<1	
Cyperus cunninghamii subsp. *cunninghamii*		0.4	<1	
Digitaria ctenantha		0.25	<1	
Ehretia saligna var. *saligna*		3	1	
Enneapogon lindleyanus		0.4	<1	
Eriachne ciliata		0.15	<1	
Eriachne mucronata		0.3	<1	
Euphorbia australis var. *subtomentosa*		0.1	<1	
Euploca cunninghamii		0.2	<1	
Evolvulus alsinoides var. *villosicalyx*		0.2	<1	
Fimbristylis dichotoma		0.1	<1	
Flueggea virosa subsp. *melanthesoides*		0.5	<1	
Gomphrena cunninghamii		0.1	<1	
Indigofera colutea		0.1	<1	
Panicum australiense var. *australiense*		0.2	<1	
Paspalidium tabulatum		0.15	<1	
Perotis rara		0.05	<1	
Polycarpaea corymbosa var. *corymbosa*		0.05	<1	
Polycarpaea longiflora		0.3	<1	
Portulaca oleracea		0.1	<1	
Sida sp. Pilbara (A.A. Mitchell PRP 1543)		0.5	<1	
Terminalia circumalata		5	2	
Tinospora smilacina		0.3	<1	
Trigastrotheca molluginea		0.1	<1	
Triodia epactia		0.3	5	
Triumfetta maconochieana		1	<1	

T2594

Staff ECM **Date** 31/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 699014 **mE** 7703727 **mN** **Lat.** -20.7556 **Long.** 118.9115

Habitat Outcrop*

Aspect W **Slope** Moderate

Soil Type Red brown clay loam

Rock Type Basalt (scissoring dykes)

Loose Rock 20-50 % cover; 200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 40 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;1c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia ancistrocarpa		1	<1	
Acacia pyrifolia var. *pyrifolia*		2	<1	
Acacia tumida var. *pilbarensis*		1	<1	
Arivela viscosa		0.4	<1	
Cajanus cinereus		0.4	<1	
Corchorus parviflorus		0.3	<1	

Corymbia hamersleyana	7	1
Ptilotus obovatus	0.4	<1
Rhynchosia minima	0.3	<1
Terminalia circumalata	1	<1
Tinospora smilacina	0.4	<1
Tribulus platypterus	0.2	<1
Triodia epactia	0.3	35

T2595

Staff ECM **Date** 1/06/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 695322 **mE** 7709745 **mN** **Lat.** -20.7016 **Long.** 118.8754

Habitat Flat

Aspect N/A **Slope** N/A

Soil Type Red brown sandy clay

Rock Type Quartz

Loose Rock <2 % cover; 2-6 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 50 % cover **Weeds** 0 % cover

Vegetation M+ ^*Acacia inaequilatera*\^shrub\4\r;G ^^*Triodia epactia*,*Sida clementii*,*Corchorus parviflorus*\^hummock grass,shrub\2\c

Veg. Condition Very Good

Disturbance Minor cattle

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia colei		0.5	<1	
Acacia inaequilatera		2.5	4	
Aristida holathera var. *holathera*		0.3	<1	
Arivela viscosa		0.4	<1	
Boerhavia coccinea		0.3	<1	

Bonamia pannosa	0.15	<1
Bulbostylis barbata	0.1	<1
Corchorus parviflorus	0.6	3
Crotalaria ramosissima	0.2	<1
Cullen martinii	0.2	<1
Eragrostis eriopoda	0.3	<1
Hibiscus leptocladus	0.3	<1
Indigofera colutea	0.15	<1
Indigofera linnaei	0.3	<1
Perotis rara	0.1	<1
Polymeria ambigua	0.15	<1
Senna notabilis	0.3	<1
Sida clementii	0.8	3
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.4	<1
Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	<1
Tephrosia supina	0.15	<1
Trianthema pilosum	0.1	1
Triodia epactia	0.5	45
Triumfetta appendiculata	0.5	<1

T2596

Staff ECM **Date** 30/05/2025 **Season** A

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 704696 **mE** 7714522 **mN** **Lat.** -20.6575 **Long.** 118.9648

Habitat Crest

Aspect NW **Slope** Moderate

Soil Type Light red brown clay loam

Rock Type Quartz

Loose Rock 20-50 % cover; 20-60 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 45 % cover **Weeds** 0 % cover

Vegetation U+ ^*Corymbia hamersleyana*\^tree\6\bi;M ^*Acacia orthocarpa*,^*Acacia ancistrocarpa*\^shrub\3\r;G ^*Triodia lanigera*,^*Acacia stellaticeps*\^hummock grass,shrub\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age 2-5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Abildgaardia oxystachya		0.15	<1	
Acacia ancistrocarpa		1	1	
Acacia orthocarpa		1.2	1	
Acacia stellaticeps		0.3	5	
Acacia tumida var. *pilbarensis*		1	1	

Afrohybanthus aurantiacus	0.4	<1
Aristida contorta	0.1	<1
Aristida holathera var. *holathera*	0.4	<1
Bonamia alatisemina	0.05	<1
Bonamia erecta	0.4	<1
Corymbia hamersleyana	3	2
Dampiera candicans	0.3	<1
Eriachne ciliata	0.2	<1
Eriachne mucronata	0.3	<1
Eriachne pulchella subsp. *pulchella*	0.1	<1
Euploca tenuifolia	0.2	<1
Fimbristylis dichotoma	0.2	<1
Goodenia stobbsiana	0.25	<1
Indigofera monophylla	0.3	<1
Polycarpaea holtzei	0.05	<1
Polygala glaucifolia	0.02	<1
Portulaca oleracea	0.1	<1
Ptilotus calostachyus	1	<1
Ptilotus fusiformis	0.2	<1
Senna glutinosa subsp. *glutinosa*	1.2	<1
Sida sp. Pilbara (A.A. Mitchell PRP 1543)	0.2	<1
Trigastrotheca molluginea	0.1	<1
Triodia epactia	0.2	<1
Triodia lanigera	0.2	40

T2597

Staff ECM **Date** 31/05/2025 **Season** A

Revisit

Type Q 200 m x 12.5 m

Location

MGA Zone 50 695815 **mE** 7707693 **mN** **Lat.** -20.7201 **Long.** 118.8804

Habitat Crest

Aspect SW **Slope** Moderate

Soil Type Dark brown clay loam

Rock Type Granite (high biotite/amphibole), quartz

Loose Rock 50-90 % cover; 60-200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 55 % cover **Weeds** 0 % cover

Vegetation 6bi+ 3biG ^^,*Triodia wiseana*,*Triodia epactia*\^,hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia orthocarpa		2	1	
Acacia pyrifolia var. *pyrifolia*		0.8	<1	
Afrohybanthus aurantiacus		0.3	<1	
Aristida contorta		0.2	<1	
Arivela viscosa		0.7	<1	
Bonamia pilbarensis (atypical form)		0.1	<1	

Bulbostylis barbata		0.1	<1
Cassytha capillaris		0.3	1
Corchorus parviflorus		0.4	<1
Corymbia hamersleyana		2	<1
Cymbopogon ambiguus		0.9	<1
Dolichocarpa crouchiana		0.1	<1
Enneapogon caerulescens		0.15	<1
Enneapogon lindleyanus		0.4	<1
Eriachne ciliata		0.2	<1
Eriachne pulchella subsp. *pulchella*		0.1	<1
Euphorbia australis var. *subtomentosa*		0.2	<1
Euphorbia trigonosperma		0.5	<1
Evolvulus alsinoides var. *villosicalyx*		0.15	<1
Fimbristylis dichotoma		0.15	<1
Gomphrena cunninghamii		0.15	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.4	<1
Polycarpaea longiflora		0.2	<1
Polygala glaucifolia		0.03	<1
Ptilotus auriculifolius		0.4	<1
Ptilotus axillaris		0.1	<1
Ptilotus calostachyus		0.6	<1
Rhynchosia minima		0.1	<1
Senna glutinosa subsp. *glutinosa*		1.7	<1
Senna notabilis		0.2	<1
Tephrosia clementii		0.2	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.2	<1
Triodia chichesterensis	P 3	0.3	40
Triodia epactia		0.3	1
Triodia wiseana		0.3	5
Triumfetta clementii		0.3	<1

T2598

Staff ECM **Date** 31/05/2025 **Season** A

Revisit

Type Q 200 m x 12.5 m

Location

MGA Zone 50 696318 **mE** 7708073 **mN** **Lat.** -20.7166 **Long.** 118.8852

Habitat Crest

Aspect NW **Slope** Moderate

Soil Type Brown clay loam

Rock Type Granite (high biotite/amphibole), quartz

Loose Rock 50-90 % cover; 60-200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 65 % cover **Weeds** 0 % cover

Vegetation G+ ^*Triodia epactia*,^*Triodia chichesterensis*,*Triodia wiseana*\^*temp*,hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia maitlandii		0.1	<1	
Acacia orthocarpa		2	<1	
Acacia pyrifolia var. *pyrifolia*		1.2	<1	
Aristida contorta		0.15	<1	
Arivela viscosa		0.2	<1	
Boerhavia coccinea		0.4	<1	

Bonamia pilbarensis		0.03	<1
Bonamia pilbarensis (atypical form)		0.02	<1
Bulbostylis barbata		0.1	<1
Cassytha capillaris		0.3	<1
Corchorus parviflorus		0.2	<1
Cymbopogon ambiguus		0.8	<1
Dolichocarpa crouchiana		0.02	<1
Enneapogon caerulescens		0.1	<1
Eriachne ciliata		0.2	<1
Eriachne mucronata		0,4	<1
Eriachne pulchella subsp. *pulchella*		0.1	<1
Euphorbia australis var. *subtomentosa*		0.15	<1
Euphorbia vaccaria var. *vaccaria*		0.05	<1
Evolvulus alsinoides var. *villosicalyx*		0.1	<1
Fimbristylis dichotoma		0.15	<1
Gomphrena cunninghamii		0.05	<1
Goodenia microptera		0.3	<1
Iseilema eremaeum		0.1	<1
Notoleptopus decaisnei var. *orbicularis (A.B. Craig 428)*		0.3	<1
Polycarpaea corymbosa var. *corymbosa*		0.1	<1
Polycarpaea holtzei		0.05	<1
Polycarpaea holtzei		0.03	<1
Polygala glaucifolia		0.03	<1
Portulaca oleracea		0.1	<1
Ptilotus auriculifolius		0.6	<1
Schizachyrium fragile		0.2	<1
Senna notabilis		0.2	<1
Sporobolus australasicus		0.15	<1
Streptoglossa decurrens		0.5	<1
Tephrosia clementii		0.02	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.02	<1
Tribulus hirsutus		0.05	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.2	10
Triodia epactia		0.3	25
Triodia wiseana		0.3	5
Triumfetta clementii		0.4	<1

T2599

Staff ECM **Date** 31/05/2025 **Season**

Revisit

Type Q 50 m x 50 m

Location

MGA Zone 50 696817 **mE** 7708409 **mN** **Lat.** -20.7135 **Long.** 118.8899

Habitat Crest

Aspect N **Slope** Moderate

Soil Type Brown clay loam

Rock Type Granite. (high biotite/amphibole), quartz

Loose Rock >90 % cover; 60-200 mm in size **Litter** 1 % cover ; 1 cm in depth

Bare ground 60 % cover **Weeds** 0 % cover

Vegetation G+ ^^*Triodia chichesterensis*,*Triodia wiseana*,*Triodia epactia*\^hummock grass\1\c

