



Detailed Flora and Vegetation Assessment

Turner River Consolidated

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Basis of Report

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

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

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Executive Summary

Fortescue Ltd commissioned SLR Consulting Australia Pty Ltd to undertake three detailed flora and vegetation surveys over three consecutive years (2022-2024), in three adjacent Survey Areas. This report represents the consolidated results of all three surveys, known as the Turner River Consolidated Project Area. The three surveys were all conducted by SLR Consulting (in 2022 referred to as 360 Environmental part of SLR Consulting), with consistent personnel.

The Turner River Consolidated Project Area covers approximately 11,057ha and is located approximately 120 km south of Port Hedland in the Pilbara bioregion of Western Australia.

The purpose of the surveys was to identify key flora and vegetation values within the Project Area and to inform the Environmental Impact Assessment process for the defined area. This report presents the consolidated results of the flora and vegetation surveys undertaken to support the above objectives.

The desktop assessment identified 25 conservation significant flora taxa occurring within 50 km of the Project Area. A pre-survey likelihood of occurrence assessment was undertaken and determined six conservation significant flora taxa already recorded within the area, nine taxa as having a high likelihood of occurrence, three taxa as having a medium likelihood of occurrence, and seven taxa as having a low likelihood of occurrence. It also identified a single Priority Ecological Community, the Gregory Land System, which is identified by linear sand dunes which were not present in the Project Area.

The three consolidated detailed flora and vegetation surveys recorded the floristic composition and vegetation types from 177 flora sites (96 quadrats, 81 relevés), mapping notes and opportunistic observations. A total of 463 flora taxa were recorded from 175 genera across 60 families.

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

Twelve Priority flora were recorded within the Project Area:

- *Neptunia longipila* (P2) – 201 individuals
- *Euphorbia clementii* (P3) – 1,904 individuals
- *Euploca mutica* (P3) – 695 individuals
- *Goodenia obscurata* (P3) – 1 individual
- *Gymnanthera cunninghamii* (P3) – 58 individuals
- *Nicotiana umbratica* (P3) – 209 individuals
- *Phyllanthus hebecarpus* (P3) – 189 individuals
- *Rothia indica* subsp. *australis* (P3) – 2 individuals
- *Triodia basitricha* (P3) – 2,115 individuals
- *Triodia chichesterensis* (P3) – ~121,416 individuals
- *Bulbostylis burbridgeae* (P4) – 633 individuals
- *Ptilotus mollis* (P4) – 15 individuals.

Two of these (*N. longipila*, and *G. obscurata*) were not identified in the database searches as they have only recently been described (following the surveys they were recorded in) and were identified following a review of literature and specimens.



Six taxa recorded were considered to be potentially novel taxa based on anomalous features:

- *Amaranthus* aff. *interruptus*
- *Bonamia pilbarensis* (tight indumentum form)
- *Eriachne* sp. Coongan Station (A.A. Mitchell PRP1566)
- *Polymeria* sp. stoloniferous
- *Solanum* aff. *cleistogamum*
- *Trianthema* aff. *oxycalyptum*

Of these, SLR believes that *Amaranthus* aff. *interruptus* and *Eriachne* sp. Coongan Station (A.A. Mitchell PRP1566) have the potential to be considered conservation significant.

Eleven introduced flora taxa were recorded during the surveys. Of these, **Opuntia ?stricta* (Common Prickly pear) is listed as a Weed of National Significance and a Declared Pest and **Calotropis procera* (Calotrope) is listed as a Declared Pest. The remaining nine weed taxa are relatively common across the Pilbara. Weed density was highest among the major drainages, facilitated by cattle.

Twenty three vegetation types were described and mapped across five broad landforms (clay, drainage, hills, outcroppings, and plains) within the Project Area. Vegetation in the Project Area was dominated by open sandy plains, with small expressions of granite boulders, and intersected by minor to major drainage. A fire in January 2022 affected ~41.55% of the Project Area, which affected vegetation mapping reliability. The area was sampled with flora quadrats in unburnt areas and mapped with regrowing juvenile individuals where possible.

No vegetation types mapped within the Project Area were considered analogous to any state or federally listed TECs or PECs.

One vegetation type (MaAcpCi) was dominated by the *Melaleuca argentea* and considered to be Groundwater Dependent Vegetation. Three further vegetation types (EcAtTe, EcMgTlo, and EvAtTlo) were dominated by either *Eucalyptus camaldulensis* subsp. *refulgens*, or *E. victrix*, and considered to be Potentially Groundwater Dependent Vegetation.

Seven vegetation types were considered to be locally significant due to either supporting numerous significant flora (ChAaTc, ChAspTe, TcAtpTla, GwAaTs, AsyAISf, and AspTba), or having a limited distribution in the Project Area (ChAaTs), or both.

Vegetation condition within the Project Area ranged from Excellent to Degraded (excluding cleared areas) with the majority considered to be in Excellent condition. Evidence of disturbance included weeds, cattle, and existing roads and infrastructure.



Table of Contents

Basis of Report	i
Executive Summary	ii
Acronyms and Abbreviations	viii
1.0 Introduction	1
1.1 The Project.....	1
1.2 Objectives and Scope	1
2.0 Background	2
2.1 Protection of Flora and Vegetation	2
2.2 Climate	2
2.3 Interim Biogeographic Regionalisation of Australia	6
2.4 Soil Landscapes and Land Systems.....	6
2.5 Hydrography.....	7
2.6 Broad Vegetation Associations.....	8
2.7 Environmentally Sensitive and Conservation Areas.....	9
3.0 Methods	10
3.1 Desktop Assessment.....	10
3.1.1 Literature Review	10
3.1.2 Database Searches	10
3.1.3 Likelihood of Occurrence	11
3.2 Field Survey	12
3.2.1 Survey Timing	12
3.2.2 Field Personnel	13
3.2.3 Establishment of Flora Sites	13
3.2.4 Opportunistic Flora	14
3.2.5 Targeted Searching	14
3.2.6 Taxonomy and Nomenclature.....	14
3.2.7 Vegetation Unit and Condition Mapping	15
3.3 Statistical Analysis.....	15
3.3.1 Multivariate Analysis.....	15
3.3.2 Species Accumulation Curve.....	15
4.0 Results	16
4.1 Limitations.....	16
4.2 Desktop Assessment.....	18
4.2.1 Literature Review	18
4.2.2 Database Searches	18



4.2.3 Likelihood of Occurrence	18
4.3 Field Survey	19
4.3.1 Flora Composition	19
4.3.2 Flora of Significance	19
4.3.3 Introduced Flora	38
4.3.4 Unconfirmed Flora	40
4.3.5 Vegetation Types	40
4.3.6 Vegetation Condition	54
4.3.7 Fire History	54
4.3.8 Vegetation of Significance	56
4.4 Statistical Analysis	57
4.4.1 Floristics	57
4.4.2 Survey Adequacy	58
5.0 Discussion	60
5.1 Flora Composition	60
5.2 Flora of Conservation Significance	60
5.3 Flora of Other Significance	63
5.4 Introduced Flora	64
5.5 Vegetation Types and Mapping Reliability	64
5.6 Vegetation of Conservation Significance	64
5.7 Survey Adequacy	65
6.0 Conclusion	67
7.0 References	68

Tables in Text

Table 1: Summary of the Project Area	1
Table 2: Rainfall and Temperature Comparisons to Long-Term Data for TR, TRW and TRA 5	
Table 3: Land Systems within the Project Area	6
Table 4: Hydrographical Features in the Vicinity of the Project Area	7
Table 5: Broad Vegetation Associations within the Turner River Consolidated Project Areas and their Representation at the State, Regional and Local Levels (Government of Western Australia, 2019)	8
Table 6: Database Searches of the Project Area	11
Table 7: Likelihood of Occurrence Criteria	12
Table 8: Field Trips	12
Table 9: Field Personnel	13
Table 10: Limitations and Constraints Associated with the Survey	16



Table 11: Summary of Significant Flora in the Project Area.....	20
Table 12: Introduced Flora Species within the Project Area	39
Table 13: Summary of Vegetation in the Project Area	41
Table 14: Vegetation Types Occurring within the Project Area.....	42
Table 15: Vegetation Condition within the Project Area.....	54
Table 16: Project Area Burn History	55
Table 17: Locally Significant Vegetation Units in the Project Area.....	57
Table 18: Count of Flora Sites in the Project Area.....	58
Table 19: Species Richness Indicators	59

Plates in Text

Plate 1: <i>Euphorbia clementii</i> (P3) from the Project Area A) Habit among burnt plains, and B) flowers (SLR Consulting Australia, 2023).....	23
Plate 2: <i>Euploca mutica</i> (P3) from the Project Area A) Habit and habitat, and B) branch	24
Plate 3: <i>Gymnanthera cunninghamii</i> (P3) A) in drainage habitat and B) Branch.....	25
Plate 4: <i>Nicotiana umbratica</i> (P3) within the Project Area A) habit and habitat, and B) flower and calyx (SLR Consulting Australia, 2023).....	26
Plate 5: <i>Phyllanthus hebecarpus</i> (P3) within the TRW Survey Area A) habit and habitat, and B) flower and calyx (SLR Consulting Australia, 2023)	27
Plate 6: <i>Rothia indica</i> subsp. <i>australis</i> (P3) within the TRW Survey Area.....	28
Plate 7: <i>Triodia basitricha</i> (P3) A) Leaves and B) Hummock form within the TR Survey Area.	29
Plate 8: <i>Triodia chichesterensis</i> (P3) within the Project Area A) habit and habitat, and B) spikelets	30
Plate 9: <i>Bulbostylis burbridgeae</i> (P4) within the TRW Survey Area A) habit and habitat, and B) spikelets	31
Plate 10: <i>Ptilotus mollis</i> (P4) within the TR Survey Area	32
Plate 11: <i>Amaranthus</i> aff. <i>interruptus</i> A) Shaded habitat and B) Tepals from the Project Area	34
Plate 12: <i>Bonamia pilbarensis</i> (tight indumentum form) from the Project Area	34
Plate 13: <i>Eriachne</i> sp. Coongan station (A.A. Mitchell PRP 1566) Spikelet from the Project Area.....	35
Plate 14: <i>Polymeria</i> sp. (stoloniferous) within the Project Area A) growing on freshly burnt ground, and B) stoloniferous habit	35
Plate 15: <i>Solanum</i> aff. <i>cleistogamum</i> A) Fruiting calyx, and B) shrub habit in drainage habitat.....	36
Plate 16: <i>Trianthema</i> aff. <i>oxycalyptum</i> A) habit, and B) leaves, flower, and bud from the Project Area.....	36
Plate 17: <i>Polygala galeocephala</i> from the Project Area A) Habit and B) State distribution ..	37



Plate 18: <i>Zornia muelleriana</i> subsp. <i>congesta</i> from the Project Area A) Leaf and B) State distribution	37
Plate 19: <i>Portulaca digyna</i> from the Project Area A) Inflorescence and B) State distribution	38
Plate 20: Recently burnt vegetation in the TR Survey Area	55
Plate 21: Recently burnt vegetation in the TRW Survey Area.....	55

Appendices

Appendix A	Figures
Appendix B	Flora Literature Review
Appendix C	Database Search Results
Appendix D	Flora Likelihood of Occurrence Assessment
Appendix E	Vascular Flora from the Survey Area
Appendix F	Flora Site Data
Appendix G	Selected Inputs and Outputs of the Floristic Analysis



Acronyms and Abbreviations

BAM Act	<i>Biosecurity and Agriculture Management Act 2007</i>
BC Act	<i>Biodiversity Conservation Act 2016</i>
BoM	Bureau of Meteorology
°C	Degree Celsius
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DBCA	Department of Biodiversity, Conservation and Attractions
DoE	Department of Environment
DP	Declared Pest
DWER	Department of Water and Environmental Regulation
EIA	Environmental Impact Assessment
EP Act	<i>Environmental Protection Act 1986</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection Biodiversity and Conservation Act 1999</i>
ESA	Environmentally Sensitive Area
Fortescue	Fortescue Limited
GDV	Groundwater Dependent Vegetation
GIS	Geographic Information System
ha	Hectare
IBRA	Interim Biogeographic Regionalisation for Australia
IBSA	Index of Biodiversity Surveys for Assessments
km	Kilometres
m	Metres
mm	Millimetres
MNES	Matters of National Environmental Significance
NVIS	National Vegetation Information System
P	Priority
PEC	Priority Ecological Community
PGDV	Potentially Groundwater Dependent Vegetation
PMST	Protected Matters Search Tool
Project Area	The Consolidation of the three Survey Areas (TR, TRW, TRA)
SLR	SLR Consulting Australia Pty Ltd
Survey Area	One detailed two season flora survey
T	Threatened
TEC	Threatened Ecological Community
TPFL	Threatened and Priority Flora Database
TPFRF	Threatened and Priority Flora Report Forms



TR	Turner River (Previously North Star)
TRW	Turner River West (Previously North Star Junction West)
TRA	Turner River Additional (Previously North Star Additional)
TRC	Turner River Consolidated
WA	Western Australia
WAH	Western Australian Herbarium
WoNS	Weeds of National Significance



1.0 Introduction

1.1 The Project

Fortescue Ltd (Fortescue) commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake a detailed flora and vegetation survey for a potential solar farm development at Turner River (The Project). The Project consisted of three surveys conducted over three years, each surveyed over two phases (Table 1). In 2022 the original Turner River (TR) survey was undertaken (then called North Star), in 2023 the Turner River West (TRW) survey was undertaken (then called North Star West), and in 2024 the Turner River Additional (TRA) survey was undertaken. The three surveys have been combined and consolidated to achieve floristic alignment and are collectively referred to as the Turner River Consolidated (TRC) Project Area.

The Project Area is located approximately 25 km west of Iron Bridge and 120 km south of Port Hedland (Figure 1), and covers a total of 11,057 ha.

Table 1: Summary of the Project Area

Survey Area	Year of Survey	Total Area (ha)	Percentage of Consolidated Total
Turner River	2022	4,757.00	43.02 %
Turner River West	2023	4,532.89	40.99 %
Turner River Additional	2024	1,767.73	15.99 %
Turner River Consolidated	-	11,057.62	-

1.2 Objectives and Scope

The purpose of the survey was to identify key flora and vegetation values within the Project Area and to inform the Environmental Impact Assessment (EIA) process for the Project Area.

The scope of works was the same for each survey, to:

- Undertake a Desktop Assessment including relevant database searches and a literature review to compile and summarise existing records of flora and vegetation in the vicinity of the Survey Area
- Undertake a two-phase detailed flora and vegetation survey to identify and describe the vegetation and flora occurring within the Survey Area
- Undertake targeted searching for flora of conservation significance within the Survey Area
- Produce a flora and vegetation technical report
- Supply a geospatial data package prepared in accordance with Fortescue and Index of Biodiversity Surveys for Assessments (IBSA) requirements.

This report presents the outcomes of the flora and vegetation surveys undertaken to support the objectives outlined above.



2.0 Background

2.1 Protection of Flora and Vegetation

Western Australian (WA) flora and vegetation is formally protected by the following legislative measures:

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

In addition to these legislative measures, the WA Department of Biodiversity, Conservation and Attractions (DBCA) priority flora list provides a non-legislative list of possibly threatened, rare but not threatened or near threatened taxa.

In addition to these protection mechanisms, the Environmental Impact Assessment process is supported by various guidance documents published by the Environmental Protection Authority (EPA), DBCA and the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

Western Australia:

- Environmental Factor Guideline – Flora and Vegetation (EPA, 2016a)
- Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment (EPA, 2016b).

Commonwealth:

- Matters of National Environmental Significance – Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999 (Department of the Environment, 2013).

2.2 Climate

The closest long-term Bureau of Meteorology (BoM) weather station to the Project Area with a complete temperature and rainfall dataset is Port Hedland Airport (004032), located approximately 80 km north of the Project Area.

Climate statistics were calculated utilising data from the most current climate normal, which is defined as a 30-year interval (BoM, 2007), where possible. A climate normal is a period long enough to include year-to-year variations while avoiding the influence of longer-term changes in climate (BoM, 2007).

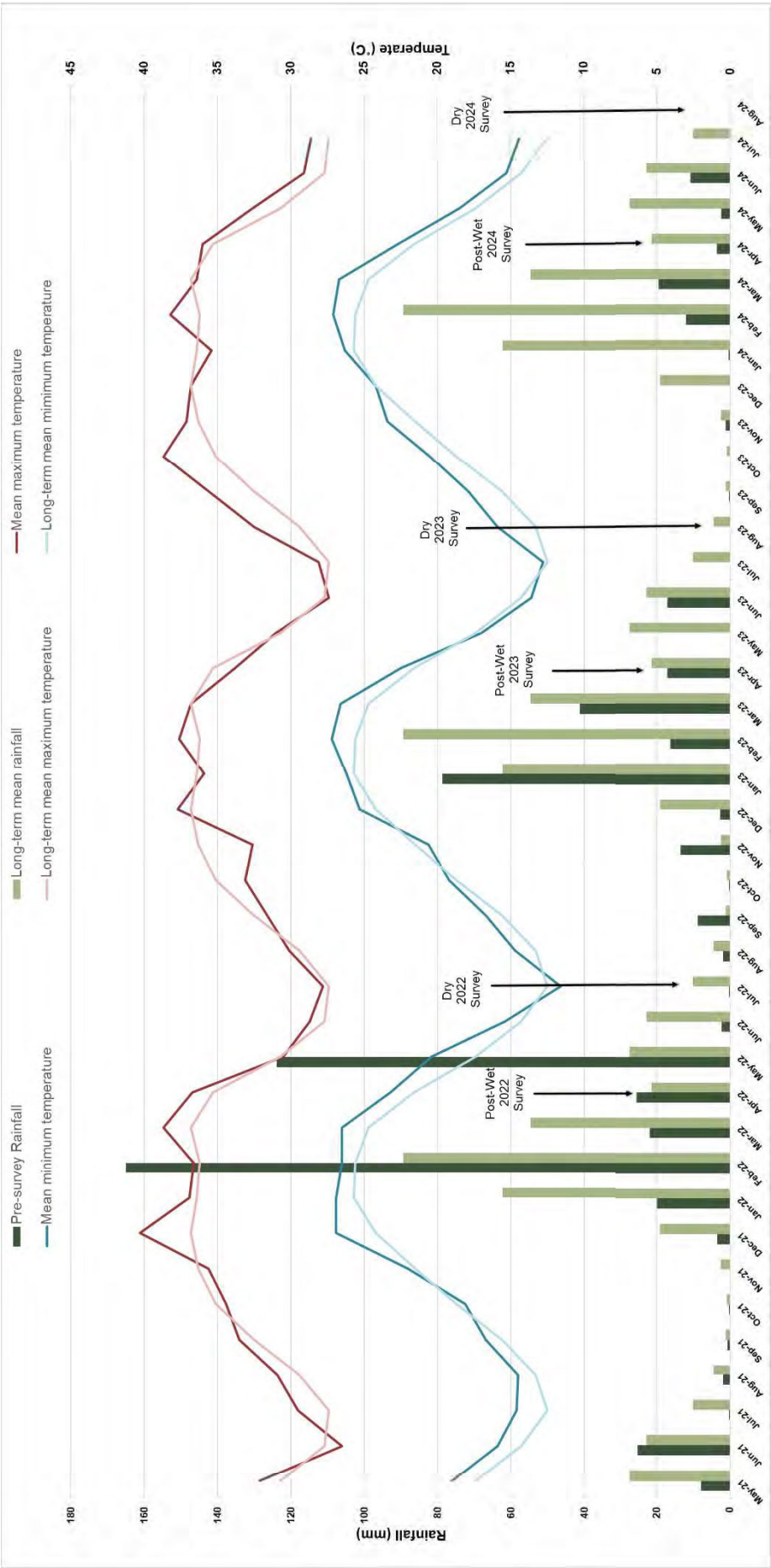
The long-term mean minimum temperature for Port Hedland Airport ranges from 13.1°C (July) to 26.0°C (January) (1991 to 2020) and the long-term mean maximum temperature ranges from 28.0°C (June and July) to 37.0°C (March) (Graph 1, Table 2) (BoM, 2024).



Long term and pre-survey rainfall and temperature data relevant to each of the six surveys is summarised below in Table 2. Rainfall – with the exception of the 3- and 12-month periods prior to the TRW Dry 2023 survey – fell short of the long-term averages across much of the 2 year survey period. This was particularly evident for the 2024 TRA surveys, where 3- and 12-month rainfall totals prior to the two surveys were up to 269 mm below the long-term average (Table 2). Average minimum and maximum temperatures were largely above average.

Higher than average temperatures and lower than average rainfall totals prior to the respective surveys is likely to have had some impact on the presence of some flora. In particular, low rainfall prior to the TRA post wet survey in April 2024 is likely to have impacted the suite of flora recorded during that survey.





Graph 1: Climate Summary of all Surveys



Table 2: Rainfall and Temperature Comparisons to Long-Term Data for TR, TRW and TRA

Survey & Season	Range	Mean Rainfall (mm)		Rainfall difference (mm)	Mean Maximum Temperature (°C)		Mean Minimum Temperature (°C)	
		Long-Term	Recent		Long-Term	Recent	Long-Term	Recent
TR Post-Wet (Apr 2022)	12 mths	337.1	331.4	-5.7	33.5	33.3	19.7	20.7
	3 mths	165.2	74.4	-90.8	36.1	36.1	24.0	25.4
TR Dry (Jun 2022)	12 mths	320.3	196.8	-123.5	33.1	32.9	19.1	19.9
	3 mths	37.4	17.0	-20.4	28.2	29.3	13.4	14.1
TRW Post-Wet (April 2023)	12 mths	334.3	271.2	-63.1	33.7	34.2	20.0	20.6
	3 mths	223.3	206.6	-16.7	36.6	37.4	25.6	26.6
TRW Dry (Aug 2023)	12 mths	334.6	387.2	52.6	36.6	34.2	21.8	22.7
	3 mths	117.8	171.0	53.2	34.7	35.3	21.6	23.4
TRA Post-Wet (Apr 2024)	12 mths	330.9	78.8	-252.1	33.8	34.3	20.1	20.7
	3 mths	227.3	31.8	-195.5	36.6	36.7	25.8	26.7
TRA Dry (Aug 2024)	12 mths	331.4	61.6	-269.8	33.8	34.8	20.2	21.1
	3 mths	58.6	13.2	-45.4	29.2	30.1	15.2	16.1



2.3 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (Department of the Environment and Energy, 2016). The Project Area occurs within the Pilbara bioregion and the Chichester (PIL01) subregion.

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

2.4 Soil Landscapes and Land Systems

Soil landscapes and land system mapping of WA describes broad soil and landscape characteristics from regional to local scales, ranging from 1:20,000 to 1:250,000 (DPIRD, 2018). The Project Area occurs across nine land systems (Table 3; Figure 2).

Table 3: Land Systems within the Project Area

Land System		Description	Extent within Project Area (ha) and Percent Coverage
Name	Code		
Turner River			
Boolaloo System	283Bo	Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs.	26.8 (0.6%)
Macroy System	280/283Mc	Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands.	1257.0 (26.4%)
River System	280Ri	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.	15.6 (0.3%)
Robe System	280Ro	Low plateaux, mesas and buttes of limonite supporting soft spinifex and occasionally hard spinifex grasslands	89.2 (1.9%)
Platform System	280PI	Dissected slopes and raised plains supporting shrubby hard spinifex grasslands	51.3 (1.1%)
Uaroo System	283Ua	Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs	1317.9 (27.7%)
Boolgeeda System	280Bg	Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands or Mulga shrublands	1952.05 (41.0%)



Land System		Description	Extent within Project Area (ha) and Percent Coverage
Name	Code		
Capricorn System	280Cp	Rugged sandstone hills, ridges, stony footslopes and interfluvies supporting low acacia shrublands or hard spinifex grasslands with scattered shrubs	47.2 (1.0%)
Turner River West			
Macroy System	280/283Mc	Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands.	2748.1 (60.6%)
River System	280Ri	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.	1.3 (0.01%)
Boolaloo System	283Bo	Granite hills, domes, tor fields and sandy plains supporting spinifex grasslands with scattered shrubs.	1783.5 (39.3%)
Turner River Additional			
Boolgeeda System	280Bg	Stony lower slopes and plains below hill systems supporting hard and soft spinifex grasslands or Mulga shrublands	16.3 (0.9%)
Macroy System	280/283Mc	Stony plains and occasional tor fields based on granite supporting hard and soft spinifex shrubby grasslands.	1289.5 (72.9%)
River System	280/283Ri	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.	248.5 (14.1%)
Talga System	280Ti	Hills and ridges of greenstone and chert and stony plains supporting hard and soft spinifex grasslands	107.7 (6.1%)
Uaroo System	283Ua	Broad sandy plains, pebbly plains and drainage tracts supporting hard and soft spinifex hummock grasslands with scattered acacia shrubs	105.8 (6.0%)

2.5 Hydrography

Hydrographic features intersecting and in the vicinity of the Project Area are described in Table 4 and shown in Figure 2 (DWER, 2018).

Table 4: Hydrographical Features in the Vicinity of the Project Area

Hydrographical Feature	Description
Turner River West	A major tributary located just West of TRW, flowing towards the north towards Port Hedland.



Hydrographical Feature	Description
Turner River	A minor river which flows from TRA north towards Port Hedland.
Significant Stream	A significant stream intersecting the Turner River and the southern portion of the TR Survey Area.
Gillam Creek	A minor, non-perennial tributary, intersecting the TR Survey Area.

2.6 Broad Vegetation Associations

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

Four broad vegetation system association occurs over the Project Area (Figure 3):

- **Abydos Plain - Chichester 93:** Hummock grassland with scattered shrubs or mallee *Triodia* spp. *Acacia* spp., *Grevillea* spp. *Eucalyptus* spp
- **Abydos Plain - Chichester 619:** Medium woodland; river gum (*Eucalyptus camaldulensis*)
- **Abydos Plain - Chichester 626:** Hummock grasslands, shrub steppe; kanji over soft spinifex and *Triodia brizoides*
- **George Ranges 82:** Hummock grasslands, low tree steppe; snappy gum over *Triodia wiseana*

Representation of the association at a local, regional, and state level is shown in Table 5.

Table 5: Broad Vegetation Associations within the Turner River Consolidated Project Areas and their Representation at the State, Regional and Local Levels
(Government of Western Australia, 2019)

Vegetation Association	Extent			
	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)
Representation across Western Australia				
Abydos Plain 93	3,044,309.52	3,040,640.98	99.88	1.96
Abydos Plain 619	119,373.78	118,205.01	99.02	0.20
Abydos Plain 626	117,724.44	117,198.13	99.55	15.66
George Ranges 82	2,565,901.28	2,553,206.19	99.51	11.57
Representation across the Pilbara Bioregion				
Abydos Plain 93	3,042,114.27	3,038,471.67	99.88	1.96
Abydos Plain 619	118,920.31	118,116.78	99.32	0.20
Abydos Plain 626	117,724.44	117,198.13	99.55	15.66
George Ranges 82	2,563,583.23	2,550,888.14	99.50	11.58
Representation across the Chichester (PIL01) Subregion				
Abydos Plain 93	2,940,348.04	2,936,731.54	99.88	-
Abydos Plain 619	85,543.15	85,520.95	99.97	0.28



Vegetation Association	Extent			
	Pre-European (ha)	Current (ha)	Remaining (%)	Managed in DBCA Lands (%)
Abydos Plain 626	117,724.44	117,198.13	99.55	15.66
George Ranges 82	360,666.90	360,322.69	99.90	-
Representation across the Shire of East Pilbara				
Abydos Plain 93	1,709,522.24	1,706,780.57	99.84	2.70
Abydos Plain 619	52,765.30	52,763.69	100.00	0.00
George Ranges 82	927,709.76	919,072.17	99.07	0.50

*as a portion of the current extent

2.7 Environmentally Sensitive and Conservation Areas

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

The Project Area is not identified within an ESA or Conservation Area and the nearest ESA/conservation area is shown in Figure 4 and listed below:

- Mungaroona Range Nature Reserve, located 50 km southwest of the Project Area and is vested under the Conservation Commission of Western Australia (DBCA, 2021).



3.0 Methods

The detailed flora and vegetation surveys documented by this report was undertaken in accordance with relevant EPA and DAWE guidelines (see section 2.1).

3.1 Desktop Assessment

3.1.1 Literature Review

Background information on the Project Area and surrounds was compiled prior to each field survey, and consolidated in this report. Historical vegetation mapping (Beard, 1976; Shepherd, Beeston, and Hopkins, 2002), land systems mapping (DPIRD, 2018), and the IBRA classification system (Kendrick & McKenzie, 2001) were consulted to provide broad contextual knowledge of the vegetation units and habitat likely to be encountered within the Project Area.

The literature review also considered a selection of biological reports detailing assessments undertaken in the region (Figure 5), that were either publicly available or provided by Fortescue:

- North Star Detailed Flora and Vegetation Survey (360 Environmental part of SLR Consulting, 2022) – Consolidated in this report as Turner River (2022)
- North Star Junction West Detailed Flora and Vegetation Survey (SLR Consulting, 2023) – Consolidated in this report as Turner River West (2023)
- Glacier Valley Extension Flora and Vegetation Survey, North Star Project (Ecoscape, 2018a)
- North Star Junction Flora and Fauna Assessments (Ecoscape, 2021)
- North Star Slurry and Infrastructure Corridors Conservation Significant Flora and Vegetation Assessment (Ecologia, 2015)
- North Star Vegetation and Flora Assessment (Ecologia, 2012)
- Pilbara Transmission Project Flora and Vegetation Desktop Assessment (Ecoscape, 2018b)
- Vegetation and Flora Survey of the Proposed FMG Stage A Rail Corridor (Biota Environmental Services, 2004)

3.1.2 Database Searches

Database searches were undertaken to compile a list of potential flora and identify potential significant ecological communities within or surrounding the Project Area (Table 6). In addition, an EPBC Protected Matters Search Tool (PMST) was undertaken to identify the potential for Matters of National Environmental Significance (MNES) to occur within or surrounding the Project Area (DAWE, 2020). All three surveys were conducted in such close proximity that a single set of database searches was used for all of them.



Table 6: Database Searches of the Project Area

Database Name	Date Received and Search Reference	Search Target	Buffer around the Project Area
Threatened and Priority Ecological Communities database search (Department of Biodiversity Conservation and Attractions, 2022)	5 April 2022 04_0322EC	TECs and PECs	50 km radial search buffer around a central point
Threatened and Priority Flora (TPFL) database search (DBCA, 2022b)	14 February 2022 19-0222FL_TPFL	Threatened and Priority flora	70 km radial search buffer around a central point
Western Australian Herbarium flora database search (DBCA, 2022c)	14 February 2022 19-0222FL_WAHerb	Threatened and Priority flora	70 km radial search buffer around a central point
NatureMap (DBCA, 2022a)	16 February 2022	Threatened and Priority flora	40 km radial search buffer around a central point
Protected Matters Search Tool (DAWE, 2022)	27 Mar 2023	Commonwealth listed flora and TECs	100 km radial search buffer around a central point

Currently listed Priority and Threatened Ecological Communities (PECs and TECs) that occur within the Pilbara bioregion were also examined to determine if any corresponded with the Project Area (DBCA, 2020; Department of Biodiversity Conservation and Attractions, 2018).

3.1.3 Likelihood of Occurrence

Significant flora species identified from the desktop assessment were assessed to determine the likelihood of their occurrence within the Project Area, both prior to and post field survey. The assessment was completed based on the likelihood of occurrence criteria presented in Table 7.

Only species either recorded within the Project Area or considered as having a high or medium likelihood of occurrence are discussed in detail. Species classified as having a low likelihood of occurrence based on the above criteria are not discussed unless a justification for this classification is required.



Table 7: Likelihood of Occurrence Criteria

Rank	Criteria
Previously Recorded	The species has been previously recorded in the Project Area
High (Likely to occur)	- There are existing records of the species in close proximity to the Project Area (within 20 km) - The species is strongly linked to a specific habitat, which is present in the Project Area; or - The species has more general habitat preferences, and suitable habitat is present.
Medium (May occur)	- There are existing records of the species from the locality (within 40 km), however - The species is strongly linked to a specific habitat, of which only a small amount is present in the Project Area; or - The species has more general habitat preferences, but only some suitable habitat is present. - There is suitable habitat in the Project Area, but the species is recorded infrequently in the locality.
Low (Unlikely to occur)	- The species is linked to a specific habitat, which is absent from the Project Area; or - Suitable habitat is present, however there are no existing records of the species from the locality despite reasonable previous search effort in suitable habitat; or - There is some suitable habitat in the Project Area, however the species is very infrequently recorded in the locality.

3.2 Field Survey

3.2.1 Survey Timing

The biological surveys were undertaken across two field trips to collect data from the Project Area (Table 8). Survey effort is demonstrated in Figure 6.

Table 8: Field Trips

Trip	Survey	Scope	Date	Person Field Days
1	Turner River	Detailed flora and vegetation survey phase 1 – Post-wet season	1 – 7 Apr 2022	28
2	Turner River	Detailed flora and vegetation survey phase 2 – Dry season	20 – 29 Jun 2022	36
3	Turner River West	Detailed flora and vegetation survey phase 1 – Post-wet season	29 Mar – 4 Apr 2023	14
4	Turner River West	Detailed flora and vegetation survey phase 2 – Dry season	18 – 24 Aug 2023	14
5	Turner River Additional	Detailed flora and vegetation survey phase 1 – Post-wet season	22 Apr – 28 Apr 2024	14
6	Turner River Additional	Detailed flora and vegetation survey phase 2 – Dry season	5 – 10 Aug 2024	12



3.2.2 Field Personnel

Field personnel and their roles for each of the trips are detailed in Table 9. The detailed flora and vegetation surveys were led by Principal Botanist Simon Colwill with 14 years' of experience conducting surveys of similar scope throughout Western Australia.

Table 9: Field Personnel

Personnel	Collection License	Role	Years Experience	Trips
Simon Colwill	FB62000037-2	Principal Botanist, Project Manager	14	1,2,3,4,5,6
Grant Buller	FB62000321-2	Senior Ecologist	5	1,2
Jack Hardie	FB62000389-2	Botanist	3	2,3,4,5,6
Megan Young	FB62000388	Botanist	3	1,2
Bridget Duncan	FB62000370	Botanist	2	1

3.2.3 Establishment of Flora Sites

Indicative flora sites were identified prior to the surveys using aerial photography, and adjacent available vegetation mapping, to estimate broad vegetation patterns within the Project Area. The location and number of flora sites completed were adjusted on site to achieve sites most representative of the vegetation present.

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

The flora sites comprised either quadrats or relevés. Quadrats were 50 x 50 m typically with corners aligned to northwest, northeast, southeast and southwest, and accurately measured using measuring tapes. As a minimum, the northwest corner of each quadrat was demarcated with an aluminium fence dropper and where possible a fence dropper was also installed in the southeast corner. Fence droppers were removed following completion of the quadrat as per Fortescue request. Relevés comprised unbounded sites of approximately 50 x 50 m where possible, or alternate configurations approximately equating to 2500 m² (as required in areas such as drainage lines, gullies, and narrow ridge lines). A comprehensive record of the flora present at the time of sampling was recorded for both quadrat and relevés sites, the primary difference between the site types being that relevés were not measured and bounded using tapes.

Flora site location was recorded using a handheld Unistrong UTM GPS tablet, with points recorded at each corner of a quadrat, the start and finish point of linear relevés, and the central point of circular relevés. At each flora site, the following was recorded using a Fulcrum mobile data collection device:

- Site code
- Date and personnel
- Landform and soil description
- Relevant site descriptors including slope, aspect, and estimated fire age
- Inventory of vascular flora including the approximate average height and percentage foliar cover for each taxon recorded



- Vegetation description in accordance with the National Vegetation Information System (NVIS), Level 5 'association', whereby the dominant growth form, height, cover and species (three species) for the three traditional strata (upper, mid, and ground) are described
- Vegetation condition in accordance with the Eremaean Botanical Provinces vegetation condition scale (EPA, 2016b), and evidence of disturbance (for example clearing, rubbish, feral animals, and weed incursion) where present
- Photograph of the vegetation occurring within the site.

A total of 177 flora sites (comprising 96 quadrats and 81 relevés) were established within the Project Area. An additional 1,131 combined mapping notes were completed to aid vegetation mapping delineation.

3.2.4 Opportunistic Flora

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

3.2.5 Targeted Searching

Prior to undertaking the survey, a list of significant flora with the likelihood or potential to occur within the Project Area was compiled (see section 4.2.3). Field personnel familiarised themselves with photographs, reference samples and descriptions of these taxa before conducting the survey.

The entire Project Area was not systematically searched. Rather, targeted searching focussed on habitat suitable for Threatened and Priority flora. Furthermore, potential habitat within the proposed footprint was prioritised for targeted searching over areas outside the proposed footprint.

Personnel also actively searched for significant flora species in and around flora sites, while traversing on foot within the Project Area and in known locations or preferred habitat encountered in the Project Area.

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

3.2.6 Taxonomy and Nomenclature

Where field identification of plant taxa was not possible, specimens were collected for identification using resources of the WAH. Identification of flora collections was completed by experienced Pilbara taxonomists Pierre-Louis de Kock and Simon Colwill.

The finalised species list was checked against FloraBase (DBCA, 2024) to determine the conservation status and known distribution of each taxon. Introduced species were compared against the current BAM Act Declared Plants list and the WoNS list to determine their control status (DCCEEW, 2024; DPIRD, 2024).



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

3.2.7 Vegetation Unit and Condition Mapping

Broad vegetation and condition mapping was conducted in the field, with boundaries delineated over aerial photography, at a scale of 1:5,000. Broad vegetation units were refined based on taxonomic identification of flora collections, statistical analysis of data collected from the quadrats and relevés, and mapping notes taken during the field survey. Vegetation condition mapping was refined based on site data and mapping notes. Finalised polygons were digitised and produced as electronic mapping data using GIS software.

3.3 Statistical Analysis

Statistical analysis of quadrat data was undertaken in accordance with EPA guidelines for a detailed flora and vegetation survey.

3.3.1 Multivariate Analysis

The vegetation composition of each quadrat was compared using cover class values for each species recorded and analysed using multivariate analysis tools in Primer v7. Cover values were tested for similarity using the Bray-Curtis coefficient. Vegetation units were defined based on approximately 40-80% similarity and distinguished visually in a dendrogram cluster analysis. The analysis was undertaken on a data matrix comprising 362 vascular flora taxa and 169 flora sites. Relevés were included in the analysis as they were undertaken with a high level of accuracy for this survey, the only difference from the quadrats being that they were not marked with the traditional four cardinal corners.

Singletons (flora taxa recorded at only one site) were excluded from the analysis because, due to the properties of the Bray-Curtis coefficient, they act as "indicators" for grouping and can therefore bias the results. However, if singletons were a dominant taxon within the site they were retained. Introduced taxa were removed as their presence is typically associated with a disturbance rather than representative of a vegetation unit. Unidentified or partially identified flora taxa were removed based on their ambiguity; exceptions were made for taxa that could not be identified but were confirmed to be the same across a number of sites.

Annual and ephemeral taxa were excluded in the analysis, and eight sites (NSQ88, NSR68, NSR69, NSR71, NSR73, NSR77, NSR81, NSR83) were excluded from the analysis due to recent fires.

3.3.2 Species Accumulation Curve

Species accumulation curves were plotted using Primer v7 to determine the adequacy of the surveys. The treatments comprised Sobs (Mao Tao), to reflect the number of species observed (based on a given total of species recorded), and richness estimators Chao 1, Chao 2, Jackknife 1, Bootstrap and Michaelis-Menton to predict the total number of flora taxa that could potentially be recorded. Species accumulation curves for this survey were calculated using data collected from the flora sites within the Project Area. All flora taxa, both annual and perennial, within each flora site were used in generating the species accumulation curve, except for unknown flora taxa that could only be tentatively identified.



4.0 Results

4.1 Limitations

Limitations and constraints of the flora and vegetation surveys are detailed below in Table 10.

Table 10: Limitations and Constraints Associated with the Survey

Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Availability of data and information	No	All data required to complete the scope of works including regional and local contextual information was available.
Competency and experience	No	The flora and vegetation field surveys were undertaken by teams with extensive experience in undertaking similar scopes within the bioregion. - Principal Botanist Simon Colwill – 14 years' experience - Senior Ecologist Grant Buller – 5 years' experience - Botanist Jack Hardie – 3 years' experience. Flora identification was undertaken by Pilbara taxonomists Pierre-Louis de Kock, and Simon Colwill.
Survey scope	No	The detailed flora and vegetation survey was undertaken in accordance with (Environmental Protection Authority, 2016) and was considered appropriate to inform approvals applications. Two phases of survey were undertaken in a post-wet, and dry season for each of the three surveys. Targeted searching for flora of conservation significance was undertaken, however as per standard practice in the Pilbara systematic searches were not feasible. Rather, targeted searching focussed on habitat suitable for Threatened and Priority flora within the proposed development footprint.
Access	No	The entire Project Area was accessed by helicopter, vehicle and on foot.
Adequacy of survey intensity	No	177 flora sites (comprising 96 quadrats and 81 relevés) were sampled across the Project Area. An additional 290 mapping notes were undertaken to aid vegetation mapping and delineation. The survey effort was considered adequate to assess the flora and vegetation values of the Project Area and provide information required to inform approvals applications. The greatest survey intensity was focussed on unburnt areas, with survey effort reduced in burnt areas due to lack of surveyable flora. Burnt areas were still assessed visually from the air with the use of a helicopter, and the consolidation of results from the three surveys allowed for appropriate survey intensity despite fire impacts. Additional flora species, and populations of significant flora species and weed species would likely be recorded with additional survey effort, particularly in burnt areas once regenerated.



Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Timing, weather, season	No	The flora surveys were conducted within the recommended timing for the region and many annual flora taxa were recorded.
Life forms sampled	No	The Project Area was traversed by helicopter, car, and on foot and representative sites of all remnant vegetation was sampled. All flora species encountered within the Project Area were recorded. A total of 463 vascular flora taxa were recorded from the Project Area, comprising ~98% native flora taxa and 2% introduced flora taxa. Of the 463 flora taxa recorded, 43 taxa (~9%), could not be identified to taxonomic finality because they were sterile at the time of the surveys. A further nine taxa were considered hybrids of two recorded parent taxa. This was not considered a constraint as it represented a very small portion of the flora sampled. None of the unknown flora taxa collected were analogous to Threatened or Priority flora taxa identified by the database searches as likely to occur within the Project Area, nor were they representative of flora of other significance.
Mapping reliability	Partial	Vegetation types were described and mapped based on quadrat and relevé data and additional mapping notes taken during the field surveys. Vegetation types were consolidated between each survey for aligned vegetation and condition mapping across all three surveys. The greatest effort was expended ground truthing vegetation boundaries in unburnt areas, with reduced effort in mapping on areas that were recently affected by fire. Where fires were noted, vegetation was significantly impacted, with only sparse remnant species, or difficult to identify juvenile regrowth. Many fire ephemeral taxa were present that were not reliable to map vegetation from. Where vegetation was burnt it was considered to be mapped to a low reliability, which represented approximately 41.55% of the Project Area.
Disturbances (fire, flood etc.)	Partial	There were recent fires through the southern extent of the TRW Survey Area, and other small, assorted sections of the Project Area. Vegetation was affected in these areas, leading to a decrease in mapping reliability. Recent fire is also likely to have caused an increase in ephemeral fire-response taxa, including significant taxa such as <i>Euphorbia clementii</i> (P3), which was only present in burnt areas. Areas of disturbance associated with cattle grazing and trampling, cleared tracks and drill pads, infrastructure, weeds, fire scars, and railway tracks were present within the Project Area but were not a constraint on the results of the survey.
Problems with data and analysis	No	Flora sites considered to be affected by fire were excluded from the analysis. Floristic groupings were rigorous and mostly aligned with in field observations. There were no limitations to the analysis.



Variable	Degree of Limitation	Potential Constraints on Survey Outcomes
Completeness	No	The surveys were considered complete for a detailed flora and vegetation survey, all vegetation types were surveyed and delineated within the Project Area and a minimum of three quadrats was surveyed for each vegetation type where possible. Three of the 23 vegetation types were sampled with fewer than three sites, due to restricted distribution of the vegetation and landforms. This is not considered a limitation.

4.2 Desktop Assessment

4.2.1 Literature Review

The key findings of the flora and vegetation reports reviewed are summarised in Appendix B.

4.2.2 Database Searches

Database searches identified 24¹ significant flora species occurring within 50 km of the Project Area (Appendix C), comprising:

- One Threatened taxa
- Four Priority 1 taxa
- One Priority 2 taxon
- Sixteen Priority 3 taxa
- Two Priority 4 taxa

No State or Commonwealth listed TECs were identified within the Project Area by the database searches. One State listed PEC occurs within 50 km of the Project Area, the Gregory Land System (P3) (Figure 7). Six instances of this PEC are located within 50 km of the Project Area, the closest being located approximately 15 km west of the Project Area. The Gregory Land System is described as 'Linear dunes and restricted sandplains supporting shrubby hard spinifex (and occasionally soft spinifex) grasslands'.

4.2.3 Likelihood of Occurrence

The pre-survey likelihood of occurrence assessment identified that of the 25 significant flora species identified by the desktop assessment:

- 6 had previously been recorded within the Project Area
- 8 were considered to have a high likelihood of occurrence
- 3 were considered to have a medium likelihood of occurrence
- 7 were considered to have a low likelihood of occurrence.

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

- 10 taxa identified by the database searches were recorded within the Project Area
- 2 Additional taxa not identified by the database searches were recorded within the Project Area due to recent taxonomic reviews

¹ At the time of the database searches *Eragrostis crateriformis* (P3) was a listed priority species, which has since been delisted and is no longer mentioned as significant in the report.



- No taxa were considered to have a high likelihood of occurrence
- 3 taxa were considered to have a medium likelihood of occurrence
- 11 taxa were considered to have a low likelihood of occurrence.

The likelihood of occurrence assessment is provided in Appendix D.

4.3 Field Survey

4.3.1 Flora Composition

The consolidated surveys recorded a total of 463 taxa from 175 genera across 60 families (Appendix E). The dominant families were Fabaceae (81 taxa), Poaceae (77 taxa) and Malvaceae (51 taxa). The most dominant genera were *Acacia* (30 species), *Cyperus* (13 species), and *Eriachne* (12 species). Species diversity was considered higher than average for the region and size of the Project Area, due to recent burns and an increase in fire-responding annual taxa during the Turner River (2022) survey.