Veg. Condition Excellent

Disturbance Minimal

Fire Age >5 years

Notes



Species	WA Cons.	Height (m)	Cover (%)	Count
Acacia inaequilatera		2.5	<1	
Acacia orthocarpa		1.5	<1	
Acacia pyrifolia var. *pyrifolia*		0.7	<1	
Aristida contorta		0.2	<1	
Arivela viscosa		0.1	<1	
Boerhavia coccinea		0.3	<1	

Bonamia pilbarensis		0.05	<1
Bonamia pilbarensis (atypical form)		0.02	<1
Corchorus parviflorus		0.4	<1
Dolichocarpa crouchiana		0.1	<1
Enneapogon caerulescens		0.15	<1
Eriachne ciliata		0.15	<1
Eriachne mucronata		0.35	<1
Eriachne pulchella subsp. *pulchella*		0.1	<1
Fimbristylis dichotoma		0.15	<1
Gomphrena cunninghamii		0.1	<1
Goodenia muelleriana		0.1	<1
Indigofera linifolia		0.2	<1
Panicum australiense var. *australiense*		0.2	<1
Paspalidium sp.		0.1	<1
Polycarpaea holtzei		0.03	<1
Polygala glaucifolia		0.02	<1
Ptilotus auriculifolius		0.3	<1
Ptilotus calostachyus		0.4	<1
Ptilotus fusiformis		0.2	<1
Scaevola amblyanthera var. *centralis*		0.25	<1
Sporobolus australasicus		0.15	<1
Tephrosia clementii		0.02	<1
Tephrosia sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)		0.02	<1
Tribulus hirsutus		0.1	<1
Trigastrotheca molluginea		0.1	<1
Triodia chichesterensis	P 3	0.25	25
Triodia epactia		0.3	5
Triodia wiseana		0.3	20

APPENDIX SIX DBCA REPORT FORMS

Department of Biodiversity, Conservation and Attractions

Threatened and Priority Flora Report Form

Version 1.4 March 2021

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 www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Bulbostylis burbidgeae **TPFL Pop. No:**

OBSERVATION DATE: 1/6/2025 **CONSERVATION STATUS:** P4 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7710656
Long / Easting: 696339
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive	500			
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☒ Dehisced fruit ☐ Percentage in flower: 100%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

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

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☒
Slope ☐
Flat ☐
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☒
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☐
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☐
10-30% ☒
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☒
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

FLORA AUTHORISATION / LICENCE No: FB62000001-3 Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ___ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: ___

LODGEMENT: WA Herb Lodgement No: ___

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☒ Field notes ☐ Other: ___

COPY SENT TO: Regional Office ☐ District Office ☐ Other: ___

Submitter of Record: Stephen Kern Role: Principal botanist Signed:  Date: 25/9/2025

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

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:___ **Sheet No.:**___ **Record Entered in Database** ❑

Species	Cons.	Count	Easting	Northing	Date
Bulbostylis burbidgeae	4	500	696339	7710656	1/06/2025
Bulbostylis burbidgeae	4	300	696353	7710594	1/06/2025
Bulbostylis burbidgeae	4	200	696396	7710619	1/06/2025
Bulbostylis burbidgeae	4	200	696490	7710303	1/06/2025
Bulbostylis burbidgeae	4	20	697000	7711749	30/05/2025
Bulbostylis burbidgeae	4	20	697012	7711798	30/05/2025
Bulbostylis burbidgeae	4	20	697018	7711630	30/05/2025
Bulbostylis burbidgeae	4	200	697063	7711573	30/05/2025
Bulbostylis burbidgeae	4	200	697069	7711586	30/05/2025
Bulbostylis burbidgeae	4	200	697344	7711351	30/05/2025
Bulbostylis burbidgeae	4	20	697461	7711647	30/05/2025
Bulbostylis burbidgeae	4	200	697518	7711666	30/05/2025
Bulbostylis burbidgeae	4	20	697543	7711262	30/05/2025
Bulbostylis burbidgeae	4	20	697545	7711264	30/05/2025
Bulbostylis burbidgeae	4	20	697854	7711490	30/05/2025
Bulbostylis burbidgeae	4	20	697912	7711405	30/05/2025
Bulbostylis burbidgeae	4	20	697954	7711449	30/05/2025
Bulbostylis burbidgeae	4	20	697995	7711533	30/05/2025
Bulbostylis burbidgeae	4	30	698122	7712222	26/05/2025
Bulbostylis burbidgeae	4	30	698124	7712226	26/05/2025
Bulbostylis burbidgeae	4	10	698203	7712321	26/05/2025
Bulbostylis burbidgeae	4	30	698215	7712344	26/05/2025
Bulbostylis burbidgeae	4	30	698223	7712343	26/05/2025
Bulbostylis burbidgeae	4	5	698234	7712300	26/05/2025
Bulbostylis burbidgeae	4	30	698247	7712275	26/05/2025
Bulbostylis burbidgeae	4	100	698348	7704569	27/05/2025
Bulbostylis burbidgeae	4	100	698387	7704452	27/05/2025
Bulbostylis burbidgeae	4	20	698387	7704351	27/05/2025
Bulbostylis burbidgeae	4	6	698390	7704343	27/05/2025
Bulbostylis burbidgeae	4	100	698464	7704295	27/05/2025
Bulbostylis burbidgeae	4	30	698608	7704256	27/05/2025
Bulbostylis burbidgeae	4	30	698827	7702271	1/06/2025
Bulbostylis burbidgeae	4	50	698912	7716504	27/05/2025
Bulbostylis burbidgeae	4	50	698920	7716407	27/05/2025
Bulbostylis burbidgeae	4	1000	698948	7703768	31/05/2025
Bulbostylis burbidgeae	4	50	699016	7704235	27/05/2025
Bulbostylis burbidgeae	4	500	699099	7705419	27/05/2025
Bulbostylis burbidgeae	4	10	699110	7705445	27/05/2025
Bulbostylis burbidgeae	4	10	699142	7705433	27/05/2025
Bulbostylis burbidgeae	4	10	699158	7705425	27/05/2025
Bulbostylis burbidgeae	4	10	699163	7705415	27/05/2025
Bulbostylis burbidgeae	4	10	699195	7705403	27/05/2025
Bulbostylis burbidgeae	4	30	699417	7704914	27/05/2025
Bulbostylis burbidgeae	4	1	702289	7715771	28/05/2025
Bulbostylis burbidgeae	4	30	702291	7715776	28/05/2025
Bulbostylis burbidgeae	4	30	702293	7715767	28/05/2025
Bulbostylis burbidgeae	4	30	702295	7715782	28/05/2025
Bulbostylis burbidgeae	4	30	702296	7715763	28/05/2025
Bulbostylis burbidgeae	4	50	702784	7719522	5/04/2025
Bulbostylis burbidgeae	4	3	704639	7709004	13/03/2024
Bulbostylis burbidgeae	4	10	704968	7708602	13/03/2024
Bulbostylis burbidgeae	4	10	704968	7708591	13/03/2024
Bulbostylis burbidgeae	4	10	704975	7708603	13/03/2024
Bulbostylis burbidgeae	4	10	704976	7708594	13/03/2024
Bulbostylis burbidgeae	4	10	704977	7708603	13/03/2024

Species	Cons.	Count	Easting	Northing	Date
Bulbostylis burbidgeae	4	10	704980	7708600	13/03/2024
Bulbostylis burbidgeae	4	10	704983	7708599	13/03/2024
Bulbostylis burbidgeae	4	10	704986	7708578	13/03/2024
Bulbostylis burbidgeae	4	10	704987	7708592	13/03/2024
Bulbostylis burbidgeae	4	10	705001	7708595	13/03/2024
Bulbostylis burbidgeae	4	10	705003	7708568	13/03/2024
Bulbostylis burbidgeae	4	10	705018	7708575	13/03/2024
Bulbostylis burbidgeae	4	25	705181	7715061	30/05/2025
Bulbostylis burbidgeae	4	1	705222	7705528	18/03/2024
Bulbostylis burbidgeae	4	1	705282	7705040	14/03/2024
Bulbostylis burbidgeae	4	5	705505	7712176	29/05/2025
Bulbostylis burbidgeae	4	3	705512	7704667	14/03/2024
Bulbostylis burbidgeae	4	5	705539	7712209	29/05/2025
Bulbostylis burbidgeae	4	10	705540	7712209	29/05/2025
Bulbostylis burbidgeae	4	100	705540	7712188	29/05/2025
Bulbostylis burbidgeae	4	10	705551	7712162	29/05/2025
Bulbostylis burbidgeae	4	10	705562	7712111	29/05/2025
Bulbostylis burbidgeae	4	20	705566	7712224	29/05/2025
Bulbostylis burbidgeae	4	50	705566	7712224	29/05/2025
Bulbostylis burbidgeae	4	100	705576	7712099	29/05/2025
Bulbostylis burbidgeae	4	5	705690	7708437	17/03/2024
Bulbostylis burbidgeae	4	20	705721	7713639	29/05/2025
Bulbostylis burbidgeae	4	5	705725	7708489	17/03/2024
Bulbostylis burbidgeae	4	5	705731	7708469	17/03/2024
Bulbostylis burbidgeae	4	5	705737	7708489	17/03/2024
Bulbostylis burbidgeae	4	5	705737	7708489	17/03/2024
Bulbostylis burbidgeae	4	5	705740	7713628	29/05/2025
Bulbostylis burbidgeae	4	5	705741	7713613	29/05/2025
Bulbostylis burbidgeae	4	5	705776	7708460	17/03/2024
Bulbostylis burbidgeae	4	50	706048	7711713	31/05/2025
Bulbostylis burbidgeae	4	50	706061	7711740	31/05/2025
Bulbostylis burbidgeae	4	2	706165	7706890	15/03/2024
Bulbostylis burbidgeae	4	1	706605	7716192	28/05/2025
Bulbostylis burbidgeae	4	30	706766	7716408	28/05/2025
Bulbostylis burbidgeae	4	30	706766	7716408	28/05/2025
Bulbostylis burbidgeae	4	4	707345	7717787	28/05/2025
Bulbostylis burbidgeae	4	4	707350	7717787	28/05/2025

Department of Biodiversity, Conservation and Attractions

GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.4 March 2021

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 www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Euphorbia clementii **TPFL Pop. No:**

OBSERVATION DATE: 7/4/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:

GDA94 / MGA94 ☒

AGD84 / AMG84 ☐

WGS84 ☐

Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)

DecDegrees ☐ DegMinSec ☐ UTMs ☒

Lat / Northing: 7709169

Long / Easting: 695486

ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____

(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 (m²): _____

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

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☒

Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: 100%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

Please return completed form to **Species And Communities Program** DBCA,

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 **OR** email to: flora.data@dbca.wa.gov.au

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☒
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☐
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☒
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☒
10-30% ☐
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☒
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

FLORA AUTHORISATION / LICENCE No: FB62000001-3 Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ___ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: ___

LODGEMENT: WA Herb Lodgement No: ___

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☒ Field notes ☐ Other: ___

COPY SENT TO: Regional Office ☐ District Office ☐ Other: ___

Submitter of Record: Stephen Kern Role: Principal botanist Signed:  Date: 25/9/2025