4.3.2 Flora of Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened pursuant to the BC Act 2016 were recorded during the survey. Twelve DBCA listed Priority taxa were recorded within the Project Area (Table 11, Figure 8).

An additional 18 taxa were considered significant for other reasons, as detailed in Table 11. Flora may be considered of other significance if it is a:

- Range extension, population extension, or represents the extent of a species range
- Novel taxon or displays unusual characteristics warranting further taxonomic investigation
- Hybrid of other species within the Project Area, or
- Species that plays a keystone role in a community, has relic status or is locally endemic

During access walks to and from the Project Area, significant flora were recorded opportunistically outside the Project Area boundaries, these records were not included in the total counts, and all species recorded outside were also recorded within the Project Area. Additional information for each taxon is provided below Table 11. Hybrid species are listed in Table 11, and not discussed further.

Threatened and Priority Flora Report forms were submitted to the DBCA and Fortescue following the survey.



Table 11: Summary of Significant Flora in the Project Area.

Taxon	Turner River (2022)		Turner River West (2023)		Turner River Additional (2024)		Consolidated Total		Outside	
	Count	Locations	Count	Locations	Count	Locations	Count	Locations	Count	Locations
Priority 2 (DBCA)										
<i>Neptunia longipila</i>	201	3	-	-	-	-	201	3	1	1
Priority 3 (DBCA)										
<i>Euphorbia clementii</i>	1,512	32	1	1	391	32	1,904	65	71	9
<i>Euploca mufica</i>	87	15	583	50	25	6	695	71	2	2
<i>Goodenia obscurata</i>	-	-	1	1	-	-	1	1	-	-
<i>Gymnanthera cunninghamii</i>	8	4	43	8	7	6	58	18	29	7
<i>Nicotiana umbratica</i>	-	-	164	9	45	3	209	12	5	1
<i>Phyllanthus hebecarpus</i>	-	-	189	11	-	-	189	11	2	1
<i>Rothia indica</i> subsp. <i>australis</i>	-	-	2	1	-	-	2	1	-	-
<i>Triodia basitricha</i>	2,115	5	-	-	-	-	2,115	5	7,200	6
<i>Triodia chichesterensis</i>	95,704	45	21,092	25	4,620	25	121,416	95	37,480	13
Priority 4 (DBCA)										
<i>Bulbostylis burbridgeae</i>	-	-	633	21	-	-	633	21	1,410	14
<i>Ptilotus mollis</i>	15	1	-	-	-	-	15	1	-	-

Taxon	Turner River (2022)			Turner River West (2023)			Turner River Additional (2024)			Consolidated Total			Outside		
	Count	Locations		Count	Locations		Count	Locations		Count	Locations		Count	Locations	
Anomalous features, potentially new species															
<i>Amaranthus</i> aff. <i>interruptus</i>	-	-		36	6		21	2		57	8		119	15	
<i>Bonamia pilbarensis</i> (tight indumentum form)	-	-		-	-		4	4		4	4		-	-	
<i>Eriachne</i> sp. Coongan Station (A.A. Mitchell PRP1566)							4	4		4	4				
<i>Polymeria</i> sp. stoloniferous	182	15		15	1		3	3		200	19		4	1	
<i>Solanum</i> aff. <i>cleistogamum</i>	1	1		-	-		-	-		1	1		57	6	
<i>Trianthema</i> aff. <i>oxycalyptum</i>	3	3		145	12		-	-		148	15		8	7	
Range Extension															
<i>Polygala galeocephala</i>	1	1		3	3		2	2		6	6		-	-	
<i>Portulaca digyna</i>	1,523	5		108	6		-	-		1,631	11		5	1	
<i>Zornia muelleriana</i> subsp. <i>congesta</i>	-	-		2	2		1	1		3	3		-	-	
Hybrids															
<i>Acacia ampliceps</i> x <i>bivenosa</i>	2	2		-	-		-	-		2	2		-	-	
<i>Acacia ancistrocarpa</i> x <i>orthocarpa</i>	1	1		-	-		-	-		1	1		1	1	
<i>Acacia ancistrocarpa</i> x <i>trachycarpa</i>	1	1		-	-		-	-		1	1		-	-	
<i>Acacia ancistrocarpa</i> x unknown hybrid	1	1		-	-		-	-		1	1		-	-	
<i>Acacia eriopoda</i> x <i>stellaticeps</i>	-	-		1	1		-	-		1	1		-	-	



Taxon	Turner River (2022)		Turner River West (2023)		Turner River Additional (2024)		Consolidated Total		Outside	
	Count	Locations	Count	Locations	Count	Locations	Count	Locations	Count	Locations
<i>Acacia orthocarpa</i> x <i>stellaticeps</i>	-	-	1	1	-	-	1	1	-	-
<i>Acacia trachycarpa</i> x unknown hybrid	2	1	-	-	-	-	2	1	-	-
<i>Acacia tumida</i> var. <i>pilbarensis</i> x unknown hybrid	-	-	1	1	-	-	1	1	-	-
<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>helmsii</i>	-	-	1	1	1	1	2	2	-	-



4.3.2.1 Flora of Significance

***Neptunia longipila* (P2)**

Neptunia longipila (P2) is an annual herb growing on cracking clay or semi-clay soils within the TR Survey Area. This species was only recently described (Bean, 2022) as part of a revision of the genus, requiring fruit to confirm the identification. This species was recorded primarily in vegetation type AsyAISf on cracking clay landform, which is common for *Neptunia* species. Other opportunistic individuals were recorded in nearby drainages with ecotonal semi-clay soils (ChAspTe), however this was not considered the main habitat of the species. These records represent a range extension of approximately 100 kms. The WAH has 16 records of the species, with most records occurring within 20 km of the Project Area (DBCA, 2024). Within the Project Area 201 individuals were recorded, with an additional single record just outside the TR Survey Area.

***Euphorbia clementii* (P3)**

Euphorbia clementii (P3) is an annual herb which typically grows to 0.6 m tall in clay-loam open flood plains and germinates actively in response to fire. It has prominent brightly coloured red and yellow stems, a white inflorescence, and flowering time ranging from April to July (Plate 1). The WAH has 31 records of the species, with most records occurring within 20 km of the Project Area (DBCA, 2024).

During the surveys 1,904 individuals were recorded across the Project Area, predominantly from the TR Survey Area in locations most recently affected by fire. This taxon was not restricted to any distinct vegetation type, occurring in hills, plains, and drainages wherever fire had recently occurred. A further 71 individuals were recorded outside the Project Area opportunistically.

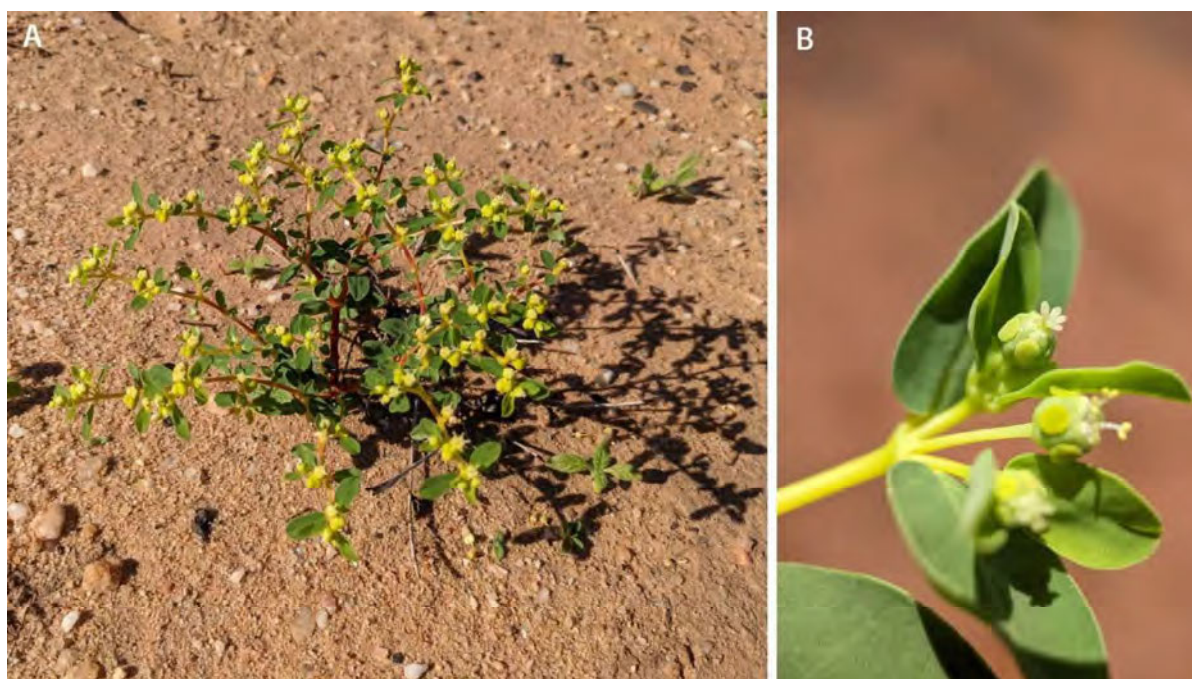


Plate 1: *Euphorbia clementii* (P3) from the Project Area A) Habit among burnt plains, and B) flowers (SLR Consulting Australia, 2023)



***Euploca mutica* (P3)**

Euploca mutica (P3) (formerly known as *Heliotropium muticum*) is a slender low shrub or herb, occurring sparsely among the open plains of the Project Area (Plate 2) (DBCA, 2024). This taxon was identified by the database searches and would be expected to occur sparsely across similar vegetation in the Project Area.

During the surveys 695 individuals were recorded from 71 locations, predominantly among vegetation type AoTe that had been recently burnt. Individuals were cryptic among the spinifex of the open plains, with few individuals occurring at each location. Many were in poor condition with notable browning on most plants, senescing in the late season. An additional 2 individuals were recorded opportunistically outside the Project Area.

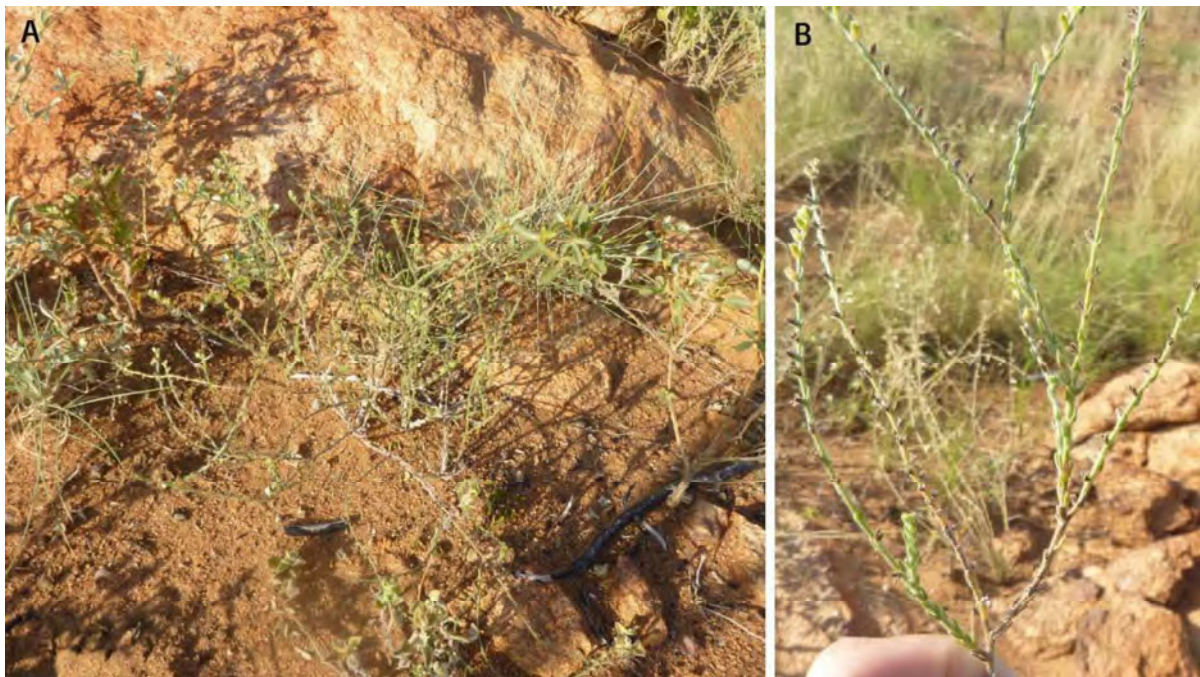


Plate 2: *Euploca mutica* (P3) from the Project Area A) Habit and habitat, and B) branch



***Goodenia obscurata* (P3)**

Goodenia obscurata (P3) is a low shrub in the connate bract group of *Goodenia*, and only recently separated from *G. connata* (Shepherd, et al, 2023). The WAH has 28 records of this species ranging from ~450km west of the Project Area in the Carnarvon bioregion, with this record representing its most north eastern known range (DBCA, 2024). Only a single record of this taxon was located opportunistically within the TRW Survey Area in vegetation type AoTe. This taxon was not photographed as it was not known to be of significance during the surveys.

***Gymnanthera cunninghamii* (P3)**

Gymnanthera cunninghamii (P3) is an erect shrub which typically grows 1.5 to 2 m tall and is commonly found in major drainage lines growing in sandy soils associated with taxa such as *Eucalyptus camaldulensis*, *Eucalyptus victrix* and *Melaleuca* (DBCA, 2024)(Plate 3). Flowering time extends from January to December and colours range from cream, yellow and green. The WAH has 40 records of the species, mostly recorded inland of Port Hedland.

During the survey 58 individuals were recorded sparsely from 18 locations in major and minor drainage lines through the Project Area. *Gymnanthera cunninghamii* was recorded in each Survey Area, as well as a further 29 individuals recorded opportunistically outside the Project Area. Few individuals occurred at each location, with most in good condition.

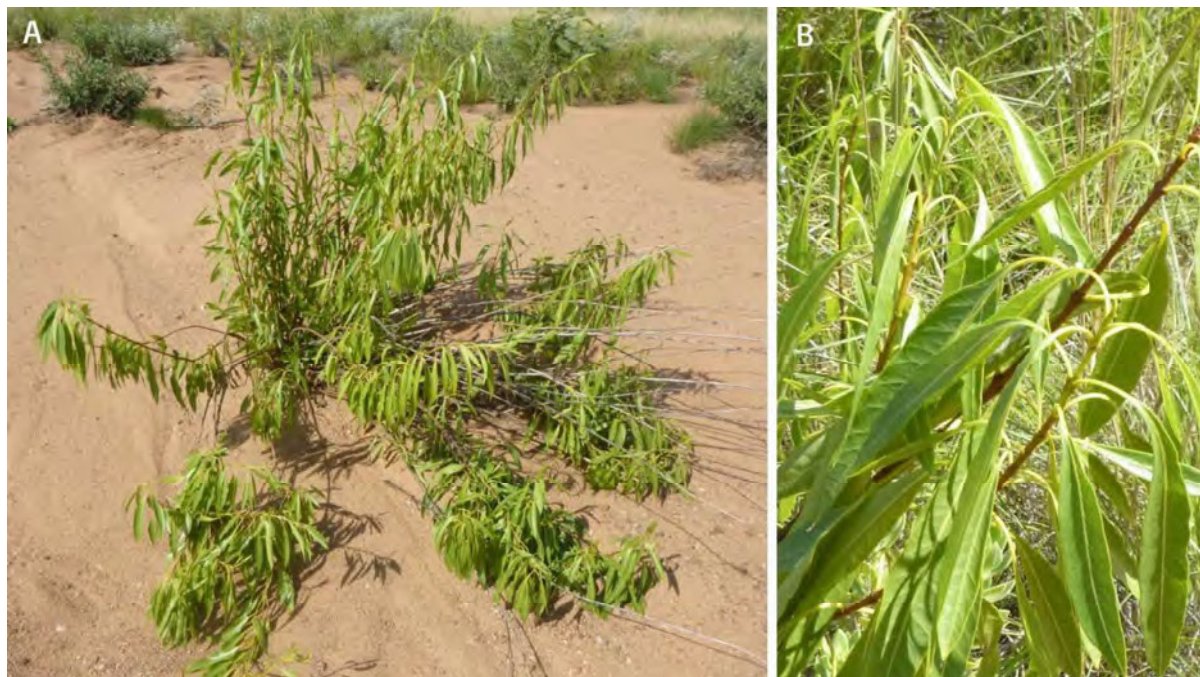


Plate 3: *Gymnanthera cunninghamii* (P3) A) in drainage habitat and B) Branch



***Nicotiana umbratica* (P3)**

Nicotiana umbratica is a low annual herb with long white flowers (Plate 4), growing in the shade of large granite boulders (DBCA, 2024). During the surveys 209 individuals were recorded from 12 locations among larger granite boulder outcroppings, generally restricted to within the largest outcropping expressions with vegetation type TcAtpTla, although also recorded in some smaller outcroppings. It was recorded in the TRW and TRA Survey Areas, with a further 5 individuals recorded opportunistically outside the TR Survey Area.

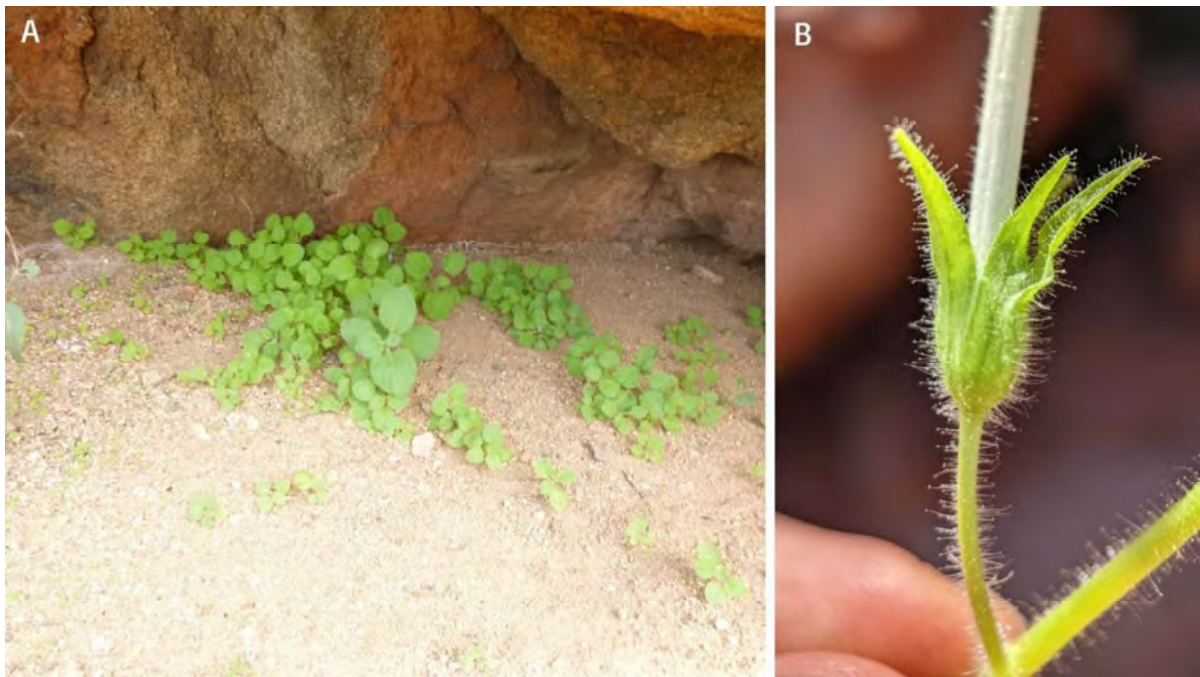


Plate 4: *Nicotiana umbratica* (P3) within the Project Area A) habit and habitat, and B) flower and calyx (SLR Consulting Australia, 2023)



***Phyllanthus hebecarpus* (P3)**

Phyllanthus hebecarpus is a low shrub with small dense hairs on all surfaces (Plate 5), growing in the cracks and shade of large boulders (DBCA, 2024). During the survey 189 individuals were recorded from 11 locations among larger granite boulder outcroppings of the TRA Survey Area, generally restricted to within vegetation type TcAtpTla. An additional 2 individuals were recorded opportunistically outside the Project Area.



Plate 5: *Phyllanthus hebecarpus* (P3) within the TRW Survey Area A) habit and habitat, and B) flower and calyx (SLR Consulting Australia, 2023)



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

Rothia indica subsp. *australis* is a low herb with trifoliate leaves and small yellow flowers (Plate 6), growing in the cracks and shade of large granite boulders (DBCA, 2024). During the survey only two individuals were recorded from a single location within vegetation type Tlo in the TRW Survey Area, near a disused dirt track.



Plate 6: *Rothia indica* subsp. *australis* (P3) within the TRW Survey Area



***Triodia basitricha* (P3)**

Triodia Basitricha (P3) is a soft, non-resinous hummock grass which commonly grows on rocky and gravelly slopes of low hills or mountains (Plate 7). It grows up to 50 cm tall and has a distinctive curling foliage near the base of the plant. The WAH has 34 records with some occurring inland of Port Hedland and most occurring north of Tom Price in the Chichester region (DBCA, 2024).

During the survey 2,115 individuals were recorded in the TR Survey Area from five locations, and a further estimated 7,200 individuals from six locations outside the TR Survey Area. This taxon occurred as a dominant or co-dominant spinifex (with *T. epactia*) in vegetation type AspTba, and also was present in ChAspTe and GwAaTs.

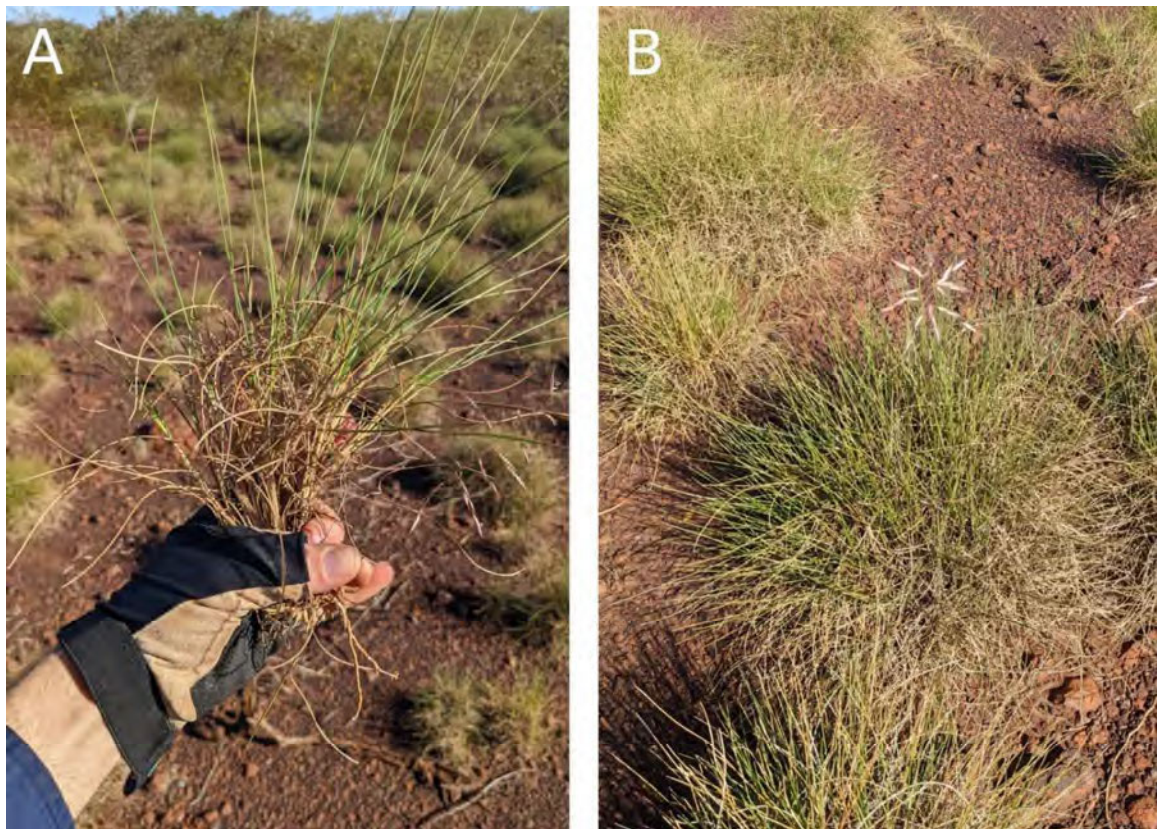


Plate 7: *Triodia basitricha* (P3) A) Leaves and B) Hummock form within the TR Survey Area.



***Triodia chichesterensis* (P3)**

Triodia chichesterensis (P3) is a hard hummock grass which commonly grows on brown clay-loam soils typically with ironstone pebbles and surface quartzite present (Plate 8). It grows up to 35 cm tall and is typically found growing in association with *T. wiseana* and *T. lanigera* (DBCA, 2024). The WAH has 42 records of the species mostly inland of Port Hedland.

During the survey 121,416 estimated individuals were recorded in the Project Area. This species was present mostly as a dominant (or co-dominant with *T. wiseana*) in vegetation type ChAaTc which covered 877.19 ha of the Project Area. A further 37,480 individuals were recorded opportunistically outside the Project Area

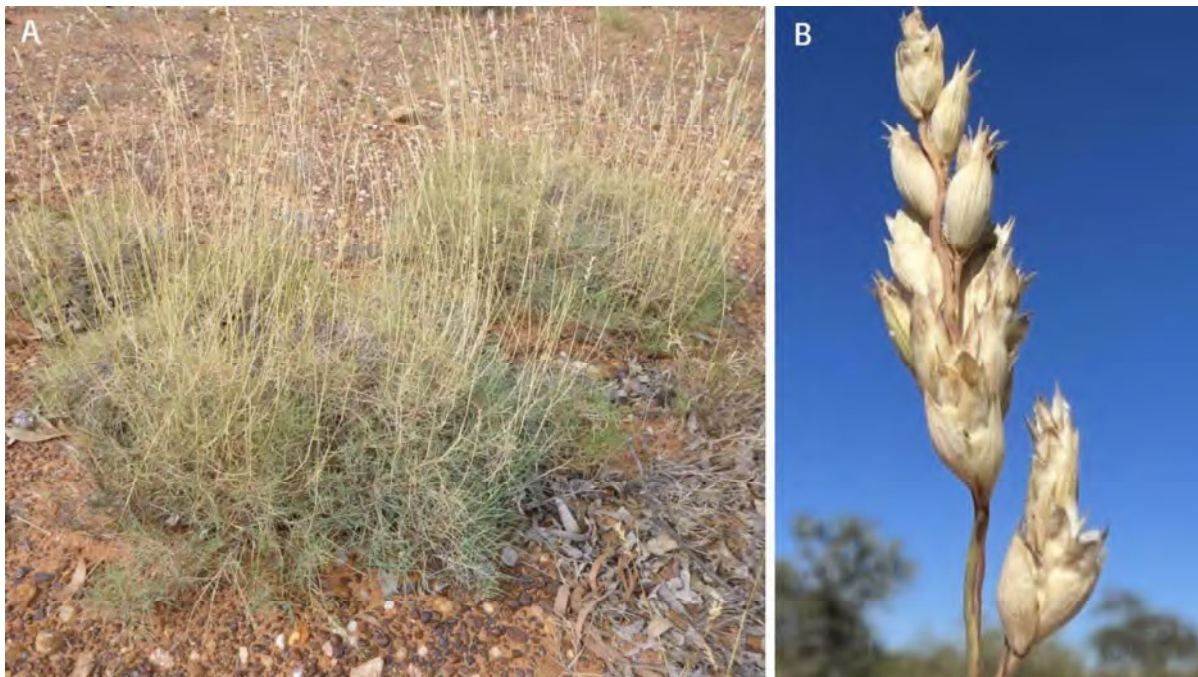


Plate 8: *Triodia chichesterensis* (P3) within the Project Area A) habit and habitat, and B) spikelets



***Bulbostylis burbidgeae* (P4)**

Bulbostylis burbidgeae (P4) is a low tufted grass-like annual herb or sedge (Plate 9) (DBCA, 2024). It grows in a relatively widespread area across the Chichester bioregion, among the shade of large granite boulders and cliff bases.

During the surveys 633 individuals were recorded from 21 locations, primarily within the TRW Survey Area in vegetation type TcAtpTla. A further 1,410 individuals were recorded opportunistically outside the Project Area. Many individuals that were recorded in the post-wet season survey were senescing or no longer present during the dry-season survey.

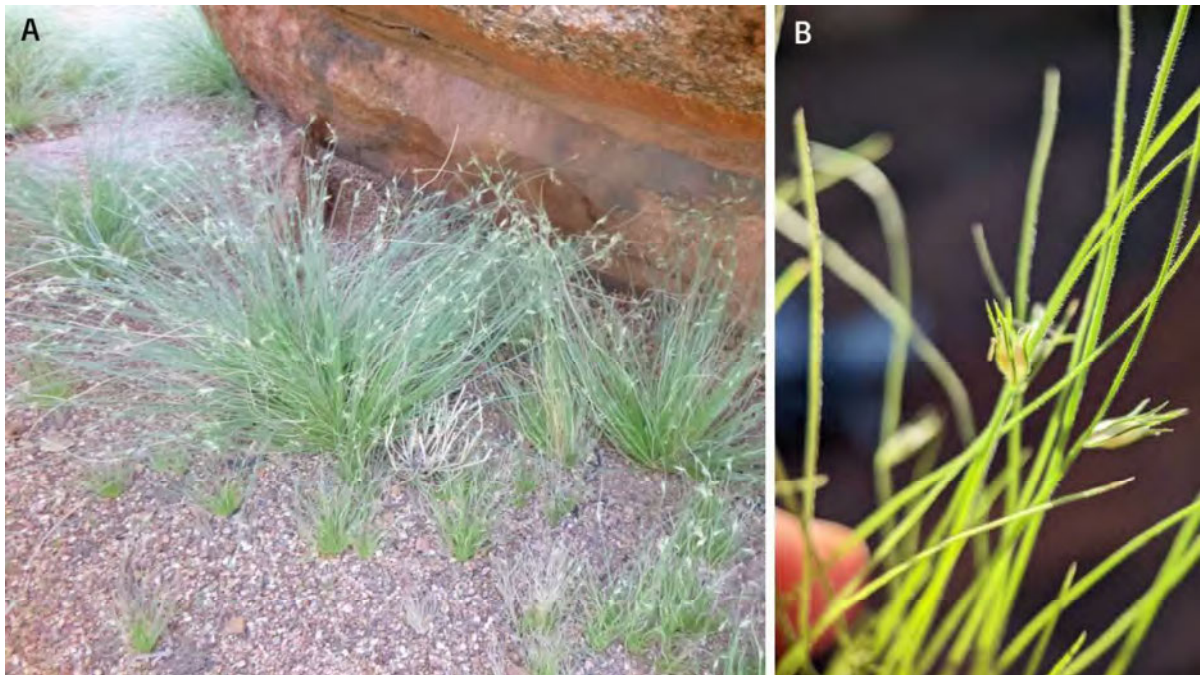


Plate 9: *Bulbostylis burbidgeae* (P4) within the TRW Survey Area A) habit and habitat, and B) spikelets



***Ptilotus mollis* (P4)**

Ptilotus mollis (P4) is a compact perennial shrub with soft grey coloured foliage which commonly grows to 50 cm tall and is found on rocky scree slopes and outcroppings (Plate 10). It flowers in May and September with white / pink inflorescence (DBCA, 2024). The WAH has 43 records of the species mostly found inland of Karratha and Port Hedland (DBCA, 2024).

During the survey 15 individuals of *P. mollis* were recorded from relevé NSR20 on low rocky hills in vegetation type AiTw. The individuals were in relatively poor condition.



Plate 10: *Ptilotus mollis* (P4) within the TR Survey Area



4.3.2.2 Potentially novel taxa

Amaranthus* aff. *interruptus

This taxon was present among the large granite boulder outcrops of the TRW and TRA Survey Areas. It primarily grew in the larger outcroppings in vegetation type TcAtpTla, with some additional records in AtpTe. Only 57 individuals were recorded from the Project Area, with an additional 119 recorded opportunistically outside the Project Area. While it bears similarity to *A. interruptus* in its inflorescence and fruiting characteristics, the tepals do not have any lobes and are rather almost linear terete, to sharp-pointed (Plate 11).

***Bonamia pilbarensis* (tight indumentum form)**

This unusual form of the common species *B. pilbarensis* was recorded from the low rolling rocky plains with ironstone, quartz, or calcrete. It was spread across the Project Area although not recoded separately from *B. pilbarensis* at all times. It is a known form of *B. pilbarensis*, occurring just south of Port Hedland, with a “denser indumentum of white hairs giving the plant a silver appearance” (Johnson, 2014) (Plate 12).

***Eriachne* sp. Coongan (A.A. Mitchell PRP 1566)**

A potentially novel species that is undergoing review for addition to the WA Census (Pers. Comm P.L. de Kock, 2024). This taxon is difficult to distinguish from *E. obtusa* and was likely confused with *E. obtusa* over the three surveys as it was not distinguished as a potentially novel taxon until 2024, as such it is almost certainly present in all three survey areas. It can be distinguished by the hairs on the lemma occurring in two distinct patches (a base patch and apex fringe) (Plate 13). Preferred habitat appears to be sandy plains, bordering sheet flow minor drainages.

***Polymeria* sp. (stoloniferous)**

This taxon was sparsely noted among the burnt plains of the of the Project Area, possibly responding to recent burns. The species is known to be widespread in the Pilbara however is not currently recognized (pers. comm., M. Hislop, 2022). It can be distinguished by its low, spreading stoloniferous habit, with prominently veined abaxial leaf surface (Plate 14). It referred to as *P. sp. (stoloniferous)* due to its prostrate stoloniferous growth form, and to avoid confusion with other *Polymeria* sp. recorded during the surveys. This taxon did not appear to have a defined vegetation type and rather was spread sparsely across the burnt plains, and was present in all three surveys, with 200 individuals recorded.

Solanum* aff. *cleistogamum

This taxon was recorded predominantly from drainages outside the Project Area during the TR survey and was noted as of potential taxonomic interest. It can be distinguished from typical *S. cleistogamum* by its upright low shrub form, dense orange prickles on the stem, and longer leaf (Plate 15).

Trianthema* aff. *oxycalyptum

This taxon bears similarities to *T. oxycalyptum* and *T. glossostigmum* (Plate 16). It can be differentiated from *T. oxycalyptum* by its broader elliptic leaf, rounded petals, and obviously separating sepals. It can be differentiated from *T. glossostigmum* by the floral whorl characteristics, and seed. Further investigation would be required into the genus as a whole to fully understand where this taxon lies (pers. comm. M. Hislop 2022). This taxon was recorded from the sandy plains of the TR and TRW Survey Areas (generally among vegetation types AoTe and AeTe) often occurring in close proximity (20-50m) from low granite outcroppings.



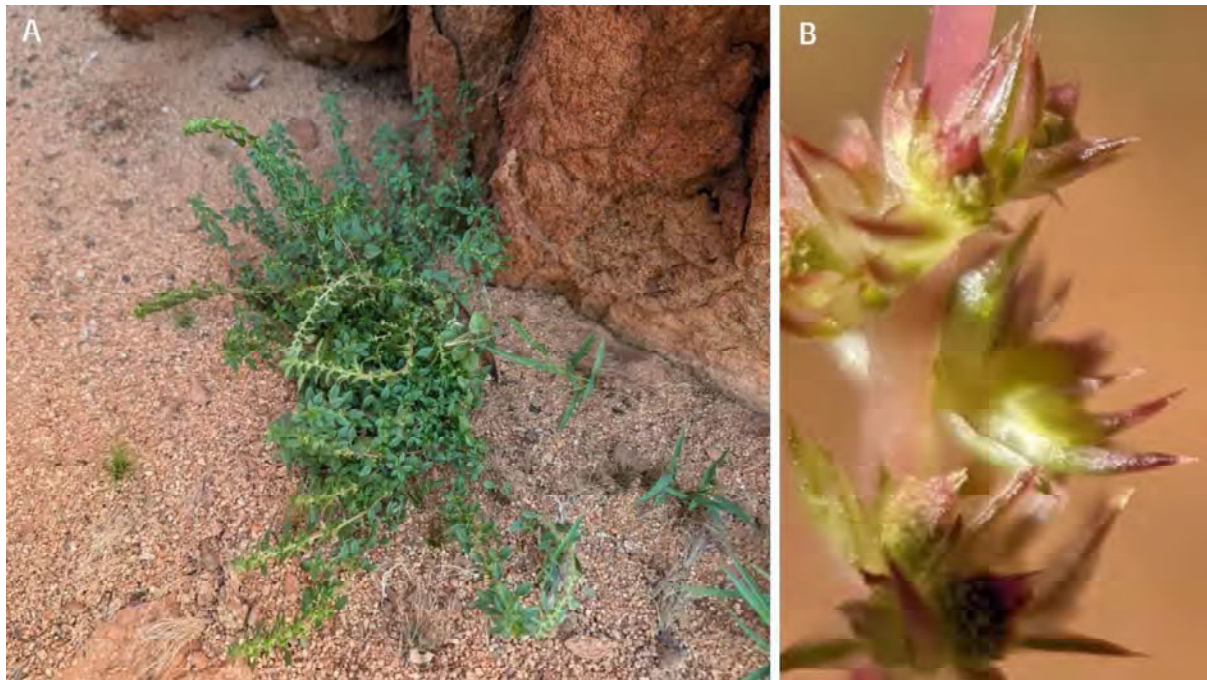


Plate 11: *Amaranthus* aff. *interruptus* A) Shaded habitat and B) Tepals from the Project Area



Plate 12: *Bonamia pilbarensis* (tight indumentum form) from the Project Area





Plate 13: *Eriachne* sp. Coongan station (A.A. Mitchell PRP 1566) Spikelet from the Project Area

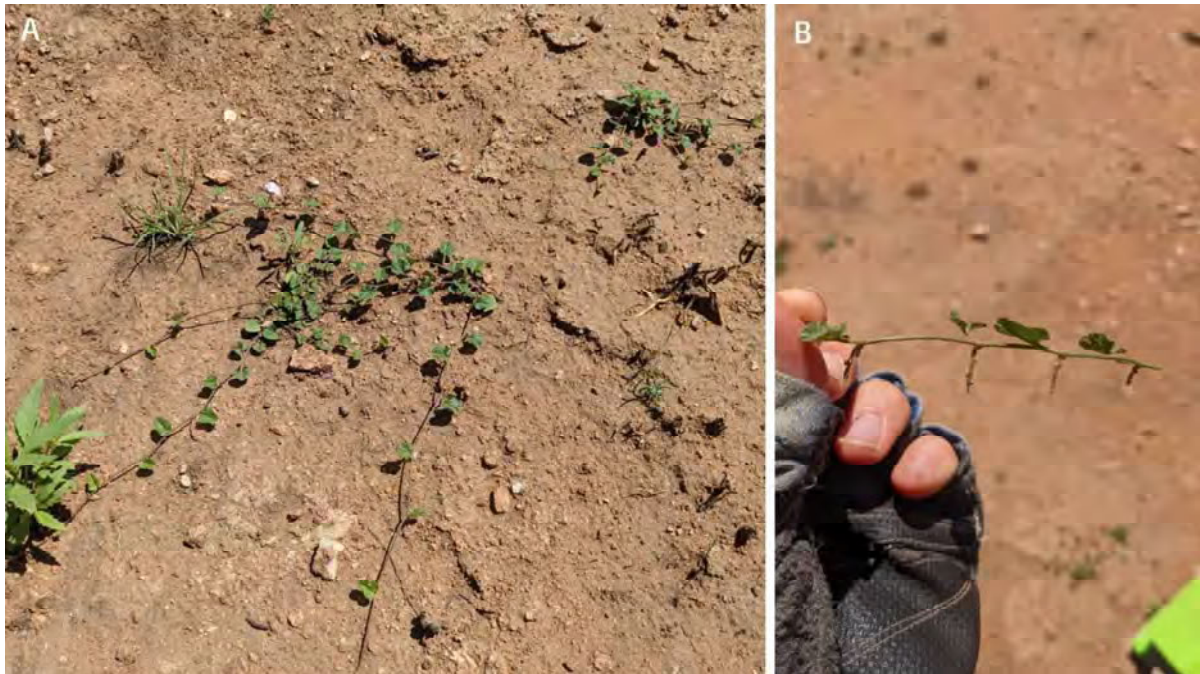


Plate 14: *Polymeria* sp. (stoloniferous) within the Project Area A) growing on freshly burnt ground, and B) stoloniferous habit



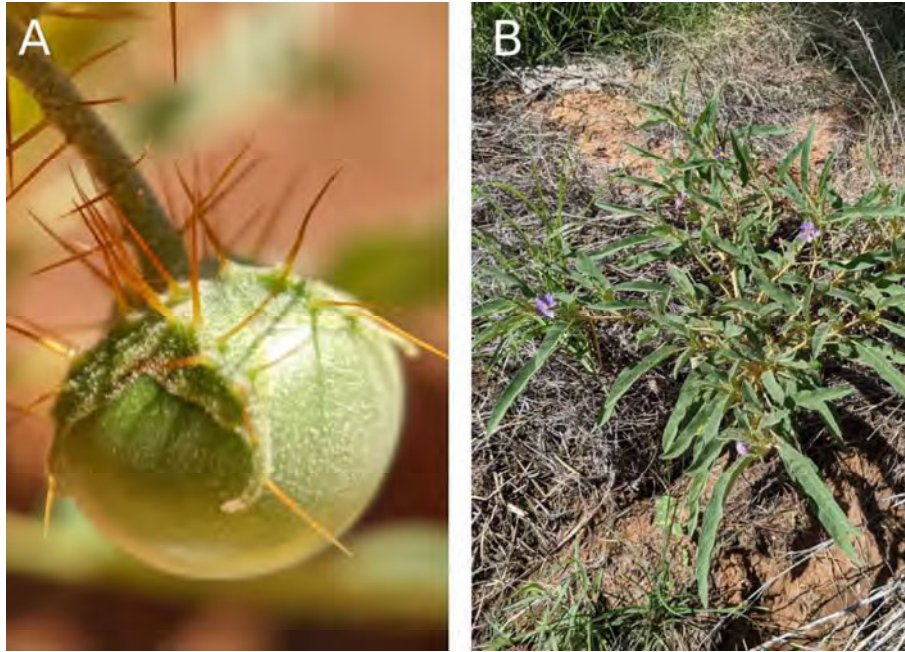


Plate 15: *Solanum* aff. *cleistogamum* A) Fruiting calyx, and B) shrub habit in drainage habitat.



Plate 16: *Trianthema* aff. *oxycalyptum* A) habit, and B) leaves, flower, and bud from the Project Area

4.3.2.3 Range Extensions and Population Extensions

The three flora considered range extensions (Table 11) are pictured below. Both *Polygala galeocephala* (Plate 17) and *Zornia muelleriana* subsp. *congesta* (Plate 18) are range extensions of approximately 80-100 km south of the known range which is primarily around



the townships of Port Hedland and Karratha. *Portulaca digyna* is a larger range extension of approximately 550 km southwest of its known range of the Dampierland and Kimberley bioregions (Plate 19).