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Species	Cons.	Count	Easting	Northing	Date
Euphorbia clementii	3	20	695487	7709169	7/04/2025
Euphorbia clementii	3	2	695515	7709177	7/04/2025
Euphorbia clementii	3	2	695564	7709153	7/04/2025
Euphorbia clementii	3	1	695623	7709039	7/04/2025
Euphorbia clementii	3	20	695765	7708858	7/04/2025
Euphorbia clementii	3	8	695800	7708888	7/04/2025
Euphorbia clementii	3	25	695941	7708654	7/04/2025
Euphorbia clementii	3	11	695975	7708674	7/04/2025
Euphorbia clementii	3	10	696701	7709458	1/06/2025
Euphorbia clementii	3	3	696771	7709109	7/04/2025
Euphorbia clementii	3	1	702776	7718695	9/04/2025
Euphorbia clementii	3	10	702804	7718699	9/04/2025

Department of Biodiversity, Conservation and Attractions
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.4 March 2021

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 www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Euploca mutica **TPFL Pop. No:**

OBSERVATION DATE: 6/4/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7702904
Long / Easting: 697275
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive	40			
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☒
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: 100%

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)**
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Laterite ☐
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Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☒
10-30% ☐
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50-100% ☐

SOIL TYPE:
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Sandy loam ☐
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
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Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
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Species	Cons.	Count	Easting	Northing	Date
Euploca mutica	3	40	697275	7702904	6/04/2025
Euploca mutica	3	15	697344	7703216	6/04/2025
Euploca mutica	3	10	697354	7703330	6/04/2025
Euploca mutica	3	5	698533	7702595	6/04/2025
Euploca mutica	3	50	698697	7702611	31/05/2025
Euploca mutica	3	1	698716	7702593	1/06/2025
Euploca mutica	3	20	698733	7702706	31/05/2025
Euploca mutica	3	4	700073	7709913	26/05/2025
Euploca mutica	3	2	700453	7711282	12/03/2024
Euploca mutica	3	1	701443	7704413	25/06/2024
Euploca mutica	3	5	701472	7704898	19/03/2024
Euploca mutica	3	5	701561	7704721	19/03/2024
Euploca mutica	3	5	701656	7706053	9/04/2024
Euploca mutica	3	1	701756	7705972	9/04/2024
Euploca mutica	3	5	701821	7709083	12/03/2024
Euploca mutica	3	5	701851	7709757	13/04/2024
Euploca mutica	3	5	701854	7705728	18/03/2024
Euploca mutica	3	10	701861	7709063	12/03/2024
Euploca mutica	3	10	701867	7709032	12/03/2024
Euploca mutica	3	5	701924	7709626	13/03/2024
Euploca mutica	3	5	702223	7709317	13/03/2024
Euploca mutica	3	2	702253	7705675	14/04/2024
Euploca mutica	3	5	702279	7709281	13/03/2024
Euploca mutica	3	6	702288	7707331	12/04/2024
Euploca mutica	3	30	702405	7705507	18/03/2024
Euploca mutica	3	20	702438	7707756	17/03/2024
Euploca mutica	3	5	702481	7705677	14/04/2024
Euploca mutica	3	5	702506	7705570	18/03/2024
Euploca mutica	3	33	702523	7705538	9/04/2024
Euploca mutica	3	50	702563	7707814	17/03/2024
Euploca mutica	3	5	702596	7705668	18/03/2024
Euploca mutica	3	20	702653	7707063	15/03/2024
Euploca mutica	3	7	702681	7706701	12/04/2024
Euploca mutica	3	5	702759	7705832	18/03/2024
Euploca mutica	3	20	702781	7707059	15/03/2024
Euploca mutica	3	20	702820	7707066	15/03/2024
Euploca mutica	3	2	702982	7705236	10/04/2024
Euploca mutica	3	20	702985	7707053	15/03/2024
Euploca mutica	3	5	703017	7705275	25/06/2024
Euploca mutica	3	10	703112	7719326	14/03/2024
Euploca mutica	3	10	703246	7705840	18/03/2024
Euploca mutica	3	20	703295	7705983	18/03/2024
Euploca mutica	3	20	703364	7705991	18/03/2024
Euploca mutica	3	10	703401	7704626	14/03/2024
Euploca mutica	3	6	703402	7705285	10/04/2024
Euploca mutica	3	10	703405	7704621	14/03/2024
Euploca mutica	3	20	703412	7707418	17/03/2024
Euploca mutica	3	20	703469	7707368	15/03/2024
Euploca mutica	3	30	703470	7705765	18/03/2024
Euploca mutica	3	10	703484	7704632	14/03/2024
Euploca mutica	3	20	703526	7707480	17/03/2024
Euploca mutica	3	20	703527	7704638	14/03/2024
Euploca mutica	3	5	703552	7719491	16/03/2024
Euploca mutica	3	20	703557	7707515	17/03/2024
Euploca mutica	3	20	703598	7704994	14/03/2024

Species	Cons.	Count	Easting	Northing	Date
Euploca mutica	3	20	703605	7707586	17/03/2024
Euploca mutica	3	30	703633	7705738	18/03/2024
Euploca mutica	3	20	703635	7704658	14/03/2024
Euploca mutica	3	50	703677	7707942	17/03/2024
Euploca mutica	3	20	703686	7707370	15/03/2024
Euploca mutica	3	20	703704	7705034	14/03/2024
Euploca mutica	3	20	703714	7707380	15/03/2024
Euploca mutica	3	2	703715	7705979	18/03/2024
Euploca mutica	3	50	703716	7707975	17/03/2024
Euploca mutica	3	10	703762	7705707	18/03/2024
Euploca mutica	3	20	703798	7704646	14/03/2024
Euploca mutica	3	40	703809	7707725	17/03/2024
Euploca mutica	3	8	703826	7705431	10/04/2024
Euploca mutica	3	20	703846	7704654	14/03/2024
Euploca mutica	3	20	703872	7707101	15/03/2024
Euploca mutica	3	40	703878	7707741	17/03/2024
Euploca mutica	3	40	703906	7707748	17/03/2024
Euploca mutica	3	10	703906	7705696	18/03/2024
Euploca mutica	3	20	703916	7707090	15/03/2024
Euploca mutica	3	20	703924	7704664	14/03/2024
Euploca mutica	3	10	703964	7705706	18/03/2024
Euploca mutica	3	5	703992	7705982	18/03/2024
Euploca mutica	3	5	703996	7705984	18/03/2024
Euploca mutica	3	5	704026	7705470	10/04/2024
Euploca mutica	3	3	704046	7708305	17/03/2024
Euploca mutica	3	10	704053	7705716	18/03/2024
Euploca mutica	3	20	704073	7704636	14/03/2024
Euploca mutica	3	20	704074	7705218	14/03/2024
Euploca mutica	3	20	704079	7704633	14/03/2024
Euploca mutica	3	5	704084	7705991	18/03/2024
Euploca mutica	3	10	704103	7705703	18/03/2024
Euploca mutica	3	20	704111	7704642	14/03/2024
Euploca mutica	3	10	704144	7708649	13/03/2024
Euploca mutica	3	20	704147	7705277	14/03/2024
Euploca mutica	3	5	704159	7720232	16/03/2024
Euploca mutica	3	20	704159	7704644	14/03/2024
Euploca mutica	3	20	704167	7705288	14/03/2024
Euploca mutica	3	5	704187	7707078	10/04/2024
Euploca mutica	3	10	704211	7705667	18/03/2024
Euploca mutica	3	20	704222	7707058	15/03/2024
Euploca mutica	3	5	704223	7706207	12/04/2024
Euploca mutica	3	20	704253	7708561	13/03/2024
Euploca mutica	3	20	704258	7707050	15/03/2024
Euploca mutica	3	20	704277	7707544	15/03/2024
Euploca mutica	3	20	704302	7704683	14/03/2024
Euploca mutica	3	20	704312	7708521	13/03/2024
Euploca mutica	3	20	704322	7707537	15/03/2024
Euploca mutica	3	20	704357	7704689	14/03/2024
Euploca mutica	3	50	704357	7708404	17/03/2024
Euploca mutica	3	20	704382	7704694	14/03/2024
Euploca mutica	3	20	704385	7705307	14/03/2024
Euploca mutica	3	5	704386	7707033	10/04/2024
Euploca mutica	3	40	704389	7707943	17/03/2024
Euploca mutica	3	5	704395	7706687	10/04/2024
Euploca mutica	3	5	704399	7706131	12/04/2024

Species	Cons.	Count	Easting	Northing	Date
Euploca mutica	3	20	704422	7704703	14/03/2024
Euploca mutica	3	20	704423	7708404	13/03/2024
Euploca mutica	3	20	704436	7707012	15/03/2024
Euploca mutica	3	10	704442	7705690	18/03/2024
Euploca mutica	3	20	704447	7707552	15/03/2024
Euploca mutica	3	20	704479	7708415	13/03/2024
Euploca mutica	3	20	704486	7707005	15/03/2024
Euploca mutica	3	20	704499	7705239	14/03/2024
Euploca mutica	3	5	704501	7706691	10/04/2024
Euploca mutica	3	5	704507	7706008	18/03/2024
Euploca mutica	3	20	704515	7708409	13/03/2024
Euploca mutica	3	50	704517	7708452	17/03/2024
Euploca mutica	3	20	704519	7705201	14/03/2024
Euploca mutica	3	20	704519	7704697	14/03/2024
Euploca mutica	3	40	704521	7707974	17/03/2024
Euploca mutica	3	20	704568	7707617	15/03/2024
Euploca mutica	3	40	704572	7708005	17/03/2024
Euploca mutica	3	20	704579	7708390	13/03/2024
Euploca mutica	3	5	704591	7705440	10/04/2024
Euploca mutica	3	20	704592	7705888	12/04/2024
Euploca mutica	3	50	704605	7708468	17/03/2024
Euploca mutica	3	20	704605	7708382	13/03/2024
Euploca mutica	3	40	704605	7708013	17/03/2024
Euploca mutica	3	20	704638	7708379	13/03/2024
Euploca mutica	3	20	704643	7707621	15/03/2024
Euploca mutica	3	20	704647	7706990	15/03/2024
Euploca mutica	3	20	704649	7708369	13/03/2024
Euploca mutica	3	10	704651	7705669	18/03/2024
Euploca mutica	3	40	704676	7708030	17/03/2024
Euploca mutica	3	1	704685	7708377	13/03/2024
Euploca mutica	3	10	704687	7705676	18/03/2024
Euploca mutica	3	40	704734	7708036	17/03/2024
Euploca mutica	3	20	704735	7706978	15/03/2024
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Euploca mutica	3	30	704854	7705660	18/03/2024
Euploca mutica	3	5	704872	7706719	10/04/2024
Euploca mutica	3	5	704898	7706666	10/04/2024
Euploca mutica	3	1	704952	7705445	10/04/2024
Euploca mutica	3	40	704976	7708113	17/03/2024
Euploca mutica	3	20	704979	7707708	15/03/2024
Euploca mutica	3	20	705003	7707719	15/03/2024
Euploca mutica	3	20	705006	7706961	15/03/2024
Euploca mutica	3	20	705020	7705587	18/03/2024
Euploca mutica	3	2	705025	7704408	10/04/2024
Euploca mutica	3	20	705027	7708143	17/03/2024
Euploca mutica	3	20	705047	7704629	14/03/2024
Euploca mutica	3	10	705083	7708187	17/03/2024
Euploca mutica	3	20	705106	7705558	18/03/2024
Euploca mutica	3	20	705134	7705132	14/03/2024