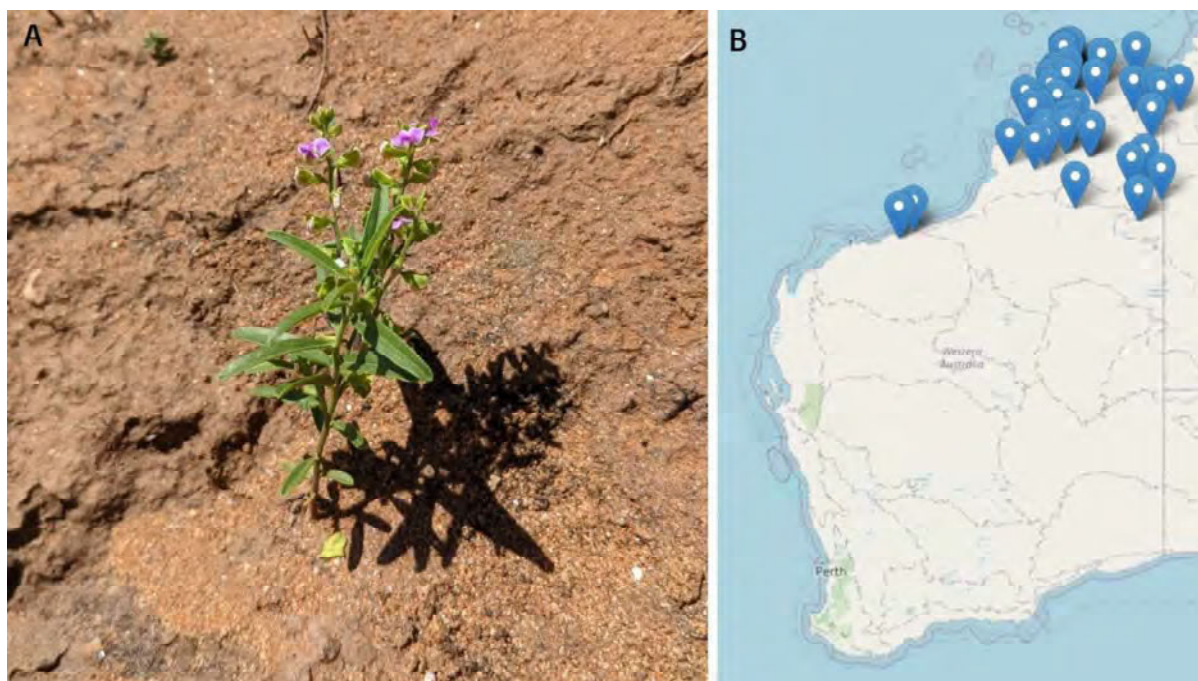


Plate 17: *Polygala galeocephala* from the Project Area A) Habit and B) State distribution

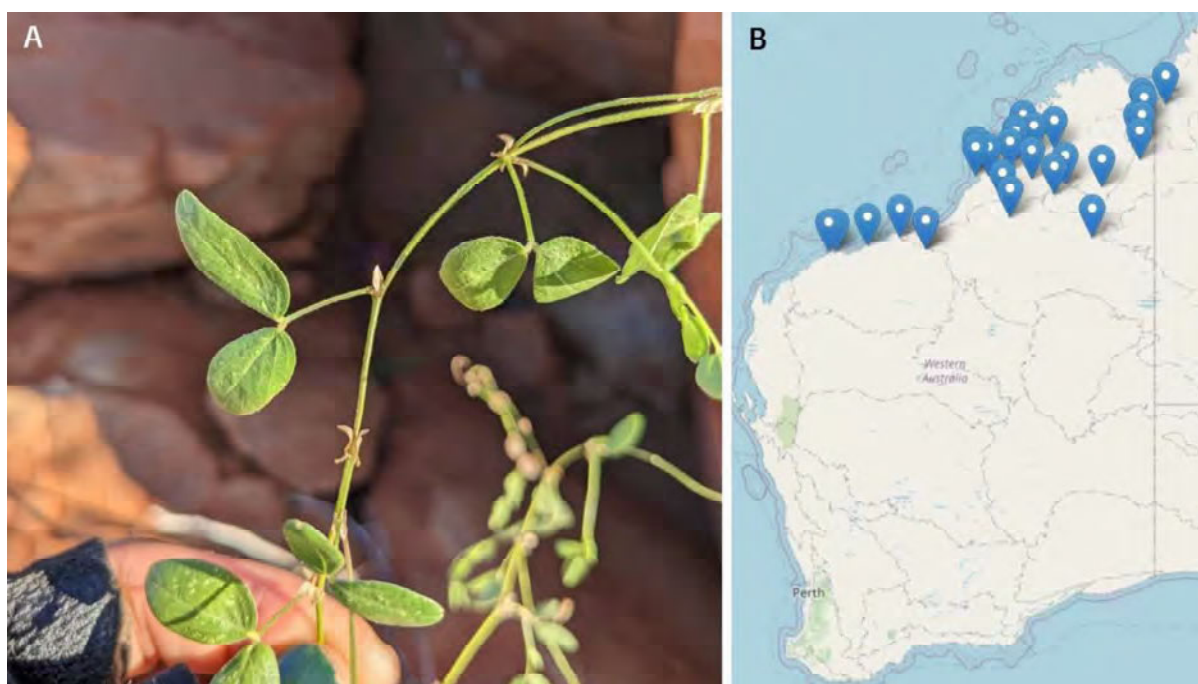


Plate 18: *Zornia muelleriana* subsp. *congesta* from the Project Area A) Leaf and B) State distribution





Plate 19: *Portulaca digyna* from the Project Area A) Inflorescence and B) State distribution

4.3.3 Introduced Flora

A total of eleven introduced species were recorded within the Project Area, representing approximately 2% of the total taxa recorded (Table 12). Of these, **Opuntia ?stricta* (Common Prickly pear) is listed as a Weed of National Significance (WoNS) (DAWE, 2021), and a Declared Pest (DP), and **Calotropis procera* (Calotrope) is listed as a DP under the BAM Act (DPIRD, 2021). **Opuntia ?stricta* was only recorded in the TRA Survey Area in the major drainage channels (Figure 10), while **Calotropis procera* was recorded within each Survey Area, also along drainage lines. Weed spread among the Project Area was relatively minimal, concentrated in drainage channels in conjunction with cattle movement. **Cenchrus ciliaris* recorded regularly, most commonly from drainage and disturbed areas around existing tracks and existing infrastructure.



Table 12: Introduced Flora Species within the Project Area

Taxon	Turner River (2022)		Turner River West (2023)		Turner River Additional (2024)		Consolidated Total		Outside	
	Count	Locations	Count	Locations	Count	Locations	Count	Locations	Count	Locations
<i>Aerva javanica</i>	96	9	5	1	154	10	312	23	57	3
<i>Bidens bipinnata</i>	13	2	10	1	-	-	23	3	-	-
<i>Calotropis procera</i> (DP)	7	4	1	1	263	18	271	23	-	-
<i>Cenchrus ciliaris</i>	32,548	31	2,149	14	9,552	27	45,569	77	1,320	5
<i>Cenchrus setiger</i>	360	6	22	3	3,492	11	4,874	21	1,000	1
<i>Chloris pumilio</i>	5	1	-	-	-	-	5	1	-	-
<i>Flaveria trinervia</i>	50	3	4	2	-	-	55	6	1	1
<i>Malvastrum americanum</i>	-	-	-	-	-	-	1	1	1	1
<i>Opuntia ?stricta</i> (WoNS, DP)	-	-	-	-	24	18	24	18	-	-
<i>Pseudognaphalium luteoalbum</i>	-	-	-	-	-	-	1	1	1	1
<i>Sonchus oleraceus</i>	-	-	-	-	1	1	1	1	-	-



4.3.4 Unconfirmed Flora

Forty three specimens (approximately 9% of the taxa recorded) could not be identified to taxonomic finality (Appendix E). Of these, 28 were identified to genus, and a further 15 tentatively identified to species or subspecies, but could not be confirmed due to insufficient material. Of the nine taxa identified to be hybrids (listed in Table 11), three taxa only had one identifiable parent species. None of the unconfirmed flora taxa were analogous to significant flora taxa identified by the database searches. Some of the unconfirmed flora taxa may represent duplicates of taxa that were already confirmed within the Project Area.

4.3.5 Vegetation Types

Twenty three vegetation types were described and mapped across five broad landforms within the Project Area (Summarised in Table 13, detailed in Table 14, illustrated in Figure 8):

- Clay – A single vegetation type occurred on a small patch of cracking clay, covering 3.18 ha.
- Drainage – represented by four vegetation types and covering 797.57 ha (7.21% of the Project Area), including groundwater dependent, and potentially groundwater dependent vegetation.
- Hills – Hill landforms in the Project Area were predominantly low, undulating expressions, with occasional small higher expressions. The hills were represented by three vegetation types covering 390.70 ha (3.53% of the Project Area).
- Outcroppings - represented by three vegetation types occurring on large-scale granite outcroppings and boulders, as well as smaller expressions with some sand/clay/loam areas. Outcropping landforms covered 189.98 ha (1.72% of the Project Area).
- Plains – The most dominant landform of the Project Area, open sandy plains was represented by 10 vegetation types and covering 10,101.70 ha (91.36% of the Project Area).

The Project Area also included 797.57 ha (7.21% of the Project Area) of cleared land including roads, rail, and infrastructure.

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



Table 13: Summary of Vegetation in the Project Area

Vegetation Type	Turner River (2022)		Turner River West (2023)		Turner River Additional (2024)		Consolidated Total	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
Clay								
AsyAlSf	3.18	0.07	-	-	-	-	3.18	0.03
Drainage								
ChAspTe	109.89	2.31	-	-	68.00	3.85	177.89	1.61
ChAspTrc	243.88	5.13	57.94	1.28	8.03	0.45	309.86	2.80
EcAtTe	-	-	39.55	0.87	-	-	39.55	0.36
EcMgTlo	25.58	0.54	-	-	136.48	7.72	162.06	1.47
EvAtTlo	44.15	0.93	-	-	-	-	44.15	0.40
MaAcpCi	12.47	0.26	-	-	51.60	2.92	64.07	0.58
Hills								
AiTww	113.44	2.38	-	-	6.38	0.36	119.82	1.08
AspTba	67.37	1.42	-	-	-	-	67.37	0.61
GwAaTs	2.79	0.06	-	-	-	-	2.79	0.03
Outcroppings								
AeTe	-	-	128.19	2.83	1.24	0.07	129.43	1.17
AtpTe	-	-	102.03	2.25	15.00	0.85	117.02	1.06
TcAtpTla	9.30	0.20	33.63	0.74	-	-	42.93	0.39
Plains								
AanTl	-	-	163.32	3.60	-	-	163.32	1.48
AiAbTww	271.51	5.71	4.00	0.09	47.47	2.69	322.98	2.92
AoTe	422.23	8.88	3,273.75	72.22	450.70	25.50	4,146.67	37.50
AspTbr	189.43	3.98	-	-	11.29	0.64	200.72	1.82
AsTla	10.88	0.23	234.73	5.18	105.12	5.95	350.73	3.17
ChAaTc	282.72	5.94	273.24	6.03	321.23	18.17	877.19	7.93
ChAaTs	32.45	0.68	27.76	0.61	10.60	0.60	70.81	0.64
ChAspTla	1,055.54	22.19	4.71	0.10	466.49	26.39	1,526.73	13.81
ChAspTla2	1,528.71	32.14	-	-	-	-	1,528.71	13.82
PfTlo	274.37	5.77	54.50	1.20	30.89	1.75	359.75	3.25
Cleared	57.11	1.20	135.56	2.99	37.22	2.11	229.89	2.08



Table 14: Vegetation Types Occurring within the Project Area

Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
Clays				
AsyAISf: <i>Acacia synchronicia</i> mid isolated shrubs over <i>Aristida latifolia</i> low tussock grassland over <i>Triodia epactia</i> low open hummock grassland over <i>Sida fibulifera</i> and <i>Neptunia longipila</i> (P2) low open shrubland	Cracking clays	NSQ76	Very Good	
Drainage				
ChAspTe: <i>Corymbia hamersleyana</i> low isolated trees over mixed <i>Acacia</i> spp. mid to tall shrubland over * <i>Cenchrus ciliaris</i> (<i>Chrysopogon fallax</i>) low isolated tussock grassland over <i>Triodia epactia</i> low open hummock grassland	Broad open drainage plain between low hills. Somewhat ecotonal in landform and vegetation	NSAQ04, NSAR24, NSAQ38, NSAR39, NSAQ40, NSAR41, NSQ18, NSQ22, NSR49, NSR59 (burnt), NSR60, NSQ63, NSR75, NSR80, NSR81, NSQ90	Degraded to Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
ChAspTrc: <i>Corymbia hamersleyana</i> low isolated trees over <i>Acacia eriopoda</i> , <i>A. trachycarpa</i> , and <i>A. colei</i> var. <i>colei</i> tall open shrubland over <i>Tephrosia rosea</i> var. <i>clementii</i> , <i>Triumfetta ramosa</i> , and <i>A. stellaticeps</i> mid to low open shrubland over <i>Themeda triandra</i> (* <i>Cenchrus ciliaris</i>) low tussock grassland over <i>Triodia epactia</i> low open hummock grassland	Minor drainage	NSR03, NSR08, NSR25, NSR48, NSW19, NSW30, NSAR16, NSAR22, NSAR27	Very Good	
EcAtTe: <i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i> low open woodland over <i>Acacia trachycarpa</i> and <i>A. tumida</i> var. <i>pilbarensis</i> tall shrubland over <i>Triodia epactia</i> and <i>T. longiceps</i> low open hummock grassland	Major drainage	NSWQ02 (burnt), NSW11, NSW32	Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
EcMgTlo: <i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i> and <i>E. victrix</i> mid open woodland over <i>Melaleuca glomerata</i> and <i>M. linophylla</i> tall open shrubland over <i>Cyperus vaginatus</i> low sparse sedges over <i>Triodia longiceps</i> (<i>T. epactia</i>) low sparse hummock grasses	Major drainage	NSR02, NSR24, NSQ45, NSR58, NSR82, NSR89, NSAQ11, NSAQ13, NSAQ21	Degraded to Excellent	
EvAtTlo: <i>Eucalyptus victrix</i> and <i>Corymbia hamersleyana</i> low isolated trees over <i>Acacia trachycarpa</i> (<i>Atalaya hemiglaucula</i> , <i>A. pyrifolia</i> , <i>Cullen leucanthum</i>) tall shrubland over <i>Triumfetta propinqua</i> mid isolated shrubs over <i>Triodia epactia</i> and <i>T. longiceps</i> low hummock grassland over * <i>Cenchrus ciliaris</i> low open tussock grassland	Major sandy drainage among granite plains	NSQ04, NSQ26, NSR51, NSR72	Very Good to Good	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
MaAcpCi: <i>Melaleuca argentea</i> (<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i> , <i>E. victrix</i>) low open woodland over <i>Acacia coriacea</i> subsp. <i>pendens</i> , and <i>A. trachycarpa</i> (<i>A. amplexipes</i>) tall isolated shrubs over <i>Cyperus vaginatus</i> , and <i>C. ixiocarpus</i> mid sparse sedges over <i>Eulalia aurea</i> and * <i>Cenchrus ciliaris</i> low open tussock grassland	Major Drainage	NSR50, NSQ52, NSR56, NSAQ10, NSAQ12, NSAQ34	Good to Very Good	
Hills				
AITw: <i>Acacia inaequilatera</i> (<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>) tall isolated shrubs over <i>Triodia wiseana</i> low open hummock grassland	Hilltop	NSAR01, NSAR03, NSAR30, NSR17, NSR19, NSR20	Very Good to Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
AspTba: <i>Acacia ancistrocarpa</i> , <i>A. tumida</i> var. <i>pilbarensis</i> (<i>A. acradenia</i> , <i>Petalostylis labicheoides</i>) over <i>Triodia basitricha</i> (<i>T. wiseana</i>) low hummock grassland	Low rise	NSQ05, NSQ09, NSQ14	VG EX	
GwAaTs: <i>Grevillea wickhamii</i> subsp. <i>hispida</i> tall sparse shrubs over <i>Acacia ancistrocarpa</i> mid shrubland over <i>Triodia ?schinzii</i> low hummock grassland	Upper slope	NSR11	Very Good	
Outcropping				



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
AeTe: <i>Acacia eriopoda</i> and <i>A. tumida</i> var. <i>pilbarensis</i> tall sparse shrubland over <i>Triodia epactia</i> and <i>T. lanigera</i> low open hummock grassland	Minor granite outcroppings	NSAR29, NSWR01, NSWQ21, NSWQ22	Excellent	
AtpTe: <i>Acacia tumida</i> var. <i>pilbarensis</i> (<i>A. eriopoda</i>) tall open shrubland over <i>Triodia epactia</i> low open to sparse hummock grassland	Minor granite outcroppings	NSAR09, NSAQ20, NSAR23, NSWQ15, NSWR18, NSWR33	Excellent	

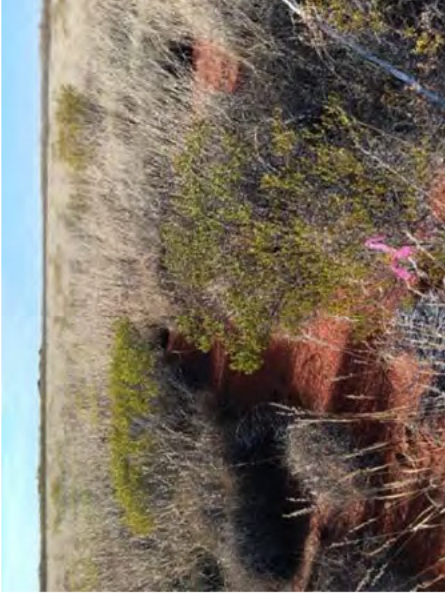


Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
TcAtpTla: <i>Terminalia circumalata</i> low isolated trees over <i>Acacia tumida</i> var. <i>pilbarensis</i> tall sparse shrubland over <i>A. retivenea</i> subsp. <i>clandestina</i> mid sparse shrubland over <i>Triodia lanigera</i> low open hummock grassland	Granite outcrop	NSR74, NSW16, NSW27 (burnt), NSW28 (burnt)	Very good to Excellent	
Plains				
AanTI: <i>Acacia ancistrocarpa</i> (<i>A. orthocarpa</i> , <i>A. tumida</i> var. <i>pilbarensis</i>) mid to tall shrubland over <i>Triodia lanigera</i> (<i>T. epactia</i>) low open hummock grassland	Plains	NSWQ10, NSWQ39	Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
AiAbTw: <i>Acacia inaequilatera</i> tall isolated shrubs over <i>A. acradenia</i> and <i>A. bivenosa</i> mid open shrubland over <i>Triodia wiseana</i> low open hummock grassland	Low rise	NSAR43, NSQ27, NSQ28, NSR41, NSR61, NSR68, NSR70, NSR73, NSR77, NSR79, NSWQ36, NSWR37	Very Good to Excellent	
AoTe: <i>Acacia orthocarpa</i> (A. ancistrocarpa) mid to tall open shrubland over <i>Triodia epactia</i> and <i>T. lanigera</i> low open hummock grassland	Plains	NSAQ14, NSAQ36, NSAQ37, NSQ36, NSQ62, NSR06, NSR29, NSR33, NSR35, NSR39, NSR83 (BURNT), NSR86, NSWQ03, NSWQ12, NSWQ13, NSWQ25, NSWQ29, NSWQ34	Very Good to Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
AspTbr: <i>Acacia</i> spp. tall open shrubland over <i>Triodia brizoides</i> (<i>T. wiseana</i> , <i>T. lanigera</i>) low hummock grassland	Undulating plain/low hills	NSAR28, NSAQ46, NSQ78, NSR87, NSQ93, NSR95	Excellent	
AsTla: <i>Acacia stellaticeps</i> and <i>Pluchea ferdinandii-muelleri</i> low open shrubland over <i>Triodia lanigera</i> (<i>T. epactia</i>) low hummock grassland	Plains	NSAQ07, NSAQ31, NSAQ32, NSAQ33, NSAQ35, NSR67, NSR69 (Burnt), NSR71, NSQ84, NSQ88, NSWQ17, NSWQ20, NSWQ24, NSWQ38	Very good to Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
ChAaTc: <i>Corymbia hamersleyana</i> low isolated trees over <i>Acacia acradenia</i> , <i>Petalostylis labicheoides</i> , and <i>Grevillea wickhamii</i> (<i>A. inaequilatera</i>) tall sparse shrubland over <i>Triodia chichesterensis</i> and <i>Triodia wiseana</i> low hummock grassland	Undulating plains/low hills	NSAQ15, NSAQ17, NSAQ19, NSAQ42, NSQ01, NSQ07, NSR12, NSQ47, NSQ66, NSWQ08, NSWQ14, NSWQ26, NSWQ31	Very Good to Excellent	
ChAaTs: <i>Corymbia hamersleyana</i> low isolated trees over <i>Acacia acradenia</i> tall, isolated shrubs over <i>Triodia schinzii</i> low hummock grassland	Plains	NSAQ02, NSAQ05, NSAQ08, NSR64, NSWQ07, NSWQ09 (burnt), NSWQ35	Very Good to Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
ChAspT1a: <i>Corymbia hamersleyana</i> low isolated trees over <i>Acacia inaequilatera</i> (<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>) tall isolated shrubs over a mosaic of <i>Acacia ancistrocarpa</i> , <i>A. acradenia</i> , and <i>Petalostylis labicheoides</i> mid open shrubland over <i>Triodia lanigera</i> and <i>Triodia epactia</i> (<i>T. longiceps</i> , <i>T. wiseana</i>) low hummock grassland	Plains	NSAQ06, NSAQ18, NSAQ25, NSAQ26, NSAQ44, NSAQ45, NSQ18, NSR23, NSQ30, NSR34, NSQ38, NSR40, NSQ43, NSR44, NSQ55, NSWQ06	Very Good to Excellent	
ChAspT1a2: <i>Corymbia hamersleyana</i> low isolated trees over a mosaic of <i>Acacia ancistrocarpa</i> , <i>A. acradenia</i> , and <i>Grevillea wickhamii</i> mid open shrubland over <i>Triodia lanigera</i> low hummock grassland. Isolated intersecting minor drainage channels within this vegetation consist of <i>Acacia tumida</i> var <i>pilbarensis</i> (<i>A. ancistrocarpa</i>) mid shrubland over <i>Triodia lanigera</i> and <i>T. epactia</i> low open hummock grassland	Plain	NSQ10, NSQ13, NSQ15, NSQ16, NSQ21, NSQ54, NSQ85	Excellent	



Vegetation Unit and Description*	Local Landform	Sites	Vegetation Condition	Photograph
PfTlo: <i>Pluchea ferdinandi-muelleri</i> (Acacia <i>stellaticeps</i>) low open shrubland over <i>Triodia longiceps</i> (<i>T. epactia</i>) low open hummock grassland	Plains with minor sheet flow	NSQ31, NSR32, NSR37, NSR42, NSR46, NSR53, NSQ57, NSQ65 (Burnt), NSWQ04, NSWQ05, NSWR23	Very Good to Excellent	
Cleared	Existing rail, roads, and infrastructure	Not sampled	Completely degraded	-

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

4.3.6 Vegetation Condition

Vegetation condition within the Project Area ranged from Excellent to Degraded Table 15, Figure 10), comprising:

Table 15: Vegetation Condition within the Project Area

Condition	Turner River (2022)		Turner River West (2023)		Turner River Additional (2024)		Consolidated Total	
	Area (ha)	%	Area (ha)	%	Area (ha)	%	Area (ha)	%
Excellent	4,060.41	85.36	4,333.51	95.60	921.59	52.13	9,315.51	84.25
Very Good	591.95	12.44	58.18	1.28	641.44	36.29	1291.56	11.68
Good	34.14	0.72	6.98	0.15	29.65	1.68	70.77	0.64
Poor	17.84	0.37			137.92	7.80	155.76	1.41
Completely Degraded (Cleared)	52.66	1.11	134.22	2.96	37.14	2.10	224.02	2.03

Although the vegetation was primarily in excellent condition (84.25%), burnt vegetation could not be properly assessed as weed presence may not have been apparent.

Evidence of disturbance included recent and historical clearing for infrastructure, introduced fauna tracks and scats, and weeds. Recently burnt areas were not considered of reduced condition and were retained as excellent unless other disturbance could be noted (i.e. weed regrowth and cattle tracks). Some areas of native vegetation surveyed during earlier surveys (2022) were cleared in the following years, and vegetation has been updated with the most recent consolidated surveys.

4.3.7 Fire History

Two fires have affected the Project Area across the three years of survey (Table 16), affecting a total of 4,593.92 ha (41.55% of the Project Area) over two years of burns (2022 and 2024) (NAFI, 2024) (Plate 20 and Plate 21). Fire scar data is an estimate due to the method of satellite detection and is considered to only be broadly accurate to large polygon blocks, the real fire scar is likely to be less than estimated. This estimate also does not include small patches of unburnt vegetation within the broader fire scar. The 2022 fire affected a large extent of the Turner river (2022) survey as it was burnt very shortly before survey and no regrowth was present. This same fire affected the Turner River West (2023) Survey, with more than 80% of the Survey Area burnt the year prior. Vegetation in this area had only recovered minimally, with many dominant *Acacia* and *Tridodia* species still not obvious. Mapping in these areas was done based on dominant species that could be seen to be resprouting, however is not mapped with total confidence.



Table 16: Project Area Burn History

Fire History	Turner River (2022)	Turner River West (2023)	Turner River Additional (2024)	Total Burnt Extent
2022 Burn Extent (ha)	785.10	3,589.17	3.60	4,377.86
2024 Burn Extent (ha)	42.91	157.71	15.43	216.06
Total Burn Extent (ha)	828.011	3,746.88	19.03	4,593.92
Percentage of Survey Area Burnt	17.41 %	82.66 %	1.08 %	-
Percentage of Consolidated Project Area Burnt	7.49 %	33.89 %	0.17 %	41.55 %



Plate 20: Recently burnt vegetation in the TR Survey Area



Plate 21: Recently burnt vegetation in the TRW Survey Area



4.3.8 Vegetation of Significance

4.3.8.1 Threatened and Priority Ecological Communities

No vegetation types considered representative of any TECs, or PECs were recorded within the Project Area.

4.3.8.2 Groundwater Dependent Ecosystems

Groundwater dependent ecosystems (GDEs) were classified by the presence of either obligate² or facultative³ phreatophyte taxa (Argus, 2018). Six vegetation types were present within drainage landforms in the Project Area. Of these, MaAcpCi was dominated by the obligate phreatophyte *Melaleuca argentea*, and was considered to be Groundwater Dependent Vegetation (GDV). Two vegetation types were dominated by the facultative phreatophyte *Eucalyptus camaldulensis* subsp. *refulgens* (EcAtTe, and EcMtTlo) and were also considered to be GDV. One further vegetation type (EvAtTlo) was dominated by *E. victrix*, and was considered to be Potentially Groundwater Dependent Vegetation (PGDV). *Eucalyptus victrix* is also considered a facultative phreatophyte but with a very limited capacity to survive inundation for extended periods of time (Argus, 2018).

4.3.8.3 Vegetation of Other Significance

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

- Vegetation extent being below a threshold level
- Scarcity
- Novel combinations of species
- A role as a refuge: Fortescue defines a refuge as “a vegetation type with distribution limited to restricted biotic or abiotic conditions within the survey area (that is restricted regionally). Such conditions are likely to be reflected in restricted landforms (e.g. mesa, high mountain top, sheltered gorge etc.) or unusual soil or surface geological conditions.”
- A role as a key habitat for threatened species or large populations representing a significant proportion of the local to regional total population of a species
- Being representative of the range of a unit (particularly a good local and/or regional example of a unit in ‘prime’ habitat, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range)
- A restricted distribution (<1% of the Survey Area).

Seven vegetation types in the Project Area are considered to be of other significance significant for the reasons detailed below (Table 17). Where vegetation was already considered significant for reasons listed above (ie: GDV) and was also locally restricted, it was not listed again.

² Vegetation that utilises groundwater sources all year round and is reliant upon access to groundwater for survival.

³ Vegetation that utilises groundwater in an opportunistic fashion or during times of limited water supply and/or drought.



Table 17: Locally Significant Vegetation Units in the Project Area

Vegetation Type	Survey Area Coverage		Reason for potential significance
	ha	%	
ChAaTc	877.19	7.93	Supports very large numbers of <i>Triodia chichesterensis</i> (P3) (dominant spinifex). Recorded numbers are only a fraction of the taxon's true extent through the Project Area. This vegetation type should be considered for state significance.
TcAtpTla	42.93	0.39	Locally and regionally restricted, supports <i>Nicotiana umbratica</i> (P3), <i>Phyllanthus hebecarpus</i> (P3), and <i>Bulbostylis burbridgeae</i> (P4) as well as the species of interest <i>Amaranthus</i> aff. <i>interruptus</i> . Also likely to be a fauna refuge due to large granite shelter landform.
GwAaTs	2.79	0.03	Locally restricted. However, dominated by species that are not restricted. A small patch of <i>Triodia basitricha</i> (P3) was recorded from this vegetation type but was considered ecotonal from nearby AspTba supporting landform (pisolitic ironstone).
AsyAlSf	3.18	0.03	Locally and regionally restricted cracking clay landform supporting <i>Neptunia longipila</i> (P2).
ChAspTe	177.89	1.61	Locally significant due to occasional populations of <i>Neptunia longipila</i> (P2) on ecotonal clay boundaries. Dominant species not restricted.
AspTba	67.37	0.61	Locally and regionally restricted. Co-dominated by <i>Triodia basitricha</i> (P3).
ChAaTs	70.81	0.64	Locally restricted. However, dominated by species that are not restricted.

4.4 Statistical Analysis

4.4.1 Floristics

The following observations were made from the analysis:

- Sites that were considered to be recently or partially burnt when surveyed (e.g.; NSQ88, NSR68, NSR69, NSR71, NSR73, NSR77, NSR81, and NSR83) were excluded from the analysis.
- Sites in major drainage units (MaAcpCi and EcMgTlo) grouped together, while more variable minor drainage (ChAspTe and ChAspTrc) units did not group as strongly, due to the inclusion of many surround species from plains vegetation within sites.
- Units Pftlo, AspTbr, ChAaTc, ChAaTs, AoTe, AsTla all formed rigorous groups within the analysis.
- Vegetation units AiAbTw, AiTw, and some sites with ChAspTla formed a larger group due to the similarities of dominant *Acacia* and *Triodia* species. These units were mostly separated based on species density and landform, with AiTw growing on sparse rocky hills, rather than low undulating hills and plains.
- Vegetation units ChAspTla and ChAspTla2 formed a larger grouping in the analysis, due to similarity in species profile. The units were retained as separate units based on differences in landform (ChAspTla is a consolidated plain, while ChAspTla2 was



present on the foothills of the larger range to the east, with small incised channels between bare hills.

- NSQ76 formed a distinct grouping as vegetation AsyAISf.
- Sites within TcAtpTla formed a group with AtpTe due to the similarity in granite outcrop landform and similar species complex.
- Sites from the different surveys were spread across the analysis, suggesting no distinct differences between results of any survey.

Selected inputs and outputs of the floristic analysis are presented in Appendix G.

4.4.2 Survey Adequacy

Across the three surveys 177 flora sites were sampled (Table 18) across the Project Area, across 23 vegetation types. Two vegetation types (AsyAISf and GwAaTs) were sampled with a single site, and one vegetation type (AanTI) was sampled with only two sites due restricted distribution within the Project Area. All other vegetation types were able to be sampled with three or more sites when vegetation was consolidated across the three surveys.

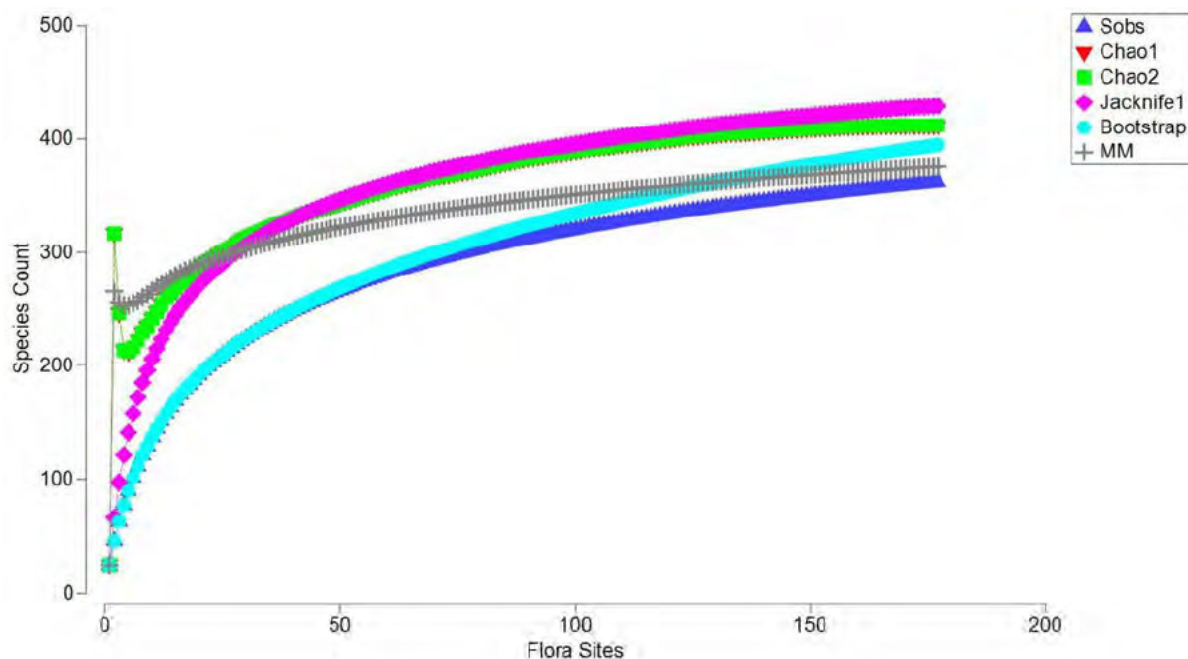
Table 18: Count of Flora Sites in the Project Area

Site Type	Turner River (2022)	Turner River West (2023)	Turner River Additional (2024)	Consolidated Total
Quadrat	38	26	33	97
Relevé	54	13	13	80
Total Sites	92	39	46	177

Eight sites (NSQ88, NSR68, NSR69, NSR71, NSR73, NSR77, NSR81, NSR83) were excluded from the analysis due to impact by fire, all of which were established during the Turner River (2022) Survey. Sites considered partially impacted by fire were included in the analysis as they grouped with other sites in the same vegetation type.

The species accumulation curve for the Project Area produced a smooth Sobs curve steadily increasing towards asymptote (Graph 2). The dataset for the species accumulation curve includes sites that were recently burnt.





Graph 2: Flora Species Accumulation Curve

Estimated species richness for the Project Area ranged from 376 to 412, with an observed value of 362 taxa (Table 19). Richness estimators indicated that the survey was approximately 84.26% to 96.39% adequate in recording the full complement of vascular flora taxa within the Survey Area (Table 19).

Table 19: Species Richness Indicators

Treatment	Expected Species Richness	Percentage Adequate
Chao 1	412	87.81%
Chao 2	412	87.81%
Jackknife 1	430	84.26%
Bootstrap	395	91.68%
Michaelis-Menton	376	96.39%

The data used to produce the species accumulation curve was conservative because opportunistic species (which are not associated with a site), and unconfirmed flora were not included. With opportunistic and unconfirmed flora included, the number of flora taxa recorded during the survey was 463, which is 107.77% of the highest expected species richness, and 123.29% of the lowest expected species richness.



5.0 Discussion

5.1 Flora Composition

The suite of flora taxa recorded during the surveys is considered typical for the respective areas (Beard 1976) and aligns with the database search results obtained. All three surveys recorded relatively high diversity. Recent burns in the TR Survey Area (2022) stimulated the growth of additional taxa, including fire opportunists such as *Euphorbia clementii* (P3), *Euploca mutica* (P3), and *Calandrinia* spp., which may not typically occur in more established vegetation. The overall Project Area was not especially diverse in landform, with the majority comprising of rolling sandy plains with mosaicking dominants, with only small pockets of concentrated diversity in drainages, granite boulders, and cracking clay.

Floristic diversity of annual species was considered average, with annual taxa present in the post-wet season surveys, as well as some fire-ephemeral taxa present into the dry seasons. However, many of these were in poor or deteriorating health. A significant positive impact on the floristic diversity was that of recent burns, affecting almost 42% of the Project Area. The fire of greatest impact occurred in January 2022 and burnt the majority of the Turner River West Survey Area. Although some of the dominant species were regenerating in these areas, it was not always apparent which vegetation type the plains or granite outcrops would be best represented by. The entirety of vegetation type EcAtTe was affected by the fires.

Within the burnt areas minimal discernible stratum dominant taxa remained. Many herbs and annual taxa were clearly responding well post fire (such as *Euploca mutica* (P3), and *Euphorbia clementii* (P3)), which many not usually be present. As such the fires were considered to be limiting to overall reliability of vegetation mapping but may have contributed beneficially to recording additional (and priority) taxa locations.

5.2 Flora of Conservation Significance

No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened Flora pursuant to the BC Act 2016 were recorded within the Project Area. Only one threatened taxon was identified by the database searches, *Quoya zonalis*, which would not be expected to grow in the Project Area considering the geology present.

All 12 of the priority flora recorded within the Project Area were identified by the database searches and were considered medium to high likelihood of occurrence prior to the surveys. Descriptions of all priority taxa recorded in the Project Area are provided in Section 4.3.2.

Neptunia longipila (P2) was only described following the surveys in the Turner River Survey Area and as such was originally identified as *Neptunia dimorphantha*. Following a review of specimens this taxon was redetermined to the significant species for the purposes of the consolidated report. This taxon was predominantly recorded from the cracking clay landforms of vegetation type AsyAISf, with some additional errant locations from drainages nearby, which were somewhat ecotonal in nature with semi-clay soils. Given the limited distribution of the cracking clays, it is unlikely that this taxon is widely distributed in the locality.

Euphorbia clementii (P3) was primarily recorded during the TR Survey, due to the taxon responding prolifically following the recent fire. Fewer individuals were present in 2023 during the TRW Survey, with another increase in individuals present in small burnt patches in the TRA Survey Area following the 2024 fire. It is considered likely that this taxon is very widespread in the Project Area and the locality following natural fire events.

Euploca mutica (P3) (previously known as *Heliotropium muticum*) was recorded sparsely across the entire Project Area, generally occurring in populations of only a small number of individuals. *Euploca mutica* is a relatively small inconspicuous upright shrub, with spindly



stems and small green-brown leaves. Given its size and cryptic nature, individuals could only be recorded when in close proximity unlike other more visible taxa during the survey. As such it is likely that this taxon occurs sparsely across the plain's landform of the Project Area. Although it did occur in unburnt areas, more individuals did appear to grow in the recently burnt plains and may be responding to recent fires.

Goodenia obscurata (P3) was only recorded from a single location within the TRW Survey Area. It was not known to be of significance at the time of survey as it was only described in late 2023 following the survey, and identified following a review of species in the consolidated report. It is expected that other individuals of this taxon would be present sparsely across the Project Area. However, this species was split from other similar species in the connate bract group of *Goodenia*, and given a Priority 3 status due to restricted information being available on its distribution. Following the review, additional records have been lodged, indicating an expanded distribution. It is now considered unlikely to be as restricted as initially determined.

Gymnanthera cunninghamii (P3) was recorded sparsely across the major and minor drainage lines of the Project Area. It would be considered likely that any drainage landform could support sparse individuals of this taxon. It was present in only restricted populations, with most recording only a single individual at any point.

Nicotiana umbratica (P3), *Phyllanthus hebecarpus* (P3), and *Bulbostylis burbridgeae* (P4) were recorded from the same habitat: the shaded overhang of large granite boulders, primarily occurring in vegetation type TcPAtpTla with some records also in AtpTe. Both *N. umbratica* and *B. burbridgeae* are annual taxa that were not present during dry season surveys. However, *P. hebecarpus* is an upright low perennial shrub present both seasons of survey, and does not rely on the shaded overhangs for protection. *Phyllanthus hebecarpus* was only recorded during the TRW Survey, however would be expected to grow within the TR Survey Area in the large granite boulders of the south that had been recently burnt, as it was recorded in close proximity outside the Project Area in unburnt vegetation.

Rothia indica subsp. *australis* (P3) is a small annual herb only found from a single location in vegetation type PfTlo within the TRW Survey Area. It is unknown if it is linked to this vegetation type, or present due to the disturbed track adjacent to the site. It has been recorded in previous surveys in the locality and would be expected to occur more widely across the region following rains.

Triodia chichesterensis (P3) occurred as a dominant species across the low rolling plains of the Project Area, usually in association with semi-calcrete and quartz geology. This taxon was notably low lying among the other spinifex, with its short and compact leaf form occurring in dense clusters of individuals. Large numbers were recorded with periodic population estimates. However, the real number of individuals would be much higher as it was widespread and common where it did occur. Individuals of this taxon would be expected to occur anywhere along the vegetation type ChAaTc, or sparsely anywhere small instances of calcrete geology occur. This taxon was well represented across the Project Area. A count of this individuals present within a single 50x50m quadrat was estimated at between 5,000-7,000 individual plants.

Therefore, there are approximately 20,000 – 28,000 individuals present per hectare of vegetation type ChAaTc, equating to an estimate of between 17,543,800 and 24,561,320 individuals potentially present within the Project Area. This number is a rough estimate based on extrapolating individuals counted within quadrats and varies with natural variation of the vegetation type and should be used as a rough guide only.

Gomphrena leptophylla (P3) was previously recorded in close proximity to the Project Area. Existing records of *G. leptophylla* were visited during the TRW Survey for confirmation, and taxa identical to this were recorded and collected multiple times during the surveys. However, these collections were confirmed by Mike Hislop of the WA Herbarium to be



G. sordida (not significant). These specimens matched photographs from other reports (Ecoscape, 2021) in the locality and as such there may be confusion in the literature between the species. This species occurred in conjunction with minor granite outcroppings and vegetation types AeTe, and AtpTe, as well as on the banks of minor drainage vegetation type ChAspTrc. As such this taxon was considered to have a low likelihood of occurrence, with the caveat of potential taxonomic confusion.

Triodia basitricha (P3) was limited to pisolitic ironstone low rises and hills, which could be easily seen via aerial imagery. This geology appears limited within the Project Area and the locality, however is common more across the Hamersley Ranges. A small population was also recorded within an ecotonal area of vegetation type GWAaTs, which is not considered to be its primary habitat.

Ptilotus mollis (P4) was only recorded from a low hill on the east of the Project Area, and is considered unlikely to extend outside of the ironstone hill landform it occurs on. *Ptilotus mollis* is widespread across the Pilbara (DBCA, 2024) within a restricted landform of shale/high grade iron hills, and often in higher altitudes.

Three taxa were considered to have a medium likelihood of occurrence following the surveys based on the reasoning below:

- *Abutilon* sp. Pritzelianum (S. van Leeuwen 5095) (P3) occurs in close proximity (~14 km) to the Project Area, and is known to occur in disturbed sandy areas and potentially following fire. With taxa that sprout following fire or disturbance it can be difficult to definitively say they would not grow in any particular area within its range. There are historic records in all cardinal directions of the Project Area.
- *Acacia levata* (P3) was recorded in close proximity to the Project Area (~11 km), in habitat that occurs within the Project Area (granite outcroppings). Many smaller granite outcroppings were heavily burnt and have some potential to support the taxon.
- *Stylidium weeliwolli* (P3) was recorded 23 km east of the Project Area in minor drainage that connects to the Project Area. Another species of *Stylidium* (*S. desertorum*) was recorded within the TR Survey Area in similar geology, and species of *Stylidium* are known to be small, cryptic, and short-lived in the Pilbara. It is also unknown how it responds to fires.

Acacia leeuweniana (P1) is considered to have a low likelihood of occurrence following the survey. Individuals of *Acacia leeuweniana* (P1) were noted to occur outside of the Project Area (to the west and south) within 5 km and could be easily seen via helicopter and along the vehicle access track. This taxon only appears to grow on the largest granite boulders and does not occur anywhere within the Project Area as the boulder formations do not appear to be large enough to accommodate the species. Recent fires are not expected to have impacted its presence as low trees of *Terminalia circumalata* are still present in these landforms, and dead trunks would be obvious for identification due to its minni-ritchie bark. As such, despite its close proximity and suitable habitat, this taxon was assessed as having a low likelihood of occurrence.

The threatened taxon *Quoya zonalis* (Previously *Pityrodia* sp. Marble Bar (G. Woodman & D. Coultas GWDC Opp 4)) is known to occur to the east of the Project Area in the large ironstone/granite hills and mesas surrounding the Iron Bridge Mine. None of this landform exists within the Project Area and this taxon would not occur.



5.3 Flora of Other Significance

Of the vascular flora recorded during the survey, 18 were considered to be of other significance. Of these, three were considered to be range extensions, and six were considered to be significant for taxonomic reasons. Nine of these taxa were considered hybrids (Eight *Acacia*, one *Senna*) of other taxa occurring in the Project Area. The parent species of the hybrids are not significant, and hybridisation between these genera are commonplace, they are not discussed further.

Zornia muelleriana subsp. *congesta* and *Polygala galeocephala* have previously only been recorded in the Pilbara approximately 100 km north of the Project Area, in the localities of Port Hedland and Karratha. Both are annual taxa that are likely more widespread than previously recorded. *Zornia muelleriana* subsp. *congesta* is a low sprawling herb which was found growing among low to medium sized granite outcroppings, in the shaded overhangs. *Polygala galeocephala* is a low herb with purple/pink flowers, recorded from burnt drainage lines and the outskirts of granite outcroppings. It is possible that *P. galeocephala* is lesser known due to it being a fire ephemeral, as it was only recorded in burnt areas. Both of these taxa are more commonly found across the northern bioregions such as the Central, and Northern Kimberly, and Dampierland.

Portulaca digyna is a more significant range extension, with the closest known population ~600 km northeast in the Dampierland bioregion. This taxon is a cryptic annual herb, with foliage similar in colour to the red/orange dirt of the area, and pebble sized and shaped leaves. Even when flowering, the flowers are relatively small and inconspicuous. It is likely that this taxon is more widespread in the Pilbara than currently known. Woodman Consulting have recorded individuals that are likely to have been this taxon in the Pilbara previously (Woodman Environmental, 2016, 2019), however the condition was too poor to confirm. Specimens were confirmed by M. Hislop (Accession #9541).

Six taxa are considered significant for taxonomic reasons, and are considered by SLR to be potentially novel due to anomalous features.

Amaranthus aff. *undulatus* occurs in the same granite outcropping habitat as other significant flora (*N. umbratica* (P3), *P. hebecarpus* (P3), and *B. burbridgeae* (P4)), preferring the sheltered shaded overhangs of larger boulders. It was also identified by Ecoscape (2018) during surveys in the Turner River Survey Area and noted as a species of interest. SLR considers this species to be novel and with a potential to be classified as a significant species due to limited distribution and restricted habitat.

Bonamia pilbarensis (tight indumentum form) is a known variation to the common *B. pilbarensis* (also recorded within the Project Area). This variation is a known form of *B. pilbarensis*, occurring just south of Port Hedland, with a “denser indumentum of white hairs giving the plant a silver appearance” (Johnson, 2014). SLR believes that this form is distinctly different to *B. pilbarensis*, and should be considered either a novel species, or subspecies of the taxon, and unlikely to be of conservation significance.

Eriachne sp. Coongan Station (A.A. Mitchell PRP1566) is a low tussock grass found growing in sandy plains, often next to thin incised sheet flow channels. This species has been proposed as a new species pending listing, and has been recorded east of the Project Area near Coongan Station, in similar habitat of granite outcroppings and sandy plains. It is expected that this species will be given a priority status. This taxon was not known to exist during the TR and TRW Surveys, and was only highlighted following reviews by taxonomic specialists. As such, it is assumed that many individuals of *E. obtusa* recorded during the TR and TRW Surveys may be this novel taxon, as it is very closely related.

Polymeria sp. stoloniferous is a prostrate herb that seems to respond well to fire. This taxon is known to occur across the Pilbara by M. Hislop (Pers. Comm. 2023), and into the Kimberly. As such it is unlikely to be of significance despite never being formally described.



Solanum aff. *cleistogamum* is a low shrub that can be reliably differentiated from traditional *S. cleistogamum* (*sens. lat.*) by its habitat in sandy drainages, upright low shrub habit, and dense prominently orange prickles on the stem. It is unknown if this taxon is a distinct species or an edaphically driven form, and no distinction in fruit nor flower was noted.

Trianthema aff. *oxycalyptum* is a low herb found growing on the sandy plains of the Project Area. Taxonomically this entity has features of many similar *Trianthema* in the region, with the leaves and form of *T. glossostigmum*, and the seeds and operculum of *T. oxycalyptum*. SLR considers this to be a novel entity which can easily be distinguished by the combination of features, and apex of the floral whorl. However, the genus is poorly described and in need of review to accommodate current taxonomy. SLR has reviewed specimens and photographs suggesting this novel taxon may occur as far as Marble Bar, and into the Kimberley region, and as such is unlikely to be of conservation significance.