Species	Cons.	Count	Easting	Northing	Date
Euploca mutica	3	40	705151	7704376	10/04/2024
Euploca mutica	3	20	705161	7704679	14/03/2024
Euploca mutica	3	20	705170	7708231	17/03/2024
Euploca mutica	3	20	705198	7706940	15/03/2024
Euploca mutica	3	20	705244	7708276	17/03/2024
Euploca mutica	3	20	705301	7708308	17/03/2024
Euploca mutica	3	20	705310	7705045	14/03/2024
Euploca mutica	3	20	705339	7704677	14/03/2024
Euploca mutica	3	20	705362	7704677	14/03/2024
Euploca mutica	3	20	705371	7705641	18/03/2024
Euploca mutica	3	20	705403	7708354	17/03/2024
Euploca mutica	3	20	705415	7705690	18/03/2024
Euploca mutica	3	20	705433	7705705	18/03/2024
Euploca mutica	3	20	705452	7707821	15/03/2024
Euploca mutica	3	20	705505	7705756	18/03/2024
Euploca mutica	3	20	705510	7704999	14/03/2024
Euploca mutica	3	20	705521	7708379	17/03/2024
Euploca mutica	3	50	705523	7708448	17/03/2024
Euploca mutica	3	5	705548	7705809	18/03/2024
Euploca mutica	3	20	705553	7707817	15/03/2024
Euploca mutica	3	5	705599	7705864	18/03/2024
Euploca mutica	3	5	705636	7705905	18/03/2024
Euploca mutica	3	30	705692	7707859	15/03/2024
Euploca mutica	3	20	705722	7707829	15/03/2024
Euploca mutica	3	20	705738	7706883	15/03/2024
Euploca mutica	3	20	705782	7707921	15/03/2024
Euploca mutica	3	20	705804	7708045	15/03/2024
Euploca mutica	3	20	705910	7708100	15/03/2024
Euploca mutica	3	20	706200	7707708	15/03/2024
Euploca mutica	3	5	706407	7705033	10/04/2024
Euploca mutica	3	5	708706	7707615	29/05/2025
Euploca mutica	3	1	708745	7708651	29/05/2025
Euploca mutica	3	1	713551	7725689	5/04/2025
Euploca mutica	3	1	713927	7727186	5/04/2025

Department of Biodiversity, Conservation and Attractions

Threatened and Priority Flora Report Form

Version 1.4 March 2021

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 www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Gymnanthera cunninghamii **TPFL Pop. No:**

OBSERVATION DATE: 31/5/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7709792
Long / Easting: 701266
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive	3			
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☒ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: 0%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

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

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☐
Open depression ☐
Drainage line ☒
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☐
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☐
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☒
10-30% ☐
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☒
Sandy loam ☐
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

FLORA AUTHORISATION / LICENCE No: FB62000001-3 Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ___ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: ___

LODGEMENT: WA Herb Lodgement No: ___

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☒ Field notes ☐ Other: ___

COPY SENT TO: Regional Office ☐ District Office ☐ Other: ___

Submitter of Record: Stephen Kern Role: Principal botanist Signed:  Date: 25/9/2025

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

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:___ **Sheet No.:**___ **Record Entered in Database** ❑

Species	Cons.	Count	Easting	Northing	Date
Gymnanthera cunninghamii	3	3	701267	7709793	31/05/2025
Gymnanthera cunninghamii	3	1	707184	7706252	29/05/2025
Gymnanthera cunninghamii	3	1	707201	7706254	29/05/2025
Gymnanthera cunninghamii	3	1	709452	7705689	31/05/2025

Department of Biodiversity, Conservation and Attractions

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TAXON: Nicotiana umbratica **TPFL Pop. No:**

OBSERVATION DATE: 1/6/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7710594
Long / Easting: 696353
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive	10			
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☒
Immature fruit ☐ Fruit ☐ Dehisced fruit ☐ Percentage in flower: 100%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

Please return completed form to **Species And Communities Program** DBCA,
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RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☒
Slope ☐
Flat ☐
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☒
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☐
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☐
10-30% ☒
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☒
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

FLORA AUTHORISATION / LICENCE No: FB62000001-3 Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ___ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: ___

LODGEMENT: WA Herb Lodgement No: ___

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☒ Field notes ☐ Other: ___

COPY SENT TO: Regional Office ☐ District Office ☐ Other: ___

Submitter of Record: Stephen Kern Role: Principal botanist Signed:  Date: 25/9/2025

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RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:___ **Sheet No.:**___ **Record Entered in Database** ❑

Species	Cons.	Count	Easting	Northing	Date
Nicotiana umbratica	3	10	696353	7710594	1/06/2025
Nicotiana umbratica	3	1	696381	7707979	31/05/2025
Nicotiana umbratica	3	10	696473	7710292	1/06/2025
Nicotiana umbratica	3	1	697018	7711630	30/05/2025
Nicotiana umbratica	3	2	697061	7711574	30/05/2025
Nicotiana umbratica	3	5	697461	7711647	30/05/2025
Nicotiana umbratica	3	5	697520	7711667	30/05/2025
Nicotiana umbratica	3	2	698466	7704295	27/05/2025
Nicotiana umbratica	3	1	698723	7704280	27/05/2025
Nicotiana umbratica	3	10	698825	7702260	1/06/2025
Nicotiana umbratica	3	4	699097	7705419	27/05/2025
Nicotiana umbratica	3	5	699142	7705432	27/05/2025
Nicotiana umbratica	3	1	699398	7705301	30/05/2025
Nicotiana umbratica	3	1	699438	7705364	27/05/2025

Department of Biodiversity, Conservation and Attractions

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Version 1.4 March 2021

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TAXON: Rothia indica subsp. australis **TPFL Pop. No:**

OBSERVATION DATE: 30/5/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7705582
Long / Easting: 699167
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(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 (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☒ Dehisced fruit ☐ Percentage in flower: 100%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

Please return completed form to **Species And Communities Program** DBCA,
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RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☒
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☒
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☐
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☒
10-30% ☐
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☒
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

FLORA AUTHORISATION / LICENCE No: FB62000001-3 Note if only observing plants (i.e. no specimens or plant matieral is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the OTHER COMMENTS section.

SPECIMEN: Collectors No: ___ WA Herb. ☐ Regional Herb. ☐ District Herb. ☐ Other: ___

LODGEMENT: WA Herb Lodgement No: ___

ATTACHED: Map ☐ Mudmap ☐ Photo ☐ GIS data ☒ Field notes ☐ Other: ___

COPY SENT TO: Regional Office ☐ District Office ☐ Other: ___

Submitter of Record: Stephen Kern Role: Principal botanist Signed:  Date: 25/9/2025

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

RECORDS: Please forward to **Flora Administrative Officer,** Species and Communities Program.

Record entered by:___ **Sheet No.:**___ **Record Entered in Database** ❑

Species	Cons.	Count	Easting	Northing	Date
Rothia indica subsp. *australis*	3	1	699167	7705583	30/05/2025
Rothia indica subsp. *australis*	3	5	706587	7716200	28/05/2025
Rothia indica subsp. *australis*	3	5	706605	7716192	28/05/2025

Department of Biodiversity, Conservation and Attractions
GOVERNMENT OF WESTERN AUSTRALIA

Threatened and Priority Flora Report Form

Version 1.4 March 2021

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 www.dpaw.wa.gov.au/plants-and-animals/threatened-species-and-communities/threatened-plants

TAXON: Triodia chichesterensis **TPFL Pop. No:**

OBSERVATION DATE: 1/6/2025 **CONSERVATION STATUS:** P3 **New population** ☒

OBSERVER/S: Stephen Kern, Emily Mayhew **PHONE** (08) 9430 8955

ROLE: Botanist **ORGANISATION:** Ecoscape

EMAIL: stephenk@ecoscape.com.au

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

Approximately 50 km SE of Port Hedland, various locations

Reserve No:

DBCA DISTRICT: Pilbara **LGA:** Town of Port Hedland Land manager present: ☐

DATUM:
GDA94 / MGA94 ☒
AGD84 / AMG84 ☐
WGS84 ☐
Unknown ☐

COORDINATES: (If UTM coords provided, **Zone** is also required)
DecDegrees ☐ DegMinSec ☐ UTMs ☒
Lat / Northing: 7707670
Long / Easting: 695056
ZONE: 50

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: _____

AREA ASSESSMENT: Edge survey ☐ Partial survey ☒ Full survey ☐ Area observed (m²): _____

EFFORT: Time spent surveying (minutes): _____ No. of minutes spent / 100 m²: _____

POP'N COUNT ACCURACY: Actual ☐ Extrapolation ☐ Estimate ☒ Count method: _____
(Refer to field manual for list)

WHAT COUNTED: Plants ☒ Clumps ☐ Clonal stems ☐

TOTAL POP'N STRUCTURE:

	Mature:	Juveniles:	Seedlings:	Totals:
Alive	300			
Dead				

Area of pop (m²): _____
Note: Pls record count as numbers (not percentages) for database.

QUADRATS PRESENT: No. ___ Size _____ Data attached ☐ Total area of quadrats (m²): _____

Summary Quad. Totals: Alive				

REPRODUCTIVE STATE: Clonal ☐ Vegetative ☐ Flowerbud ☐ Flower ☐
Immature fruit ☐ Fruit ☒ Dehisced fruit ☐ Percentage in flower: 100%

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)**
• Cattle grazing	M	M	S
• Mining	N	M	M
•			

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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 1.4 March 2021

HABITAT INFORMATION:

LANDFORM:
Crest ☐
Hill ☐
Ridge ☐
Outcrop ☐
Slope ☐
Flat ☒
Open depression ☐
Drainage line ☐
Closed depression ☐
Wetland ☐

ROCK TYPE:
Granite ☐
Dolerite ☐
Laterite ☐
Ironstone ☐
Limestone ☐
Quartz ☒
Specify other: ___

LOOSE ROCK:
(on soil surface; eg gravel, quartz fields)
0-10% ☐
10-30% ☒
30-50% ☐
50-100% ☐

SOIL TYPE:
Sand ☐
Sandy loam ☒
Loam ☐
Clay loam ☐
Light clay ☐
Peat ☐
Specify other: ___

SOIL COLOUR:
Red ☒
Brown ☒
Yellow ☐
White ☐
Grey ☐
Black ☐
Specify other: ___

DRAINAGE:
Well drained ☒
Seasonally inundated ☐
Permanently inundated ☐
Tidal ☐

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. ilicifolia); **2**. Open shrubland (Hibbertia sp., Acacia spp.) ; **3**. Isolated clumps of sedges (M.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 Formations 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.) ___

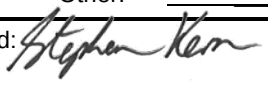
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Record entered by:___ **Sheet No.:**___ **Record Entered in Database** ❑

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	300	695057	7707670	1/06/2025
Triodia chichesterensis	3	300	695103	7707709	1/06/2025
Triodia chichesterensis	3	1	695163	7707816	7/04/2025
Triodia chichesterensis	3	300	695272	7707862	1/06/2025
Triodia chichesterensis	3	500	695328	7707122	30/05/2025
Triodia chichesterensis	3	500	695412	7707163	30/05/2025
Triodia chichesterensis	3	1	695516	7707328	8/04/2025
Triodia chichesterensis	3	500	695542	7707224	30/05/2025
Triodia chichesterensis	3	1000	695602	7706259	31/05/2025
Triodia chichesterensis	3	300	695732	7708264	1/06/2025
Triodia chichesterensis	3	300	695774	7708300	1/06/2025
Triodia chichesterensis	3	1	695815	7707693	31/05/2025
Triodia chichesterensis	3	200	695942	7707638	31/05/2025
Triodia chichesterensis	3	1	695957	7708429	7/04/2025
Triodia chichesterensis	3	500	695971	7707425	30/05/2025
Triodia chichesterensis	3	500	695971	7707425	30/05/2025
Triodia chichesterensis	3	500	695971	7707425	30/05/2025
Triodia chichesterensis	3	300	696024	7709543	1/06/2025
Triodia chichesterensis	3	300	696057	7708549	1/06/2025
Triodia chichesterensis	3	300	696105	7708594	1/06/2025
Triodia chichesterensis	3	200	696131	7707498	29/05/2025
Triodia chichesterensis	3	500	696136	7707494	30/05/2025
Triodia chichesterensis	3	100	696258	7707536	31/05/2025
Triodia chichesterensis	3	1	696318	7708073	31/05/2025
Triodia chichesterensis	3	500	696400	7707552	30/05/2025
Triodia chichesterensis	3	500	696400	7707552	30/05/2025
Triodia chichesterensis	3	500	696404	7707549	30/05/2025
Triodia chichesterensis	3	500	696481	7707561	30/05/2025
Triodia chichesterensis	3	300	696617	7709044	1/06/2025
Triodia chichesterensis	3	300	696617	7709044	1/06/2025
Triodia chichesterensis	3	300	696650	7709070	1/06/2025
Triodia chichesterensis	3	500	696687	7707657	30/05/2025
Triodia chichesterensis	3	1	696771	7709109	7/04/2025
Triodia chichesterensis	3	1	696817	7708409	31/05/2025
Triodia chichesterensis	3	30	696943	7712095	30/05/2025
Triodia chichesterensis	3	500	696971	7707681	30/05/2025
Triodia chichesterensis	3	300	696978	7709130	1/06/2025
Triodia chichesterensis	3	500	696982	7707913	30/05/2025
Triodia chichesterensis	3	1000	697008	7708252	31/05/2025
Triodia chichesterensis	3	500	697011	7707696	30/05/2025
Triodia chichesterensis	3	500	697011	7707696	30/05/2025
Triodia chichesterensis	3	500	697011	7707696	30/05/2025
Triodia chichesterensis	3	1000	697076	7708115	31/05/2025
Triodia chichesterensis	3	1	697186	7708215	8/04/2025
Triodia chichesterensis	3	500	697319	7708216	30/05/2025
Triodia chichesterensis	3	1	697325	7709568	7/04/2025
Triodia chichesterensis	3	500	697341	7708238	30/05/2025
Triodia chichesterensis	3	500	697373	7708268	30/05/2025
Triodia chichesterensis	3	300	697471	7709056	1/06/2025
Triodia chichesterensis	3	300	697471	7709056	1/06/2025
Triodia chichesterensis	3	300	697487	7709509	1/06/2025
Triodia chichesterensis	3	300	697519	7709037	1/06/2025
Triodia chichesterensis	3	300	697522	7709491	1/06/2025
Triodia chichesterensis	3	300	697706	7708922	1/06/2025
Triodia chichesterensis	3	500	697715	7707917	30/05/2025

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	300	697736	7708908	1/06/2025
Triodia chichesterensis	3	300	697846	7709303	1/06/2025
Triodia chichesterensis	3	200	697853	7711102	30/05/2025
Triodia chichesterensis	3	200	697857	7711103	30/05/2025
Triodia chichesterensis	3	300	698078	7709168	1/06/2025
Triodia chichesterensis	3	500	698099	7709000	30/05/2025
Triodia chichesterensis	3	300	698124	7709142	1/06/2025
Triodia chichesterensis	3	300	698143	7709842	1/06/2025
Triodia chichesterensis	3	300	698167	7709828	1/06/2025
Triodia chichesterensis	3	300	698302	7709787	1/06/2025
Triodia chichesterensis	3	200	698321	7711211	30/05/2025
Triodia chichesterensis	3	200	698324	7711213	30/05/2025
Triodia chichesterensis	3	300	698383	7711618	26/05/2025
Triodia chichesterensis	3	300	698388	7711617	26/05/2025
Triodia chichesterensis	3	200	698447	7711224	30/05/2025
Triodia chichesterensis	3	300	698506	7712113	26/05/2025
Triodia chichesterensis	3	200	698520	7710602	29/05/2025
Triodia chichesterensis	3	200	698566	7710605	29/05/2025
Triodia chichesterensis	3	200	698575	7711527	30/05/2025
Triodia chichesterensis	3	200	698575	7711527	30/05/2025
Triodia chichesterensis	3	200	698575	7711527	30/05/2025
Triodia chichesterensis	3	200	698585	7711524	30/05/2025
Triodia chichesterensis	3	300	698608	7712036	26/05/2025
Triodia chichesterensis	3	200	698633	7711516	30/05/2025
Triodia chichesterensis	3	300	698641	7711584	26/05/2025
Triodia chichesterensis	3	1	698668	7709305	10/04/2025
Triodia chichesterensis	3	200	698669	7711241	30/05/2025
Triodia chichesterensis	3	200	698669	7711241	30/05/2025
Triodia chichesterensis	3	200	698672	7711241	30/05/2025
Triodia chichesterensis	3	300	698689	7711981	26/05/2025
Triodia chichesterensis	3	200	698691	7709994	30/05/2025
Triodia chichesterensis	3	300	698792	7711844	26/05/2025
Triodia chichesterensis	3	200	698822	7710737	29/05/2025
Triodia chichesterensis	3	50	698852	7714493	27/05/2025
Triodia chichesterensis	3	300	698894	7711557	26/05/2025
Triodia chichesterensis	3	200	698895	7713060	11/03/2024
Triodia chichesterensis	3	300	698899	7711558	26/05/2025
Triodia chichesterensis	3	100	698907	7713058	11/03/2024
Triodia chichesterensis	3	300	698967	7715643	27/05/2025
Triodia chichesterensis	3	300	698968	7715295	27/05/2025
Triodia chichesterensis	3	300	698968	7716286	27/05/2025
Triodia chichesterensis	3	300	698968	7715651	27/05/2025
Triodia chichesterensis	3	300	698968	7715588	27/05/2025
Triodia chichesterensis	3	300	698969	7715582	27/05/2025
Triodia chichesterensis	3	300	698970	7716283	27/05/2025
Triodia chichesterensis	3	100	699009	7713039	11/03/2024
Triodia chichesterensis	3	100	699035	7713023	11/03/2024
Triodia chichesterensis	3	300	699044	7713016	11/03/2024
Triodia chichesterensis	3	300	699092	7712965	11/03/2024
Triodia chichesterensis	3	1	699125	7711491	6/04/2025
Triodia chichesterensis	3	100	699149	7716179	27/05/2025
Triodia chichesterensis	3	200	699198	7711862	16/03/2024
Triodia chichesterensis	3	200	699214	7711817	16/03/2024
Triodia chichesterensis	3	1	699218	7709902	9/04/2025
Triodia chichesterensis	3	300	699219	7716203	27/05/2025

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	200	699248	7711857	16/03/2024
Triodia chichesterensis	3	100	699270	7713347	18/03/2024
Triodia chichesterensis	3	200	699278	7711875	16/03/2024
Triodia chichesterensis	3	300	699281	7714421	27/05/2025
Triodia chichesterensis	3	300	699286	7712703	11/03/2024
Triodia chichesterensis	3	1000	699292	7712180	13/04/2024
Triodia chichesterensis	3	200	699313	7711902	16/03/2024
Triodia chichesterensis	3	300	699314	7712023	12/03/2024
Triodia chichesterensis	3	100	699334	7713264	16/03/2024
Triodia chichesterensis	3	300	699353	7714362	27/05/2025
Triodia chichesterensis	3	300	699377	7714347	27/05/2025
Triodia chichesterensis	3	100	699386	7711656	16/03/2024
Triodia chichesterensis	3	200	699388	7711769	16/03/2024
Triodia chichesterensis	3	100	699393	7713304	18/03/2024
Triodia chichesterensis	3	200	699393	7711730	16/03/2024
Triodia chichesterensis	3	200	699394	7711901	16/03/2024
Triodia chichesterensis	3	50	699424	7712986	16/03/2024
Triodia chichesterensis	3	100	699452	7713026	16/03/2024
Triodia chichesterensis	3	200	699490	7711911	11/03/2024
Triodia chichesterensis	3	30	699517	7714360	27/05/2025
Triodia chichesterensis	3	300	699525	7712565	11/03/2024
Triodia chichesterensis	3	100	699526	7714366	27/05/2025
Triodia chichesterensis	3	100	699555	7716187	27/05/2025
Triodia chichesterensis	3	30	699559	7716187	27/05/2025
Triodia chichesterensis	3	20	699680	7716076	27/05/2025
Triodia chichesterensis	3	200	699683	7712579	12/03/2024
Triodia chichesterensis	3	30	699684	7716074	27/05/2025
Triodia chichesterensis	3	100	699692	7712976	18/03/2024
Triodia chichesterensis	3	200	699744	7712643	12/03/2024
Triodia chichesterensis	3	200	699801	7712529	12/03/2024
Triodia chichesterensis	3	100	699876	7712829	18/03/2024
Triodia chichesterensis	3	200	699878	7712170	11/03/2024
Triodia chichesterensis	3	1000	699885	7713891	12/04/2024
Triodia chichesterensis	3	200	699889	7712116	11/03/2024
Triodia chichesterensis	3	300	699909	7715731	27/05/2025
Triodia chichesterensis	3	50	699913	7713286	19/03/2024
Triodia chichesterensis	3	300	699916	7715734	27/05/2025
Triodia chichesterensis	3	200	699919	7714064	12/04/2024
Triodia chichesterensis	3	200	699922	7712025	11/03/2024
Triodia chichesterensis	3	200	699941	7713702	19/03/2024
Triodia chichesterensis	3	200	699956	7711954	11/03/2024
Triodia chichesterensis	3	250	700015	7711855	12/03/2024
Triodia chichesterensis	3	1	700029	7714039	12/04/2024
Triodia chichesterensis	3	300	700062	7715516	27/05/2025
Triodia chichesterensis	3	200	700092	7711700	11/03/2024
Triodia chichesterensis	3	300	700095	7715438	27/05/2025
Triodia chichesterensis	3	200	700119	7711667	11/03/2024
Triodia chichesterensis	3	200	700141	7715350	27/05/2025
Triodia chichesterensis	3	200	700145	7714276	12/04/2024
Triodia chichesterensis	3	100	700275	7714423	19/03/2024
Triodia chichesterensis	3	5	700385	7710165	26/05/2025
Triodia chichesterensis	3	15	700453	7711282	12/03/2024
Triodia chichesterensis	3	1	700514	7710192	26/05/2025
Triodia chichesterensis	3	1000	700565	7709779	26/05/2025
Triodia chichesterensis	3	500	700585	7709744	26/05/2025