5.4 Introduced Flora

Eleven introduced (weed) flora taxa were recorded in the Project Area. Locations and numbers of the taxa were recorded when encountered, however all the introduced taxa should be considered to be more widespread than illustrated.

Common Prickly Pear (**Opuntia ?stricta*) was common through the major drainage of the TRA Survey Area, spread in conjunction with cattle movement and rain events. *Opuntia* species are considered weeds of national significance (WoNS) and Declared Pests (DP).

Calotrope (**Calotropis procera*) is considered a DP, occurring across major drainage landforms, alongside **Opuntia ?stricta*. The remaining weed taxa are considered to be widespread in the Pilbara, generally dispersed by wind, water, and cattle.

5.5 Vegetation Types and Mapping Reliability

Mapping reliability was considered either high or moderate-high across the Project Area, directly relating to recent fires. Where the fire affected vegetation in January 2022, mapping reliability was considered moderate-high, as the dominant *Acacia* could not confidently determined with many varying juveniles sprouting in many places. However, Fortescue provided high-resolution aerial imagery of the area prior to the burn, which allowed for mapping from sampled areas with some confidence. Where the vegetation was unburnt, mapping confidence was considered high. The entire burnt area was surveyed by helicopter and then walked to confirm and install sites.

Five broad landforms (clay, drainage, hills, outcroppings, and plains) were recorded within the Project Area. Vegetation within the Project Area was representative of existing broad scale vegetation and soil and land system mapping for the area.

The Project Area is represented by four broad vegetation associations, the most dominant of which is the Abydos Plain (Chichester 93) association. This vegetation association is restricted to the Pilbara, predominantly in the Chichester (PIL01) subregion, with 99.88% of its pre-European extent considered to currently remaining. However, this dataset is no longer being updated as of 2018, and these numbers do not take into account any impacts since then.

5.6 Vegetation of Conservation Significance

No vegetation types were considered representative of any TECs or PECs within the Project Area. The Gregory Land System Priority 3 community identified by the database searches was not recorded during the Survey, and no aligning landform (linear sand dunes) was present.



Vegetation type AsyAISf was considered to be locally significant as it was similar in composition to the 'Mitchell grass and Roebourne Plain grass plain Gilgai' Priority 3 ecological community, which is a sub-community of the 'Four plant assemblages of the Wona Land System (previously 'cracking clays of the Chichester and Mungaroona Range')'.

However, as the AsyAISf vegetation type does not intersect the Wona Land system, it is not considered to represent the 'Mitchell grass and Roebourne Plain grass plain on Gilgai' Priority 3 ecological community. It is still considered locally significant however as it supports a population of *Neptunia longipila* (P2) and is limited in distribution within the Project Area, and unlikely to be widespread outside the Project Area. Vegetation type ChAspTe also supported some *N. longipila* (P2), due to some isolated patches of clay appearing in the landform. These are considered isolated ecotonal patches and ChAspTe is not considered to be the primary habitat of *N. longipila* (P2), however is still considered locally significant due to its presence.

Four units are considered to be significant for the following reasons, all of which appear to be represented outside the Project Area on aerial imagery to some extent:

- **AspTba** – Covering only 67.37 ha (0.61% of the Project Area and supporting *Triodia basitricha* (P3). This vegetation occurs on darker pisolitic ironstone, in a thin band stretching east and west of where it occurs in the Project Area. It is unlikely to occur outside this geology and appears to be limited in the locality. *Triodia basitricha* has a wide range across the Pilbara, and is not restricted to the locality. As such AspTba is considered locally significant.
- **ChAaTc** – Covering 877.19 ha, this vegetation supports large numbers of *Triodia chichesterensis* (P3) which occurs as a dominant to subdominant (with *T. wiseana*) low hummock grassland. The landform that supports this vegetation (very low calcrete/quartz expressions across plains) is scattered within the Project Area, and always supported *T. chichesterensis* when it did occur. Given the numbers of *T. chichesterensis* within this vegetation type, ChAaTc should be considered of regional significance.
- **TcAtpTla** – Covering 42.93 ha, this vegetation was restricted to the larger granite boulder outcroppings of the Project Area, this vegetation was limited in distribution in the locality. This unique landform supported three priority taxa (*Phyllanthus hebecarpus* (P3), *Nicotiana umbratica* (P3), and *Bulbostylis burbridgeae* (P4)), as well as the potentially novel taxon *Amaranthus* aff *undulatus*. The granite boulder geology also creates habitat for numerous fauna taxa, and is a common canvas for traditional art. Given the restricted distribution and refuge of multiple significant flora taxa, this vegetation and landform should be considered regionally significant.

Two additional vegetation units (GwAaTs, and ChAaTs) were considered locally significant due to restricted distribution within the Project Area (<1%). However, neither of these units are dominated by any species that are considered uncommon or restricted, and both appear to be well represented outside the Project Area based on aerial imagery. GwAaTs supported one population of *Triodia basitricha* (P3) which was considered to be present due to the ecotonal landform of the nearby vegetation type AspTba.

5.7 Survey Adequacy

The survey effort for all three surveys were in accordance with the scope of works, and appropriate for a detailed flora and vegetation survey in the Pilbara. At least three flora sites were sampled within each vegetation type within the Project Area where possible. Three vegetation types could not be sampled with three flora sites due to restricted distribution and recent burns. One was sampled with two sites (AanTI) and two with a single site (AsyAISf



and GwAaTs). All other vegetation types were able to be sampled with three or more sites over the consolidated survey effort.

The inventory of vascular flora, and records of significant flora and weed species was compiled using site data and opportunistic observations made while traversing between sites and during systematic targeted searching. The entire Project Area was not systematically searched, and therefore additional flora taxa, and records of significant flora and weed species may be recorded with additional survey effort. Where the Project Area was recently burnt, on ground survey effort was reduced.

The species accumulation curve was approaching asymptote following the survey analysis. When a curve approaches an asymptote, it indicates sampling effort has been sufficient to adequately collect the species comprising the floral assemblage at the locations sampled. The value at which the curve asymptotes can also be used as an approximate measure of the total size of the species complement at that location. The species accumulation curve and the richness estimators approached asymptote but did not plateau, indicating additional survey could record additional vascular flora taxa. The curve however is conservative, as opportunistic and unconfirmed flora are not included, and when these are included then the number of flora recorded (463) is 107.77% to 123.29% of the expected species richness. Due to the variation between burnt and unburnt areas, this can affect the species accumulation curve to give the effect of additional floristic variation, which would not be present in stabilised unburnt vegetation.



6.0 Conclusion

- No Threatened flora species pursuant to the EPBC Act 1999 and/or gazetted as Threatened pursuant to the BC Act 2016 were recorded during the survey.
- Twelve DBCA listed Priority flora were recorded; *Neptunia longipila* (P2), *Euphorbia clementii* (P3), *Euploca mutica* (P3), *Goodenia obscurata* (P3), *Gymnanthera cunninghamii* (P3), *Nicotiana umbratica* (P3), *Phyllanthus hebecarpus* (P3), *Rothia indica* subsp. *australis* (P3), *Triodia basitricha* (P3), *T. chichesterensis* (P3), *Bulbostylis burbridgeae* (P4), and *Ptilotus mollis* (P4).
- Six taxa were recorded that were considered to be potentially novel taxa. Two of these (*Amaranthus* aff. *undulatus* and *Eriachne* sp. Coongan Station (A.A. Mitchell PRP1566)) are considered to be of potential conservation significance.
- Eleven introduced species were recorded during the survey, including **Opuntia ?stricta* (WoNS, DP) and **Calotropis procerus* (DP).
- Much of the Project Area was recently burnt, leading to low mapping reliability in burnt areas, and an increase in fire ephemeral species.
- Twenty three vegetation types were mapped within the Project Area across clay, drainage, hills, outcroppings, and plains. The majority of the Project Area was represented by Mixed *Acacia* species over *Triodia lanigera*/*T. epactia* plains.
- No TECs or PECs were recorded within the Project Area.



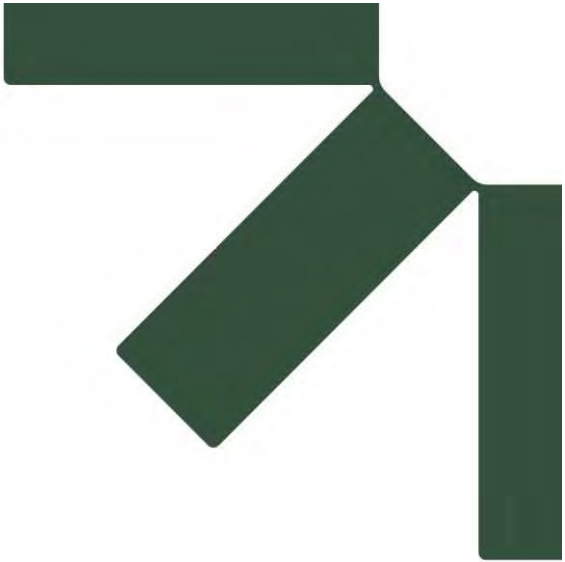
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Appendix A Figures

Detailed Flora and Vegetation Assessment

Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

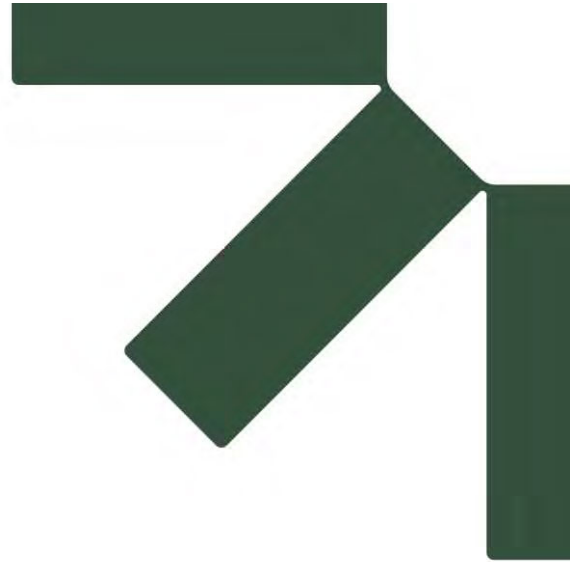


Figure 1: Turner River Consolidated Project Area

Figure 2: Soil Landscapes, Land systems, and Hydrography

Figure 3: Broad Vegetation Associations

Figure 4: Conservation and Environmentally Sensitive Areas

Figure 5: Previous Surveys in the Locality

Figure 6: Survey Effort

Figure 7: Significant Flora and Communities Identified by the DBCA Database Searches

Figure 8: Vegetation Mapping and Flora of Significance within the Project Area

Figure 9: Fire History in the Locality

Figure 10: Vegetation Condition and Introduced Flora within the Project Area

118°45'0"E

118°50'0"E

Turner River

Chinnamon Creek

GREAT NORTHERN HIGHWAY

Gilliam Creek

21°10'0"S

21°10'0"S

21°15'0"S

21°15'0"S

21°20'0"S

21°20'0"S



- | | |
|--------------------------------|-------------|
| Project Area | — River |
| Turner River (2022) | —+— Railway |
| Turner River West (2023) | — Road |
| Turner River Additional (2024) | |



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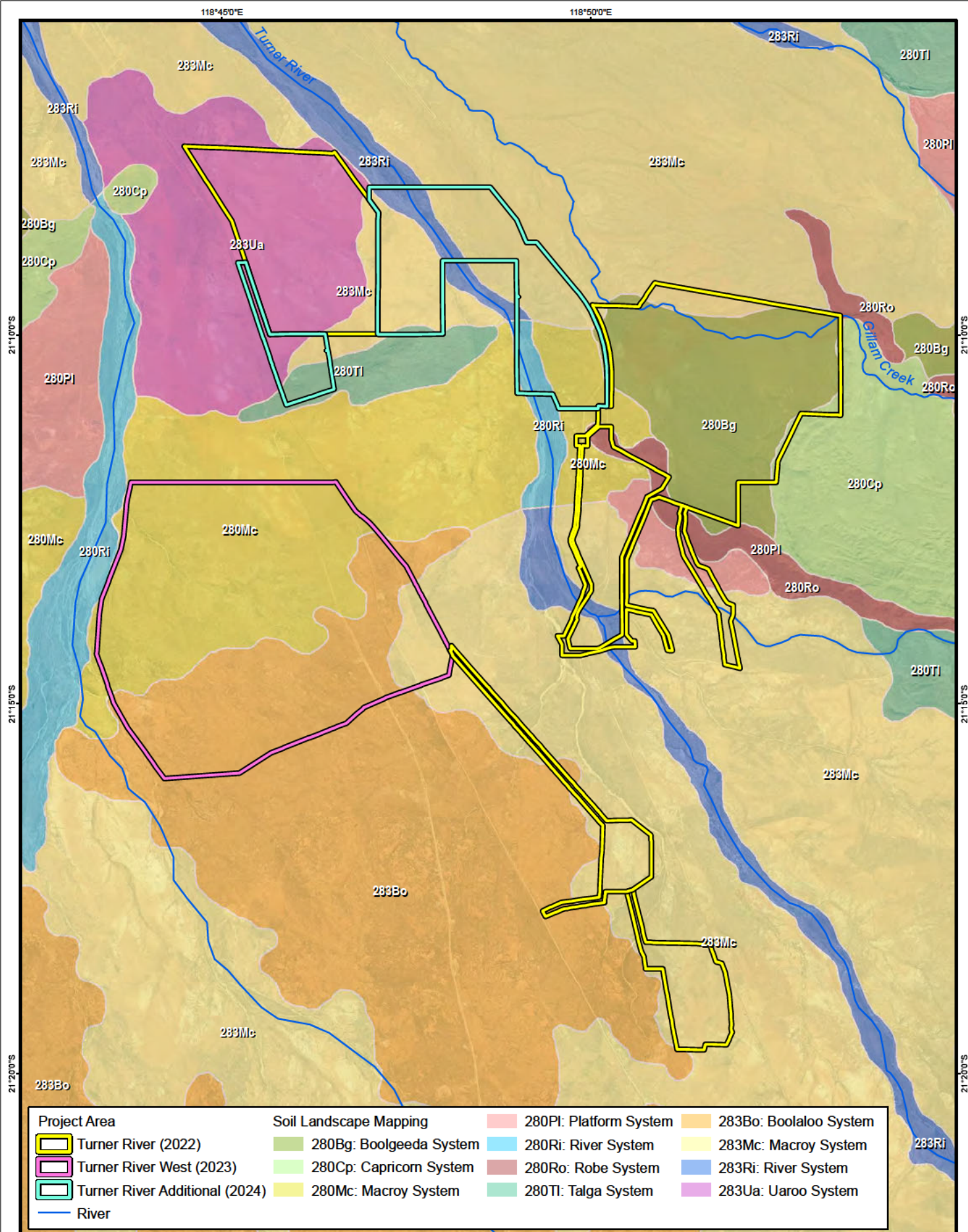
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Project Number : 675.072502
Date Drawn : 28/11/2024
Drawn By
Reviewed By

**Fortescue
Turner River Consolidated
Detailed Flora and Vegetation**

**Project Area
FIGURE 1**

118°45'0"E

118°50'0"E



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Fortescue
Turner River Consolidated
Detailed Flora and Vegetation

Soil Landscape and Hydrography
FIGURE 2

118°45'0"E

118°50'0"E

619

82

626

626

93

619

82

93

Project Area

-  Turner River (2022)
-  Turner River West (2023)
-  Turner River Additional (2024)

River

Railway

Road

Pre-European Vegetation

 ABYDOS PLAIN - CHICHESTER_619 ABYDOS PLAIN - CHICHESTER_626 ABYDOS PLAIN - CHICHESTER_93 GEORGE RANGES_82

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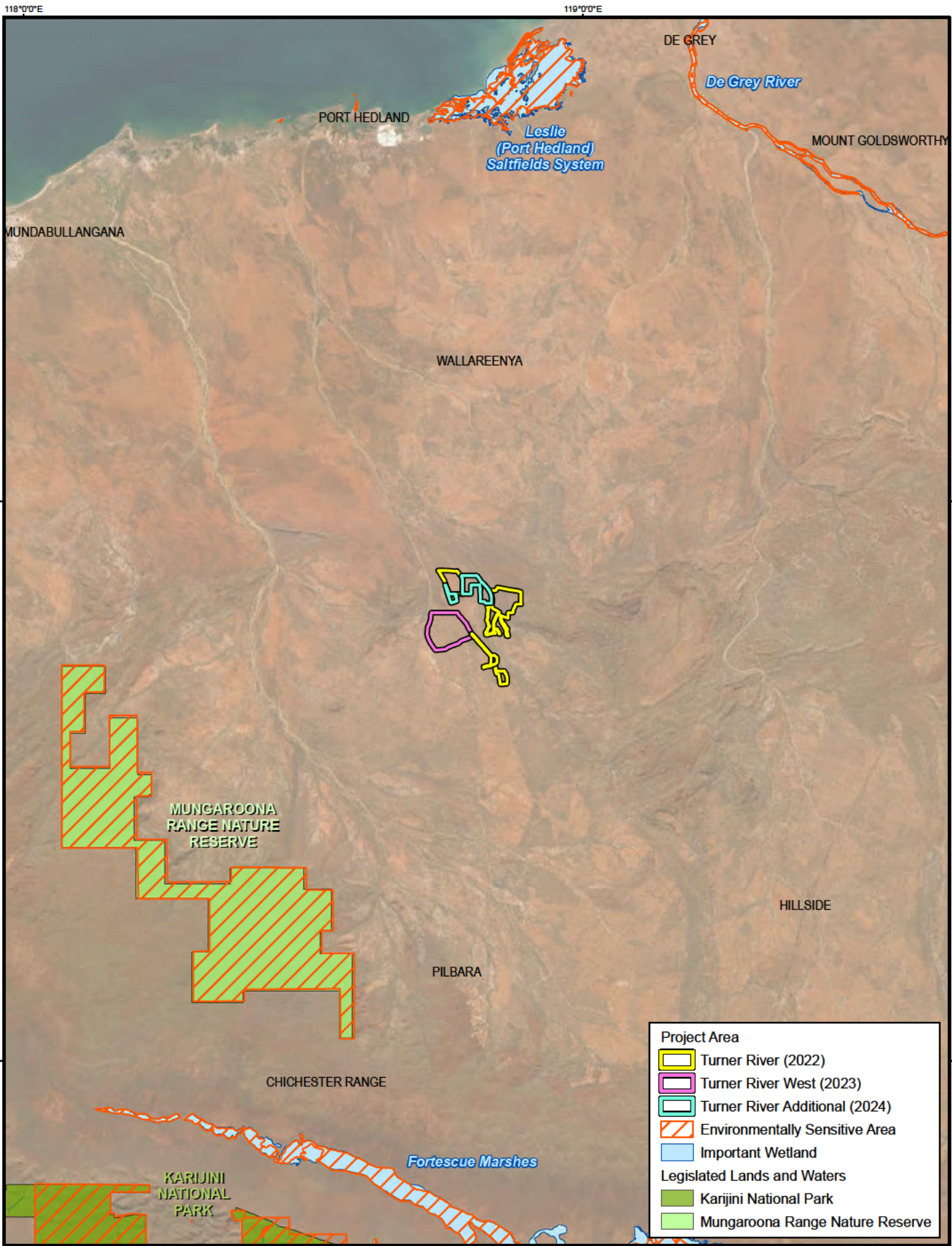
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 Project Number : 675.072502
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Fortescue
 Turner River Consolidated
 Detailed Flora and Vegetation

Broad Vegetation Types
 FIGURE 3

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Legislated Lands & Waters - DBCA

Coordinate System: GCS GDA 1994

Scale : 1:1,000,000 @ A4

Project Number : 675.072502

Date Drawn : 28/11/2024

Drawn By : [REDACTED]

Reviewed By : [REDACTED]

**Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Conservation and
Environmentally Sensitive Areas
FIGURE 4**

Previous Surveys	
Company (Year)	Report Title
360 Environmental (2022)	North Star Junction Flora and Vegetation Assessment
Biota Environmental Sciences (2004)	Vegetation and Flora Survey of the Proposed FMG Stage A Rail Corridor
Coffey Environments (2006)	Supplementary Vegetation and Flora Surveys of the Port Hedland to Cloudbreak Rail Corridor and Associated Borrow Pits and Infrastructure
Coffey Environments (2014)	North Star Alternate Access Road, Flora and Vegetation Assessment
Ecologia Environment (2011)	Canning Basin Borefield and Pipeline Flora and Vegetation Assessment
Ecologia Environment (2011)	North Star Vegetation and Flora Assessment
Ecologia Environment (2012)	North Star Access Corridor Flora and Fauna Assessment
Ecologia Environment (2014)	North Star Acceleration Lane - Vegetation and habitat mapping
Ecologia Environment (2014)	North Star Filtration Plant Relocation, Flora, Vegetation, Vertebrate Fauna and Fauna Habitat Assessment
Ecologia Environment (2015)	North Star Airstrip Flora Level 2 and Fauna Level 1 Assessment
Ecologia Environment (2015)	North Star Slurry and Infrastructure Corridors, Conservation Significant Flora and Vegetation Assessment
Ecologia Environment (2018)	Tabba Tabba: Flora and Vegetation Assessment
Ecologia Environment (2018)	Wallareenya and Strelley Station Detailed Flora and Vegetation Survey
Ecologia Environment (2022)	Quoya zonalis targeted flora survey at West Star Iron Bridge (Priority 1 area)
Ecologia Environment (2023)	Ecologia Environment (2023) North Star Extension Targeted Flora Assessment. Report prepared for FMG Iron Bridge (Aust) Pty Ltd.
Ecologia (2016)	North Star Water Corridor Targeted Significant Flora and Vegetation Survey
Ecoscape (Australia) Pty Ltd (2018)	Glacier Valley Extension Flora and Vegetation Survey, North Star Project
Ecoscape (Australia) Pty Ltd (2020)	North Star Extension Flora and Vegetation Survey
Ecoscape (Australia) Pty Ltd (2020)	Pippingarra and Wodgina Roads: Flora and Fauna Survey
Ecoscape (2019)	Pilbara Transmission Project Targeted Flora and Fauna Survey
Ecoscape (2021)	North Star Junction Flora and Fauna Assessments
Outback Ecology (2014)	Wodgina DSO Project Flora and Vegetation Assessment
Spectrum Ecology (2020)	Quoya Zonalis Targeted Flora Survey
Spectrum Ecology (2020)	Targeted Flora and Vegetation Survey, Iron Bridge
Spectrum Ecology (2021)	Shooting Star & South Star Quoya zonalis Targeted Flora Survey, Iron Bridge
Spectrum Ecology (2022)	Shooting Star Targeted Quoya zonalis Survey

Project Area	
	Turner River (2022)
	Turner River West (2023)
	Turner River Additional (2024)
	Road
	Railway



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 Scale : 1:500,000 @ A4
 Project Number : 675.072502
 Date Drawn : 28/11/2024
 Drawn By :
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Fortescue
 Turner River Consolidated
 Detailed Flora and Vegetation

Previous Surveys in the Locality
 FIGURE 5

118°48'0"E

118°48'0"E

21°30'S

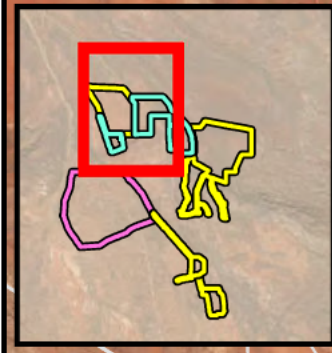
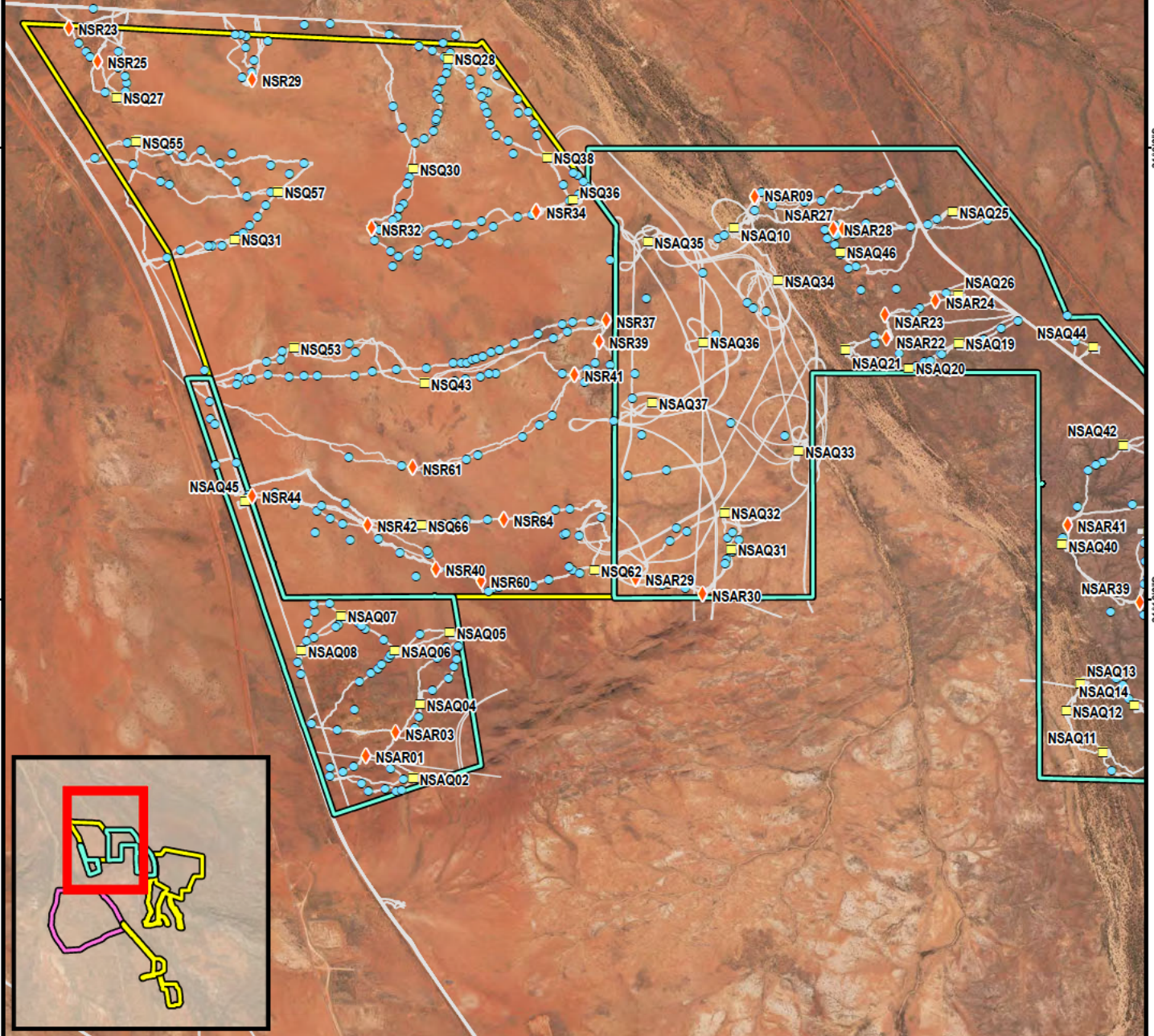
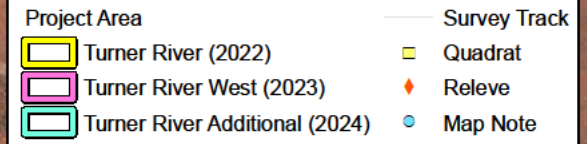
21°30'S

21°30'S

21°30'S

21°10'S

21°10'S

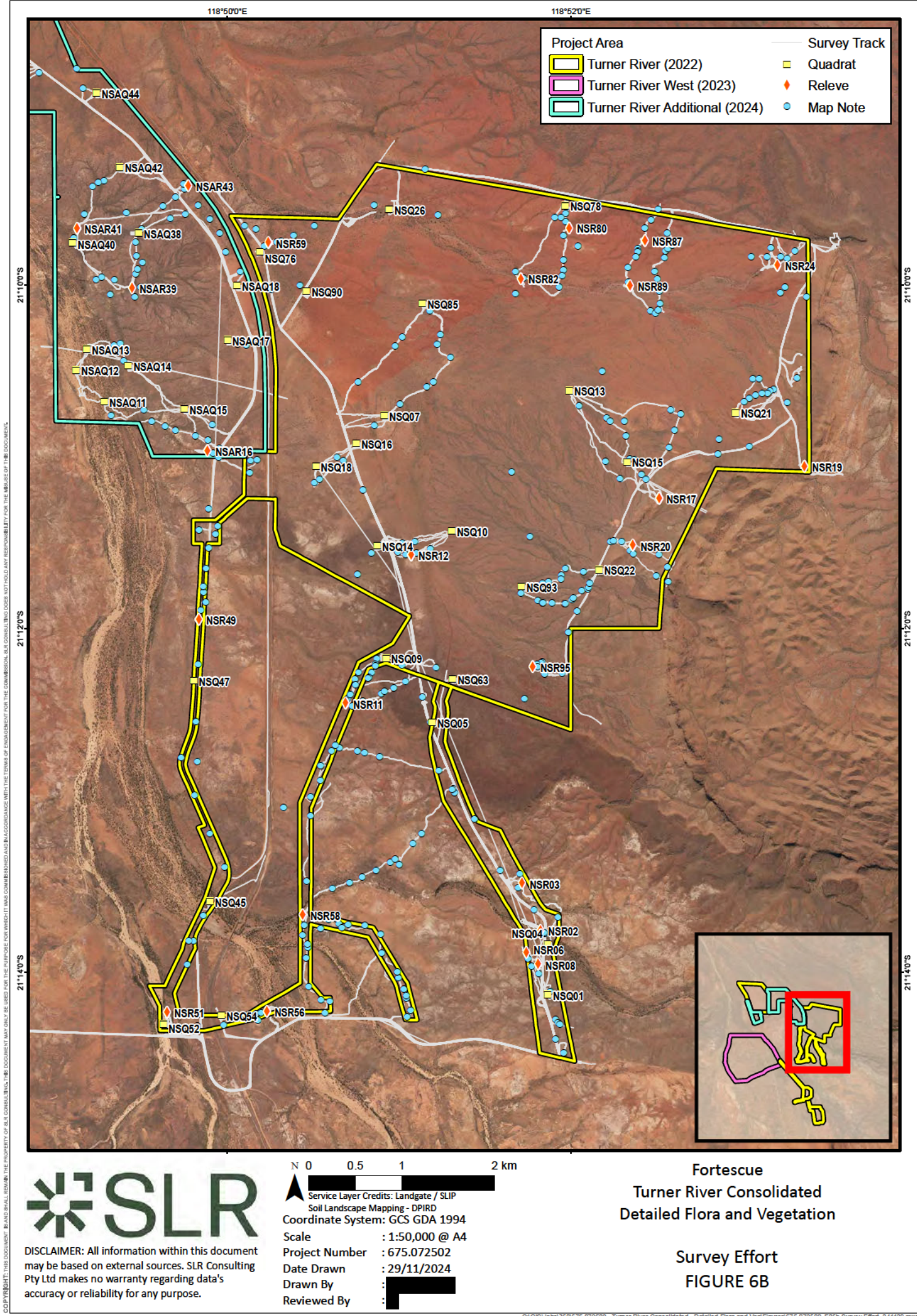


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 Scale : 1:50,000 @ A4
 Project Number : 675.072502
 Date Drawn : 29/11/2024
 Drawn By :
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**Fortescue
 Turner River Consolidated
 Detailed Flora and Vegetation**

**Survey Effort
 FIGURE 6A**



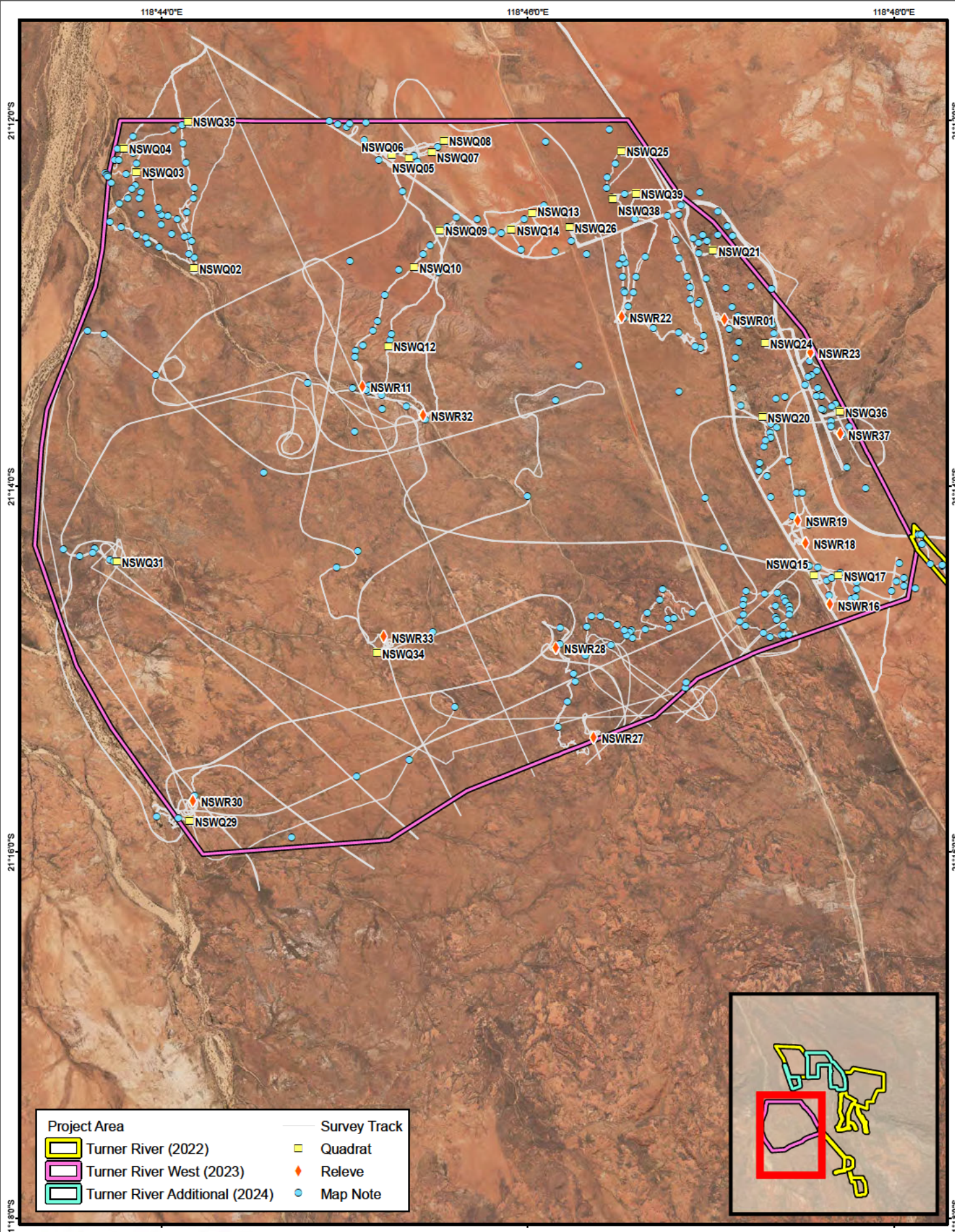
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Fortescue
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 Detailed Flora and Vegetation

Survey Effort
 FIGURE 6B

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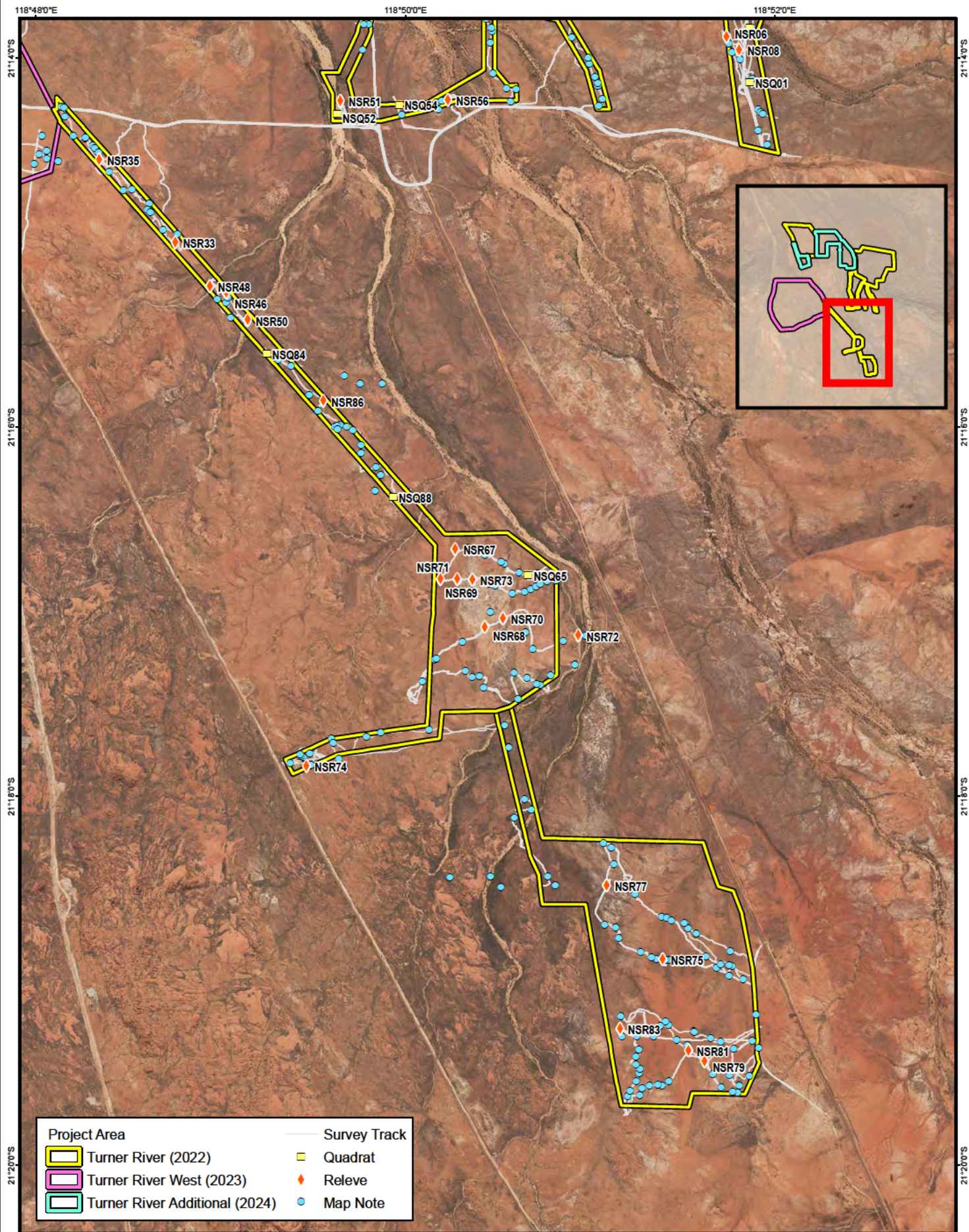


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Service Layer Credits: Landgate / SLIP
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Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By : [Redacted]
Reviewed By : [Redacted]

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation

Survey Effort
FIGURE 6C



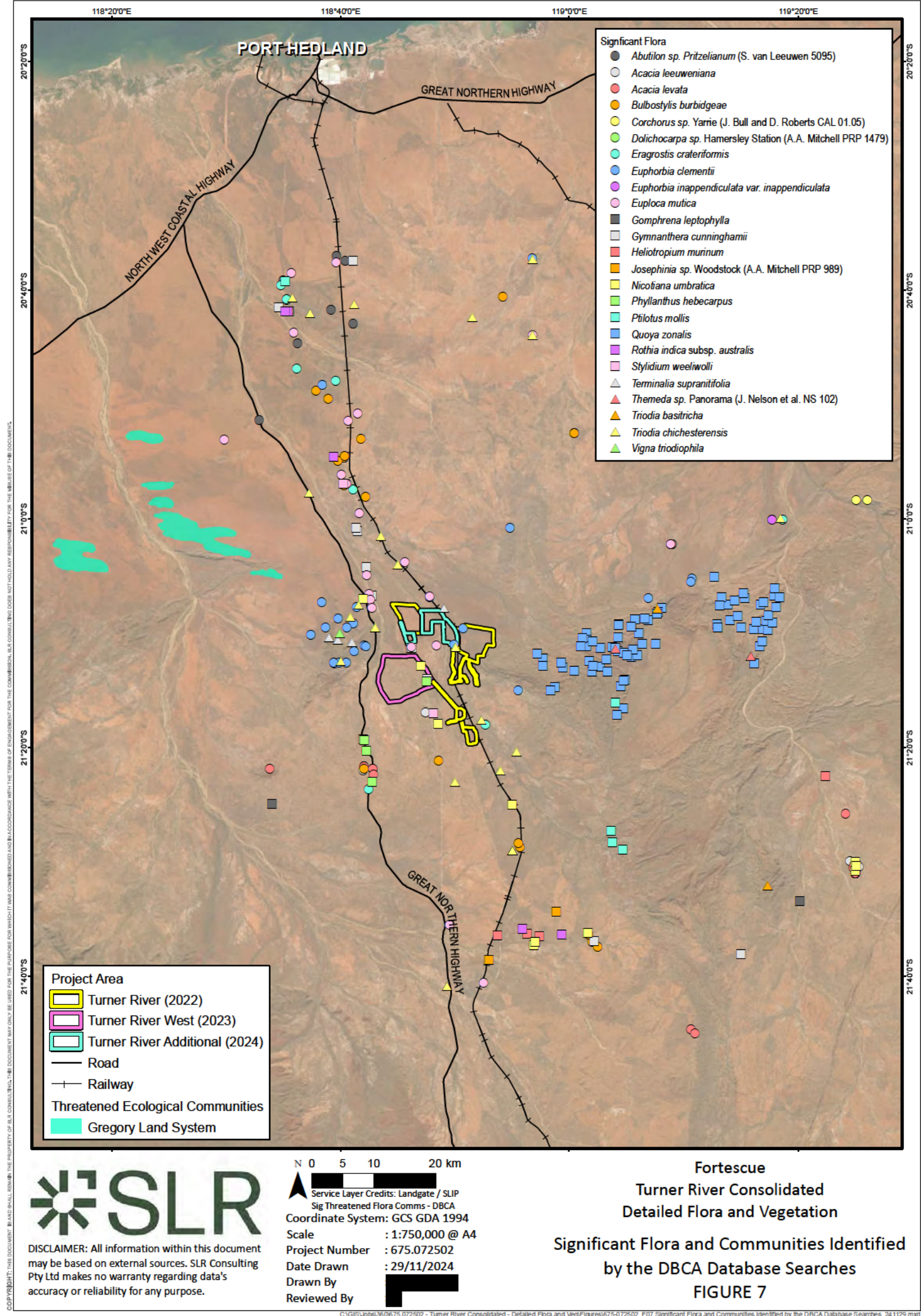
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Date Drawn : 29/11/2024
Drawn By :
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**Fortescue
Turner River Consolidated
Detailed Flora and Vegetation**

**Survey Effort
FIGURE 6D**



118°48'0"E

118°48'0"E

Significant Flora

- *Neptunia longipila* - Priority 2 (DBCA)
- *Eragrostis crateriformis* - Priority 3 (DBCA)
- *Euphorbia clementii* - Priority 3 (DBCA)
- ▲ *Euploca mutica* - Priority 3 (DBCA)
- *Goodenia obscurata* - Priority 3 (DBCA)
- ★ *Gymnanthera cunninghamii* - Priority 3 (DBCA)
- ◆ *Nicotiana umbratica* - Priority 3 (DBCA)
- ◆ *Phyllanthus hebecarpus* - Priority 3 (DBCA)
- ✚ *Rothia indica* subsp. *australis* - Priority 3 (DBCA)
- *Triodia basitricha* - Priority 3 (DBCA)
- *Triodia chichesterensis* - Priority 3 (DBCA)
- *Bulbostylis burbridgeae* - Priority 4 (DBCA)
- *Ptilotus mollis* - Priority 4 (DBCA)
- *Amaranthus* aff. *interruptus* - Other (Anomalous features, potentially new species)
- *Polymeria* sp. *stoloniferous* - Other (Anomalous features, potentially new species)
- ▲ *Solanum* aff. *cleistogamum* - Other (Anomalous features, potentially new species)
- *Trianthema* aff. *oxycalyptum* - Other (Anomalous features, potentially new species)

21°30'S

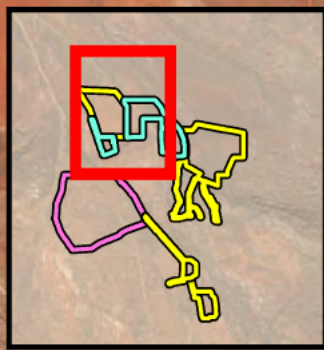
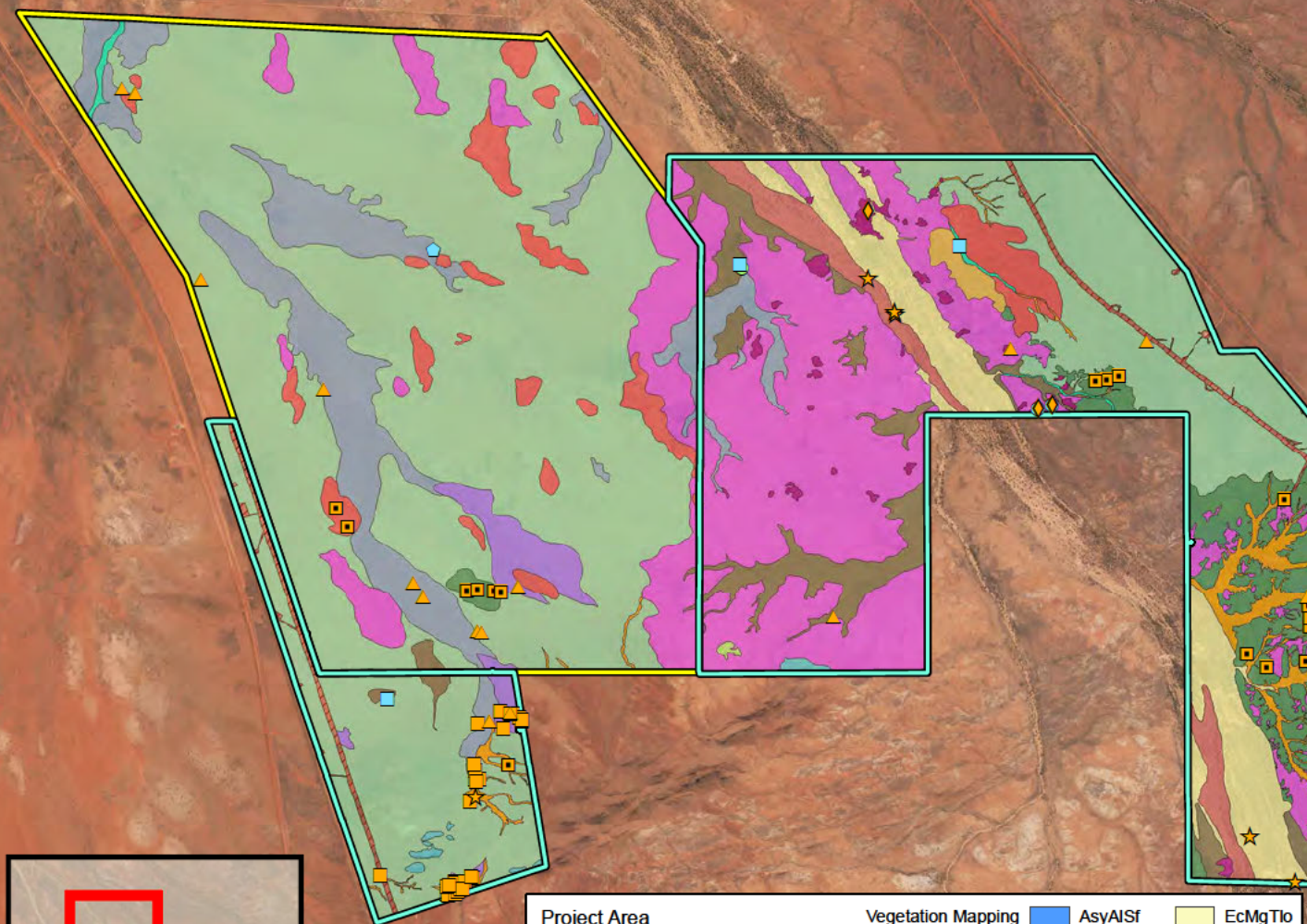
21°30'S

21°30'S

21°30'S

21°30'S

21°30'S



Project Area

- Turner River (2022)
- Turner River West (2023)
- Turner River Additional (2024)

Vegetation Mapping

- | | | |
|----------|-------------|------------|
| ■ AanTi | ■ AtpTe | ■ EcMgTlo |
| ■ AeTe | ■ ChAaTc | ■ EvAtTlo |
| ■ AiAbTw | ■ ChAaTs | ■ GwAaTs |
| ■ AiTw | ■ ChAspTe | ■ MaAcpCi |
| ■ AoTe | ■ ChAspTla | ■ PFTlo |
| ■ AsTla | ■ ChAspTla2 | ■ TcAtpTla |
| ■ AspTba | ■ ChAspTrc | ■ Cleared |
| ■ AspTbr | ■ EcAtTe | |



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N 0 0.5 1 2 km
Service Layer Credits: Landgate / SLIP

Coordinate System: GCS GDA 1994
Scale : 1:50,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By :
Reviewed By :

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Vegetation Mapping and Flora of
Significance within the Survey Area
FIGURE 8A

118°50'0"E

118°52'0"E

Project Area

- Turner River (2022)
- Turner River West (2023)
- Turner River Additional (2024)

Vegetation Mapping

- AanTi
- AeTe
- AlAbTw
- AiTw

- AsTla
- AspTba
- AspTbr
- AsyAISf

- AtpTe
- ChAaTc
- ChAspTe
- ChAspTla

- ChAspTla2
- ChAspTrc
- EcAtTe
- EcMgTlo
- EvAtTlo

- GwAaTs
- MaAcpCi
- PftTlo
- TcAtpTla

- Cleared

21°00'S

21°12'S

21°14'S

21°00'S

21°12'S

21°14'S

Significant Flora

- *Neptunia longipila* - Priority 2 (DBCA)
- *Eragrostis crateriformis* - Priority 3 (DBCA)
- *Euphorbia clementii* - Priority 3 (DBCA)
- ▲ *Euploca mutica* - Priority 3 (DBCA)
- ◆ *Goodenia obscurata* - Priority 3 (DBCA)
- ★ *Gymnanthera cunninghamii* - Priority 3 (DBCA)
- ◇ *Nicotiana umbratica* - Priority 3 (DBCA)
- ◆ *Phyllanthus hebecarpus* - Priority 3 (DBCA)
- + *Rothia indica subsp. australis* - Priority 3 (DBCA)
- *Triodia basitricha* - Priority 3 (DBCA)
- *Triodia chichesterensis* - Priority 3 (DBCA)
- *Bulbostylis burbridgeae* - Priority 4 (DBCA)
- *Ptilotus mollis* - Priority 4 (DBCA)
- *Amaranthus aff. interruptus* - Other (Anomalous features, potentially new species)
- *Polymeria sp. stoloniferous* - Other (Anomalous features, potentially new species)
- ▲ *Solanum aff. cleistogamum* - Other (Anomalous features, potentially new species)
- ◆ *Trianthema aff. oxycalyptum* - Other (Anomalous features, potentially new species)



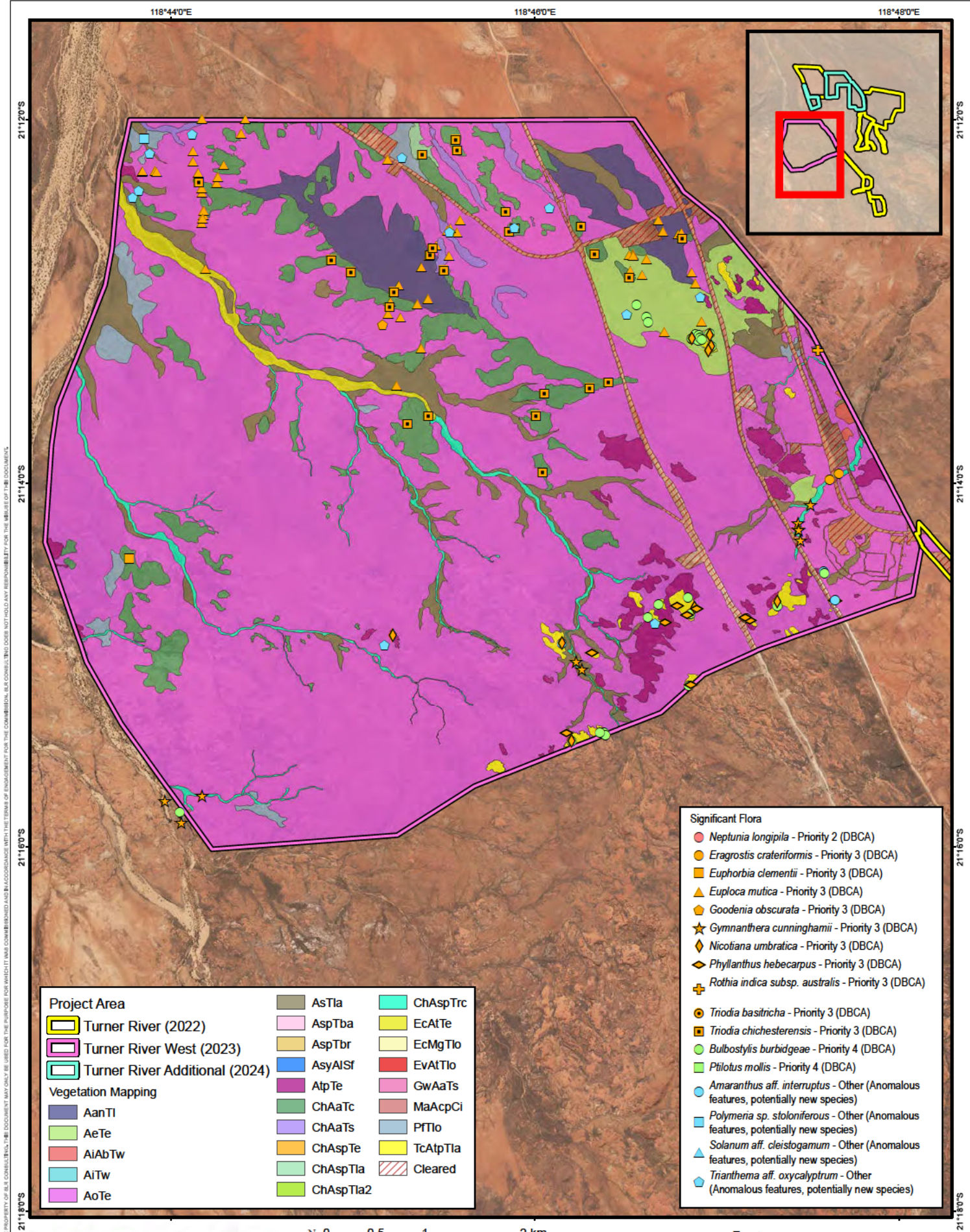
DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding data's accuracy or reliability for any purpose.

N 0 0.5 1 2 km
Service Layer Credits: Landgate / SLIP

Coordinate System: GCS GDA 1994
Scale : 1:50,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By : [REDACTED]
Reviewed By : [REDACTED]

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation

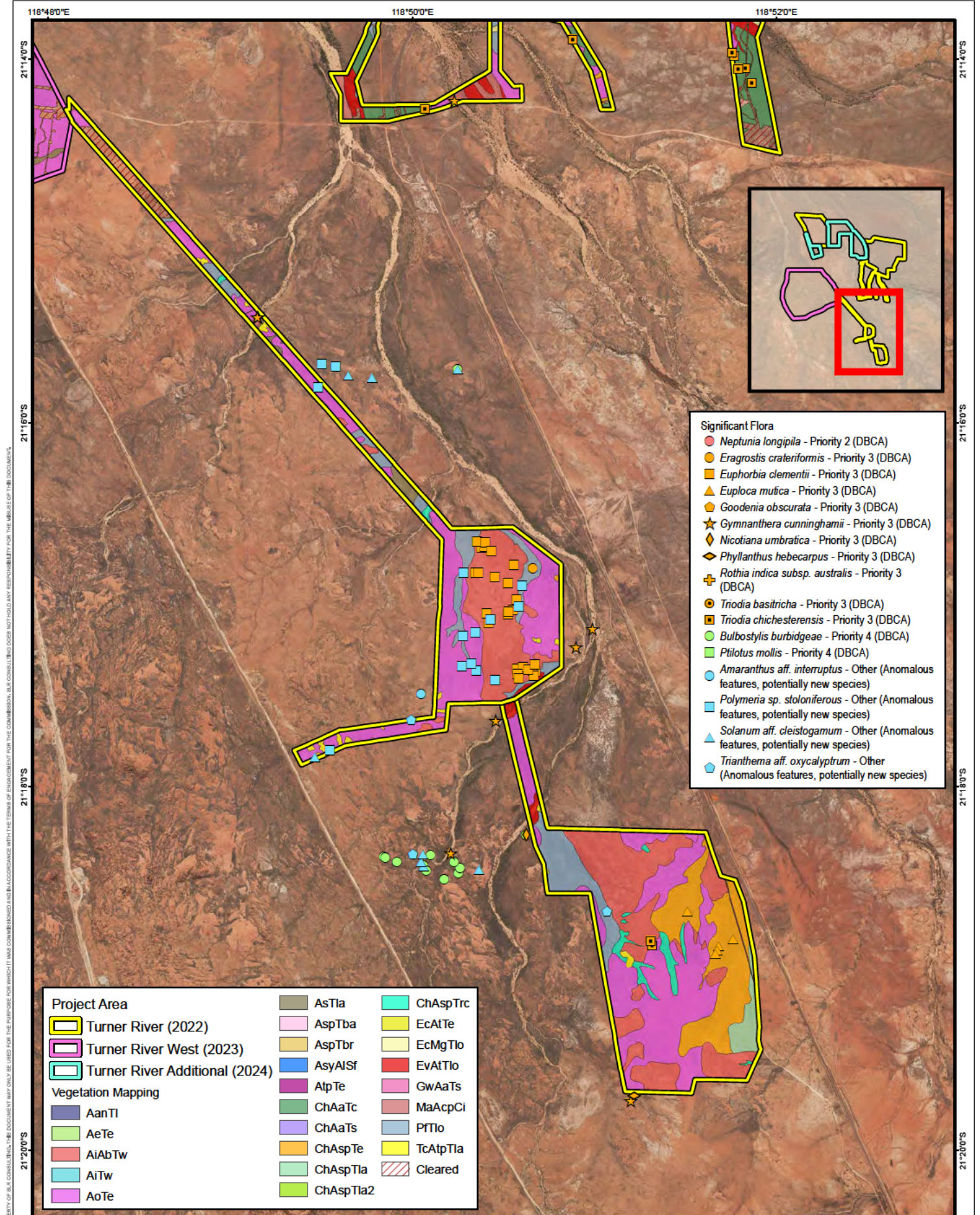
Vegetation Mapping and Flora of
Significance within the Survey Area
FIGURE 8B



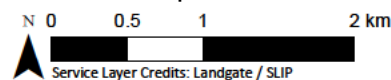
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N 0 0.5 1 2 km
Service Layer Credits: Landgate / SLIP
Coordinate System: GCS GDA 1994
Scale : 1:50,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By :
Reviewed By :

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Vegetation Mapping and Flora of
Significance within the Survey Area
FIGURE 8C



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Coordinate System: GCS GDA 1994
 Scale : 1:50,000 @ A4
 Project Number : 675.072502
 Date Drawn : 29/11/2024
 Drawn By :
 Reviewed By :

Fortescue
 Turner River Consolidated
 Detailed Flora and Vegetation
 Vegetation Mapping and Flora of
 Significance within the Survey Area
 FIGURE 8D

118°45'0"E

118°50'0"E

Project Area

- Turner River (2022)
- Turner River West (2023)
- Turner River Additional (2024)

- River
- +— Railway
- Road

Fire History - Burn Year

- 2022
- 2023
- 2024

21°10'0"S

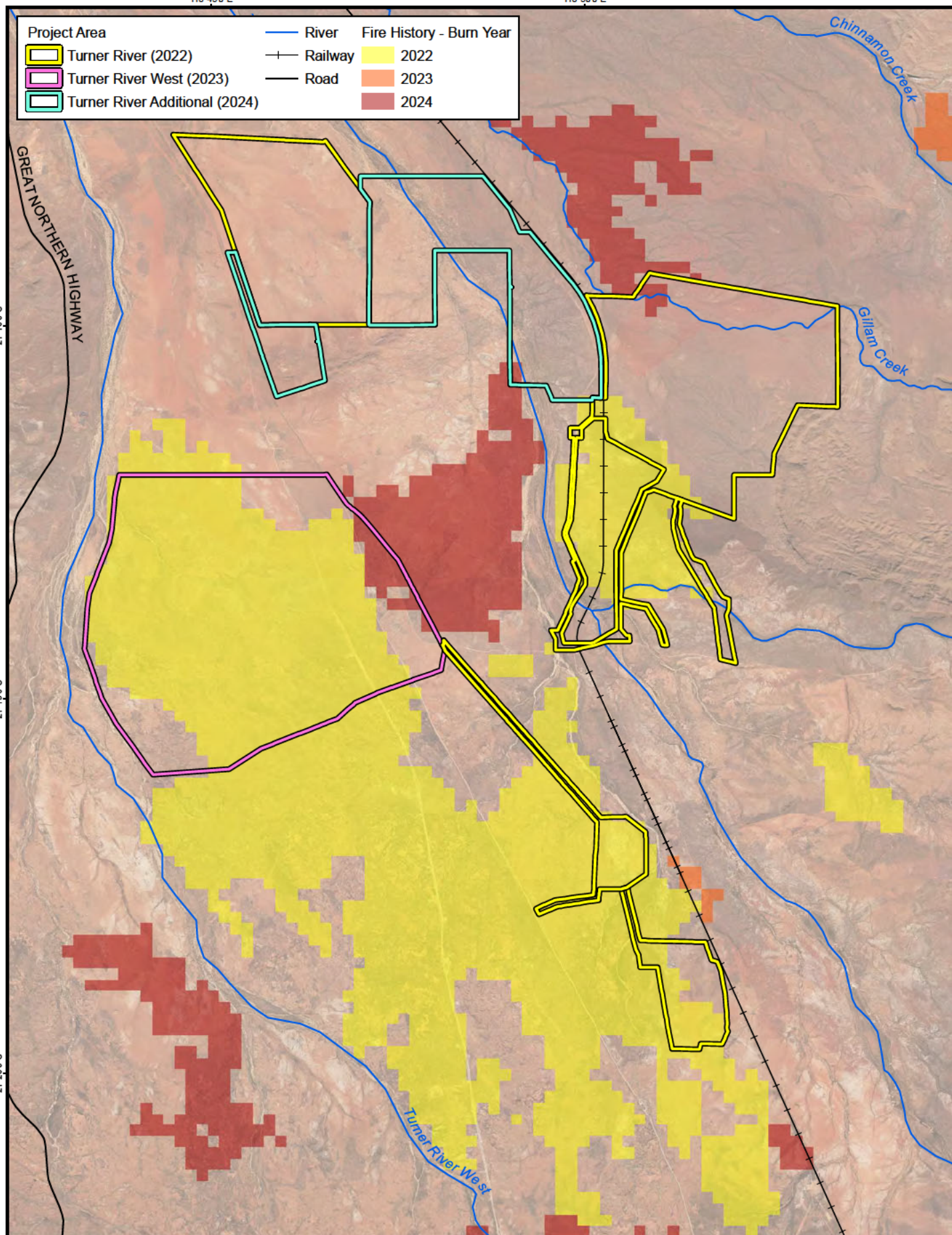
21°15'0"S

21°20'0"S

21°10'0"S

21°15'0"S

21°20'0"S



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N 0 1.25 2.5 5 km
Service Layer Credits: Landgate / SLIP

Coordinate System: GCS GDA 1994
Scale : 1:125,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By : [REDACTED]
Reviewed By : [REDACTED]

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation

Fire History in the Locality
FIGURE 9

118°48'0"E

118°48'0"E

Project Area

- Turner River (2022)
- Turner River West (2023)
- Turner River Additional (2024)

Vegetation Condition

- Excellent
- Very Good
- Good
- Poor
- Completely Degraded

Introduced Flora

- **Aerva javanica*
- **Bidens bipinnata*
- **Calotropis procera*
- **Cenchrus ciliaris*
- **Cenchrus setiger*
- **Chloris pumilio*
- **Flaveria trinervia*
- **Malvastrum americanum*
- **Opuntia ?stricta*
- **Pseudognaphalium luteoalbum*
- **Sonchus oleraceus*

21°30'S

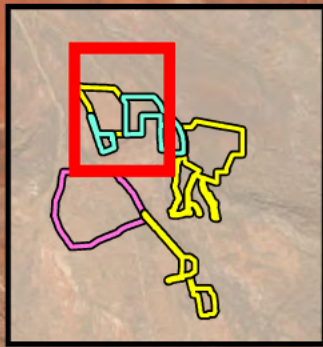
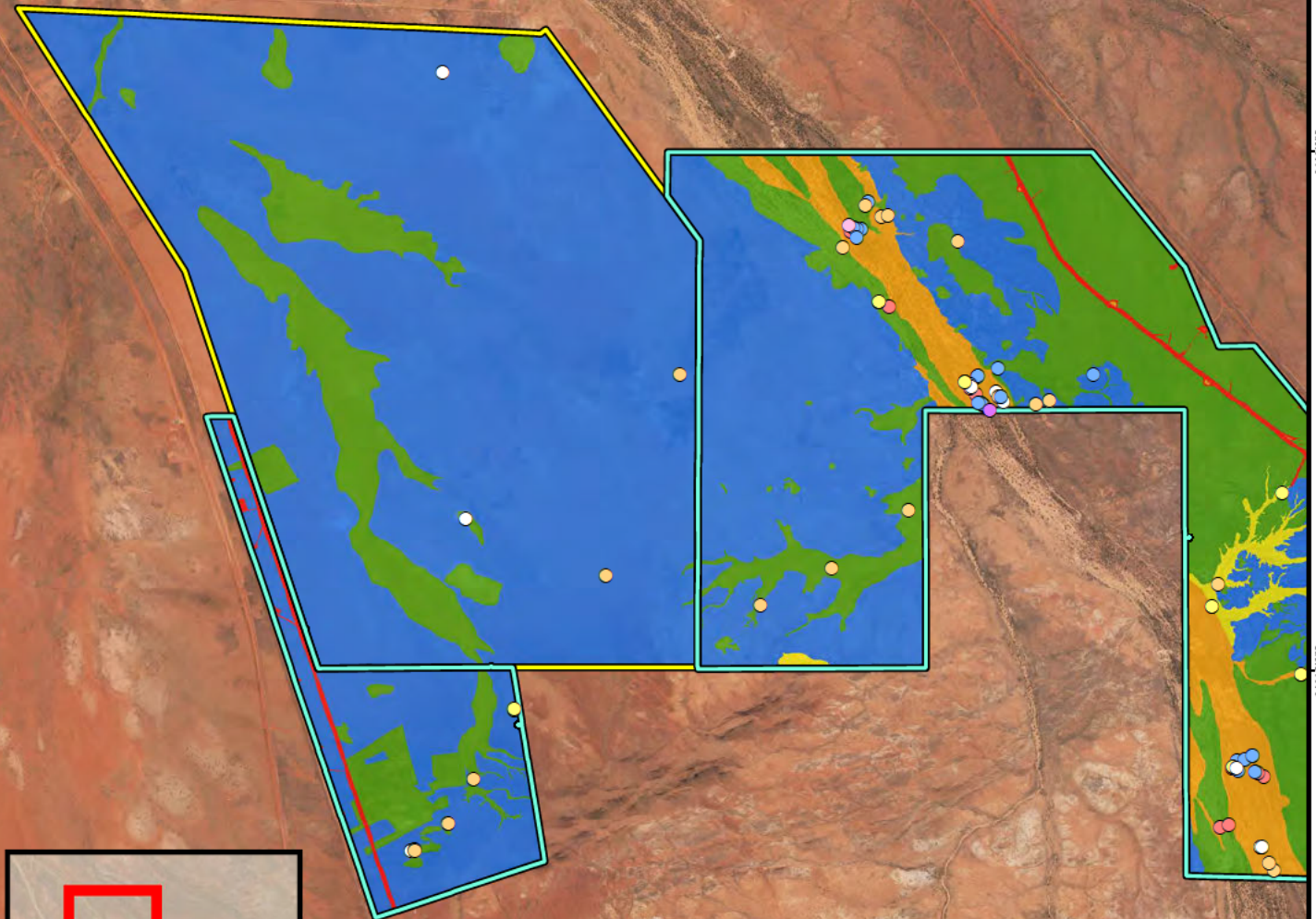
21°30'S

21°10'0"S

21°30'S

21°30'S

21°10'0"S



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N 0 0.5 1 2 km
Service Layer Credits: Landgate / SLIP

Coordinate System: GCS GDA 1994
Scale : 1:50,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By : [REDACTED]
Reviewed By : [REDACTED]

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Vegetation Condition and Introduced
Flora within the Survey Area
FIGURE 10A

118°50'0"E

118°52'0"E

21°10'0"S

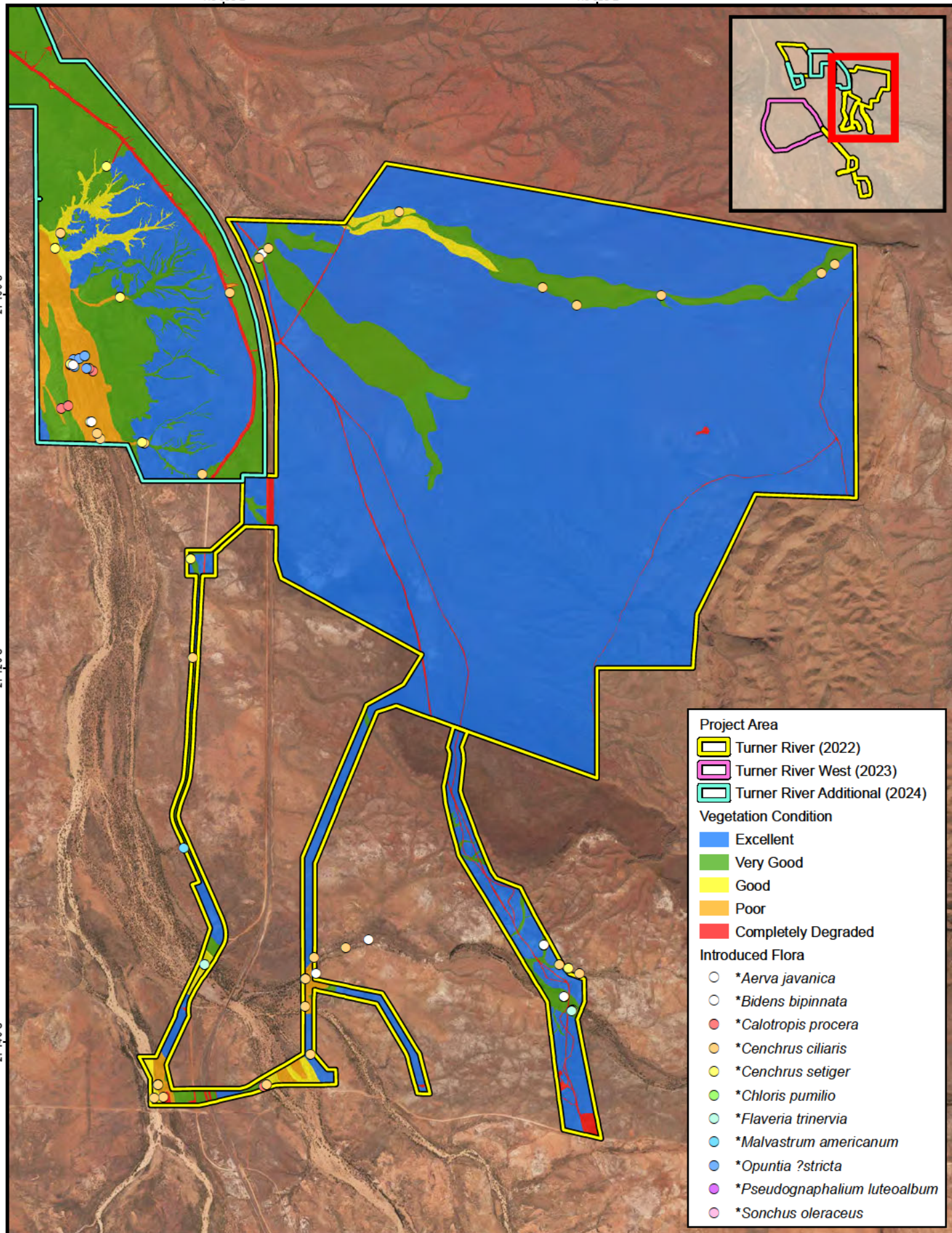
21°12'0"S

21°14'0"S

21°10'0"S

21°12'0"S

21°14'0"S



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N 0 0.5 1 2 km

Service Layer Credits: Landgate / SLIP

Coordinate System: GCS GDA 1994

Scale : 1:50,000 @ A4

Project Number : 675.072502

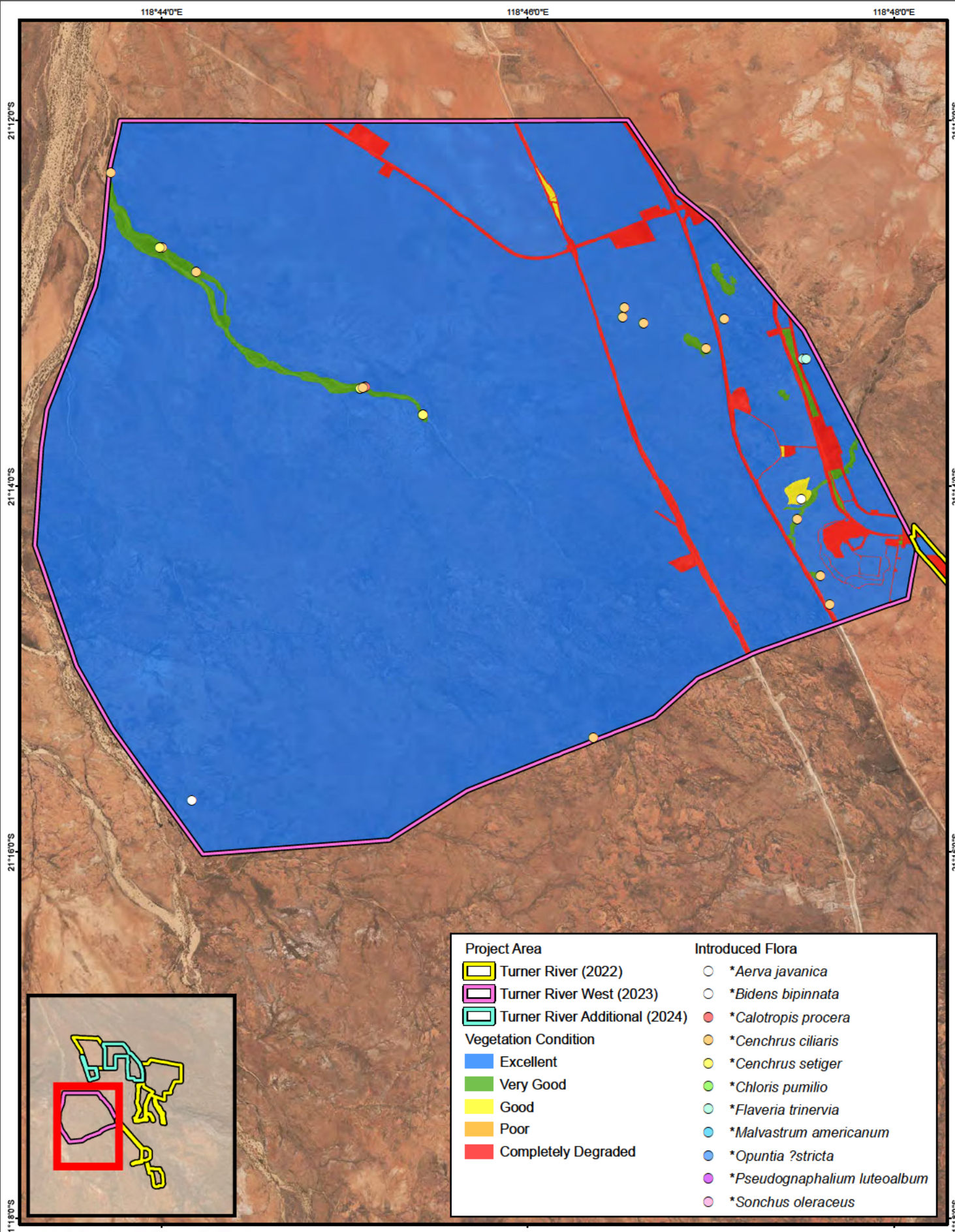
Date Drawn : 29/11/2024

Drawn By

Reviewed By

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Vegetation Condition and Introduced
Flora within the Survey Area
FIGURE 10B

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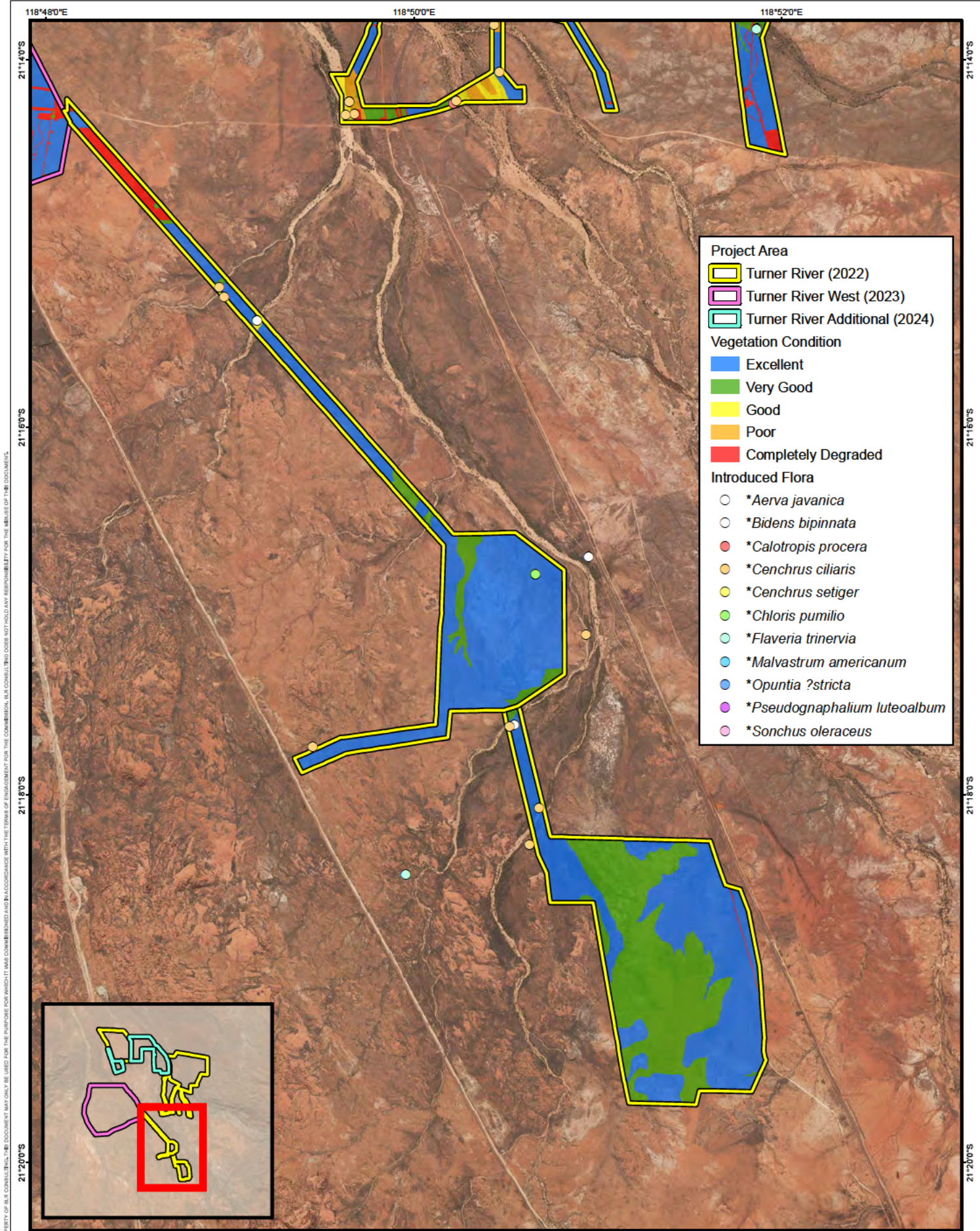
Project Area	Introduced Flora
Turner River (2022)	*Aerva javanica
Turner River West (2023)	*Bidens bipinnata
Turner River Additional (2024)	*Calotropis procera
Vegetation Condition	*Cenchrus ciliaris
Excellent	*Cenchrus setiger
Very Good	*Chloris pumilio
Good	*Flaveria trinervia
Poor	*Malvastrum americanum
Completely Degraded	*Opuntia ?stricta
	*Pseudognaphalium luteoalbum
	*Sonchus oleraceus



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N 0 0.5 1 2 km
Service Layer Credits: Landgate / SLIP
Coordinate System: GCS GDA 1994
Scale : 1:50,000 @ A4
Project Number : 675.072502
Date Drawn : 29/11/2024
Drawn By [Redacted]
Reviewed By [Redacted]

Fortescue
Turner River Consolidated
Detailed Flora and Vegetation
Vegetation Condition and Introduced
Flora within the Survey Area
FIGURE 10C

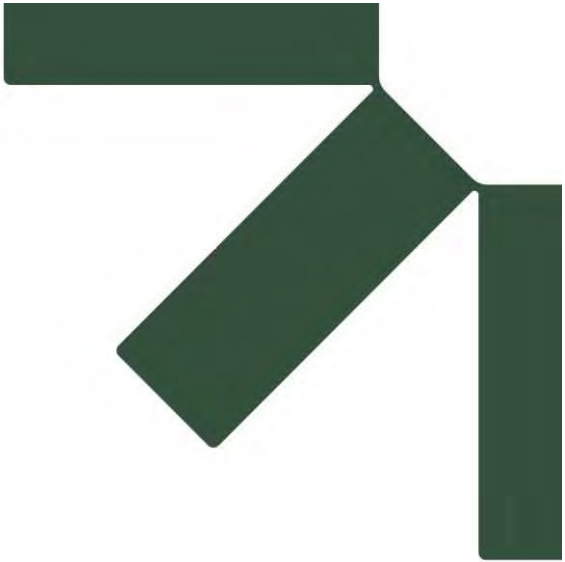


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N 0 0.5 1 2 km
 Service Layer Credits: Landgate / SLIP
 Coordinate System: GCS GDA 1994
 Scale : 1:50,000 @ A4
 Project Number : 675.072502
 Date Drawn : 29/11/2024
 Drawn By [Redacted]
 Reviewed By [Redacted]

**Fortescue
 Turner River Consolidated
 Detailed Flora and Vegetation
 Vegetation Condition and Introduced
 Flora within the Survey Area
 FIGURE 10D**

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Appendix B Flora Literature Review

Detailed Flora and Vegetation Assessment

Turner River Consolidated

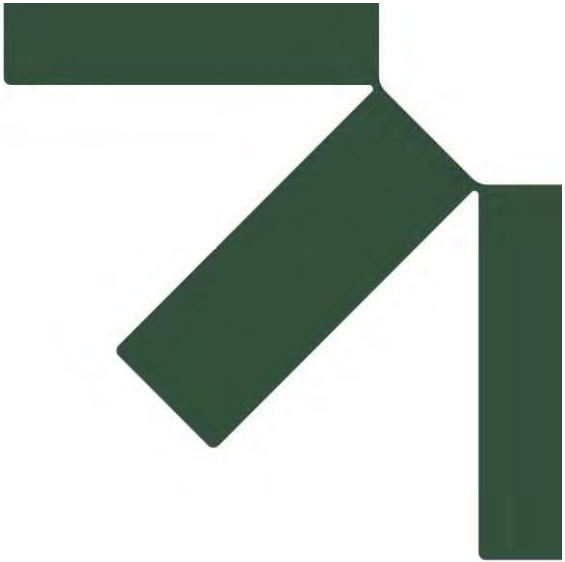
Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Vegetation and Flora Survey of the Proposed FMG Stage A Rail Corridor (Biota, 2014)	Linear intersecting with Survey Area	March/April 2014	Detailed Flora and Vegetation	None within Survey Area	68 Taxa, not all relevant to Survey.	Numerous and widespread
North Star Vegetation and Flora Assessment (Ecologia, 2012)	East of Survey Area and overlapping	Apr-Sep 2012	Detailed Flora and Vegetation	No PECs or TECs	<i>Abutilon</i> sp. pritzelianum (S. van Leeuwen 5095) (P3) <i>Euploca mutica</i> (P3) <i>Quoya zonalis</i> (T) <i>Euphorbia clementii</i> (P3) <i>Gymnanthera cunninghamii</i> (P3) <i>Ptilotus mollis</i> (P4)	*<i>Aerva javanica</i> *<i>Bidens bipinnata</i> *<i>Cenchrus ciliaris</i> *<i>Cucumis Melo</i> subsp. <i>agrestis</i> *<i>Digitaria ciliaris</i> *<i>Indigofera oblongifolia</i> *<i>Malvastrum americanum</i> *<i>Sonchus oleraceus</i>
North Star Slurry and Infrastructure Corridors Conservation Significant Flora and Vegetation Assessment (Ecologia, 2015)	Edge of survey area, Linear corridor overlapping	2015	Targeted Flora	None	<i>Euploca mutica</i> (P3) <i>Gymnanthera cunninghamii</i> (P3) <i>Eragrostis crateriformis</i> (P3) <i>Gomphrena leptophylla</i> (P3) <i>Nicotiana umbratica</i> (P3) <i>Phyllanthus hebecarpus</i> (P3)	-
North Star Junction Flora and Fauna Assessments (Ecoscape, 2021)	Adjacent East and intersecting with Survey Area	May 2021	Detailed Flora and Vegetation	None	<i>Gomphrena leptophylla</i> (P3) <i>Gymnanthera cunninghamii</i> (P3) <i>Euploca mutica</i> (P3) <i>Nicotiana umbratica</i> (P3) <i>Phyllanthus hebecarpus</i> (P3) <i>Rothia indica</i> subsp. <i>australis</i> (P3) <i>Triodia chichesterensis</i> (P3) <i>Bulbostylis burbridgeae</i> (P4)	*<i>Cenchrus ciliaris</i> *<i>Flaveria trinervia</i> *<i>Portulaca pilosa</i>
Glacier Valley Extension Flora and Vegetation Survey, North Star Project (Ecoscape, 2018)	~20km East	May 2018	Detailed Flora and Vegetation	None	<i>Quoya zonalis</i> (T) <i>Ptilotus mollis</i> (P4) <i>Triodia basitricha</i> (P3)	*<i>Aerva javanica</i> *<i>Calotropis procera</i> (DP) *<i>Cenchrus ciliaris</i>

Report	Project Area	Survey Timing	Survey Effort	Conservation Significant Ecological Communities	Conservation Significant Flora	Introduced Flora
Pilbara Transmission Project Flora and Vegetation Desktop Assessment (Ecoscape, 2018)	Large scale corridor with small relevant intersection of Survey Area.	2018	Desktop	None relevant	Desktop identified numerous across large corridor.	*<i>Flaveria trinervia</i> - Not recorded.



Appendix C Database Search Results

Detailed Flora and Vegetation Assessment

Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

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

Taxon	Fortescue	TPFL ¹	WAHerb ²
T			
<i>Quoya zonalis</i>	5415	71	18
Priority 1			
<i>Acacia leeuweniana</i>		2	26
<i>Corchorus</i> sp. Yarrie (J. Bull & D. Roberts CAL 01.05)			2
<i>Josephinia</i> sp. Woodstock (A.A. Mitchell PRP 989)			3
<i>Themeda</i> sp. Panorama (J. Nelson et al. NS 102)	13		3
Priority 2			
<i>Euphorbia inappendiculata</i> var. <i>inappendiculata</i>			1
Priority 3			
<i>Abutilon</i> sp. <i>Pritzelianum</i> (S. van Leeuwen 5095)	6		8
<i>Acacia levata</i>		2	8
<i>Dolichocarpa</i> sp. Hamersley Station (A.A. Mitchell PRP 1479)			1
<i>Eragrostis crateriformis</i>			11
<i>Euphorbia clementii</i>	49	3	22
<i>Euploca mutica</i>	208		33
<i>Gomphrena leptophylla</i>	22		3
<i>Gymnanthera cunninghamii</i>	54	1	11
<i>Heliotropium murinum</i>			4
<i>Nicotiana umbratica</i>	16		12
<i>Phyllanthus hebecarpus</i>	7		5
<i>Rothia indica</i> subsp. <i>australis</i>	1		6
<i>Stylidium weeliwolli</i>	1		2
<i>Terminalia supranitifolia</i>	34		5
<i>Triodia basitricha</i>	61		2
<i>Triodia chichesterensis</i>	12		26
<i>Vigna triodiophila</i>			1
Priority 4			
<i>Bulbostylis burbridgeae</i>	93	3	18
<i>Ptilotus mollis</i>	201		5

¹ Department of Biodiversity Conservation and Attractions. (2022b). Threatened and Priority Flora List (TPFL) database request (custom search).

² Department of Biodiversity Conservation and Attractions. (2022c). Western Australia Herbarium Flora Database (custom search).

Community ³	TEC PEC
Priority 3	
Gregory Land System	6

³ Department of Biodiversity Conservation and Attractions. (2022a). Threatened and Priority Ecological Communities database request (custom search).