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	150	700594	7716243	11/04/2024
Triodia chichesterensis	3	1000	700609	7715939	11/04/2024
Triodia chichesterensis	3	100	700622	7716019	11/04/2024
Triodia chichesterensis	3	120	700684	7716266	11/04/2024
Triodia chichesterensis	3	50	700694	7709683	26/05/2025
Triodia chichesterensis	3	1000	700696	7709625	26/05/2025
Triodia chichesterensis	3	300	700719	7706107	31/05/2025
Triodia chichesterensis	3	300	700719	7713464	19/03/2024
Triodia chichesterensis	3	300	700725	7706142	31/05/2025
Triodia chichesterensis	3	300	700725	7706142	31/05/2025
Triodia chichesterensis	3	300	700725	7706142	31/05/2025
Triodia chichesterensis	3	300	700725	7706142	31/05/2025
Triodia chichesterensis	3	1000	700729	7715649	11/04/2024
Triodia chichesterensis	3	300	700739	7706476	31/05/2025
Triodia chichesterensis	3	300	700753	7706022	31/05/2025
Triodia chichesterensis	3	200	700754	7715431	11/04/2024
Triodia chichesterensis	3	100	700755	7715968	11/04/2024
Triodia chichesterensis	3	300	700758	7706504	31/05/2025
Triodia chichesterensis	3	200	700796	7714977	19/03/2024
Triodia chichesterensis	3	300	700796	7706812	31/05/2025
Triodia chichesterensis	3	300	700799	7706829	31/05/2025
Triodia chichesterensis	3	300	700799	7706829	31/05/2025
Triodia chichesterensis	3	300	700803	7706751	31/05/2025
Triodia chichesterensis	3	300	700807	7706737	31/05/2025
Triodia chichesterensis	3	300	700819	7705945	31/05/2025
Triodia chichesterensis	3	300	700859	7705865	31/05/2025
Triodia chichesterensis	3	1000	700864	7715306	11/04/2024
Triodia chichesterensis	3	300	700865	7716035	15/03/2024
Triodia chichesterensis	3	300	700899	7705791	31/05/2025
Triodia chichesterensis	3	100	700907	7714457	16/03/2024
Triodia chichesterensis	3	50	700908	7714165	18/03/2024
Triodia chichesterensis	3	300	700936	7705670	31/05/2025
Triodia chichesterensis	3	1000	700952	7715148	11/04/2024
Triodia chichesterensis	3	1000	700992	7715067	11/04/2024
Triodia chichesterensis	3	300	701023	7704853	31/05/2025
Triodia chichesterensis	3	300	701025	7704906	31/05/2025
Triodia chichesterensis	3	300	701025	7704906	31/05/2025
Triodia chichesterensis	3	300	701026	7704881	31/05/2025
Triodia chichesterensis	3	200	701051	7714927	11/04/2024
Triodia chichesterensis	3	300	701053	7705368	31/05/2025
Triodia chichesterensis	3	300	701053	7705368	31/05/2025
Triodia chichesterensis	3	300	701053	7705368	31/05/2025
Triodia chichesterensis	3	300	701053	7705368	31/05/2025
Triodia chichesterensis	3	300	701063	7705339	31/05/2025
Triodia chichesterensis	3	300	701072	7705030	31/05/2025
Triodia chichesterensis	3	300	701081	7705205	31/05/2025
Triodia chichesterensis	3	300	701086	7705187	31/05/2025
Triodia chichesterensis	3	100	701095	7714645	14/03/2024
Triodia chichesterensis	3	50	701125	7714479	14/03/2024
Triodia chichesterensis	3	100	701180	7714547	14/03/2024
Triodia chichesterensis	3	300	701205	7707201	31/05/2025
Triodia chichesterensis	3	300	701222	7707215	31/05/2025
Triodia chichesterensis	3	100	701244	7715810	15/03/2024
Triodia chichesterensis	3	300	701244	7708394	1/06/2025
Triodia chichesterensis	3	100	701254	7716267	19/03/2024

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	10000	701267	7714247	30/05/2025
Triodia chichesterensis	3	300	701306	7715214	15/03/2024
Triodia chichesterensis	3	100	701310	7715637	15/03/2024
Triodia chichesterensis	3	100	701318	7715661	15/03/2024
Triodia chichesterensis	3	1	701322	7717672	7/04/2025
Triodia chichesterensis	3	100	701380	7716000	19/03/2024
Triodia chichesterensis	3	200	701404	7715139	15/03/2024
Triodia chichesterensis	3	300	701410	7707326	31/05/2025
Triodia chichesterensis	3	1	701432	7704772	19/03/2024
Triodia chichesterensis	3	300	701434	7707333	31/05/2025
Triodia chichesterensis	3	200	701457	7715824	11/04/2024
Triodia chichesterensis	3	300	701459	7707344	31/05/2025
Triodia chichesterensis	3	300	701459	7707344	31/05/2025
Triodia chichesterensis	3	100	701472	7705514	9/04/2024
Triodia chichesterensis	3	300	701499	7715214	15/03/2024
Triodia chichesterensis	3	300	701539	7716066	15/03/2024
Triodia chichesterensis	3	300	701556	7708431	1/06/2025
Triodia chichesterensis	3	300	701564	7708431	1/06/2025
Triodia chichesterensis	3	10000	701606	7714121	30/05/2025
Triodia chichesterensis	3	300	701641	7707401	31/05/2025
Triodia chichesterensis	3	1000	701654	7713916	30/05/2025
Triodia chichesterensis	3	100	701656	7706053	9/04/2024
Triodia chichesterensis	3	1000	701662	7713967	30/05/2025
Triodia chichesterensis	3	1000	701664	7713975	30/05/2025
Triodia chichesterensis	3	300	701667	7707400	31/05/2025
Triodia chichesterensis	3	200	701690	7709971	11/03/2024
Triodia chichesterensis	3	100	701693	7709964	11/03/2024
Triodia chichesterensis	3	100	701796	7709839	11/03/2024
Triodia chichesterensis	3	100	701803	7705046	19/03/2024
Triodia chichesterensis	3	100	701851	7709757	13/04/2024
Triodia chichesterensis	3	100	701859	7709660	11/03/2024
Triodia chichesterensis	3	100	701861	7709610	11/03/2024
Triodia chichesterensis	3	100	701877	7705852	9/04/2024
Triodia chichesterensis	3	300	701883	7707543	31/05/2025
Triodia chichesterensis	3	300	701899	7707556	31/05/2025
Triodia chichesterensis	3	300	701911	7704693	19/03/2024
Triodia chichesterensis	3	100	701912	7705043	19/03/2024
Triodia chichesterensis	3	100	701925	7704556	9/04/2024
Triodia chichesterensis	3	100	702025	7709556	13/03/2024
Triodia chichesterensis	3	300	702026	7707681	31/05/2025
Triodia chichesterensis	3	300	702030	7704721	19/03/2024
Triodia chichesterensis	3	100	702039	7705748	9/04/2024
Triodia chichesterensis	3	100	702046	7707763	11/03/2024
Triodia chichesterensis	3	100	702082	7704706	9/04/2024
Triodia chichesterensis	3	100	702102	7709430	13/03/2024
Triodia chichesterensis	3	100	702124	7705509	18/03/2024
Triodia chichesterensis	3	100	702132	7709410	13/03/2024
Triodia chichesterensis	3	200	702133	7704746	19/03/2024
Triodia chichesterensis	3	10000	702164	7709923	29/05/2025
Triodia chichesterensis	3	200	702167	7709368	13/03/2024
Triodia chichesterensis	3	100	702191	7705622	9/04/2024
Triodia chichesterensis	3	30	702199	7704738	19/03/2024
Triodia chichesterensis	3	300	702253	7710817	31/05/2025
Triodia chichesterensis	3	100	702269	7707335	11/03/2024
Triodia chichesterensis	3	300	702273	7705956	18/03/2024

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	10000	702279	7710385	29/05/2025
Triodia chichesterensis	3	200	702288	7707331	12/04/2024
Triodia chichesterensis	3	30	702305	7704720	19/03/2024
Triodia chichesterensis	3	300	702316	7705988	18/03/2024
Triodia chichesterensis	3	300	702323	7710752	31/05/2025
Triodia chichesterensis	3	1	702333	7710329	28/05/2025
Triodia chichesterensis	3	300	702355	7710754	31/05/2025
Triodia chichesterensis	3	300	702418	7706054	18/03/2024
Triodia chichesterensis	3	100	702450	7707155	11/03/2024
Triodia chichesterensis	3	100	702473	7718458	14/03/2024
Triodia chichesterensis	3	500	702491	7707788	17/03/2024
Triodia chichesterensis	3	10000	702493	7710971	29/05/2025
Triodia chichesterensis	3	100	702505	7703366	31/05/2025
Triodia chichesterensis	3	500	702536	7707808	17/03/2024
Triodia chichesterensis	3	10000	702553	7711215	28/05/2025
Triodia chichesterensis	3	100	702588	7707085	17/03/2024
Triodia chichesterensis	3	100	702589	7706055	18/03/2024
Triodia chichesterensis	3	100	702604	7707002	11/03/2024
Triodia chichesterensis	3	100	702693	7708908	13/03/2024
Triodia chichesterensis	3	100	702708	7707060	15/03/2024
Triodia chichesterensis	3	100	702714	7705988	18/03/2024
Triodia chichesterensis	3	100	702715	7708882	13/03/2024
Triodia chichesterensis	3	500	702733	7707818	17/03/2024
Triodia chichesterensis	3	100	702808	7705992	18/03/2024
Triodia chichesterensis	3	100	702811	7706401	11/03/2024
Triodia chichesterensis	3	100	702811	7706401	11/03/2024
Triodia chichesterensis	3	100	702834	7707078	15/03/2024
Triodia chichesterensis	3	100	702835	7706150	11/03/2024
Triodia chichesterensis	3	100	702844	7706007	11/03/2024
Triodia chichesterensis	3	250	702849	7706073	12/03/2024
Triodia chichesterensis	3	1000	702851	7710315	28/05/2025
Triodia chichesterensis	3	100	702862	7708782	13/03/2024
Triodia chichesterensis	3	10	702883	7704941	12/03/2024
Triodia chichesterensis	3	1	702920	7703532	6/04/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702966	7702999	31/05/2025
Triodia chichesterensis	3	100	702975	7705883	18/03/2024
Triodia chichesterensis	3	100	702983	7702997	31/05/2025
Triodia chichesterensis	3	390	702998	7705964	18/03/2024
Triodia chichesterensis	3	100	703017	7708685	13/03/2024
Triodia chichesterensis	3	100	703055	7707025	15/03/2024
Triodia chichesterensis	3	1000	703067	7718674	30/05/2025
Triodia chichesterensis	3	200	703082	7706979	15/03/2024
Triodia chichesterensis	3	100	703083	7703001	31/05/2025
Triodia chichesterensis	3	1	703155	7717603	7/04/2025
Triodia chichesterensis	3	100	703164	7708844	13/03/2024
Triodia chichesterensis	3	500	703262	7711187	28/05/2025
Triodia chichesterensis	3	100	703325	7702916	31/05/2025
Triodia chichesterensis	3	100	703348	7707376	17/03/2024
Triodia chichesterensis	3	100	703376	7702904	31/05/2025

Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	100	703414	7707084	15/03/2024
Triodia chichesterensis	3	2000	703459	7710319	28/05/2025
Triodia chichesterensis	3	500	703472	7715546	30/05/2025
Triodia chichesterensis	3	200	703472	7706831	10/04/2024
Triodia chichesterensis	3	300	703547	7707903	17/03/2024
Triodia chichesterensis	3	50	703581	7707378	15/03/2024
Triodia chichesterensis	3	10000	703589	7715500	30/05/2025
Triodia chichesterensis	3	50	703615	7704809	10/04/2024
Triodia chichesterensis	3	100	703638	7707601	17/03/2024
Triodia chichesterensis	3	100	703653	7709069	13/03/2024
Triodia chichesterensis	3	300	703654	7707926	17/03/2024
Triodia chichesterensis	3	100	703673	7708523	13/03/2024
Triodia chichesterensis	3	50	703752	7707391	15/03/2024
Triodia chichesterensis	3	100	703753	7707704	17/03/2024
Triodia chichesterensis	3	300	703758	7708014	17/03/2024
Triodia chichesterensis	3	1000	703793	7718583	30/05/2025
Triodia chichesterensis	3	250	703794	7708564	13/03/2024
Triodia chichesterensis	3	100	703819	7707724	17/03/2024
Triodia chichesterensis	3	10000	703866	7715420	30/05/2025
Triodia chichesterensis	3	100	703868	7709157	13/03/2024
Triodia chichesterensis	3	300	703871	7708103	17/03/2024
Triodia chichesterensis	3	100	703941	7707091	15/03/2024
Triodia chichesterensis	3	1000	703943	7713625	29/05/2025
Triodia chichesterensis	3	100	703954	7702932	31/05/2025
Triodia chichesterensis	3	300	703954	7708188	17/03/2024
Triodia chichesterensis	3	5000	703966	7707059	10/04/2024
Triodia chichesterensis	3	300	703973	7708224	17/03/2024
Triodia chichesterensis	3	10000	703974	7712128	29/05/2025
Triodia chichesterensis	3	500	703984	7711116	28/05/2025
Triodia chichesterensis	3	1000	703987	7713417	29/05/2025
Triodia chichesterensis	3	1000	703987	7713417	29/05/2025
Triodia chichesterensis	3	1	704033	7713352	29/05/2025
Triodia chichesterensis	3	300	704035	7707078	15/03/2024
Triodia chichesterensis	3	300	704046	7708305	17/03/2024
Triodia chichesterensis	3	500	704051	7707496	15/03/2024
Triodia chichesterensis	3	100	704055	7702979	31/05/2025
Triodia chichesterensis	3	300	704115	7708318	17/03/2024
Triodia chichesterensis	3	500	704127	7707520	15/03/2024
Triodia chichesterensis	3	300	704272	7708391	17/03/2024
Triodia chichesterensis	3	100	704277	7702942	31/05/2025
Triodia chichesterensis	3	10000	704292	7715233	30/05/2025
Triodia chichesterensis	3	1	704305	7715254	30/05/2025
Triodia chichesterensis	3	10000	704308	7712130	29/05/2025
Triodia chichesterensis	3	2000	704346	7706682	10/04/2024
Triodia chichesterensis	3	100	704399	7708401	13/03/2024
Triodia chichesterensis	3	100	704463	7707965	17/03/2024
Triodia chichesterensis	3	100	704467	7704699	14/03/2024
Triodia chichesterensis	3	500	704481	7707566	15/03/2024
Triodia chichesterensis	3	5000	704501	7706921	10/04/2024
Triodia chichesterensis	3	50	704512	7705218	14/03/2024
Triodia chichesterensis	3	100	704519	7704697	14/03/2024
Triodia chichesterensis	3	2000	704579	7706698	10/04/2024
Triodia chichesterensis	3	100	704622	7720971	16/03/2024
Triodia chichesterensis	3	100	704627	7715022	30/05/2025
Triodia chichesterensis	3	50	704725	7705102	14/03/2024

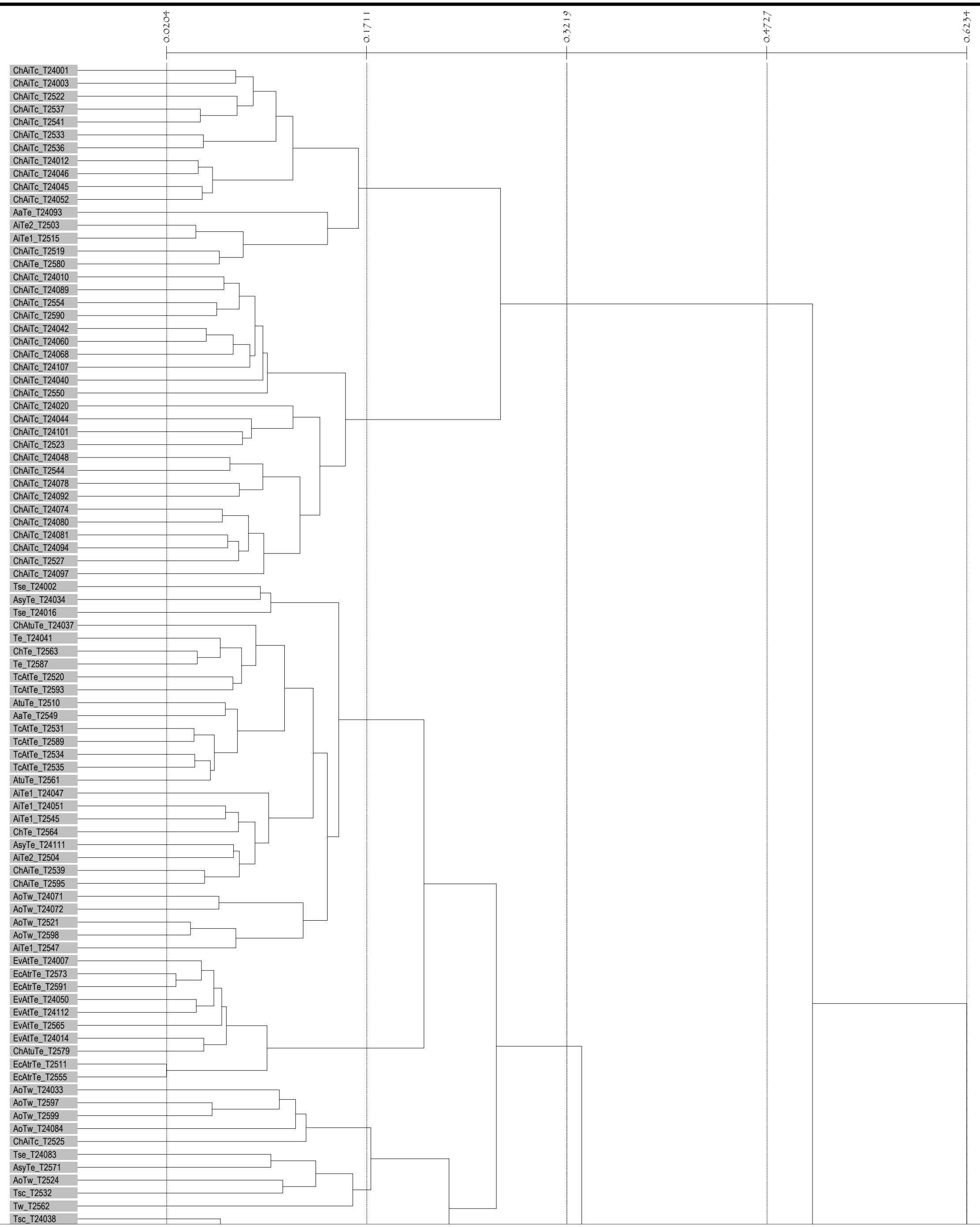
Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	500	704880	7718464	28/05/2025
Triodia chichesterensis	3	5	704925	7704395	10/04/2024
Triodia chichesterensis	3	100	705051	7721686	16/03/2024
Triodia chichesterensis	3	100	705216	7702952	31/05/2025
Triodia chichesterensis	3	100	705216	7702952	31/05/2025
Triodia chichesterensis	3	100	705239	7702954	31/05/2025
Triodia chichesterensis	3	100	705351	7702986	31/05/2025
Triodia chichesterensis	3	500	705553	7707817	15/03/2024
Triodia chichesterensis	3	500	705640	7707806	15/03/2024
Triodia chichesterensis	3	300	705667	7706230	18/03/2024
Triodia chichesterensis	3	200	705692	7707859	15/03/2024
Triodia chichesterensis	3	100	705697	7706178	18/03/2024
Triodia chichesterensis	3	500	705765	7707864	15/03/2024
Triodia chichesterensis	3	100	706432	7705206	10/04/2024
Triodia chichesterensis	3	50	706485	7703403	27/05/2025
Triodia chichesterensis	3	50	706501	7703321	27/05/2025
Triodia chichesterensis	3	100	706523	7703634	29/05/2025
Triodia chichesterensis	3	500	706537	7703301	27/05/2025
Triodia chichesterensis	3	500	706892	7716392	28/05/2025
Triodia chichesterensis	3	300	706913	7703635	31/05/2025
Triodia chichesterensis	3	500	706930	7716516	28/05/2025
Triodia chichesterensis	3	500	707066	7716652	28/05/2025
Triodia chichesterensis	3	500	707066	7716650	28/05/2025
Triodia chichesterensis	3	50	707070	7705027	29/05/2025
Triodia chichesterensis	3	300	707129	7705902	29/05/2025
Triodia chichesterensis	3	100	707138	7705512	29/05/2025
Triodia chichesterensis	3	100	707148	7705492	29/05/2025
Triodia chichesterensis	3	300	707214	7706032	29/05/2025
Triodia chichesterensis	3	300	707299	7706337	29/05/2025
Triodia chichesterensis	3	300	707299	7706337	29/05/2025
Triodia chichesterensis	3	300	707299	7706337	29/05/2025
Triodia chichesterensis	3	300	707309	7709930	31/05/2025
Triodia chichesterensis	3	100	707327	7706752	29/05/2025
Triodia chichesterensis	3	100	707331	7706743	29/05/2025
Triodia chichesterensis	3	300	707400	7709938	31/05/2025
Triodia chichesterensis	3	300	707437	7709931	31/05/2025
Triodia chichesterensis	3	500	707533	7703035	27/05/2025
Triodia chichesterensis	3	200	707788	7705583	29/05/2025
Triodia chichesterensis	3	200	707788	7705583	29/05/2025
Triodia chichesterensis	3	200	707805	7705596	29/05/2025
Triodia chichesterensis	3	200	707805	7704638	29/05/2025
Triodia chichesterensis	3	300	707812	7709992	31/05/2025
Triodia chichesterensis	3	200	707812	7704640	29/05/2025
Triodia chichesterensis	3	200	707823	7706385	29/05/2025
Triodia chichesterensis	3	200	707826	7705654	29/05/2025
Triodia chichesterensis	3	300	707836	7709999	31/05/2025
Triodia chichesterensis	3	300	708003	7710053	31/05/2025
Triodia chichesterensis	3	200	708187	7706868	29/05/2025
Triodia chichesterensis	3	200	708305	7707036	29/05/2025
Triodia chichesterensis	3	200	708305	7707036	29/05/2025
Triodia chichesterensis	3	200	708312	7707042	29/05/2025
Triodia chichesterensis	3	300	708348	7704478	31/05/2025
Triodia chichesterensis	3	300	708348	7704478	31/05/2025
Triodia chichesterensis	3	300	708348	7704478	31/05/2025
Triodia chichesterensis	3	300	708488	7704531	31/05/2025