NatureMap Species Report

15/02/2022

Kingdom Plantae
Current Names Only Yes
Core Datasets Only Yes
Method 'By Circle'
Centre 118° 49' 11" E, 21° 13' 33" S
Buffer 40km
Group By Family

Family	Species	Records
Aizoaceae	6	9
Amaranthaceae	22	63
Apocynaceae	5	12
Araliaceae	2	6
Asteraceae	15	24
Bignoniaceae	1	2
Boraginaceae	11	46
Brassicaceae	3	5
Byblidaceae	2	6
Cactaceae	2	2
Campanulaceae	2	2
Capparaceae	1	1
Caryophyllaceae	5	33
Celastraceae	1	1
Ceramiaceae	1	1
Chenopodiaceae	3	5
Cleomaceae	3	15
Combretaceae	3	12
Commelinaceae	1	1
Convolvulaceae	10	33
Cucurbitaceae	3	4
Cyperaceae	21	69
Droseraceae	1	1
Elatinaceae	1	1
Euphorbiaceae	10	40
Fabaceae	76	223
Gentianaceae	1	1
Goodeniaceae	12	35
Gyrostemonaceae	1	1
Haloragaceae	2	10
Hemerocallidaceae	1	1
Lamiaceae	2	62
Lauraceae	1	2
Loganiaceae	1	4
Lythraceae	1	1
Malvaceae	33	89
Menispermaceae	1	4
Molluginaceae	1	9
Montiaceae	3	6
Moraceae	2	2
Myrtaceae	9	16
Nyctaginaceae	3	3
Oleaceae	1	2
Orobanchaceae	1	2
Phrymaceae	1	1
Phyllanthaceae	7	13
Plantaginaceae	2	5
Poaceae	63	222
Polygalaceae	2	10
Portulacaceae	1	1
Proteaceae	4	11
Pteridaceae	3	5
Rubiaceae	5	15
Sapindaceae	1	1
Scrophulariaceae	3	4
Solanaceae	9	33
Stylidiaceae	2	7
Thymelaeaceae	1	1
Violaceae	1	11
Zygophyllaceae	4	8
TOTAL	396	1215

Name ID Species Name

Naturalised

Conservation Code

¹Endemic To Query Area

Aizoaceae

1. 44240 *Trianthema cusackianum*
2. 44241 *Trianthema glossostigma*

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
3.	44261	<i>Trianthema oxycalyptum</i> var. <i>oxycalyptum</i>			
4.	2830	<i>Trianthema portulacastrum</i> (Giant Pigweed)	Y		
5.		<i>Trianthema</i> sp.			
6.	44362	<i>Trianthema triquetrum</i>			

Amaranthaceae

7.	2646	<i>Aerva javanica</i> (Kopok Bush)	Y		
8.	2652	<i>Alternanthera nodiflora</i> (Common Joyweed)			
9.	2663	<i>Amaranthus interruptus</i> (Native Amaranth)			
10.	2666	<i>Amaranthus mitchellii</i> (Boggabri Weed)			
11.	20018	<i>Amaranthus undulatus</i>			
12.	2676	<i>Gomphrena canescens</i> (Batchelors Buttons)			
13.	2680	<i>Gomphrena cunninghamii</i>			
14.	2683	<i>Gomphrena leptoclada</i>			
15.	18257	<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>			
16.	17894	<i>Gomphrena leptophylla</i>		P3	
17.	11131	<i>Gomphrena sordida</i>			
18.	2695	<i>Ptilotus arthrolasius</i>			
19.	2696	<i>Ptilotus astrolasius</i>			
20.	2698	<i>Ptilotus auriculifolius</i>			
21.	2699	<i>Ptilotus axillaris</i> (Mat Mulla Mulla)			
22.	2704	<i>Ptilotus calostachyus</i> (Weeping Mulla Mulla)			
23.	2711	<i>Ptilotus clementii</i> (Tassel Top)			
24.	2721	<i>Ptilotus exaltatus</i> (Tall Mulla Mulla)			
25.	2725	<i>Ptilotus fusiformis</i>			
26.	2734	<i>Ptilotus incanus</i>			
27.	2744	<i>Ptilotus mollis</i>		P4	
28.	2746	<i>Ptilotus nobilis</i> (Tall Mulla Mulla)			

Apocynaceae

29.	6582	<i>Calotropis procera</i> (Calotrope)	Y		
30.	6584	<i>Cynanchum floribundum</i> (Dumara Bush, Tjipa)			
31.	48280	<i>Cynanchum viminale</i> subsp. <i>australe</i>			
32.	12832	<i>Gymnanthera cunninghamii</i>		P3	
33.	48985	<i>Vincetoxicum carnosum</i>			

Araliaceae

34.	6278	<i>Trachymene oleracea</i>			
35.	19043	<i>Trachymene oleracea</i> subsp. <i>oleracea</i>			

Asteraceae

36.	7854	<i>Bidens bipinnata</i> (Bipinnate Beggartick)	Y		
37.	14090	<i>Calocephalus beardii</i>			
38.	48223	<i>Calocephalus pilbarensis</i>			
39.	7919	<i>Centipeda minima</i> (Spreading Sneezewood, Kanjiirala, Inteng-inteng, Karengkal, Kata-palkalpa, Munyu-parnti-parnti)			
40.	19762	<i>Centipeda minima</i> subsp. <i>macrocephala</i>			
41.	14377	<i>Erymophyllum ramosum</i> subsp. <i>ramosum</i>			
42.	35558	<i>Flaveria trinervia</i> (Speedy Weed)	Y		
43.	8167	<i>Pluchea dentex</i>			
44.	17816	<i>Pluchea ferdinandi-muelleri</i>			
45.	8168	<i>Pluchea rubelliflora</i>			
46.	8170	<i>Pluchea tetranthera</i>			
47.	8193	<i>Pterocaulon sphaeranthoides</i>			
48.	13310	<i>Rhodanthe margarethae</i>			
49.	8235	<i>Streptoglossa bubakii</i>			
50.	8240	<i>Streptoglossa odora</i>			

Bignoniaceae

51.	48390	<i>Dolichandrone occidentalis</i>			
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Boraginaceae

52.	30258	<i>Halgania solanacea</i> var. <i>Mt Doreen</i> (G.M. Chippendale 4206)			
53.	17301	<i>Heliotropium chrysocarpum</i>			
54.	6705	<i>Heliotropium crispatum</i>			
55.	6706	<i>Heliotropium cunninghamii</i>			
56.	10891	<i>Heliotropium muticum</i>		P3	
57.	17309	<i>Heliotropium pachyphyllum</i>			
58.	17313	<i>Heliotropium skeleton</i>			
59.	11057	<i>Heliotropium vestitum</i>			
60.	6727	<i>Trichodesma zeylanicum</i> (Camel Bush, Kumbalin)			
61.	13559	<i>Trichodesma zeylanicum</i> var. <i>grandiflorum</i>			
62.	11750	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>			

Name	ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
Brassicaceae					
63.	3035	<i>Lepidium pedicellosum</i>			
64.	3037	<i>Lepidium phlebopetalum</i> (Veined Peppergrass)			
65.	3038	<i>Lepidium pholidogynum</i>			
Byblidaceae					
66.	18073	<i>Byblis filifolia</i>			
67.	3179	<i>Byblis liniflora</i> (Northern Byblis)			
Cactaceae					
68.	31799	<i>Opuntia elata</i>	Y		
69.	5227	<i>Opuntia stricta</i> (Common Prickly Pear)	Y		
Campanulaceae					
70.	37480	<i>Lobelia arnhemiacae</i>			
71.	7393	<i>Wahlenbergia tumidiflora</i>			
Capparaceae					
72.	48291	<i>Capparis spinosa</i> subsp. <i>nummularia</i>			
Caryophyllaceae					
73.	2898	<i>Polycarpaea corymbosa</i>			
74.	12075	<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>			
75.	2901	<i>Polycarpaea holtzei</i>			
76.	2902	<i>Polycarpaea involucreata</i>			
77.	2903	<i>Polycarpaea longiflora</i>			
Celastraceae					
78.	19555	<i>Stackhousia muricata</i> subsp. <i>annual</i> (W.R. Barker 2172)			
Ceramiaceae					
79.	27125	<i>Perithamnion muelleri</i>			
Chenopodiaceae					
80.	11890	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>			
81.	2582	<i>Rhagodia eremaea</i> (Thorny Saltbush)			
82.	30434	<i>Salsola australis</i>			
Cleomaceae					
83.	2987	<i>Cleome uncifera</i>			
84.	29101	<i>Cleome uncifera</i> subsp. <i>uncifera</i>			
85.	2988	<i>Cleome viscosa</i> (Tickweed, Tjinduwadhu)			
Combretaceae					
86.	5300	<i>Terminalia canescens</i> (Joolal)			
87.	45698	<i>Terminalia circumalata</i>			
88.	5313	<i>Terminalia supranitfolia</i>		P3	
Commelinaceae					
89.	1167	<i>Murdannia graminea</i> (Baniyu)			
Convolvulaceae					
90.	6603	<i>Bonamia alatisemina</i>			
91.	11167	<i>Bonamia erecta</i>			
92.	6606	<i>Bonamia media</i>			
93.	6608	<i>Bonamia pannosa</i>			
94.	44782	<i>Bonamia pilbarensis</i>			
95.	6609	<i>Bonamia rosea</i> (Felt Bellflower)			
96.	11200	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>			
97.	6623	<i>Ipomoea coptica</i>			
98.	6633	<i>Ipomoea muelleri</i> (Poison Morning Glory, Yumbu)			
99.	6653	<i>Polymeria ambigua</i> (Morning Glory)			
Cucurbitaceae					
100.	7371	<i>Cucumis melo</i> (Ulcardo Melon)			
101.	41721	<i>Cucumis variabilis</i>			
102.	12032	<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>			
Cyperaceae					
103.	750	<i>Bulbostylis barbata</i>			
104.	751	<i>Bulbostylis burbridgeae</i>		P4	
105.	13657	<i>Cyperus castaneus</i> var. <i>brevimucronatus</i>			
106.	782	<i>Cyperus concinnus</i>			
107.	784	<i>Cyperus conicus</i>			
108.	786	<i>Cyperus cunninghamii</i>			
109.	12811	<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>			
110.	12808	<i>Cyperus hesperius</i>			

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
111.	798	<i>Cyperus iria</i>			
112.	807	<i>Cyperus pulchellus</i>			
113.	809	<i>Cyperus rigidellus</i>			
114.	814	<i>Cyperus squarrosus</i>			
115.	818	<i>Cyperus vaginatus</i> (Stiffleaf Sedge)			
116.	851	<i>Fimbristylis dichotoma</i> (Eight Day Grass)			
117.	853	<i>Fimbristylis elegans</i>			
118.	862	<i>Fimbristylis microcarya</i>			
119.	865	<i>Fimbristylis neilsonii</i>			
120.	882	<i>Fimbristylis sieberiana</i>		P3	
121.	12159	<i>Fimbristylis simulans</i>			
122.	952	<i>Lipocarpha microcephala</i>			
123.	48362	<i>Schoenoplectiella laevis</i>			

Droseraceae

124.	3093	<i>Drosera burmanni</i> (Tropical Sundew)
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Elatinaceae

125.	5183	<i>Bergia ammannioides</i>
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Euphorbiaceae

126.	17422	<i>Adriana tomentosa</i> var. <i>tomentosa</i>
127.	35307	<i>Euphorbia australis</i> var. <i>australis</i>
128.	42843	<i>Euphorbia australis</i> var. <i>glabra</i>
129.	4620	<i>Euphorbia boophthona</i> (Gascoyne Spurge)
130.	9048	<i>Euphorbia careyi</i>
131.	4622	<i>Euphorbia clementii</i>
132.	4623	<i>Euphorbia coghlanii</i> (Namana)
133.	12097	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i> (Desert Spurge)
134.	4658	<i>Mallotus nesophilus</i>
135.	31374	<i>Microstachys chamaelea</i>

Fabaceae

136.	3198	<i>Acacia acradenia</i>
137.	11215	<i>Acacia adoxa</i> var. <i>adoxo</i>
138.	3209	<i>Acacia ampliceps</i>
139.	3214	<i>Acacia ancistrocarpa</i> (Fitzroy Wattle)
140.	37260	<i>Acacia aptaneura</i>
141.	3223	<i>Acacia arida</i>
142.	3241	<i>Acacia bivenosa</i>
143.	13502	<i>Acacia coriacea</i> subsp. <i>pendens</i>
144.	3272	<i>Acacia cowleana</i> (Halls Creek Wattle)
145.	3370	<i>Acacia hilliana</i>
146.	3377	<i>Acacia inaequilatera</i> (Baden)
147.	23523	<i>Acacia leeuweniana</i>
148.	15289	<i>Acacia levata</i>
149.	3434	<i>Acacia maitlandii</i> (Maitland's Wattle)
150.	3471	<i>Acacia orthocarpa</i> (Needleleaf Wattle)
151.	3506	<i>Acacia pyrifolia</i> (Ranji Bush, Kandji)
152.	29016	<i>Acacia pyrifolia</i> var. <i>morrisonii</i>
153.	29015	<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>
154.	3517	<i>Acacia retivenea</i>
155.	15215	<i>Acacia retivenea</i> subsp. <i>clandestina</i>
156.	3551	<i>Acacia sphaerostachya</i>
157.	3553	<i>Acacia spondylophylla</i>
158.	19456	<i>Acacia stellaticeps</i>
159.	3579	<i>Acacia trachycarpa</i> (Minni Ritchi, Balgali)
160.	20319	<i>Acacia tumida</i> var. <i>pilbarensis</i>
161.	10852	<i>Cajanus acutifolius</i>
162.	11055	<i>Cajanus cinereus</i>
163.	11150	<i>Cajanus pubescens</i>
164.	3774	<i>Crotalaria cunninghamii</i> (Green Birdflower, Bilbun)
165.	20179	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>
166.	3785	<i>Crotalaria novae-hollandiae</i> (New Holland Rattlepod)
167.	17439	<i>Cullen lachnostachys</i>
168.	17119	<i>Cullen leucochaetes</i>
169.	17116	<i>Cullen martinii</i>
170.	15714	<i>Cullen stipulaceum</i>
171.	3853	<i>Desmodium filiforme</i>
172.	3973	<i>Indigofera colutea</i> (Sticky Indigo)
173.	3978	<i>Indigofera hirsuta</i> (Hairy Indigo)
174.	3980	<i>Indigofera linifolia</i>

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
175.	3981 <i>Indigofera linnaei</i> (Birdsville Indigo)			
176.	3982 <i>Indigofera monophylla</i>			
177.	3985 <i>Indigofera rugosa</i>			
178.	3987 <i>Indigofera trita</i>			
179.	31035 <i>Indigofera trita</i> subsp. <i>trita</i>			
180.	3989 <i>Isotropis atropurpurea</i> (Poison Sage)			
181.	4054 <i>Leptosema anomalum</i>			
182.	3675 <i>Petalostylis labicheoides</i> (Slender Petalostylis)			
183.	4190 <i>Rhynchosia australis</i> (Rhynchosia)			
184.	4191 <i>Rhynchosia minima</i> (Rhynchosia)			
185.	17720 <i>Rothia indica</i> subsp. <i>australis</i>		P3	
186.	12280 <i>Senna artemisioides</i> subsp. <i>oligophylla</i>			
187.	18443 <i>Senna ferraria</i>			
188.	12307 <i>Senna glutinosa</i> subsp. <i>glutinosa</i>			
189.	12309 <i>Senna glutinosa</i> subsp. <i>pruinosa</i>			
190.	12308 <i>Senna glutinosa</i> subsp. <i>x luerksenii</i>			
191.	12312 <i>Senna notabilis</i>			
192.	4196 <i>Sesbania cannabina</i> (Sesbania Pea)			
193.	4223 <i>Swainsona decurrens</i>			
194.	12356 <i>Swainsona formosa</i>			
195.	4231 <i>Swainsona kingii</i>			
196.	4244 <i>Swainsona stenodonta</i>			
197.	4253 <i>Templetonia hookeri</i>			
198.	4263 <i>Tephrosia clementii</i>			
199.	49016 <i>Tephrosia densa</i>			
200.	19531 <i>Tephrosia rosea</i> var. <i>clementii</i>			
201.	19529 <i>Tephrosia rosea</i> var. <i>rosea</i>			
202.	15947 <i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)			
203.	17768 <i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)			
204.	15949 <i>Tephrosia</i> sp. D Kimberley Flora (R.D. Royce 1848)			
205.	42442 <i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)			
206.	4285 <i>Tephrosia supina</i>			
207.	4286 <i>Tephrosia uniovulata</i>			
208.	4287 <i>Tephrosia virens</i>			
209.	17763 <i>Trifolium campestre</i> var. <i>campestre</i> (Hop Clover)	Y		
210.	11576 <i>Vigna lanceolata</i> var. <i>lanceolata</i>			
211.	<i>Vigna</i> sp.			

Gentianaceae

212. 41660 *Schenkia australis*

Goodeniaceae

213. 7424 *Dampiera candidans*

214. 7509 *Goodenia forrestii*

215. 7521 *Goodenia lamprosperma*

216. 7526 *Goodenia microptera*

217. 12552 *Goodenia muelleriana*

218. 7530 *Goodenia nuda*

219. 10982 *Goodenia stobbsiana*

220. 13178 *Scaevola amblyanthera* var. *centralis*

221. 13150 *Scaevola browniana* subsp. *browniana*

222. 7643 *Scaevola sericophylla*

223. 7644 *Scaevola spinescens* (Currant Bush, Maroon)

224. 7654 *Velleia connata* (Cup Velleia)

Gyrostemonaceae

225. 2778 *Codonocarpus cotinifolius* (Native Poplar, Kundurangu)

Haloragaceae

226. 6151 *Gonocarpus ephemerus*

227. 6174 *Haloragis gossei*

Hemerocallidaceae

228. 1286 *Corynotheca pungens*

Lamiaceae

229. 13689 *Clerodendrum tomentosum* var. *lanceolatum*

230. 37720 *Pityrodia* sp. Marble Bar (G. Woodman & D. Coultas GWDC Opp 4)

Lauraceae

231. 2949 *Cassytha capillaris*

Loganiaceae

232. 6519 *Mitrasacme connata*

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Lythraceae				
233.	5278 <i>Ammannia multiflora</i>			
Malvaceae				
234.	4895 <i>Abutilon lepidum</i>			
235.	42920 <i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)			
236.	13659 <i>Corchorus laniflorus</i>			
237.	18408 <i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>			
238.	4862 <i>Corchorus parviflorus</i>			
239.	4865 <i>Corchorus tridens</i>			
240.	4910 <i>Gossypium australe</i> (Native Cotton)			
241.	4918 <i>Gossypium robinsonii</i> (Wild Cotton)			
242.	29316 <i>Hibiscus austrinus</i>			
243.	29317 <i>Hibiscus austrinus</i> var. <i>austrinus</i>			
244.	4924 <i>Hibiscus burtonii</i>			
245.	4925 <i>Hibiscus coatesii</i>			
246.	4930 <i>Hibiscus goldsworthii</i>			
247.	4936 <i>Hibiscus panduriformis</i> (Yellow Hibiscus)		P3	
248.	4942 <i>Hibiscus sturtii</i> (Sturt's Hibiscus)			
249.	11651 <i>Hibiscus sturtii</i> var. <i>campylochlamys</i>			
250.	5051 <i>Melhania oblongifolia</i>			
251.	46821 <i>Seringia nephrosperma</i> (Free carpel fire-bush)			
252.	4966 <i>Sida arenicola</i>			
253.	4970 <i>Sida calyxhymenia</i> (Tall Sida)			
254.	4972 <i>Sida clementii</i>			
255.	9097 <i>Sida rhombifolia</i> (Paddy's Lucerne)	Y		
256.	16617 <i>Sida</i> sp. <i>spiciform</i> panicles (E. Leyland s.n. 14/8/90)			
257.	4873 <i>Triumfetta appendiculata</i>			
258.	4875 <i>Triumfetta chaetocarpa</i> (Urchins)			
259.	14694 <i>Triumfetta clementii</i>			
260.	16306 <i>Triumfetta deserticola</i>			
261.	4878 <i>Triumfetta johnstonii</i>			
262.	14942 <i>Triumfetta maconochieana</i>			
263.	17317 <i>Triumfetta propinqua</i>			
264.	13481 <i>Triumfetta ramosa</i>			
265.	5106 <i>Waltheria indica</i>			
266.	5107 <i>Waltheria virgata</i>			
Menispermaceae				
267.	2942 <i>Tinospora smilacina</i> (Snakevine, Oondala)			
Molluginaceae				
268.	48201 <i>Trigastrotheca molluginea</i>			
Montiaceae				
269.	40825 <i>Calandrinia pentavalvis</i>			
270.	2870 <i>Calandrinia stagnensis</i>			
271.	2872 <i>Calandrinia tepperiana</i>			
Moraceae				
272.	31578 <i>Ficus aculeata</i> var. <i>indecora</i> (Ranji)			
273.	19648 <i>Ficus brachypoda</i>			
Myrtaceae				
274.	19125 <i>Corymbia dichromophloia</i>			
275.	17093 <i>Corymbia hamersleyana</i>			
276.	17084 <i>Corymbia zygophylla</i>			
277.	35345 <i>Eucalyptus camaldulensis</i> subsp. <i>obtusata</i> (Blunt-budded River Red Gum)			
278.	5698 <i>Eucalyptus leucophloia</i> (Snappy Gum, Migum)			
279.	18088 <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i>			
280.	14548 <i>Eucalyptus victrix</i>			
281.	5915 <i>Melaleuca glomerata</i>			
282.	5933 <i>Melaleuca linophylla</i>			
Nyctaginaceae				
283.	2772 <i>Boerhavia gardneri</i>			
284.	2774 <i>Boerhavia repleta</i>			
285.	<i>Boerhavia</i> sp.			
Oleaceae				
286.	12059 <i>Jasminum didymum</i> subsp. <i>lineare</i> (Desert Jasmine)			
Orobanchaceae				
287.	7103 <i>Striga curviflora</i>			

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
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Phrymaceae

288.	7082	<i>Mimulus gracilis</i>		
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Phyllanthaceae

289.	4654	<i>Flueggea virosa</i>		
290.	12013	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i> (Dogwood, Guwal)		
291.	38421	<i>Notoleptopus decaisnei</i>		
292.	38422	<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>		
293.	9056	<i>Phyllanthus baccatus</i>		
294.	35319	<i>Phyllanthus hebecarpus</i>	P3	
295.	4680	<i>Phyllanthus maderaspatensis</i>		

Plantaginaceae

296.	7098	<i>Stemodia grossa</i> (Marsh Stemodia, Mindjaara)		
297.	7102	<i>Stemodia viscosa</i> (Pagurda)		

Poaceae

298.	204	<i>Aristida burbridgeae</i>		
299.	207	<i>Aristida contorta</i> (Bunched Kerosene Grass)		
300.	210	<i>Aristida holathera</i>		
301.	12063	<i>Aristida holathera</i> var. <i>holathera</i>		
302.	258	<i>Cenchrus ciliaris</i> (Buffel Grass)	Y	
303.	273	<i>Chrysopogon fallax</i> (Golden Beard Grass)		
304.	279	<i>Cymbopogon ambiguus</i> (Scentgrass)		
305.	46558	<i>Cynodon convergens</i>		
306.	46555	<i>Cynodon prostratus</i>		
307.	290	<i>Dactyloctenium radulans</i> (Button Grass)		
308.	48378	<i>Diplachne fusca</i> subsp. <i>fusca</i>		
309.	357	<i>Enneapogon caeruleus</i> (Limestone Grass)		
310.	360	<i>Enneapogon lindleyanus</i> (Wiry Nineawn, Purple-head Nineawn)		
311.	12749	<i>Enneapogon purpurascens</i> (Purple Nineawn)		
312.	16730	<i>Eragrostis crateriformis</i>	P3	
313.	375	<i>Eragrostis cumingii</i> (Cuming's Love Grass)		
314.	378	<i>Eragrostis dielsii</i> (Mallee Lovegrass)		
315.	380	<i>Eragrostis eriopoda</i> (Woollybutt Grass, Wangumu)		
316.	398	<i>Eragrostis tenellula</i> (Delicate Lovegrass)		
317.	400	<i>Eriachne aristidea</i>		
318.	403	<i>Eriachne benthamii</i> (Swamp Wanderrie)		
319.	404	<i>Eriachne ciliata</i> (Slender Wandarrie Grass)		
320.	407	<i>Eriachne festucacea</i> (Plains Wandarrie Grass)		
321.	411	<i>Eriachne helmsii</i> (Buck Wanderrie Grass)		
322.	412	<i>Eriachne melicacea</i>		
323.	413	<i>Eriachne mucronata</i> (Mountain Wanderrie Grass)		
324.	414	<i>Eriachne obtusa</i> (Northern Wandarrie Grass)		
325.	417	<i>Eriachne pulchella</i> (Pretty Wanderrie)		
326.	16486	<i>Eriachne pulchella</i> subsp. <i>pulchella</i>		
327.	49074	<i>Eriachne</i> sp. Dugald River (B.K. Simon+ 3007)		
328.	11011	<i>Eulalia aurea</i>		
329.	443	<i>Heteropogon contortus</i> (Bunch Speargrass)		
330.	458	<i>Iseilema dolichotrichum</i>		
331.	464	<i>Iseilema membranaceum</i> (Small Flinders Grass)		
332.	503	<i>Panicum decompositum</i> (Native Millet, Kaltu-kaltu)		
333.	515	<i>Paraneurachne muelleri</i> (Northern Mulga Grass)		
334.	518	<i>Paspalidium clementii</i> (Clements Paspalidium)		
335.	519	<i>Paspalidium constrictum</i> (Knottybutt Grass)		
336.	523	<i>Paspalidium rarum</i> (Rare Paspalidium)		
337.	525	<i>Paspalidium tabulatum</i>		
338.	599	<i>Schizachyrium fragile</i> (Senale Redgrass)		
339.	612	<i>Setaria surgens</i> (Pigeon Grass)		
340.	613	<i>Setaria verticillata</i> (Whorled Pigeon Grass)	Y	
341.	619	<i>Sorghum plumosum</i> (Plume Canegrass)		
342.	628	<i>Sporobolus actinocladius</i> (Ray Grass, Katoora)		
343.	629	<i>Sporobolus australasicus</i> (Fairy Grass)		
344.	673	<i>Themeda triandra</i>		
345.	679	<i>Triodia angusta</i>		
346.	680	<i>Triodia basedowii</i> (Lobed Spinifex)		
347.	45769	<i>Triodia basitricha</i> (Pilbara Curly Spinifex)	P3	
348.	681	<i>Triodia brizoides</i>		
349.	48468	<i>Triodia chichesterensis</i>	P3	
350.	13131	<i>Triodia epactia</i>		
351.	689	<i>Triodia lanigera</i>		

	Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
352.	690	<i>Triodia longiceps</i> (Giant Grey Spinifex)			
353.	17873	<i>Triodia schinzii</i>			
354.	48464	<i>Triodia scintillans</i>			
355.	700	<i>Triodia secunda</i>			
356.	704	<i>Triodia wiseana</i> (Limestone Spinifex)			
357.	48319	<i>Tripogonella loliiformis</i>			
358.	11321	<i>Urochloa holosericea</i> subsp. <i>velutina</i>			
359.	729	<i>Xerochloa barbata</i> (Rice Grass)			
360.	732	<i>Yakirra australiensis</i>			

Polygalaceae

361.	41365	<i>Polygala glaucifolia</i>			
362.	41357	<i>Polygala saccopetala</i>			

Portulacaceae

363.	2884	<i>Portulaca oleracea</i> (Purslane, Wakati)			
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Proteaceae

364.	2121	<i>Grevillea wickhamii</i> (Wickham's Grevillea)			
365.	13440	<i>Grevillea wickhamii</i> subsp. <i>aprica</i>			
366.	19478	<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>			
367.	19137	<i>Hakea lorea</i> subsp. <i>lorea</i>			

Pteridaceae

368.	32	<i>Cheilanthes brownii</i>			
369.	37	<i>Cheilanthes lasiophylla</i> (Woolly Cloak Fern)			
370.	12818	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>			

Rubiaceae

371.	7317	<i>Dentella asperata</i>			
372.	7338	<i>Oldenlandia crouchiana</i>			
373.	7339	<i>Oldenlandia galioides</i>			
374.	7363	<i>Synaptantha tillaeacea</i>			
375.	13339	<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>			

Sapindaceae

376.	4759	<i>Dodonaea coriacea</i>			
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Scrophulariaceae

377.	15052	<i>Eremophila forrestii</i> subsp. <i>forrestii</i>			
378.	17169	<i>Eremophila latrobei</i> subsp. <i>glabra</i>			
379.	7234	<i>Eremophila longifolia</i> (Berrigan, Tulypurpa)			

Solanaceae

380.	6971	<i>Nicotiana benthamiana</i> (Tjuntiwari)			
381.	6980	<i>Nicotiana umbratica</i>		P3	
382.	6989	<i>Solanum ashbyae</i>			
383.	6998	<i>Solanum cleistogamum</i>			
384.	7009	<i>Solanum gabrielae</i>			
385.	7014	<i>Solanum horridum</i>			
386.	7018	<i>Solanum lasiophyllum</i> (Flannel Bush, Mindjulu)			
387.	7029	<i>Solanum phlomoides</i>			
388.	7036	<i>Solanum sturtianum</i> (Thargomindah Nightshade)			

Stylidiaceae

389.	7711	<i>Stylidium desertorum</i>			
390.	18123	<i>Stylidium weeliwoili</i>		P3	

Thymelaeaceae

391.	5230	<i>Pimelea ammodarid</i>			
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Violaceae

392.	5215	<i>Hybanthus aurantiacus</i>			
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Zygophyllaceae

393.	4375	<i>Tribulus cistoides</i>			
394.	4377	<i>Tribulus hirsutus</i>			
395.	4381	<i>Tribulus platypterus</i> (Cork Hopbush)			
396.	18072	<i>Tribulus suberosus</i>			

Conservation Codes

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

Name ID	Species Name	Naturalised	Conservation Code	¹ Endemic To Query Area
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¹ For NatureMap's purposes, species flagged as endemic are those whose records are wholly contained within the search area. Note that only those records complying with the search criterion are included in the calculation. For example, if you limit records to those from a specific datasource, only records from that datasource are used to determine if a species is restricted to the query area.





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: 27-Mar-2023

[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:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	13
Listed Migratory Species:	12

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:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	17
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None
Habitat Critical to the Survival of Marine Turtles:	None

Extra Information

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

State and Territory Reserves:	1
Regional Forest Agreements:	None
Nationally Important Wetlands:	None
EPBC Act Referrals:	23
Key Ecological Features (Marine):	None
Biologically Important Areas:	1
Bioregional Assessments:	None
Geological and Bioregional Assessments:	None

Details

Matters of National Environmental Significance

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			

[Calidris ferruginea](#)

Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
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[Erythrotriorchis radiatus](#)

Red Goshawk [942]	Vulnerable	Species or species habitat may occur within area	In feature area
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[Falco hypoleucos](#)

Grey Falcon [929]	Vulnerable	Species or species habitat known to occur within area	In feature area
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[Numenius madagascariensis](#)

Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
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[Pezoporus occidentalis](#)

Night Parrot [59350]	Endangered	Species or species habitat may occur within area	In feature area
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[Rostratula australis](#)

Australian Painted Snipe [77037]	Endangered	Species or species habitat may occur within area	In feature area
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MAMMAL

[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
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[Macroderma gigas](#)

Ghost Bat [174]	Vulnerable	Species or species habitat known to occur within area	In feature area
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Scientific Name	Threatened Category	Presence Text	Buffer Status
Macrotis lagotis Greater Bilby [282]	Vulnerable	Species or species habitat known to occur within area	In feature area
Rhinonictis aurantia (Pilbara form) Pilbara Leaf-nosed Bat [82790]	Vulnerable	Species or species habitat known to occur within area	In feature area

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
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REPTILE

[Liasis olivaceus barroni](#)

Olive Python (Pilbara subspecies) [66699]	Vulnerable	Species or species habitat likely to occur within area	In feature area
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[Liopholis kintorei](#)

Great Desert Skink, Tjakura, Warrarna, Mulyamiji [83160]	Vulnerable	Species or species habitat may occur within area	In buffer area only
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Listed Migratory Species [\[Resource Information \]](#)

Scientific Name	Threatened Category	Presence Text	Buffer Status
Migratory Marine Birds			
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area	In feature area

Migratory Terrestrial Species

[Hirundo rustica](#)

Barn Swallow [662]		Species or species habitat may occur within area	In feature area
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[Motacilla cinerea](#)

Grey Wagtail [642]		Species or species habitat may occur within area	In feature area
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[Motacilla flava](#)

Yellow Wagtail [644]		Species or species habitat likely to occur within area	In feature area
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Migratory Wetlands Species

[Actitis hypoleucos](#)

Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
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Scientific Name	Threatened Category	Presence Text	Buffer Status
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area	In feature area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area	In feature area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within area	In buffer area only

Other Matters Protected by the EPBC Act

Listed Marine Species			[Resource Information]
Scientific Name	Threatened Category	Presence Text	Buffer Status
Bird			
Actitis hypoleucos Common Sandpiper [59309]		Species or species habitat may occur within area	In feature area
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
Bubulcus ibis as Ardea ibis Cattle Egret [66521]	Critically Endangered	Species or species habitat may occur within area overfly marine area	In feature area
Calidris acuminata Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area	In feature area
Calidris ferruginea Curlew Sandpiper [856]		Species or species habitat may occur within area overfly marine area	In feature area
Calidris melanotos Pectoral Sandpiper [858]		Species or species habitat may occur within area overfly marine area	In feature area
Chalcites osculans as Chrysococcyx osculans Black-eared Cuckoo [83425]		Species or species habitat known to occur within area overfly marine area	In feature area
Charadrius veredus Oriental Plover, Oriental Dotterel [882]		Species or species habitat may occur within area overfly marine area	In feature area
Glareola maldivarum Oriental Pratincole [840]		Species or species habitat may occur within area overfly marine area	In feature area
Haliaeetus leucogaster White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area	In feature area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area overfly marine area	In feature area
Merops ornatus Rainbow Bee-eater [670]		Species or species habitat may occur within area overfly marine area	In feature area

Scientific Name	Threatened Category	Presence Text	Buffer Status
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 likely to occur within area overfly marine area	In feature area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area	In buffer area only
Pandion haliaetus Osprey [952]		Species or species habitat likely to occur within 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

Extra Information

State and Territory Reserves			[Resource Information]	
Protected Area Name	Reserve Type	State	Buffer Status	
Mungaroona Range	Nature Reserve	WA	In buffer area only	

EPBC Act Referrals				[Resource Information]
Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
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 feature area
Development of the Wodgina Direct Shipping Ore Project, Stage 2	2011/5975	Controlled Action	Post-Approval	In buffer area only
Miralga Creek Project, Pilbara region, WA	2019/8601	Controlled Action	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Controlled action				
Mt Dove Direct Shipping Ore Project	2011/5848	Controlled Action	Post-Approval	In buffer area only
North Star Hematite Project	2012/6530	Controlled Action	Post-Approval	In feature area
North Star Magnetite Project	2012/6689	Controlled Action	Post-Approval	In feature area
Panoram Copper-Zinc mine	2007/3310	Controlled Action	Completed	In buffer area only
Roy Hill to Port Hedland Rail Line and Associated Infrastructure	2010/5424	Controlled Action	Post-Approval	In feature area
Wodgina Direct Shipping Ore Project	2009/5167	Controlled Action	Post-Approval	In buffer area only
Not controlled action				
Development of iron ore resources in eastern Pilbara region, including port at P	2004/1562	Not Controlled Action	Completed	In feature area
Expansion of the Talison Minerals Storage Facility, Wodgina Mine	2008/4675	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
Pilbara Bulk Ore Transport System Project, WA	2016/7637	Not Controlled Action	Completed	In feature area
Pilbara Transmission Project, Pilbara, WA	2018/8349	Not Controlled Action	Completed	In feature area
Rail and Port Facilities	2001/474	Not Controlled Action	Completed	In feature area
Sulphur Springs Copper-Zinc Mining Project, Pilbara Region, WA	2013/6899	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 feature area
Atlas Boodarie Link Project, WA	2012/6506	Not Controlled Action (Particular Manner)	Post-Approval	In buffer area only

Title of referral	Reference	Referral Outcome	Assessment Status	Buffer Status
Not controlled action (particular manner)				
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
Referral decision				
Mine the Hercules Deposit under the Wodgina Direct Shipping Ore Project ??? Stage 3	2013/6777	Referral Decision	Completed	In buffer area only

Biologically Important Areas				
Scientific Name		Behaviour	Presence	Buffer Status
Seabirds				
Ardena pacifica				
Wedge-tailed Shearwater [84292]		Breeding	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 are 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

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

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

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
- 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.

Please feel free to provide feedback via the [Contact us](#) page.

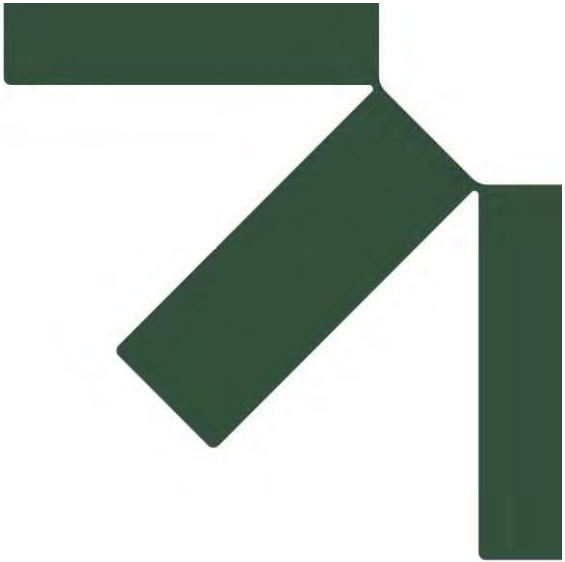
[© Commonwealth of Australia](#)

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Appendix D Flora Likelihood of Occurrence Assessment

Detailed Flora and Vegetation Assessment

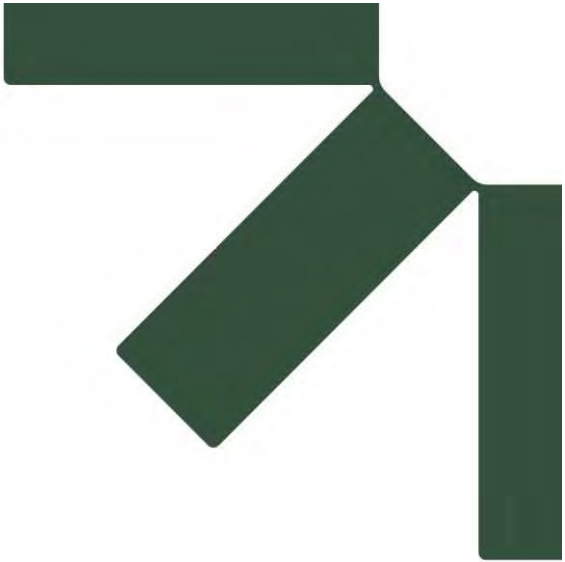
Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

Taxon	Conservation Status		Database			Distance to Nearest Record (km)	Flowering Period	Preferred Habitat	Pre-Survey Likelihood of Occurrence	Habitat occurs within the Survey Area (updated post survey)	Post-Survey Likelihood of Occurrence
	DBC	EPBC	Fortescue	TPFL	WAHerb						
<i>Quoyia zonalis</i>	T	EN	✓	✓	✓	20.31	Aug	Rocky ironstone or granite or conglomerate steep hill slopes. ²	Low	No, wrong granite substrate and landform	Low
<i>Acacia leeuweniana</i>	P1	-	-	✓	✓	5.35	Apr - May	Gritty, skeletal red-grey sandy loam, light orange-brown gravelly sand, granite. In rock fissures in outcrops, among boulders. ²	High	Technically, although not to the right extent	Low
<i>Corchorus</i> sp. Yarrrie (J. Bull & D. Roberts CAL 01.05)	P1	-	-	-	✓	70	-	Granite boulders and outcroppings	Low	Yes	Low
<i>Josephinia</i> sp. Woodstock (A.A. Mitchell PRP 989)	P1	-	-	-	✓	43.87	May - Nov	Red-brown clay loam. Plains, crabhole plains, granitic landscapes. ²	Low	No	Low
<i>Themeda</i> sp. Panorama (J. Nelson et al. NS 102)	P1	-	✓	-	✓	26.11	May	Steep rocky slopes ²	Low	No	Low
<i>Euphorbia inappendiculata</i> var. <i>inappendiculata</i>	P2	-	-	-	✓	58	-	Cracking clays and drainage	Low	No	Low
<i>Abutilon</i> sp. Pritzellianum (S. van Leeuwen 5095)	P3	-	✓	-	✓	13.84	Jun, Aug - Sep	Sandy plains. ² Often grows on disturbance like roadsides.	High	Yes	Medium
<i>Acacia levata</i>	P3	-	-	✓	✓	11.1	May	Sand or sandy loam over granite. Hillslopes. ²	High	Yes	Medium
<i>Dolichocarpa</i> sp. Hamersley Station (A.A. Mitchell PRP 1479)	P3	-	-	-	✓	57	-	Cracking clay pans	Low	No	Low
<i>Euphorbia clementii</i>	P3	-	✓	✓	✓	5.22	-	Gravelly hillsides, stony grounds. ² Post burn ephemeral.	High	Yes	Recorded
<i>Euploca mutica</i>	P3	-	✓	-	✓	Occurs within Survey Area	-	Flat sandplains. ²	Recorded	Yes	Recorded
<i>Gomphrena leptophylla</i>	P3	-	✓	-	✓	Occurs within Survey Area	Mar - Sep	Sand, sandy to clayey loam, granite, quartzite. Open flats, sandy creek beds, edges salt pans and marshes, stony hillsides. ²	Recorded	Yes	Low (taxonomic uncertainty)
<i>Gymnanthera cunninghamii</i>	P3	-	✓	✓	✓	Occurs within Survey Area	Jan - Dec	Sandy soils. ²	Recorded	Yes	Recorded
<i>Heliotropium murinum</i>	P3	-	-	-	✓	39.31	May or Sep	Red sand. Plains. ²	Low	Yes	Low
<i>Nicotiana umbratica</i>	P3	-	✓	-	✓	Occurs within Survey Area	Apr - Jun	Shallow soils. Rocky outcrops. ²	Recorded	Yes	Recorded
<i>Phyllanthus hebecarpus</i>	P3	-	✓	-	✓	Occurs within Survey Area	N/A	Granite boulders, granite outcrop, rock land, slopes. ²	Recorded	Yes	Recorded
<i>Rothia indica</i> subsp. <i>australis</i>	P3	-	✓	-	✓	6.69	Apr - Aug	Sandy soils. Sandhills and sandy flats. ²	High	Yes	Recorded
<i>Styidium weeliwalli</i>	P3	-	✓	-	✓	23.11	Aug - Sep	Gritty sand soil, sandy clay. Edge of watercourses. ²	Medium	Yes	Medium
<i>Terminalia supranitifolia</i>	P3	-	✓	-	✓	9.77	-	Sand. Among basalt rocks. Hill tops. ²	Medium	No	Low
<i>Triodia basitricha</i>	P3	-	✓	-	✓	30.23	N/A	Stony ground, gravelly hill, crests, hills, in gorges. ²	High	Yes	Recorded
<i>Triodia chichesterensis</i>	P3	-	✓	-	✓	5.22	-	Flat plains, light sandy soil, hill slopes, stony soil. ²	High	Yes	Recorded
<i>Vigna triadophylla</i>	P3	-	-	-	✓	11.56	-	Stony red-brown clay loam. Among boulders, steep slopes. ²	High	No	Low
<i>Bulbostylis burbridgeae</i>	P4	-	✓	✓	✓	Occurs within Survey Area	Mar or Jun - Aug	Granitic soils. Granite outcrops, cliff bases. ²	Recorded	Yes	Recorded
<i>Ptilotus mollis</i>	P4	-	✓	-	✓	25.97	May or Sep	Stony hills and screes. ²	Medium	Yes	Recorded



Appendix E Vascular Flora from the Survey Area

Detailed Flora and Vegetation Assessment

Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

Vascular Flora Recorded from the Project Area

Family	Taxon	Status
Aizoaceae	<i>Trianthema</i> aff. <i>oxycalyptum</i>	Other (Anomalous features, potentially new species)
	<i>Trianthema cusackianum</i>	
	<i>Trianthema pilosum</i>	
	<i>Trianthema triquetrum</i>	
Amaranthaceae	<i>Aerva javanica</i>	
	<i>Alternanthera denticulata</i>	
	<i>Alternanthera nana</i>	
	<i>Amaranthus</i> aff. <i>interruptus</i>	Other (Anomalous features, potentially new species)
	<i>Amaranthus</i> sp.	
	<i>Amaranthus undulatus</i>	
	<i>Gomphrena cunninghamii</i>	
	<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	
	<i>Gomphrena sordida</i>	
	<i>Ptilotus astrolasius</i>	
	<i>Ptilotus auriculifolius</i>	
	<i>Ptilotus axillaris</i>	
	<i>Ptilotus calostachyus</i>	
	<i>Ptilotus clementii</i>	
	<i>Ptilotus exaltatus</i>	
	<i>Ptilotus fusiformis</i>	
	<i>Ptilotus helipteroides</i>	
	<i>Ptilotus mollis</i>	Priority 4 (DBCA)
	<i>Ptilotus</i> sp.	
Apocynaceae	<i>Calotropis procera</i>	
	<i>Carissa lanceolata</i>	
	<i>Cynanchum floribundum</i>	
	<i>Cynanchum viminale</i> subsp. <i>australe</i>	
	<i>Gymnanthera cunninghamii</i>	Priority 3 (DBCA)
Araliaceae	<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	
Asteraceae	<i>Bidens bipinnata</i>	
	<i>Blumea tenella</i>	
	<i>Calotis hispidula</i>	
	<i>Centipeda minima</i> subsp. <i>macrocephala</i>	
	<i>Flaveria trinervia</i>	
	<i>Pentalepis trichodesmoides</i> subsp. <i>trichodesmoides</i>	
	<i>Peripleura virgata</i>	
	<i>Pluchea dentex</i>	
	<i>Pluchea ferdinandi-muelleri</i>	
	<i>Pluchea rubelliflora</i>	

Family	Taxon	Status
Asteraceae	<i>Pluchea tetranthera</i>	
	<i>Pseudognaphalium luteoalbum</i>	
	<i>Pterocaulon</i> sp.	
	<i>Pterocaulon sphacelatum</i>	
	<i>Rhodanthe margarethae</i>	
	<i>Sonchus oleraceus</i>	
	<i>Streptoglossa bubakii</i>	
	<i>Streptoglossa decurrens</i>	
	<i>Streptoglossa</i> sp.	
Bignoniaceae	<i>Dolichandrone occidentalis</i>	
Boraginaceae	<i>Ehretia saligna</i> var. <i>saligna</i>	
	<i>Euploca chrysocarpa</i>	
	<i>Euploca cunninghamii</i>	
	<i>Euploca diversifolia</i>	
	<i>Euploca heterantha</i>	
	<i>Euploca mutica</i>	Priority 3 (DBCA)
	<i>Euploca pachyphylla</i>	
	<i>Euploca skeleton</i>	
	<i>Euploca</i> sp.	
	<i>Euploca tanythrix</i>	
	<i>Euploca tenuifolia</i>	
	<i>Heliotropium crispatum</i>	
	<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	
Brassicaceae	<i>Lepidium pedicellosum</i>	
	<i>Lepidium pholidogynum</i>	
Byblidaceae	<i>Byblis pilbarana</i>	
Cactaceae	<i>Opuntia</i> ? <i>stricta</i>	
Campanulaceae	<i>Wahlenbergia tumidifructa</i>	
Caryophyllaceae	<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	
	<i>Polycarpaea holtzei</i>	
	<i>Polycarpaea involucrata</i>	
	<i>Polycarpaea longiflora</i>	
Celastraceae	<i>Stackhousia intermedia</i>	
	<i>Stackhousia muricata</i> subsp. <i>annual</i> (W.R. Barker 2172)	
Chenopodiaceae	<i>Dysphania kalpari</i>	
	<i>Dysphania plantaginella</i>	
	<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	
	<i>Dysphania</i> sp.	
	<i>Maireana</i> ? <i>georgei</i>	
	<i>Salsola australis</i>	
	<i>Sclerolaena densiflora</i>	
	<i>Sclerolaena hostilis</i>	

Family	Taxon	Status
Cleomaceae	<i>Areocleome oxalidea</i>	
	<i>Arivela uncifera</i> subsp. <i>uncifera</i>	
	<i>Arivela viscosa</i>	
Combretaceae	<i>Terminalia circumalata</i>	
Commelinaceae	<i>Commelina ensifolia</i>	
Convolvulaceae	<i>Bonamia alatisemina</i>	
	<i>Bonamia erecta</i>	
	<i>Bonamia linearis</i>	
	<i>Bonamia pannosa</i>	
	<i>Bonamia pilbarensis</i>	
	<i>Bonamia pilbarensis</i> (tight indumentum form)	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Bonamia</i> sp.	
	<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	
	<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	
	<i>Ipomoea coptica</i>	
	<i>Ipomoea muelleri</i>	
	<i>Ipomoea plebeia</i>	
	<i>Ipomoea polymorpha</i>	
	<i>Ipomoea muelleri</i>	
	<i>Operculina aequiseipala</i>	
	<i>Polymeria ambigua</i>	
	<i>Polymeria</i> sp.	
	<i>Polymeria</i> sp. stoloniferous	Other (Anomalous features, potentially new species)
Cucurbitaceae	<i>Cucumis melo</i>	
	<i>Cucumis variabilis</i>	
	<i>Trichosanthes cucumerina</i> var. <i>cucumerina</i>	
Cyperaceae	<i>Abildgaardia oxystachya</i>	
	<i>Bulbostylis barbata</i>	
	<i>Bulbostylis burbridgeae</i>	Priority 4 (DBCA)
	<i>Cyperus bifax</i>	
	<i>Cyperus blakeanus</i>	
	<i>Cyperus conicus</i>	
	<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	
	<i>Cyperus difformis</i>	
	<i>Cyperus hesperius</i>	
	<i>Cyperus iria</i>	
	<i>Cyperus ixiocarpus</i>	
	<i>Cyperus leptocarpus</i>	
	<i>Cyperus pulchellus</i>	
	<i>Cyperus squarrosus</i>	
	<i>Cyperus vaginatus</i>	

Family	Taxon	Status
Cyperaceae	<i>Cyperus ?conicus</i>	
	<i>Fimbristylis dichotoma</i>	
	<i>Fimbristylis microcarya</i>	
	<i>Fimbristylis rara</i>	
	<i>Fimbristylis simulans</i>	
	<i>Fimbristylis sp.</i>	
	<i>Fuirena ciliaris</i>	
	<i>Schoenoplectiella dissachantha</i>	
	<i>Schoenoplectiella laevis</i>	
	<i>Schoenoplectus subulatus</i>	
Droseraceae	<i>Drosera finlaysoniana</i>	
Elatinaceae	<i>Bergia ammannioides</i>	
	<i>Bergia pedicellaris</i>	
Euphorbiaceae	<i>Adriana tomentosa</i> var. <i>tomentosa</i>	
	<i>Euphorbia ?boophthona</i>	
	<i>Euphorbia australis</i> var. <i>subtomentosa</i>	
	<i>Euphorbia biconvexa</i>	
	<i>Euphorbia biconvexa</i> / <i>trigonosperma</i>	
	<i>Euphorbia boophthona</i>	
	<i>Euphorbia careyi</i>	
	<i>Euphorbia clementii</i>	Priority 3 (DBCA)
	<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	
	<i>Euphorbia trigonosperma</i>	
	<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	
	<i>Mallotus nesophilus</i>	
	<i>Microstachys chamaelea</i>	
Fabaceae	<i>Acacia acradenia</i>	
	<i>Acacia ampliceps</i>	
	<i>Acacia ampliceps</i> x <i>bivenosa</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia ancistrocarpa</i>	
	<i>Acacia ancistrocarpa</i> x <i>orthocarpa</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia ancistrocarpa</i> x <i>trachycarpa</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia ancistrocarpa</i> x unknown hybrid	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia arida</i>	
	<i>Acacia bivenosa</i>	
	<i>Acacia citrinoviridis</i>	
	<i>Acacia colei</i> var. <i>colei</i>	
	<i>Acacia coriacea</i> subsp. <i>pendens</i>	

Family	Taxon	Status
Fabaceae	<i>Acacia eriopoda</i>	
	<i>Acacia eriopoda</i> x <i>stellaticeps</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia inaequilatera</i>	
	<i>Acacia maitlandii</i>	
	<i>Acacia orthocarpa</i>	
	<i>Acacia orthocarpa</i> x <i>stellaticeps</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia pruinocarpa</i>	
	<i>Acacia ptychophylla</i>	
	<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	
	<i>Acacia retivenea</i> subsp. <i>clandestina</i>	
	<i>Acacia sericophylla</i>	
	<i>Acacia sphaerostachya</i>	
	<i>Acacia stellaticeps</i>	
	<i>Acacia synchronicia</i>	
	<i>Acacia trachycarpa</i>	
	<i>Acacia trachycarpa</i> x unknown hybrid	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Acacia tumida</i> var. <i>pilbarensis</i>	
	<i>Acacia tumida</i> var. <i>pilbarensis</i> x unknown hybrid	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Alysicarpus muelleri</i>	
	<i>Cajanus marmoratus</i>	
	<i>Cajanus pubescens</i>	
	<i>Crotalaria dissitiflora</i> subsp. <i>benthamiana</i>	
	<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	
	<i>Crotalaria ramosissima</i>	
	<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	
	<i>Cullen leucanthum</i>	
	<i>Cullen martinii</i>	
	<i>Cullen stipulaceum</i>	
	<i>Cullen leucochaetes</i>	
	<i>Dichrostachys spicata</i>	
	<i>Gompholobium oreophilum</i>	
	<i>Grona filiformis</i>	
	<i>Grona muelleri</i>	
	<i>Indigofera colutea</i>	
	<i>Indigofera hirsuta</i>	
	<i>Indigofera linifolia</i>	
	<i>Indigofera monophylla</i>	
	<i>Indigofera rugosa</i>	

Family	Taxon	Status
Fabaceae	<i>Isotropis atropurpurea</i>	
	<i>Leptosema anomalum</i>	
	<i>Neptunia longipila</i>	Priority 2 (DBCA)
	<i>Petalostylis labicheoides</i>	
	<i>Rhynchosia minima</i>	
	<i>Rothia indica</i> subsp. <i>australis</i>	Priority 3 (DBCA)
	<i>Senna artemisioides</i> subsp. <i>helmsii</i>	
	<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	
	<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>helmsii</i>	Other (unusual species, restricted subspecies, varieties or hybrid)
	<i>Senna curvistyla</i>	
	<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	
	<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	
	<i>Senna glutinosa</i> subsp. <i>xluerssenii</i>	
	<i>Senna notabilis</i>	
	<i>Senna symonii</i>	
	<i>Senna venusta</i>	
	<i>Sesbania cannabina</i>	
	<i>Swainsona kingii</i>	
	<i>Swainsona stenodonta</i>	
	<i>Tephrosia clementii</i>	
	<i>Tephrosia densa</i>	
	<i>Tephrosia rosea</i> var. <i>clementii</i>	
	<i>Tephrosia</i> sp.	
	<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	
	<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	
	<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS 0356)	
	<i>Tephrosia supina</i>	
	<i>Tephrosia virens</i>	
	<i>Vigna lanceolata</i> var. <i>lanceolata</i>	
	<i>Zornia albiflora</i>	
	<i>Zornia muelleriana</i> subsp. <i>congesta</i>	Other (Range Extension)
Gentianaceae	<i>Schenkia australis</i>	
Goodeniaceae	<i>Dampiera candicans</i>	
	<i>Goodenia forrestii</i>	
	<i>Goodenia lamprosperma</i>	
	<i>Goodenia microptera</i>	
	<i>Goodenia muelleriana</i>	
	<i>Goodenia nuda</i>	
	<i>Goodenia obscurata</i>	Priority 3 (DBCA)
	<i>Goodenia stobbsiana</i>	
	<i>Goodenia triodiophila</i>	

Family	Taxon	Status
Goodeniaceae	<i>Scaevola amblyanthera</i> var. <i>centralis</i>	
	<i>Scaevola browniana</i> subsp. <i>browniana</i>	
	<i>Scaevola spinescens</i>	
Gyrostemonaceae	<i>Codonocarpus cotinifolius</i>	
Haloragaceae	<i>Gonocarpus ephemerus</i>	
	<i>Haloragis maierae</i>	
	<i>Haloragis</i> sp.	
Lamiaceae	<i>Clerodendrum floribundum</i> var. <i>angustifolium</i>	
	<i>Clerodendrum tomentosum</i> var. <i>lanceolatum</i>	
Lauraceae	<i>Cassytha capillaris</i>	
Loganiaceae	<i>Mitrasacme connata</i>	
Lythraceae	<i>Ammannia baccifera</i>	
	<i>Ammannia multiflora</i>	
	<i>Ammannia</i> sp.	
Malvaceae	<i>Abutilon amplum</i>	
	<i>Abutilon cunninghamii</i>	
	<i>Abutilon lepidum</i>	
	<i>Abutilon otocarpum</i>	
	<i>Abutilon</i> sp.	
	<i>Abutilon</i> sp. Dioicum (A.A. Mitchell PRP 1618)	
	<i>Abutilon</i> sp. Pilbara (W.R. Barker 2025)	
	<i>Abutilon</i> ? <i>amplum</i>	
	<i>Abutilon</i> ? <i>lepidum</i>	
	<i>Corchorus</i> ? <i>lasiocarpus</i>	
	<i>Corchorus</i> ? <i>tectus</i>	
	<i>Corchorus incanus</i> subsp. <i>incanus</i>	
	<i>Corchorus laniflorus</i>	
	<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	
	<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	
	<i>Corchorus parviflorus</i>	
	<i>Corchorus</i> sp.	
	<i>Corchorus tectus</i>	
	<i>Corchorus tridens</i>	
	<i>Corchorus trilocularis</i>	
	<i>Gossypium australe</i>	
	<i>Gossypium robinsonii</i>	
	<i>Hibiscus austrinus</i> var. <i>austrinus</i>	
	<i>Hibiscus brachychlaenus</i>	
	<i>Hibiscus coatesii</i>	
	<i>Hibiscus goldsworthii</i>	
	<i>Hibiscus leptocladus</i>	
	<i>Hibiscus</i> sp.	

Family	Taxon	Status
Malvaceae	<i>Hibiscus sturtii</i> var. <i>?platychlamys</i>	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	
	<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	
	<i>Hibiscus sturtii</i> var. <i>platychlamys</i>	
	<i>Malvastrum americanum</i>	
	<i>Melhaniania oblongifolia</i>	
	<i>Seringia ?nephrosperma</i>	
	<i>Seringia exastia</i>	
	<i>Seringia</i> sp.	
	<i>Sida arenicola</i>	
	<i>Sida arsinata</i>	
	<i>Sida cardiophylla</i>	
	<i>Sida clementii</i>	
	<i>Sida fibulifera</i>	
	<i>Sida</i> sp. Pilbara (A.A. Mitchell PRP 1543)	
	<i>Sida</i> sp. Pindan (B.G. Thomson 3398)	
	<i>Triumfetta ?propinqua</i>	
	<i>Triumfetta chaetocarpa</i>	
	<i>Triumfetta maconochieana</i>	
	<i>Triumfetta propinqua</i>	
	<i>Triumfetta ramosa</i>	
	<i>Waltheria indica</i>	
	<i>Waltheria virgata</i>	
Marsileaceae	<i>Marsilea ?hirsuta</i>	
	<i>Marsilea hirsuta</i>	
	<i>Marsilea</i> sp.	
Menispermaceae	<i>Tinospora smilacina</i>	
Molluginaceae	<i>Glinus oppositifolius</i> var. <i>keenanii</i>	
	<i>Hypertelis cerviana</i>	
	<i>Trigastrotheca molluginea</i>	
Montiaceae	<i>Calandrinia pentavalvis</i>	
	<i>Calandrinia tepperiana</i>	
Moraceae	<i>Ficus aculeata</i> var. <i>indecora</i>	
	<i>Ficus brachypoda</i>	
	<i>Ficus virens</i> var. <i>virens</i>	
Myrtaceae	<i>Corymbia candida</i>	
	<i>Corymbia deserticola</i> subsp. <i>deserticola</i>	
	<i>Corymbia ferriticola</i>	
	<i>Corymbia hamersleyana</i>	
	<i>Corymbia zygophylla</i>	
	<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	
	<i>Eucalyptus victrix</i>	
	<i>Melaleuca argentea</i>	

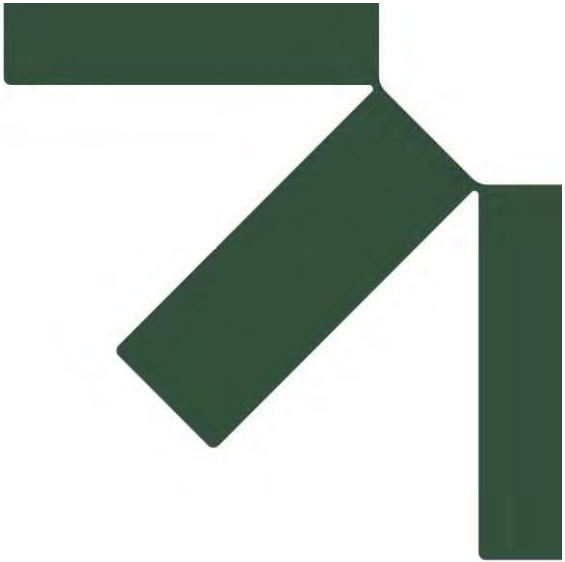
Family	Taxon	Status
Myrtaceae	<i>Melaleuca glomerata</i>	
	<i>Melaleuca linophylla</i>	
Nyctaginaceae	<i>Boerhavia burbridgeana</i>	
	<i>Boerhavia coccinea</i>	
	<i>Boerhavia paludosa</i>	
	<i>Boerhavia repleta</i>	
	<i>Boerhavia</i> sp.	
Oleaceae	<i>Jasminum didymum</i> subsp. <i>lineare</i>	
Onagraceae	<i>Ludwigia perennis</i>	
Orobanchaceae	<i>Buchnera linearis</i>	
	<i>Striga</i> sp.	
Phrymaceae	<i>Peplidium</i> sp.	
Phyllanthaceae	<i>Cathetus exilis</i>	
	<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	
	<i>Nelica maderaspatensis</i>	
	<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	
	<i>Phyllanthus hebecarpus</i>	Priority 3 (DBCA)
Plantaginaceae	<i>Stemodia grossa</i>	
	<i>Stemodia</i> sp.	
	<i>Stemodia viscosa</i>	
Poaceae	<i>Aristida burbridgeae</i>	
	<i>Aristida contorta</i>	
	<i>Aristida holathera</i> var. <i>holathera</i>	
	<i>Aristida hygrometrica</i>	
	<i>Aristida latifolia</i>	
	<i>Aristida</i> sp.	
	<i>Bothriochloa ewartiana</i>	
	<i>Cenchrus ciliaris</i>	
	<i>Cenchrus setiger</i>	
	<i>Chloris pumilio</i>	
	<i>Chrysopogon fallax</i>	
	<i>Cymbopogon ambiguus</i>	
	<i>Cymbopogon obtectus</i>	
	<i>Cynodon convergens</i>	
	<i>Cynodon prostratus</i>	
	<i>Dactyloctenium radulans</i>	
	<i>Dichanthium fecundum</i>	
	<i>Dichanthium sericeum</i> subsp. <i>humilius</i>	
	<i>Digitaria ?bicornis</i>	
	<i>Digitaria ctenantha</i>	
	<i>Elytrophorus spicatus</i>	
	<i>Enneapogon caeruleus</i>	
	<i>Enneapogon lindleyanus</i>	
	<i>Enneapogon polyphyllus</i>	
	<i>Enneapogon robustissimus</i>	

Family	Taxon	Status
Poaceae	<i>Eragrostis crateriformis</i>	
	<i>Eragrostis cumingii</i>	
	<i>Eragrostis dielsii</i>	
	<i>Eragrostis eriopoda</i>	
	<i>Eragrostis leptocarpa</i>	
	<i>Eragrostis setifolia</i>	
	<i>Eragrostis tenellula</i>	
	<i>Eragrostis xerophila</i>	
	<i>Eriachne</i> sp. Coongan Station (A.A. Mitchell PRP1566)	
	<i>Eriachne aristidea</i>	
	<i>Eriachne benthamii</i>	
	<i>Eriachne ciliata</i>	
	<i>Eriachne flaccida</i>	
	<i>Eriachne glauca</i> var. <i>glauca</i>	
	<i>Eriachne helmsii</i>	
	<i>Eriachne melicacea</i>	
	<i>Eriachne mucronata</i>	
	<i>Eriachne obtusa</i>	
	<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	
	<i>Eriachne tenuiculmis</i>	
	<i>Eulalia aurea</i>	
	<i>Heteropogon contortus</i>	
	<i>Mnesithea formosa</i>	
	<i>Panicum australiense</i> var. <i>australiense</i>	
	<i>Panicum decompositum</i>	
	<i>Paraneurachne muelleri</i>	
	<i>Paspalidium basicladum</i>	
	<i>Paspalidium clementii</i>	
	<i>Paspalidium rarum</i>	
	<i>Paspalidium</i> sp.	
	<i>Paspalidium tabulatum</i>	
	<i>Perotis rara</i>	
	<i>Schizachyrium fragile</i>	
	<i>Setaria dielsii</i>	
	<i>Setaria surgens</i>	
	<i>Sorghum plumosum</i> var. <i>plumosum</i>	
	<i>Sporobolus actinocladius</i>	
	<i>Sporobolus australasicus</i>	
	<i>Sporobolus mitchellii</i>	
	<i>Themeda triandra</i>	
	<i>Triodia angusta</i>	
	<i>Triodia basitricha</i>	Priority 3 (DBCA)
	<i>Triodia brizoides</i>	
	<i>Triodia chichesterensis</i>	Priority 3 (DBCA)

Family	Taxon	Status
Poaceae	<i>Triodia epactia</i>	
	<i>Triodia lanigera</i>	
	<i>Triodia longiceps</i>	
	<i>Triodia schinzii</i>	
	<i>Triodia secunda</i>	
	<i>Triodia wiseana</i>	
	<i>Tripogonella loliiformis</i>	
	<i>Urochloa holosericea</i> subsp. <i>velutina</i>	
Polygalaceae	<i>Polygala galeocephala</i>	Other (Range Extension)
	<i>Polygala glaucifolia</i>	
Portulacaceae	<i>Calandrinia</i> sp.	
	<i>Calandrinia stagnensis</i>	
	<i>Portulaca conspicua</i>	
	<i>Portulaca digyna</i>	Other (Range Extension)
	<i>Portulaca filifolia</i>	
	<i>Portulaca oleracea</i>	
	<i>Portulaca</i> sp.	
Proteaceae	<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	
	<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	
	<i>Hakea lorea</i> subsp. <i>lorea</i>	
Pteridaceae	<i>Cheilanthes brownii</i>	
	<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	
	<i>Cheilanthes</i> sp.	
Rubiaceae	<i>Dolichocarpa crouchiana</i>	
	<i>Scleromitron galioides</i>	
	<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	
Santalaceae	<i>Santalum lanceolatum</i>	
Sapindaceae	<i>Atalaya hemiglauca</i>	
	<i>Dodonaea coriacea</i>	
Scrophulariaceae	<i>Eremophila latrobei</i> subsp. <i>filiformis</i>	
Solanaceae	<i>Nicotiana benthamiana</i>	
	<i>Nicotiana occidentalis</i>	
	<i>Nicotiana</i> sp.	
	<i>Nicotiana umbratica</i>	Priority 3 (DBCA)
	<i>Solanum ?horridum</i>	
	<i>Solanum</i> aff. <i>cleistogamum</i>	Other (Anomalous features, potentially new species)
	<i>Solanum chippendalei</i>	
	<i>Solanum cleistogamum</i>	
	<i>Solanum diversiflorum</i>	
	<i>Solanum gabrielae</i>	
	<i>Solanum horridum</i>	
	<i>Solanum nigrum</i>	
	<i>Solanum phlomoides</i>	

Family	Taxon	Status
Stylidiaceae	<i>Stylidium desertorum</i>	
Thymelaeaceae	<i>Pimelea ammodarisi</i>	
Violaceae	<i>Afrohybanthus aurantiacus</i>	
Zygophyllaceae	<i>Tribulopsis angustifolia</i>	
	<i>Tribulus hirsutus</i>	
	<i>Tribulus macrocarpus</i>	
	<i>Tribulus occidentalis</i>	
	<i>Tribulus platypterus</i>	
	<i>Tribulus sp.</i>	
	<i>Tribulus suberosus</i>	

SOI = Species of interest, * = Introduced taxa, RE = Range extension, P = Priority flora



Appendix F Flora Site Data

Detailed Flora and Vegetation Assessment

Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

FLORA SITE SHEET

Site: NSQ01
Project Name: Turner River
Location: -21.23550 Lat 118.86442 Long
Described by: [REDACTED]
Date: 21-06-2022
Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: North
Rock Type: Granite, Ironstone
Soil Type: Clay, Gravel, Loam
Soil Colour: Light Brown



Vegetation: *Acacia acradenia* and *A. inaequilatera* low isolated shrubs over *Triodia wiseana* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.5	0.5	
<i>Acacia ancistrocarpa</i>	0.6	0.1	
<i>Acacia inaequilatera</i>	1	0.5	
<i>Bonamia pilbarensis</i>	0.15	0.1	
<i>Corchorus parviflorus</i>	0.8	0.1	
<i>Corymbia hamersleyana</i>	1	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.9	0.5	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Petalostylis labicheoides</i>	0.6	0.5	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Tephrosia</i> sp. NW <i>Eremaean</i> (S. van Leeuwen et al. PBS)	0.05	0.5	
<i>Tribulus platypterus</i>	1.4	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia chichesterensis</i>	0.2	0.1	Priority 3 (DBCA)

FLORA SITE SHEET

Site: NSR02
Project Name: Turner River
Location: -21.22926 Lat 118.86374 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Eucalyptus camaldulensis* and *E. victrix* isolated trees over *Melaleuca glomerata* (*M. linophylla*) tall shrubland over *Triodia longiceps* low isolated tussock grasses

Condition: Excellent **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ampliceps</i>	1.5	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	0.1	
<i>Acacia trachycarpa</i>	1	0.1	
* <i>Aerva javanica</i>	0.1	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Amaranthus</i> sp.	0.05	0.1	
<i>Arivela viscosa</i>	0.5	0.1	
<i>Atalaya hemiglauca</i>	2.1	0.1	
<i>Boerhavia</i> sp.	0.05	0.1	
* <i>Cenchrus ciliaris</i>	0.3	1	
* <i>Cenchrus setiger</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.25	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.2	0.1	
<i>Cucumis variabilis</i>	0.05	0.1	
<i>Cullen leucanthum</i>	1.8	0.1	
<i>Cyperus vaginatus</i>	0.6	1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Eragrostis tenellula</i>	0.5	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	11	1	
<i>Eucalyptus victrix</i>	9	1	
<i>Eulalia aurea</i>	1.2	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.3	0.1	
<i>Euploca tanythrix</i>	0.2	0.1	
<i>Ficus brachypoda</i>	2.5	0.1	
* <i>Flaveria trinervia</i>	0.5	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	3	0.1	
<i>Goodenia lamprosperma</i>	0.15	0.1	
<i>Gossypium robinsonii</i>	0.6	0.1	
<i>Gymnanthera cunninghamii</i>	0.019	0.1	Priority 3 (DBCA)
<i>Indigofera monophylla</i>	0.1	0.1	
<i>Melaleuca glomerata</i>	4	25	
<i>Melaleuca linophylla</i>	4	4	
<i>Nelica maderaspatensis</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	0.1	0.1	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.1	0.1	
<i>Solanum chippendalei</i>	0.4	0.1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	1	
<i>Triodia epactia</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSR03
Project Name: Turner River
Location: -21.22468 Lat 118.86194 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Gravel, Sand
Soil Colour: Light Brown, Red



Vegetation: *Corymbia hamersleyana* low open woodland over *Acacia tumida* var. *pilbarensis* (*Grevillea wickhamii*) tall shrubland over *Cenchrus* spp. low tussock grassland

Condition: Very Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2	0.1	
<i>Acacia bivenosa</i>	3.5	0.1	
<i>Acacia citrinoviridis</i>	0.05	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.2	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4.5	15	
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	2	0.5	
* <i>Aerva javanica</i>	0.2	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.15	0.1	
<i>Cajanus pubescens</i>	1.8	0.1	
<i>Cassutha capillaris</i>	1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	40	
* <i>Cenchrus setiger</i>	0.3	10	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Clerodendrum floribundum</i> var. <i>angustifolium</i>	1.8	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	5	9	
<i>Cymbopogon ambiguus</i>	0.3	0.1	
<i>Cynodon convergens</i>	0.1	0.1	
<i>Enneapogon lindleyanus</i>	0.3	0.1	
<i>Eriachne tenuiculmis</i>	0.2	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.15	0.1	
<i>Euphorbia biconvexa</i>	0.1	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	0.6	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Gossypium robinsonii</i>	3	0.5	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.4	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	2	
<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.6	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Jasminum didymum</i> subsp. <i>lineare</i>	2	0.1	
<i>Nellica maderaspatensis</i>	0.1	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	0.25	0.1	
<i>Polymeria ambigua</i>	0.5	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1.5	0.1	
<i>Solanum chippendalei</i>	0.4	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	1	0.1	
<i>Themeda triandra</i>	0.5	0.1	
<i>Triodia epactia</i>	0.4	1	

FLORA SITE SHEET

Site: NSQ04
Project Name: Turner River
Location: -21.23060 **Lat** 118.86442 **Long**
Described by: [REDACTED]
Date: 21-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Northeast
Rock Type: Ironstone
Soil Type: Sand
Soil Colour: Brown, Red



Vegetation: *Eucalyptus victrix* (*Corymbia hamersleyana*) low open woodland over *Atalaya hemiglauc*a and *Acacia trachycarpa* tall shrubland over *Triodia epactia* and *T. longiceps* low hummock grassland over *Cenchrus* spp. low tussock grassland

Condition: Good

Disturbance Type:

Fire Age: >10 years

Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.6	0.1	
<i>Acacia acradenia</i>	1.8	0.1	
<i>Acacia ampliceps</i>	1.1	0.1	
<i>Acacia bivenosa</i>	2.5	0.1	
<i>Acacia inaequilatera</i>	2.5	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	1	
<i>Acacia trachycarpa</i>	3.5	15	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.5	0.1	
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	0.6	0.1	
* <i>Aerva javanica</i>	0.4	0.1	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Atalaya hemiglauc</i> a	3	2	
<i>Bonamia pannosa</i>	0.05	0.1	
<i>Cajanus pubescens</i>	0.5	0.1	
* <i>Cenchrus ciliaris</i>	0.3	20	
* <i>Cenchrus setiger</i>	0.2	9	
<i>Corchorus parviflorus</i>	0.7	0.1	
<i>Corymbia hamersleyana</i>	8	3	
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	0.1	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1.1	0.1	
<i>Cucumis variabilis</i>	0.6	0.1	
<i>Cullen leucanthum</i>	0.7	1	
<i>Cyperus vaginatus</i>	0.1	0.1	
<i>Eucalyptus victrix</i>	8	2	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia biconvexa</i>	0.1	0.1	
* <i>Flaveria trinervia</i>	0.05	0.1	
<i>Gossypium robinsonii</i>	1	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.1	0.1	
<i>Hibiscus sturtii</i> var. <i>platyphlamys</i>	0.4	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Indigofera rugosa</i>	0.5	0.1	
<i>Melaleuca glomerata</i>	4	0.1	
<i>Nelica maderaspatensis</i>	0.1	0.1	
<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	0.7	0.1	
<i>Polymeria ambigua</i>	0.05	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.5	0.1	
<i>Sida clementii</i>	0.5	0.1	
<i>Sida fibulifera</i>	0.2	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.1	
<i>Triodia epactia</i>	0.5	21	

FLORA SITE SHEET

Site: NSQ05
Project Name: Turner River
Location: -21.20908 **Lat** 118.85322 **Long**
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: Northwest
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia ancistrocarpa* (*A. tumida* var. *pilbarensis*) tall open shrubland over *Triodia basitricha* low hummock grassland

Condition: Very Good **Disturbance Type:**
Fire Age: >10 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1	0.1	
<i>Acacia ancistrocarpa</i>	3	12	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.6	0.5	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>	1	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.5	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Senna symonii</i>	1.2	0.1	
<i>Solanum ?horridum</i>	0.15	0.1	
<i>Triodia basitricha</i>	0.4	25	Priority 3 (DBCA)

FLORA SITE SHEET

Site: NSR06
Project Name: Turner River
Location: -21.23140 Lat 118.86234 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: North
Rock Type: Granite
Soil Type: Loam, Sand
Soil Colour: Light Brown



Vegetation: *Acacia orthocarpa* tall open shrubland over *Triodia wiseana* and *T. epactia* (*T. lanigera*) low tussock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2	0.1	
<i>Acacia ancistrocarpa x orthocarpa</i>	3	0.1	Other (unusual species
<i>Acacia orthocarpa</i>	3	9	restricted subspecies
<i>Cynodon prostratus</i>	0.05	0.1	varieties or hybrid)
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.05	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.3	0.1	
<i>Indigofera rugosa</i>	0.5	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.8	0.1	
<i>Pluchea tetranthera</i>	0.4	0.1	
<i>Ptilotus</i> sp.	0.02	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Senna notabilis</i>	0.01	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.6	20	

FLORA SITE SHEET

Site: NSQ07
Project Name: Turner River
Location: -21.17931 Lat 118.84855 Long
Described by: [REDACTED]
Date: 26-06-2022
Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand, Soft Clay, Medium Clay
Soil Colour: Light Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* and *Acacia inaequilatera* mid isolated shrubs over *Triodia chichesterensis* (*T. wiseana*, and *T. lanigera*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	0.5	
<i>Acacia inaequilatera</i>	2.5	0.5	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.05	0.1	
<i>Bonamia pilbarensis</i>	0.15	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	6	0.5	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.01	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.2	0.5	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.2	0.1	
<i>Solanum chippendalei</i>	0.5	0.1	
<i>Tephrosia clementii</i>	0.05	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.05	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia chichesterensis</i>	0.15	10	Priority 3 (DBCA)
<i>Triodia lanigera</i>	0.3	5	

FLORA SITE SHEET

Site: NSR08
Project Name: Turner River
Location: -21.23256 Lat 118.86348 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: North
Rock Type: Ironstone
Soil Type: Clay
Soil Colour: Brown



Vegetation: *Petalostylis labicheoides* (*Acacia acradenia*, *Grevillea wickhamii*) tall open shrubland over *Triodia epactia* and *T. wiseana* low open hummock grassland

Condition: Excellent **Disturbance Type:**
Fire Age: >10 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	3.5	5	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Cassutha capillaris</i>	0.5	0.1	
<i>Corchorus parviflorus</i>	0.8	0.1	
<i>Corchorus</i> sp.	0.4	0.1	
<i>Cucumis variabilis</i>	0.3	0.1	
<i>Eriachne mucronata</i>	0.2	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia biconvexa</i>	0.1	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.5	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	5	
<i>Hibiscus coatesii</i>	0.5	0.1	
<i>Hibiscus</i> sp.	0.3	0.1	
<i>Indigofera monophylla</i>	0.7	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.1	0.1	
<i>Petalostylis labicheoides</i>	3.5	15	
<i>Polymeria ambigua</i>	0.3	0.1	
<i>Ptilotus astrolasius</i>	0.5	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.9	0.5	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.1	0.1	
<i>Triodia epactia</i>	0.4	3	

FLORA SITE SHEET

Site: NSQ09
Project Name: Turner River
Location: -21.20287 Lat 118.84874 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: North
Rock Type: Ironstone, Laterite
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia tumida* var. *pilbarensis* (*A. acradenia*) tall shrubland over *Triodia lanigera* and *T. wiseana* (*T. basitricha*) low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	40	
<i>Afrohybanthus aurantiacus</i>	0.6	0.1	
<i>Bonamia erecta</i>	0.3	0.5	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Dodonaea coriacea</i>	0.9	0.1	
<i>Eriachne mucronata</i>	0.4	0.1	
<i>Fimbristylis</i> sp.	0.02	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.7	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Paraneurachne muelleri</i>	0.4	0.1	
<i>Petalostylis labicheoides</i>	1.9	0.5	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Seringia ?nephrosperma</i>	0.4	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia basitricha</i>	0.4	2	Priority 3 (DBCA)
<i>Triodia lanigera</i>	0.5	10	

FLORA SITE SHEET

Site: NSQ10
Project Name: Turner River
Location: -21.19051 Lat 118.85511 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: West
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis*, *A. ancistrocarpa*, and *A. acradenia* mid to low open shrubland over *Triodia brizoides* (*T. wiseana*, *T. epactia*) low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.4	0.1	
<i>Acacia ancistrocarpa</i>	0.9	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.5	5	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bonamia erecta</i>	0.4	1	
<i>Bonamia</i> sp.	0.05	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	5	1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Euploca</i> sp.	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.4	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Polymeria ambigua</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Sida arenicola</i>	0.6	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.3	0.1	
<i>Tephrosia clementii</i>	0.3	0.1	
<i>Tephrosia</i> sp.	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Triodia brizoides</i>	0.1	8	
<i>Triodia epactia</i>	0.3	1	

FLORA SITE SHEET

Site: NSR11
Project Name: Turner River
Location: -21.20724 Lat 118.84484 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Granite, Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia ancistrocarpa* mid shrubland over *Triodia basitricha* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.8	0.5	
<i>Acacia ancistrocarpa</i>	1.6	15	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.02	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	1	
<i>Ptilotus astrolasius</i>	0.1	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Triodia basitricha</i>	0.3	31	Priority 3 (DBCA)

FLORA SITE SHEET

Site: NSR12
Project Name: Turner River
Location: -21.19287 Lat 118.85118 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Flat
Rock Type: Calcrete
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia*, *Petalostylis labicheoides*, and *Grevillea wickhamii* mid open shrubland over *Triodia chichesterensis* and *T. wiseana* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.2	3	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Cassytha capillaris</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.4	0.1	
<i>Corymbia hamersleyana</i>	6	1	
<i>Dysphania</i> sp.	0.03	0.1	
<i>Eriachne mucronata</i>	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1	
<i>Petalostylis labicheoides</i>	1.8	2	
<i>Ptilotus astrolasius</i>	0.5	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.3	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.04	0.1	
<i>Triodia chichesterensis</i>	0.2	25	Priority 3 (DBCA)
<i>Triodia epactia</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSQ13
Project Name: Turner River
Location: -21.17691 **Lat** 118.86650 **Long**
Described by: [REDACTED]
Date: 27-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia* low open shrubland over *Tephrosia* sp. Bungaroo Creek low isolated shrubs over *Triodia lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.5	5	
<i>Acacia ancistrocarpa</i>	0.7	0.1	
<i>Acacia stellaticeps</i>	0.3	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.3	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.15	0.1	
<i>Chrysopogon fallax</i>	0.7	0.1	
<i>Corchorus parviflorus</i>	0.6	0.1	
<i>Corymbia hamersleyana</i>	6	0.5	
<i>Cucumis variabilis</i>	0.03	0.1	
<i>Dampiera candidans</i>	0.4	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Goodenia stobbsiana</i>	0.25	0.1	
<i>Gossypium australe</i>	1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.6	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.6	0.1	
<i>Indigofera monophylla</i>	0.9	0.1	
<i>Isotropis atropurpurea</i>	0.1	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Sida clementii</i>	0.2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	1	
<i>Triodia lanigera</i>	0.2	25	

FLORA SITE SHEET

Site: NSQ14
Project Name: Turner River
Location: -21.19195 Lat 118.84787 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* tall open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.3	0.1	
<i>Acacia ancistrocarpa</i>	3.5	8	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.15	0.1	
<i>Bonamia erecta</i>	0.15	1	
<i>Bonamia pilbarensis</i>	0.01	0.1	
<i>Corchorus parviflorus</i>	0.5	1	
<i>Corchorus tectus</i>	0.1	0.1	
<i>Corymbia hamersleyana</i>	9	1	
<i>Cucumis variabilis</i>	0.7	0.1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Euploca pachyphylla</i>	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.4	0.1	
<i>Hibiscus brachychlaenus</i>	0.5	0.1	
<i>Indigofera monophylla</i>	0.15	0.1	
<i>Paraneurachne muelleri</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.5	
<i>Ptilotus calostachyus</i>	0.15	0.1	
<i>Ptilotus</i> sp.	0.3	0.1	
<i>Senna notabilis</i>	0.15	0.1	
<i>Sida arenicola</i>	0.4	0.1	
<i>Solanum phlomoides</i>	0.4	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Tribulus hirsutus</i>	0.15	0.1	
<i>Triodia epactia</i>	0.15	0.1	
<i>Triodia lanigera</i>	0.3	6	

FLORA SITE SHEET

Site: NSQ15
Project Name: Turner River
Location: -21.18384 Lat 118.87209 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Acacia tumida* var. *pilbarensis* and *A. ancistrocarpa* (*A. acradenia*, *Petalostylis labicheoides*) mid shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.6	0.5	
<i>Acacia ancistrocarpa</i>	1.6	5	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	10	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.15	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia linearis</i>	0.05	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Dampiera candidans</i>	0.2	0.1	
<i>Fimbristylis</i> sp.	0.03	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	1.8	0.5	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Ptilotus calostachyus</i>	0.7	0.1	
<i>Tephrosia clementii</i>	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.7	0.1	
<i>Triodia brizoides</i>	0.15	0.1	
<i>Triodia lanigera</i>	0.25	25	

FLORA SITE SHEET

Site: NSQ16
Project Name: Turner River
Location: -21.18206 Lat 118.84586 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* tall open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	0.7	3	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bonamia erecta</i>	0.4	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	6.5	1	
<i>Dampiera candidans</i>	0.2	0.1	
<i>Euploca pachyphylla</i>	0.15	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Ptilotus calostachyus</i>	0.7	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.3	15	

FLORA SITE SHEET

Site: NSR17
Project Name: Turner River
Location: -21.18734 Lat 118.87520 Long
Described by: [REDACTED]
Date: 28-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Dolerite, Granite
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Acacia acradenia* and *A. inaequilatera* low isolated shrubs over *Triodia wiseana* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.6	2	
<i>Acacia inaequilatera</i>	2	1	
<i>Bonamia pilbarensis</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.5	0.5	
<i>Cymbopogon ambiguus</i>	0.8	0.1	
<i>Euphorbia boophthona</i>	0.3	0.1	
<i>Euphorbia careyi</i>	0.3	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	1.2	0.1	
<i>Euploca pachyphylla</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Senna notabilis</i>	0.15	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.15	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSQ18
Project Name: Turner River
Location: -21.18426 Lat 118.84192 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low open woodland over *Grevillea wickhamii* and *Petalostylis labicheoides* mid isolated shrubs over *Triodia lanigera* (*T. wiseana*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.4	0.1	
<i>Acacia ancistrocarpa</i>	0.6	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.5	0.1	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.3	1	
<i>Corymbia hamersleyana</i>	7	4	
<i>Dampiera candidans</i>	0.5	0.1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Euploca pachyphylla</i>	0.3	0.1	
<i>Goodenia stobbsiana</i>	0.05	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.5	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.3	0.1	
<i>Polymeria ambigua</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Sida arenicola</i>	0.4	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1	
<i>Triodia basitricha</i>	0.3	0.1	Priority 3 (DBCA)
<i>Triodia lanigera</i>	0.2	40	

FLORA SITE SHEET

Site: NSR19
Project Name: Turner River
Location: -21.18425 Lat 118.88932 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Ironstone, Shale
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Acacia inaequilatera* tall isolated shrubs over *Acacia ptychophylla* (*Tribulus suberosus*) low patches of shrubs over *Triodia brizoides* (*T. wiseana*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	2.2	1	
<i>Acacia ptychophylla</i>	0.5	8	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Corchorus ?tectus</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.9	0.5	
<i>Cymbopogon ambiguus</i>	0.2	0.1	
<i>Dampiera candidans</i>	0.3	1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Gossypium australe</i>	1.3	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.1	
<i>Indigofera monophylla</i>	0.25	1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.1	0.1	
<i>Senna symonii</i>	1.2	0.1	
<i>Tephrosia clementii</i>	0.05	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.1	0.1	
<i>Tribulus suberosus</i>	0.5	0.1	
<i>Triodia brizoides</i>	0.1	20	

FLORA SITE SHEET

Site: NSR20
Project Name: Turner River
Location: -21.19192 Lat 118.87266 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia inaequilatera* tall isolated shrubs over *Triodia wiseana* low open hummock grassland

Condition: Excellent
Fire Age: 1-5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon cunninghamii</i>	0.05	0.1	
<i>Acacia acradenia</i>	0.3	0.1	
<i>Acacia inaequilatera</i>	2.1	1	
<i>Bonamia pilbarensis</i>	0.03	0.1	
<i>Corchorus</i> sp.	0.5	0.1	
<i>Eriachne mucronata</i>	0.2	0.1	
<i>Euphorbia careyi</i>	0.15	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.6	0.1	
<i>Ptilotus mollis</i>	0.3	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Senna symonii</i>	0.6	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.1	0.1	
<i>Tephrosia virens</i>	0.6	0.1	
<i>Tribulus suberosus</i>	0.6	0.1	

Priority 4 (DBCA)

FLORA SITE SHEET			
Site:	NSQ21		
Project Name	Turner River		
Location	-21.17905	Lat	118.88263 Long
Described by:	[REDACTED]		
Date:	27-06-2022		
Type:	QUADRAT	50 x 50 m	
Landform:	Plains		
Slope:	Flat		
Rock Type:	Granite,Ironstone,Quartz		
Soil Type:	Clay,Loam		
Soil Colour:	Brown,Red		
Vegetation:	Corymbia hamersleyana low isolated trees over Acacia acradenia (A. ancistrocarpa) tall shrubland over Triodia lanigera low hummock grassland		
Condition:	Excellent	Disturbance Type:	None
Fire Age:	>10 years		
SPECIES LIST			
Taxon	Height (m)	Cover (%)	Notes
Acacia acradenia	2	15	
Acacia ancistrocarpa	2	5	
Bonamia erecta	0.1	0.1	
Corymbia hamersleyana	10	0.5	
Eriachne pulchella subsp. pulchella	0.02	0.1	
Fimbristylis sp.	0.01	0.1	
Grevillea wickhamii subsp. hispidula	1.1	0.1	
Ptilotus astrolasius	0.2	0.1	
Ptilotus calostachyus	1	0.1	
Triodia lanigera	0.4	35	



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FLORA SITE SHEET

Site: NSQ22
Project Name: Turner River
Location: -21.19426 Lat 118.86939 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* (*Grevillea wickhamii*) tall shrubland over *Petalostylis labicheoides*, *A. acradenia* (*A. pyrifolia*) mid shrubland over *Tephrosia rosea* var. *clementii* and *Corchorus parviflorus* low s

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.3	4	
<i>Acacia ancistrocarpa</i>	0.6	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.8	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	10	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arvela uncifera</i> subsp. <i>uncifera</i>	0.3	1	
<i>Bonamia pannosa</i>	0.02	0.1	
<i>Bulbostylis barbata</i>	0.02	0.1	
<i>Cajanus pubescens</i>	1.2	0.1	
<i>Clerodendrum floribundum</i> var. <i>angustifolium</i>	2	0.1	
<i>Corchorus parviflorus</i>	0.6	11	
<i>Corymbia hamersleyana</i>	5	1	
<i>Cucumis variabilis</i>	0.05	0.1	
<i>Cullen stipulaceum</i>	0.8	0.1	
<i>Cymbopogon ambiguus</i>	0.6	0.1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Dysphania</i> sp.	0.05	0.1	
<i>Euphorbia biconvexa</i>	0.15	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.5	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.5	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Isotropis atropurpurea</i>	0.7	0.5	
<i>Jasminum didymum</i> subsp. <i>lineare</i>	0.5	0.1	
<i>Petalostylis labicheoides</i>	1.8	8	
<i>Pterocaulon</i> sp.	0.3	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus auriculifolius</i>	0.05	0.1	
<i>Sida clementii</i>	0.4	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.7	15	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.2	5	

FLORA SITE SHEET

Site: NSR23
Project Name: Turner River
Location: -21.12446 Lat 118.74492 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Quartz
Soil Type: Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* and *Petalostylis labicheoides* tall isolated shrubs over *Acacia stellaticeps* low shrubland over *Triodia epactia* and *T. wiseana* (*T. lanigera*) low hummock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.2	0.1	
<i>Acacia bivenosa</i>	0.5	0.1	
<i>Acacia inaequilatera</i>	1.2	0.1	
<i>Acacia stellaticeps</i>	1.4	12	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.4	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Cassytha capillaris</i>	0.3	0.5	
<i>Corchorus parviflorus</i>	0.7	0.1	
<i>Corymbia hamersleyana</i>	5	0.1	
<i>Eragrostis eriopoda</i>	0.2	0.1	
<i>Euploca pachyphylla</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1	
<i>Hibiscus brachychlaenus</i>	0.5	0.1	
<i>Petalostylis labicheoides</i>	1.8	1	
<i>Ptilotus astrolasius</i>	0.3	0.5	
<i>Ptilotus axillaris</i>	0.05	0.1	
<i>Ptilotus calostachyus</i>	1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.5	10	
<i>Triodia lanigera</i>	0.5	1	

FLORA SITE SHEET

Site: NSR24
Project Name: Turner River
Location: -21.16477 Lat 118.88668 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone, Mudstone
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Eucalyptus victrix* (*Corymbia hamersleyana*) low open woodland over *Acacia tumida* var. *pilbarensis* (*Melaleuca glomerata*) tall open shrubland over *Tephrosia rosea* var. *clementii* low isolated shrubs over *Eriachne benthamii* low tussock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	0.7	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	5	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Bonamia alatisemina</i>	0.02	0.1	
<i>Bulbostylis barbata</i>	0.15	0.1	
<i>Cajanus pubescens</i>	0.4	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	4.5	1	
<i>Cucumis variabilis</i>	0.05	0.1	
<i>Cymbopogon ambiguus</i>	0.5	0.1	
<i>Dampiera candicans</i>	0.3	0.1	
<i>Dysphania</i> sp.	0.05	0.1	
<i>Eragrostis tenellula</i>	0.2	0.1	
<i>Eriachne benthamii</i>	0.5	10	
<i>Eriachne obtusa</i>	0.4	0.1	
<i>Eriachne tenuiculmis</i>	0.4	0.1	
<i>Eucalyptus victrix</i>	8	2	
<i>Euphorbia biconvexa</i>	0.15	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2	0.1	
<i>Goodenia lamprosperma</i>	0.3	0.5	
<i>Gossypium robinsonii</i>	2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	0.05	0.1	
<i>Melaleuca glomerata</i>	2.2	1	
<i>Nellica maderaspatensis</i>	0.3	0.1	
<i>Paspalidium rarum</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.5	0.1	
<i>Pluchea dentex</i>	0.15	0.1	
<i>Pluchea rubelliflora</i>	0.1	0.1	
<i>Senna notabilis</i>	0.15	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Stemodia viscosa</i>	0.3	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	1	
<i>Tephrosia</i> sp. B Kimberley Flora (C.A. Gardner 7300)	1.6	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.01	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.4	1	