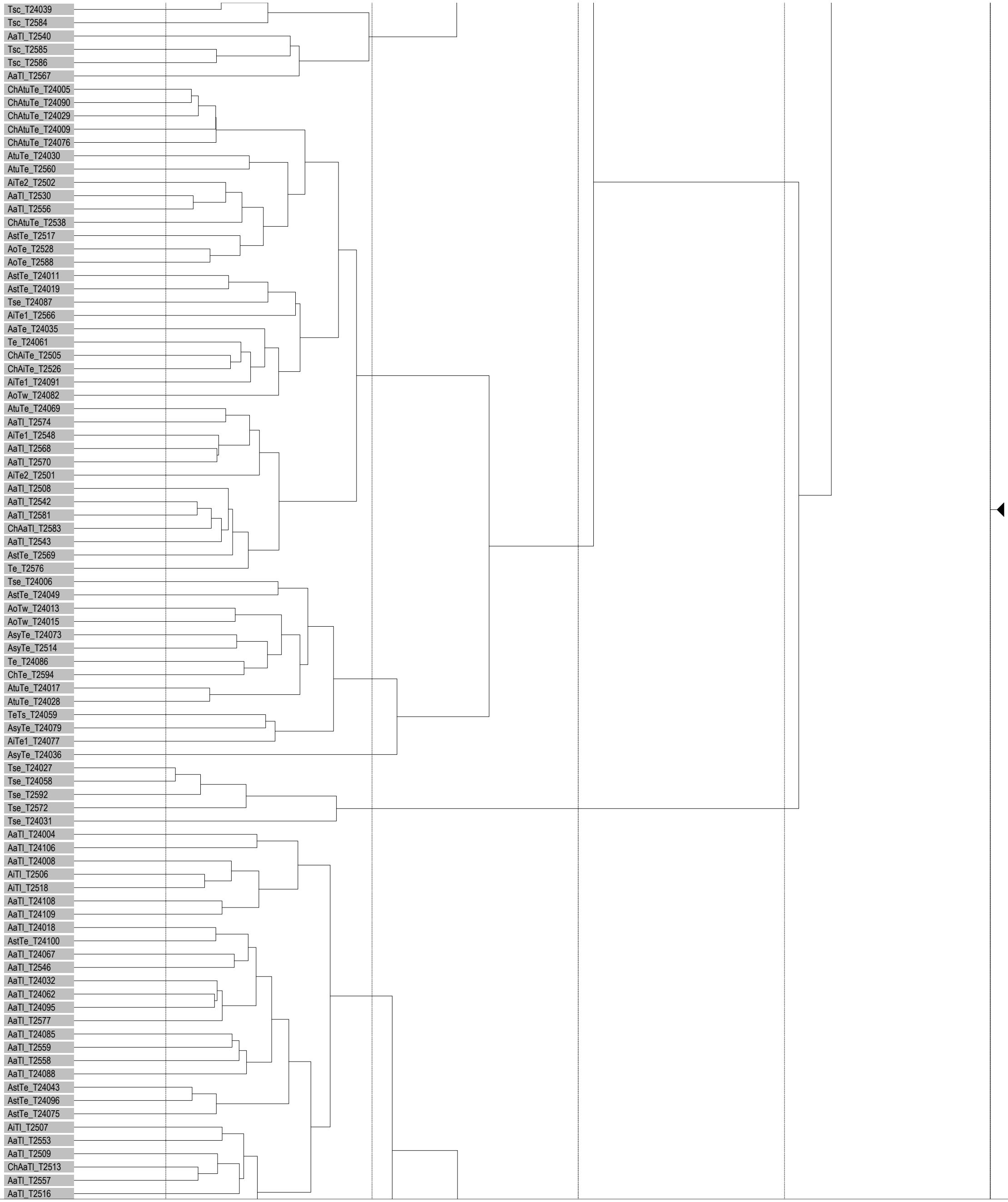
Species	Cons.	Count	Easting	Northing	Date
Triodia chichesterensis	3	300	708490	7704535	31/05/2025
Triodia chichesterensis	3	100	708591	7704518	31/05/2025
Triodia chichesterensis	3	200	708603	7707498	29/05/2025
Triodia chichesterensis	3	200	708603	7707497	29/05/2025
Triodia chichesterensis	3	200	708706	7707615	29/05/2025
Triodia chichesterensis	3	20	708712	7707623	29/05/2025
Triodia chichesterensis	3	200	708875	7708811	29/05/2025
Triodia chichesterensis	3	200	708938	7707947	29/05/2025
Triodia chichesterensis	3	10	708994	7727933	17/03/2024
Triodia chichesterensis	3	200	709081	7708187	29/05/2025
Triodia chichesterensis	3	200	709084	7708195	29/05/2025
Triodia chichesterensis	3	200	709136	7708988	29/05/2025
Triodia chichesterensis	3	200	709149	7708262	29/05/2025
Triodia chichesterensis	3	200	709155	7708265	29/05/2025
Triodia chichesterensis	3	200	709206	7708349	29/05/2025
Triodia chichesterensis	3	200	709213	7708353	29/05/2025
Triodia chichesterensis	3	200	709355	7708671	29/05/2025
Triodia chichesterensis	3	300	709572	7709721	31/05/2025
Triodia chichesterensis	3	100	709615	7728139	13/03/2024
Triodia chichesterensis	3	100	709867	7730504	13/03/2024
Triodia chichesterensis	3	100	709946	7728817	13/03/2024
Triodia chichesterensis	3	100	709970	7729663	13/03/2024
Triodia chichesterensis	3	100	711371	7723402	28/05/2025
Triodia chichesterensis	3	1	712692	7725053	9/04/2025

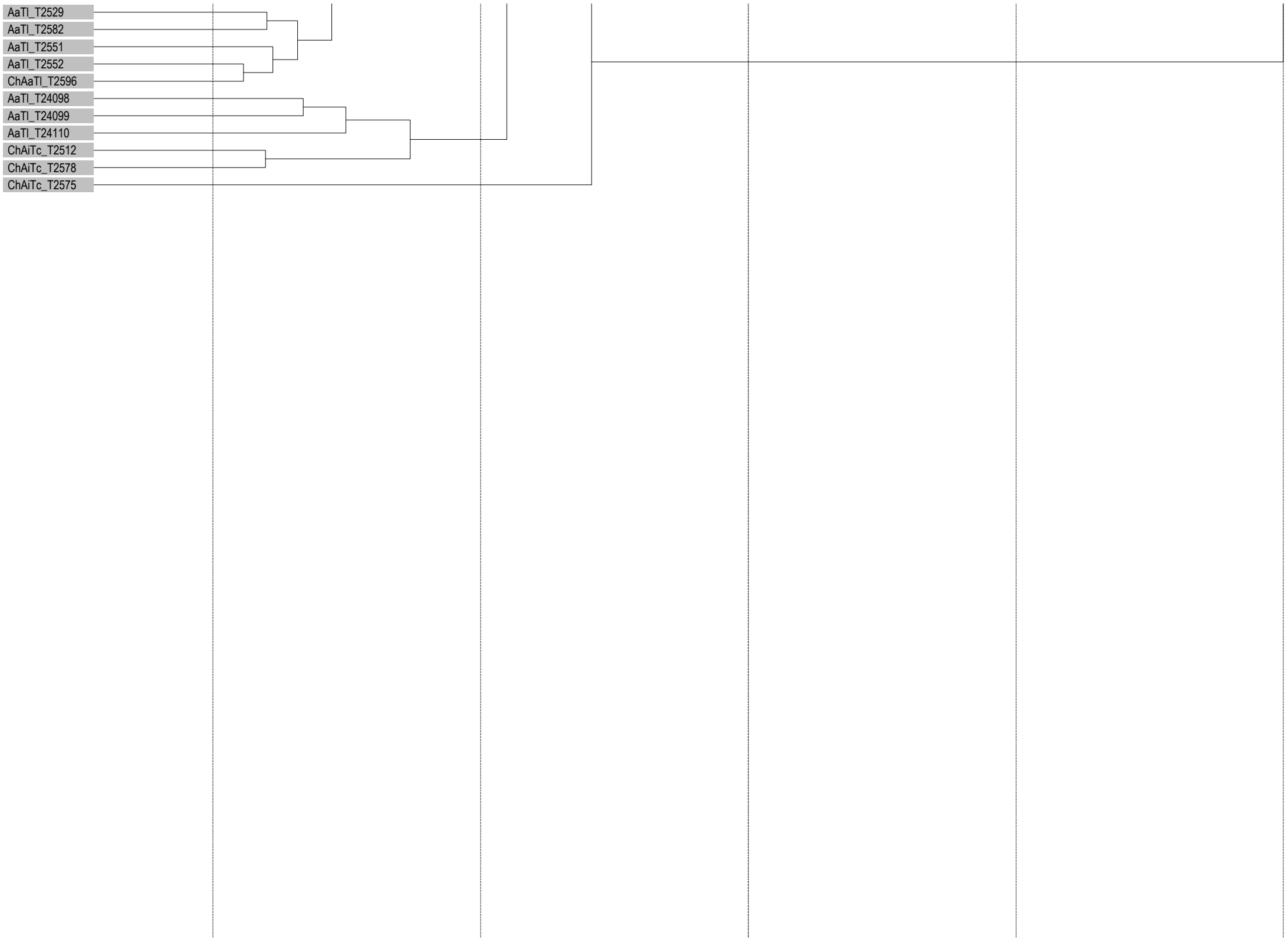
APPENDIX SEVEN FLORISTIC ANALYSIS DENDROGRAM

Fusion Type: Flexible UPGMA Beta = -0.10
On Association: Two-Step (Columns) Created on: 13:16:10, September 15, 2025

Column Fusion Dendrogram




Tsc_T24039
Tsc_T2584
AaTl_T2540
Tsc_T2585
Tsc_T2586
AaTl_T2567
ChAtuTe_T24005
ChAtuTe_T24090
ChAtuTe_T24029
ChAtuTe_T24009
ChAtuTe_T24076
AtuTe_T24030
AtuTe_T2560
AiTe2_T2502
AaTl_T2530
AaTl_T2556
ChAtuTe_T2538
AstTe_T2517
AoTe_T2528
AoTe_T2588
AstTe_T24011
AstTe_T24019
Tse_T24087
AiTe1_T2566
AaTe_T24035
Te_T24061
ChAiTe_T2505
ChAiTe_T2526
AiTe1_T24091
AoTw_T24082
AtuTe_T24069
AaTl_T2574
AiTe1_T2548
AaTl_T2568
AaTl_T2570
AiTe2_T2501
AaTl_T2508
AaTl_T2542
AaTl_T2581
ChAaTl_T2583
AaTl_T2543
AstTe_T2569
Te_T2576
Tse_T24006
AstTe_T24049
AoTw_T24013
AoTw_T24015
AsyTe_T24073
AsyTe_T2514
Te_T24086
ChTe_T2594
AtuTe_T24017
AtuTe_T24028
TeTs_T24059
AsyTe_T24079
AiTe1_T24077
AsyTe_T24036
Tse_T24027
Tse_T24058
Tse_T2592
Tse_T2572
Tse_T24031
AaTl_T24004
AaTl_T24106
AaTl_T24008
AiTl_T2506
AiTl_T2518
AaTl_T24108
AaTl_T24109
AaTl_T24018
AstTe_T24100
AaTl_T24067
AaTl_T2546
AaTl_T24032
AaTl_T24062
AaTl_T24095
AaTl_T2577
AaTl_T24085
AaTl_T2559
AaTl_T2558
AaTl_T24088
AstTe_T24043
AstTe_T24096
AstTe_T24075
AiTl_T2507
AaTl_T2553
AaTl_T2509
ChAaTl_T2513
AaTl_T2557
AaTl_T2516


AaTl_T2529
AaTl_T2582
AaTl_T2551
AaTl_T2552
ChAaTl_T2596
AaTl_T24098
AaTl_T24099
AaTl_T24110
ChAiTc_T2512
ChAiTc_T2578
ChAiTc_T2575