FLORA SITE SHEET

Site: NSR25
Project Name: Turner River
Location: -21.12691 **Lat** 118.74706 **Long**
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: Calcrete, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Orange, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia colei* var. *colei*, *A. trachycarpa*, and *A. ampliceps*
 tall isolated shrubs over mixed low open shrubland over *Triodia epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:**
Fire Age: >10 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2	0.1	
<i>Acacia ampliceps</i>	2.7	0.5	
<i>Acacia ampliceps x bivenosa</i>	2.2	0.1	Other (unusual species
<i>Acacia ancistrocarpa</i>	1.6	0.1	restricted subspecies
<i>Acacia ancistrocarpa x trachycarpa</i>	0.9	0.1	varieties or hybrid)
<i>Acacia bivenosa</i>	1.2	0.1	
<i>Acacia colei</i> var. <i>colei</i>	3.5	0.5	Other (unusual species
<i>Acacia stellaticeps</i>	0.6	0.1	restricted subspecies
<i>Acacia trachycarpa</i>	3	1	varieties or hybrid)
<i>Adriana tomentosa</i> var. <i>tomentosa</i>	0.7	0.1	
<i>Afrohybanthus aurantiacus</i>	0.5	0.5	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cajanus pubescens</i>	0.9	0.1	
<i>Carissa lanceolata</i>	3	0.1	
<i>Cassylia capillaris</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.4	0.1	
<i>Corymbia hamersleyana</i>	4	0.5	
<i>Cymbopogon ambiguus</i>	0.6	0.1	
<i>Eriachne flaccida</i>	0.5	0.1	
<i>Eulalia aurea</i>	0.5	0.1	
<i>Euphorbia trigonosperma</i>	0.3	0.1	
<i>Euploca pachyphylla</i>	0.4	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5	
<i>Hakea lorea</i> subsp. <i>lorea</i>	2	0.5	
<i>Nelica maderaspatensis</i>	0.8	0.1	
<i>Petalostylis labicheoides</i>	2	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.5	0.1	
<i>Polymeria ambigua</i>	0.15	0.1	
<i>Santalum lanceolatum</i>	2.4	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Stemodia grossa</i>	0.6	0.1	
<i>Triodia epactia</i>	0.3	15	

FLORA SITE SHEET

Site: NSQ26
Project Name: Turner River
Location: -21.15932 Lat 118.84904 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: QUADRAT 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low open woodland over *Acacia pyrifolia* (*A. trachycarpa*, *Grevillea wickhamii*, *A. tumida* var. *pilbarensis*) tall open shrubland over mixed low shrubs over *Themeda triandra* (*Heteropogon contortus*) low tussock grassland over *Triodia epa*
Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.2	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	9	
<i>Acacia trachycarpa</i>	4	0.5	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.8	1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Cajanus pubescens</i>	1.5	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
* <i>Cenchrus ciliaris</i>	0.3	5	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	1.2	1	
<i>Corymbia hamersleyana</i>	6	5	
<i>Dampiera candidans</i>	0.5	0.1	
<i>Enneapogon robustissimus</i>	0.3	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.2	0.1	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.1	0.1	
<i>Ficus aculeata</i> var. <i>indecora</i>	2	0.1	
<i>Gossypium australe</i>	0.4	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1	
<i>Heteropogon contortus</i>	0.6	1	
<i>Indigofera monophylla</i>	1	1	
<i>Isotropis atropurpurea</i>	1.2	0.1	
<i>Melhania oblongifolia</i>	0.3	0.1	
<i>Nellica maderaspatensis</i>	0.1	0.1	
<i>Pluchea tetranthera</i>	0.4	0.1	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Santalum lanceolatum</i>	1.5	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1.2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	1.4	1	
<i>Tephrosia</i> sp. <i>B Kimberley Flora</i> (C.A. Gardner 7300)	0.2	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.4	0.1	
<i>Themeda triandra</i>	0.7	50	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.2	0.1	
<i>Triodia brizoides</i>	1	0.1	
<i>Triodia epactia</i>	0.3	18	

FLORA SITE SHEET

Site: NSQ27
Project Name: Turner River
Location: -21.12957 Lat 118.74845 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: Northwest
Rock Type: Calcrete, Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii*, *Acacia inaequilatera* and *A. bivenosa* tall isolated shrubs over *Triodia wiseana* and *T. longiceps* low hummock grassland

Condition: Very Good **Disturbance Type:** Litter, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.5	0.1	
<i>Acacia bivenosa</i>	1.7	0.5	
<i>Acacia colei</i> var. <i>colei</i>	1.2	0.1	
<i>Acacia inaequilatera</i>	2.1	1	
<i>Afrohybanthus aurantiacus</i>	0.4	0.1	
<i>Bonamia alatisemina</i>	0.15	0.1	
<i>Bonamia erecta</i>	0.25	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassytha capillaris</i>	0.2	0.5	
<i>Codonocarpus cotinifolius</i>	0.4	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	2	0.5	
<i>Eragrostis eriopoda</i>	0.3	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.6	0.1	
<i>Euploca pachyphylla</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.8	1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.25	0.1	
<i>Petalostylis labicheoides</i>	1.2	0.1	
<i>Pluchea ferdinandi-muelleri</i>	1	0.1	
<i>Portulaca conspicua</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Ptilotus</i> sp.	0.05	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Triodia epactia</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSQ28
Project Name: Turner River
Location: -21.12668 Lat 118.77300 Long
Described by: [REDACTED]
Date: 22-06-2022
Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: East
Rock Type: Quartz
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia* (*A. inaequilatera*, *A. bivenosa*) mid to tall isolated shrubs over *Triodia wiseana* low open hummock grassland

Condition: Very Good **Disturbance Type:**
Fire Age: > 5 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Pilbara</i> (W.R. Barker 2025)	0.1	0.1	
<i>Acacia acradenia</i>	1.9	5	
<i>Acacia bivenosa</i>	3	1	
<i>Acacia inaequilatera</i>	4	1	
<i>Afrohybanthus aurantiacus</i>	0.4	0.5	
<i>Bonamia erecta</i>	0.2	0.5	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
<i>Corchorus</i> sp.	0.4	0.1	
<i>Corymbia hamersleyana</i>	1.1	0.1	
<i>Cynodon prostratus</i>	0.05	0.1	
<i>Dysphania</i> sp.	0.05	0.1	
<i>Goodenia muelleriana</i>	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	0.5	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	0.8	0.1	
<i>Pluchea tetranthera</i>	0.5	0.1	
<i>Pterocaulon</i> sp.	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.9	0.1	
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	0.7	0.1	
<i>Senna glutinosa</i> subsp. <i>xluerssenii</i>	1	0.1	
<i>Senna symonii</i>	0.3	0.1	
<i>Sporobolus australasicus</i>	0.03	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.4	0.1	
<i>Triodia epactia</i>	0.5	0.1	

FLORA SITE SHEET

Site: NSR29
Project Name: Turner River
Location: -21.12827 Lat 118.75850 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Northwest
Rock Type: Granite
Soil Type: Loam,Sand
Soil Colour: Light Brown,Orange



Vegetation: *Grevillea wickhamii* tall isolated shrubs over *Acacia orthocarpa* mid isolated shrubs over *Triodia epactia* (*T. lanigera*) low

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	1.5	0.1	
<i>Acacia orthocarpa</i>	1.8	1	
<i>Aristida hygrometrica</i>	0.4	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Boerhavia coccinea</i>	0.05	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Byblis pilbarana</i>	0.1	0.1	
<i>Cajanus pubescens</i>	1.5	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Eragrostis cumingii</i>	0.1	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euploca cunninghamii</i>	0.15	0.1	
<i>Euploca heterantha</i>	0.05	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.15	0.1	
<i>Fimbristylis dichotoma</i>	0.2	0.1	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Gossypium australe</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.5	
<i>Grona filiformis</i>	0.1	0.1	
<i>Indigofera colutea</i>	0.05	0.1	
<i>Indigofera linifolia</i>	0.15	0.1	
<i>Mitrasacme connata</i>	0.15	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Perotis rara</i>	0.05	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	0.1	
<i>Polycarpaea holtzei</i>	0.1	0.1	
<i>Portulaca digyna</i>	0.05	0.1	Other (Range Extension)
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Senna notabilis</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1	
<i>Trianthema pilosum</i>	0.05	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.6	10	
<i>Triodia lanigera</i>	0.25	0.5	

FLORA SITE SHEET

Site: NSQ30
Project Name: Turner River
Location: -21.13483 Lat 118.77041 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Acacia ancistrocarpa* (*A. inaequilatera*) mid to tall open shrubland over *Bonamia erecta* and *Indigofera monophylla* low isolated shrubs over *T. lanigera* low open hummock grassland

Condition: Excellent
Fire Age: 1-5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.5	8	
<i>Acacia inaequilatera</i>	2.2	1	
<i>Acacia sphaerostachya</i>	1.2	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.3	1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Corchorus</i> sp.	0.5	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.3	0.1	
<i>Indigofera monophylla</i>	0.3	1	
<i>Petalostylis labicheoides</i>	3	0.1	
<i>Portulaca oleracea</i>	0.03	0.1	
<i>Ptilotus astrolasius</i>	0.15	0.1	
<i>Triodia lanigera</i>	0.3	15	

FLORA SITE SHEET

Site: NSQ31
Project Name: Turner River
Location: -21.14005 Lat 118.75718 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Loam,Sand
Soil Colour: Light Brown,Orange



Vegetation: *Pluchea ferdinandi-muelleri* low isolated shrubs over *Triodia longiceps* and *T. epactia* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bulbostylis barbata</i>	0.01	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Eriachne obtusa</i>	0.15	0.1	
<i>Fimbristylis</i> sp.	0.01	0.1	
<i>Heliotropium crispatum</i>	0.05	0.1	
<i>Paspalidium</i> sp.	0.05	0.1	
<i>Pluchea ferdinandi-muelleri</i>	1	0.5	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	10	

FLORA SITE SHEET

Site: NSR32
Project Name: Turner River
Location: -21.13927 Lat 118.76732 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Pluchea ferdinandi-muelleri* low isolated shrubs over *Triodia longiceps* and *T. epactia* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia bivenosa</i>	1.1	0.1	
<i>Acacia stellaticeps</i>	0.6	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.5	1	
<i>Trianthema triquetrum</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	15	

FLORA SITE SHEET

Site: NSR33
Project Name: Turner River
Location: -21.24996 **Lat** 118.81254 **Long**
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: South
Rock Type: Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Light Brown, Orange



Vegetation: *Triodia lanigera* low open shrubland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia bivenosa</i>	1.8	0.1	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Aristida</i> sp.	0.05	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Calandrinia</i> sp.	0.03	0.1	
<i>Corchorus parviflorus</i>	0.1	0.1	
<i>Cullen stipulaceum</i>	0.5	0.1	
<i>Eriachne aristidea</i>	0.1	0.1	
<i>Eriachne obtusa</i>	0.1	0.1	
<i>Euphorbia trigonosperma</i>	0.05	0.1	
<i>Euploca tenuifolia</i>	0.05	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.3	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Sporobolus actinocladus</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Triodia lanigera</i>	0.5	20	

FLORA SITE SHEET

Site: NSR34
Project Name: Turner River
Location: -21.13801 Lat 118.77952 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Acacia inaequilatera*, *Grevillea wickhamii*, *Petalostylis labicheoides* tall isolated shrubs over *Acacia ancistrocarpa* mid open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	5	
<i>Acacia inaequilatera</i>	3.5	1	
<i>Acacia maitlandii</i>	0.7	0.5	
<i>Afrohybanthus aurantiacus</i>	0.6	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.3	0.5	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Corchorus</i> sp.	0.6	0.1	
<i>Fimbristylis dichotoma</i>	0.3	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.5	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Petalostylis labicheoides</i>	2.1	1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.05	0.1	
<i>Triodia epactia</i>	0.5	0.1	
<i>Triodia lanigera</i>	0.4	20	

FLORA SITE SHEET

Site: NSR35
Project Name: Turner River
Location: -21.24248 Lat 118.80568 Long
Described by: [REDACTED]
Date: 27-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Light Brown



Vegetation: *Acacia orthocarpa* mid to tall open shrubland over *Triodia lanigera* and *Triodia epactia* low open hummock grassland

Condition: Very Good **Disturbance Type:** Vehicle tracks
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	0.3	0.1	
<i>Acacia orthocarpa</i>	2	3	
<i>Acacia stellaticeps</i>	0.4	0.5	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Corchorus</i> sp.	0.5	0.5	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Eriachne obtusa</i>	0.2	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euploca tenuifolia</i>	0.2	0.1	
<i>Fimbristylis dichotoma</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.1	0.1	
<i>Pluchea tetranthera</i>	0.2	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.2	0.1	
<i>Triodia epactia</i>	0.3	10	
<i>Triodia lanigera</i>	0.3	11	

FLORA SITE SHEET

Site: NSQ36
Project Name: Turner River
Location: -21.13712 Lat 118.78221 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Acacia orthocarpa* tall open shrubland over *A. maitlandii* low isolated shrubs over *Triodia epactia* and *T. lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	0.1	
<i>Acacia maitlandii</i>	1.1	1	
<i>Acacia orthocarpa</i>	3.5	8	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.15	0.1	
<i>Bonamia alatisemina</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Corchorus</i> sp.	0.5	0.1	
<i>Dysphania</i> sp.	0.05	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.01	0.1	
<i>Euphorbia boophthona</i>	0.05	0.1	
<i>Euploca cunninghamii</i>	0.1	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.03	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.4	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.05	0.1	
<i>Portulaca oleracea</i>	0.02	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Sida cardiophylla</i>	0.15	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1	
<i>Triodia epactia</i>	0.4	8	
<i>Triodia lanigera</i>	0.4	8	

FLORA SITE SHEET

Site: NSR37
Project Name: Turner River
Location: -21.14610 Lat 118.78469 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Sand
Soil Colour: Beige, Light Brown, Orange



Vegetation: *Acacia stellaticeps* (*A. maitlandii*) low open shrubland over *Triodia epactia* (*T. lanigera*) low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	2	0.5	
<i>Acacia stellaticeps</i>	1	20	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1	
<i>Calandrinia</i> sp.	0.03	0.1	
<i>Eriachne obtusa</i>	0.2	0.1	
<i>Fimbristylis dichotoma</i>	0.05	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.2	0.1	
<i>Pluchea tetranthera</i>	0.25	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Triodia epactia</i>	0.5	25	

FLORA SITE SHEET

Site: NSQ38
Project Name: Turner River
Location: -21.13400 Lat 118.78031 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Acacia inaequilatera* tall isolated shrubs over *Acacia stellaticeps* low open shrubland over *Triodia epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	2.1	0.1	
<i>Acacia maitlandii</i>	1.2	0.5	
<i>Acacia stellaticeps</i>	0.5	5	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus</i> sp.	0.5	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.12	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Pluchea tetranthera</i>	0.5	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.5	31	

FLORA SITE SHEET

Site: NSR39
Project Name: Turner River
Location: -21.14764 Lat 118.78417 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: East
Rock Type: N/A
Soil Type: Loam,Sand
Soil Colour: Light Brown



Vegetation: *Corymbia deserticola* low isolated trees over *Hakea lorea* subsp. *lorea* tall isolated shrubs over *Acacia maitlandii* and *A. stellaticeps* mid isolated shrubs over *Triodia lanigera* (*T. epactia*) low hummock grassland
Condition: Very Good **Disturbance Type:** Weeds,Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	1.9	1	
<i>Acacia stellaticeps</i>	1	1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
* <i>Cenchrus ciliaris</i>	0.5	0.1	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.6	0.1	
<i>Corymbia deserticola</i> subsp. <i>deserticola</i>	3.5	1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	2.2	1	
<i>Indigofera linifolia</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.3	0.1	
<i>Tinospora smilacina</i>	2	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Triodia epactia</i>	0.5	0.5	

FLORA SITE SHEET

Site: NSR40
Project Name: Turner River
Location: -21.16447 Lat 118.77209 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia orthocarpa* and *Grevillea wickhamii* tall isolated shrubs over *A. ancistrocarpa* mid isolated shrubs over *Triodia lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	1	
<i>Acacia orthocarpa</i>	2.5	0.5	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Bonamia linearis</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.01	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Dampiera candidans</i>	0.4	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.6	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.2	1	
<i>Petalostylis labicheoides</i>	0.3	0.1	
<i>Pluchea tetranthera</i>	0.4	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.01	0.1	
<i>Portulaca oleracea</i>	0.01	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSR41
Project Name: Turner River
Location: -21.15008 Lat 118.78233 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVE 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown



Vegetation: *Acacia inaequilatera* mid isolated shrubs over *Triodia wiseana* low hummock grassland

Condition: Excellent
Fire Age: >10 years
Disturbance Type: Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	1.8	0.5	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Triodia wiseana</i>	0.5	25	

FLORA SITE SHEET

Site: NSR42
Project Name: Turner River
Location: -21.16118 Lat 118.76702 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Pluchea ferdinandi-muelleri* and *Acacia stellaticeps* low sparse shrubland over *Triodia longiceps* and *T. epactia* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia stellaticeps</i>	0.5	1	
<i>Aristida hygrometrica</i>	0.05	0.1	
<i>Arivela viscosa</i>	0.05	0.1	
<i>Bonamia alatisemina</i>	0.01	0.1	
<i>Bonamia erecta</i>	0.15	0.1	
<i>Bulbostylis barbata</i>	0.01	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Dysphania</i> sp.	0.02	0.1	
<i>Eriachne obtusa</i>	0.1	0.1	
<i>Euploca tenuifolia</i>	0.05	0.1	
<i>Fimbristylis</i> sp.	0.1	0.1	
<i>Gossypium australe</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.6	3	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.01	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Stemodia grossa</i>	0.3	0.1	
<i>Triodia epactia</i>	0.4	10	
<i>Triodia longiceps</i>	0.5	10	

FLORA SITE SHEET

Site: NSQ43
Project Name: Turner River
Location: -21.15070 Lat 118.77124 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Light Brown



Vegetation: *Grevillea wickhamii* tall open shrubland over *Acacia orthocarpa* and *A. ancistrocarpa* mid open shrubland over *Triodia lanigera* low hummock grassland

Condition: Good **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.5	1	
<i>Acacia ancistrocarpa x orthocarpa</i>	2.6	0.1	Other (unusual species restricted subspecies varieties or hybrid)
<i>Acacia orthocarpa</i>	2	1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Cassylia capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.4	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	5	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1	0.1	
<i>Ptilotus calostachyus</i>	1	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.6	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.5	25	

FLORA SITE SHEET

Site: NSR44
Project Name: Turner River
Location: -21.15906 **Lat** 118.75847 **Long**
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* tall isolated shrubs over *Acacia acradenia* mid open shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:**
Fire Age: 1-5 years None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.9	5	
<i>Acacia ancistrocarpa</i>	1.5	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	4	0.1	
<i>Dysphania</i> sp.	0.02	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.01	0.1	
<i>Gossypium australe</i>	0.2	1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	2	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	1.2	0.1	
<i>Streptoglossa</i> sp.	0.05	0.1	
<i>Tinospora smilacina</i>	0.2	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triodia lanigera</i>	0.3	25	

FLORA SITE SHEET

Site: NSQ45
Project Name: Turner River
Location: -21.22643 Lat 118.83165 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Eucalyptus camaldulensis* and *E. victrix* (*Melaleuca argentea*) tall open woodland over *Acacia coriacea* subsp. *pendens*, *A. trachycarpa*, and *Atalaya hemiglauc* tall open shrubland over *Triodia epactia* and *T. longiceps* low open hummock grassland over *Cenchrus*

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ampliceps</i>	2.7	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	6	3	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.5	0.1	
<i>Acacia trachycarpa</i>	4	5	
* <i>Aerva javanica</i>	0.6	0.1	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Arvela viscosa</i>	0.2	0.1	
<i>Atalaya hemiglauc</i>	6	0.5	
<i>Boerhavia burbridgeana</i>	0.02	0.1	
<i>Bonamia alatisemina</i>	0.05	0.1	
* <i>Cenchrus ciliaris</i>	0.2	15	
<i>Corchorus incanus</i> subsp. <i>incanus</i>	0.8	0.1	
<i>Corchorus parviflorus</i>	1.1	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1.9	0.1	
<i>Cucumis variabilis</i>	0.001	20	
<i>Cymbopogon ambiguus</i>	0.3	0.1	
<i>Cyperus vaginatus</i>	0.9	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	15	10	
<i>Eucalyptus victrix</i>	9	3	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia trigonosperma</i>	0.05	0.1	
<i>Euploca tanythrix</i>	0.2	0.1	
* <i>Flaveria trinervia</i>	0.1	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.3	0.1	
<i>Indigofera linifolia</i>	0.1	0.1	
<i>Indigofera monophylla</i>	1.2	0.1	
<i>Melaleuca argentea</i>	8	3	
<i>Melaleuca glomerata</i>	3.5	3	
<i>Nelica maderaspatensis</i>	0.15	0.1	
<i>Paspalidium clementii</i>	0.15	0.1	
<i>Polymeria ambigua</i>	0.05	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Stemodia grossa</i>	0.15	0.1	
<i>Triodia longiceps</i>	0.5	5	
<i>Triumfetta ramosa</i>	0.6	0.1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.05	0.1	

FLORA SITE SHEET

Site: NSR46
Project Name: Turner River
Location: -21.25452 **Lat** 118.81715 **Long**
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Acacia stellaticeps* (*Pluchea ferdinandi-muelleri*) low open shrubland over *Triodia epactia* and *T. lanigera* low hummock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2.2	0.1	
<i>Acacia stellaticeps</i>	0.6	7	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Corchorus</i> sp.	0.6	0.1	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Eriachne ciliata</i>	0.15	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.15	0.1	
<i>Fimbristylis dichotoma</i>	0.05	1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.5	0.5	
<i>Stemodia grossa</i>	0.5	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1	
<i>Triodia epactia</i>	0.4	2	
<i>Triodia lanigera</i>	0.5	1	
<i>Triodia longiceps</i>	0.5	35	

FLORA SITE SHEET

Site:	NSQ47			
Project Name	Turner River			
Location	-21.20505	Lat	118.83008	Long
Described by:	[REDACTED]			
Date:	21-06-2022			

Type:	QUADRAT	50 x 50 m
Landform:	Hills	
Slope:	East	
Rock Type:	Calcrete, Ironstone, Quartz	
Soil Type:	Clay, Loam	
Soil Colour:	Brown, Red	



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia*, *Grevillea wickhamii*, and *A. ancistrocarpa* tall isolated shrubs over *Triodia chichesterensis*, and *T. wiseana* low hummock grassland

Condition:	Good	Disturbance Type:	None
Fire Age:	Unknown		

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.1	2	
<i>Acacia ancistrocarpa</i>	2.5	1	
<i>Acacia bivenosa</i>	0.3	1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.3	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
<i>Codonocarpus cotinifolius</i>	0.4	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	4	1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Goodenia muelleriana</i>	0.15	0.1	
<i>Goodenia triodiophila</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	1	
<i>Petalostylis labicheoides</i>	1.6	0.5	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.2	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.5	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.3	0.1	
<i>Triodia chichesterensis</i>	0.2	35	Priority 3 (DBCA)
<i>Triodia wiseana</i>	0.4	7	

FLORA SITE SHEET

Site: NSR48
Project Name: Turner River
Location: -21.25393 Lat 118.81569 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Acacia eriopoda*, *A. tumida* var. *pilbarensis* (*Flueggea virosa* subsp. *melanthesoides*) tall open shrubland over *Triumfetta ramosa* (*Grevillea pyramidalis*) mid isolated shrubs over *Heteropogon contortus*, and *Themeda triandra* low tussock grassland

Condition: Poor **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia coleii</i> var. <i>colei</i>	4	3	
<i>Acacia eriopoda</i>	4.5	3	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Alternanthera nana</i>	0.2	0.1	
<i>Aristida hygrometrica</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.5	0.1	
<i>Boerhavia coccinea</i>	0.02	0.1	
<i>Boerhavia repleta</i>	0.15	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Cajanus pubescens</i>	1.1	0.1	
<i>Calandrinia</i> sp.	0.03	0.1	
* <i>Cenchrus ciliaris</i>	0.2	10	
<i>Cheilanthes sieberi</i> subsp. <i>Sieberi</i>	0.2	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	3.5	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.7	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Eragrostis cumingii</i>	0.1	0.1	
<i>Eriachne ciliata</i>	0.3	0.1	
<i>Eulalia aurea</i>	0.8	0.5	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.3	0.1	
<i>Euphorbia trigonosperma</i>	0.2	0.1	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.15	0.1	
<i>Fimbristylis dichotoma</i>	0.2	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.8	1	
<i>Goodenia lamprosperma</i>	0.15	0.1	
<i>Gossypium australe</i>	0.9	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.8	0.5	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1	
<i>Heteropogon contortus</i>	0.3	30	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	1.5	0.1	
<i>Indigofera colutea</i>	0.01	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Peripleura virgata</i>	0.4	0.1	
<i>Perotis rara</i>	0.04	0.1	
<i>Pluchea dentex</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1	
<i>Pterocaulon sphacelatum</i>	0.1	0.1	
<i>Ptilotus fusiformis</i>	0.3	0.1	
<i>Rhynchosia minima</i>	0.4	0.1	
<i>Senna venusta</i>	2.2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.6	0.1	
<i>Themeda triandra</i>	0.8	4	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Tribulus macrocarpus</i>	0.02	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triumfetta ramosa</i>	1.8	3	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.3	0.1	
<i>Waltheria indica</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSR49
Project Name: Turner River
Location: -21.19910 Lat 118.83057 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over mixed mosaic tall shrubland over *Triodia epactia* low open hummock grassland

Condition: Good **Disturbance Type:** None
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	3	3	
<i>Acacia ampliceps x bivenosa</i>	0.2	0.1	Other (unusual species restricted subspecies varieties or hybrid)
<i>Acacia ancistrocarpa</i>	0.3	1	
<i>Acacia bivenosa</i>	2	0.1	
<i>Acacia coriacea subsp. pendens</i>	1.8	0.1	
<i>Acacia inaequilatera</i>	3	2	
<i>Acacia trachycarpa</i>	1	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Cajanus pubescens</i>	1.3	0.1	
<i>Cenchrus ciliaris</i>	0.3	5	
<i>Chrysopogon fallax</i>	0.2	0.1	
<i>*Corchorus lasiocarpus subsp. parvus</i>	0.5	1	
<i>Corymbia hamersleyana</i>	6	5	
<i>Euphorbia australis var. subtomentosa</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Evolvulus alsinoides var. villosicalyx</i>	0.1	0.1	
<i>Goodenia forrestii</i>	0.2	0.1	
<i>Goodenia lamprosperma</i>	0.3	0.1	
<i>Gossypium australe</i>	1.6	0.1	
<i>Grevillea pyramidalis subsp. leucadendron</i>	1.6	0.1	
<i>Hakea lorea subsp. lorea</i>	1.1	0.1	
<i>Hibiscus sturtii var. platyphlamys</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Nellica maderaspatensis</i>	0.4	0.1	
<i>Neptunia longipila</i>	0.02	0.1	
<i>Petalostylis labicheoides</i>	2.1	1	
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1	Priority 2 (DBCA)
<i>Pluchea tetranthera</i>	0.5	0.1	
<i>Polymeria ambigua</i>	0.1	0.5	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Senna artemisioides subsp. helmsii</i>	1.8	0.1	
<i>Senna notabilis</i>	0.3	0.1	
<i>Sida clementii</i>	0.5	0.1	
<i>Sida fibulifera</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.3	0.1	
<i>Solanum phlomoides</i>	0.2	0.1	
<i>Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)</i>	0.2	0.1	
<i>Themeda triandra</i>	0.6	0.1	
<i>Triodia epactia</i>	0.4	0.1	
<i>Triodia wiseana</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSR50
Project Name: Turner River
Location: -21.25700 Lat 118.81908 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Light Brown



Vegetation: *Eucalyptus vicrix*, and *Melaleuca argentea* low isolated trees over *Acacia coriacea* subsp. *pendens*, and *A. trachycarpa* tall open shrubland over mixed mid tussock grassland over *Triodia epactia* low open hummock grassland

Condition: Poor

Disturbance Type:

Fire Age: Unknown

Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia colei</i> var. <i>colei</i>	3	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	4	1	
<i>Acacia trachycarpa</i>	3	5	
<i>Afrohybanthus aurantiacus</i>	0.4	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
* <i>Bidens bipinnata</i>	0.1	0.1	
<i>Calandrinia tepperiana</i>	0.08	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
* <i>Cenchrus ciliaris</i>	0.3	2	
<i>Chrysopogon fallax</i>	0.4	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.3	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.9	0.1	
<i>Cyperus ixiocarpus</i>	0.7	0.1	
<i>Cyperus vaginatus</i>	0.3	0.1	
<i>Eriachne benthamii</i>	0.5	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Eucalyptus victrix</i>	5	0.5	
<i>Eulalia aurea</i>	0.6	1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.3	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.2	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	3	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Gymnanthera cunninghamii</i>	1	0.1	Priority 3 (DBCA)
<i>Heteropogon contortus</i>	0.6	2	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Isotropis atropurpurea</i>	0.5	0.1	
<i>Melaleuca argentea</i>	5	0.5	
<i>Microstachys chamaelea</i>	0.4	0.1	
<i>Pluchea dentex</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.7	0.1	
<i>Pluchea rubelliflora</i>	0.2	0.1	
<i>Ptilotus fusiformis</i>	0.4	0.1	
<i>Santalum lanceolatum</i>	1	0.1	
<i>Senna venusta</i>	1	0.1	
<i>Stemodia viscosa</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Tribulus platypterus</i>	0.5	0.1	
<i>Triodia epactia</i>	0.5	0.1	
<i>Triodia lanigera</i>	0.4	1	
<i>Triumfetta ramosa</i>	0.6	0.1	
<i>Waltheria indica</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSR51
Project Name: Turner River
Location: -21.23719 Lat 118.82749 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia trachycarpa* tall closed shrubland over *Hibiscus austrinus* var. *austrinus* mid isolated shrubland over *Cenchrus ciliaris* tall closed tussock grassland

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon amplum</i>	1.7	0.1	
<i>Abutilon otocarpum</i>	0.3	0.1	
<i>Acacia colei</i> var. <i>colei</i>	3	0.1	
<i>Acacia trachycarpa</i>	3.5	31	
<i>Afrohybanthus aurantiacus</i>	0.15	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Boerhavia repleta</i>	0.1	0.1	
<i>Bonamia pannosa</i>	0.05	0.1	
* <i>Calotropis procera</i>	2.5	0.1	
* <i>Cenchrus ciliaris</i>	0.25	71	
* <i>Cenchrus setiger</i>	0.3	2	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	7	3	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.1	0.1	
<i>Gossypium australe</i>	1.8	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	3	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.5	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.8	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.4	0.1	
<i>Ipomoea polymorpha</i>	0.1	0.1	
<i>Melhania oblongifolia</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.1	
<i>Sida clementii</i>	0.3	0.1	
<i>Sida fibulifera</i>	0.15	0.1	
<i>Solanum chippendalei</i>	0.4	0.1	
<i>Solanum diversiflorum</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.15	0.1	
<i>Trianthema pilosum</i>	0.05	0.1	
<i>Tribulopsis angustifolia</i>	0.05	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.15	0.1	

FLORA SITE SHEET

Site: NSQ52
Project Name: Turner River
Location: -21.23834 Lat 118.82717 Long
Described by: [REDACTED]
Date: 21-06-2022
Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Granite
Soil Type: Clay,Sand
Soil Colour: Light Brown



Vegetation: *Melaleuca argentea*, *Eucalyptus victrix*, and *Acacia coriacea* subsp. *pendens* low isolated trees over *A. trachycarpa* tall isolated shrubs over *Triodia epactia* (*T. angusta*) low isolated hummocks

Condition: Excellent **Disturbance Type:**
Fire Age: Unknown Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia colei</i> var. <i>colei</i>	2.2	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	6	1	
<i>Acacia trachycarpa</i>	4	3	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
* <i>Cenchrus ciliaris</i>	0.5	1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	0.8	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1.5	0.1	
<i>Cucumis variabilis</i>	0.4	0.1	
<i>Cyperus ixiocarpus</i>	0.6	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Eriachne obtusa</i>	0.4	0.1	
<i>Eucalyptus victrix</i>	5	2	
<i>Eulalia aurea</i>	0.5	1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	4	0.5	
<i>Gossypium australe</i>	0.5	0.1	
<i>Heteropogon contortus</i>	0.8	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.4	0.1	
<i>Ipomoea muelleri</i>	0.1	0.1	
<i>Melaleuca argentea</i>	9	4	
<i>Melhanian oblongifolia</i>	0.3	0.1	
<i>Paspalidium rarum</i>	0.15	0.1	
<i>Peripleura virgata</i>	0.4	0.1	
<i>Pterocaulon sphacelatum</i>	0.2	0.1	
<i>Ptilotus fusiformis</i>	0.4	0.1	
<i>Tinospora smilacina</i>	0.3	0.1	
<i>Triodia angusta</i>	0.8	0.1	
<i>Triodia epactia</i>	0.4	0.1	
<i>Triumfetta ramosa</i>	1.2	0.1	

FLORA SITE SHEET

Site: NSQ53
Project Name: Turner River
Location: -21.14808 **Lat** 118.76156 **Long**
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Calcrete, Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Pluchea ferdinand-muelleri* and *Acacia stellaticeps* low isolated shrubs over *Triodia epactia* low hummock grassland

Condition: Excellent **Disturbance Type:** Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	1	0.1	
<i>Acacia stellaticeps</i>	0.8	0.5	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Calandrinia</i> sp.	0.03	0.1	
<i>Eriachne obtusa</i>	0.2	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.9	0.5	
<i>Portulaca oleracea</i>	0.04	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Stemodia</i> sp.	0.03	0.5	
<i>Triodia epactia</i>	0.4	20	
<i>Triodia longiceps</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSQ54
Project Name: Turner River
Location: -21.23751 Lat 118.83277 Long
Described by: [REDACTED]
Date: 21-03-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia inaequilatera* tall isolated shrubs over *A. ancistrocarpa*, *A. acradenia* (*Grevillea wickhamii*, *Petalostylis labicheoides*) mid open shrubland over *Triodia lanigera* and *T. wiseana* low hummock grassland
Condition: Very Good **Disturbance Type:** None
Fire Age: > 5 years

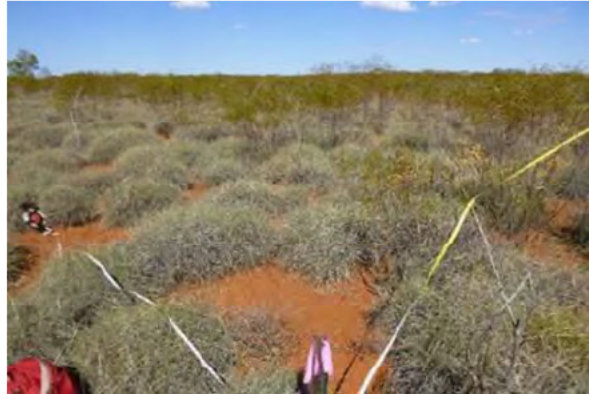
SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.8	2	
<i>Acacia ancistrocarpa</i>	2.2	2	
<i>Acacia inaequilatera</i>	0.8	0.1	
<i>Acacia stellaticeps</i>	0.4	0.1	
<i>Bonamia pilbarensis</i>	0.02	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Petalostylis labicheoides</i>	1.1	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Tephrosia clementii</i>	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.3	35	
<i>Triodia wiseana</i>	0.5	5	

FLORA SITE SHEET

Site: NSQ55
Project Name: Turner River
Location: -21.13284 Lat 118.74986 Long
Described by: [REDACTED]
Date: 22-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia candida* low isolated trees over *Acacia ancistrocarpa* mid shrubland over *Triodia lanigera* and *T. epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.8	35	
<i>Acacia bivenosa</i>	1.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Corymbia candida</i>	5	0.5	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Isotropis atropurpurea</i>	0.4	0.1	
<i>Ptilotus astrolasius</i>	0.5	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	1	
<i>Triodia lanigera</i>	0.4	25	

FLORA SITE SHEET

Site: NSR56
Project Name: Turner River
Location: -21.23711 Lat 118.83720 Long
Described by: [REDACTED]
Date: 21-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Melaleuca argentea* (*Eucalyptus camaldulensis*, *E. victrix*) low woodland over *Acacia ampliceps*, *A. trachycarpa* tall open shrubland over *Eulalia aurea*, and *Cenchrus ciliaris* low open tussock grassland over *Cyperus ixocarpus* low isolated sedges

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: Unknown

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ampliceps</i>	3	1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	7	2	
<i>Acacia trachycarpa</i>	4	1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Atalaya hemiglauc</i>	1	0.1	
<i>Calandrinia</i> sp.	0.05	0.1	
<i>Calandrinia tepperiana</i>	0.1	0.1	
* <i>Calotropis procera</i>	0.5	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.5	
<i>Corchorus incanus</i> subsp. <i>incanus</i>	0.2	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.4	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1.8	0.1	
<i>Cyperus ixocarpus</i>	0.5	0.5	
<i>Cyperus vaginatus</i>	1.2	0.1	
<i>Dactyloctenium radulans</i>	0.1	0.1	
<i>Eragrostis cumingii</i>	0.3	0.1	
<i>Eriachne benthamii</i>	0.5	0.1	
<i>Eriachne tenuiculmis</i>	0.2	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	8	1	
<i>Eulalia aurea</i>	0.8	2	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia biconvexa</i>	0.3	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	2.5	0.1	
<i>Goodenia lamprosperma</i>	0.2	0.1	
<i>Gymnanthera cunninghamii</i>	1.2	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.3	0.1	
<i>Ipomoea muelleri</i>	0.05	0.1	
<i>Marsilea ?hirsuta</i>	0.1	0.1	
<i>Melaleuca argentea</i>	12	31	
<i>Melaleuca glomerata</i>	4	1	
<i>Melaleuca linophylla</i>	2.2	0.5	
<i>Pluchea rubelliflora</i>	0.2	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Senna notabilis</i>	0.3	0.1	
<i>Sesbania cannabina</i>	0.5	0.1	
<i>Stemodia grossa</i>	0.4	0.1	
<i>Triodia epactia</i>	0.8	0.1	
<i>Wahlenbergia tumidiflora</i>	0.3	0.1	

Priority 3 (DBCA)

FLORA SITE SHEET

Site: NSQ57
Project Name: Turner River
Location: -21.13655 Lat 118.76039 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Loam,Sand
Soil Colour: Brown,Red



Vegetation: *Triodia longiceps* (*T. secunda*) low hummock grassland)

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	1	0.1	
<i>Portulaca conspicua</i>	0.05	0.1	
<i>Portulaca oleracea</i>	0.01	0.1	
<i>Portulaca</i> sp.	0.01	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Streptoglossa</i> sp.	0.05	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Triodia longiceps</i>	0.5	25	
<i>Triodia secunda</i>	0.3	1	

FLORA SITE SHEET

Site: NSR58
Project Name: Turner River
Location: -21.22776 Lat 118.84066 Long
Described by: [REDACTED]
Date: 28-06-2022

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Eucalyptus victrix* (*E. camaldulensis*) tall woodland over *Cyperus vaginatus* mid sedgeland over *Triodia longiceps* low isolated hummock grasses over *Cenchrus* spp. low tussock grassland

Condition: Poor **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ampliceps</i>	1.1	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	2	0.1	
<i>Acacia trachycarpa</i>	3	2	
* <i>Aerva javanica</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.4	0.1	
<i>Atalaya hemiglauc</i>	3	1	
* <i>Calotropis procera</i>	1	0.1	
* <i>Cenchrus ciliaris</i>	0.2	15	
* <i>Cenchrus setiger</i>	0.5	0.1	
<i>Cyperus vaginatus</i>	0.8	25	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Eragrostis leptocarpa</i>	0.5	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	8	3	
<i>Eucalyptus victrix</i>	11	50	
<i>Euphorbia trigonosperma</i>	0.15	0.1	
<i>Melaleuca glomerata</i>	3	1	
<i>Nellica maderaspatensis</i>	0.15	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Sida clementii</i>	0.8	0.1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Triodia longiceps</i>	0.4	2	

FLORA SITE SHEET

Site: NSR59
Project Name: Turner River
Location: -21.16256 Lat 118.83733 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low open woodland over *Acacia* spp. mixed low open shrubland over *Triodia epactia* low open hummock grassland

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	3	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	0.5	5	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.3	1	
* <i>Cenchrus ciliaris</i>	0.4	0.1	
<i>Chrysopogon fallax</i>	0.5	0.1	
<i>Corchorus parviflorus</i>	0.4	1	
<i>Corymbia hamersleyana</i>	6	3	
<i>Eulalia aurea</i>	0.5	0.1	
<i>Euphorbia trigonosperma</i>	0.3	0.1	
<i>Euploca mutica</i>	0.2	0.1	Priority 3 (DBCA)
<i>Gossypium australe</i>	0.1	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.8	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Isotropis atropurpurea</i>	0.1	0.1	
<i>Petalostylis labicheoides</i>	0.7	0.5	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Ptilotus axillaris</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Rhynchosia minima</i>	0.4	0.1	
<i>Scaevola spinescens</i>	0.5	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.4	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	1.5	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Sida arenicola</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1	
<i>Triodia epactia</i>	0.02	12	
<i>Triodia lanigera</i>	0.4	0.1	
<i>Triumfetta chaetocarpa</i>	0.15	0.1	

FLORA SITE SHEET

Site: NSR60
Project Name: Turner River
Location: -21.16533 Lat 118.77542 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Acacia tumida* var. *pilbarensis* tall shrubland over *Petalostylis labicheoides* (*Melaleuca glomerata*) mid open shrubland over *Triodia epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.6	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4.5	65	
<i>Afrohybanthus aurantiacus</i>	0.3	1	
<i>Aristida hygrometrica</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Codonocarpus cotinifolius</i>	0.6	0.1	
<i>Dodonaea coriacea</i>	0.4	0.1	
<i>Eriachne obtusa</i>	0.15	0.1	
<i>Goodenia stobbsiana</i>	0.05	0.1	
<i>Isotropis atropurpurea</i>	0.05	0.1	
<i>Melaleuca glomerata</i>	1.8	1	
<i>Petalostylis labicheoides</i>	1.9	5	
<i>Ptilotus calostachyus</i>	0.8	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1	
<i>Triodia epactia</i>	0.3	5	
<i>Triodia lanigera</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSR61
Project Name: Turner River
Location: -21.15695 Lat 118.77038 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Calcrete
Soil Type: Sand
Soil Colour: White



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* mid open shrubland over *Triodia wiseana* low hummock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	0.1	
<i>Acacia maitlandii</i>	1.6	0.1	
<i>Acacia stellaticeps</i>	0.6	0.1	
* <i>Aerva javanica</i>	0.4	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.25	0.1	
<i>Bonamia linearis</i>	0.1	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassytha capillaris</i>	0.005	30	
<i>Codonocarpus cotinifolius</i>	0.4	0.1	
<i>Corchorus parviflorus</i>	0.1	0.1	
<i>Corymbia hamersleyana</i>	3.5	0.5	
<i>Eragrostis leptocarpa</i>	0.2	0.1	
<i>Euploca pachyphylla</i>	0.1	0.1	
<i>Goodenia forrestii</i>	0.25	0.1	
<i>Gossypium australe</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.9	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.5	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.7	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.6	0.1	
<i>Ptilotus exaltatus</i>	0.08	0.1	
<i>Tinospora smilacina</i>	0.05	0.1	
<i>Triodia wiseana</i>	0.4	20	

FLORA SITE SHEET

Site: NSQ62
Project Name: Turner River
Location: -21.16451 Lat 118.78382 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: North
Rock Type: Granite, Quartz
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Acacia orthocarpa* tall shrubland over *A. maitlandii* low open shrubland over *Triodia lanigera* (*T. epactia*) low hummock grassland

Condition: Very Good **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	0.6	5	
<i>Acacia orthocarpa</i>	2.2	13	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bulbostylis barbata</i>	0.01	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Fimbristylis</i> sp.	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.4	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.01	0.1	
<i>Portulaca oleracea</i>	0.01	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.2	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.3	0.1	
<i>Triodia epactia</i>	0.3	5	
<i>Triodia lanigera</i>	0.3	20	

FLORA SITE SHEET

Site: NSQ63
Project Name: Turner River
Location: -21.20486 Lat 118.85518 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Dark Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* tall shrubland over *Triodia lanigera* (*T. epactia*) low hummock grassland

Condition: Excellent **Disturbance Type:**
Fire Age: >10 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.5	0.5	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	25	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.3	0.5	
<i>Bonamia linearis</i>	1.5	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	4	0.1	
<i>Dodonaea coriacea</i>	0.5	0.1	
<i>Eriachne mucronata</i>	0.1	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Isotropis atropurpurea</i>	0.5	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	2	0.5	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.6	0.1	
<i>Sida arenicola</i>	0.4	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.5	1	
<i>Triodia lanigera</i>	0.5	35	

FLORA SITE SHEET

Site: NSR64
Project Name: Turner River
Location: -21.16079 **Lat** 118.77710 **Long**
Described by: [REDACTED]
Date: 23-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite
Soil Type: Clay, Loam, Sand
Soil Colour: Brown



Vegetation: *Cajanus pubescens* mid isolated shrubs over *Indigofera monophylla* low isolated shrubs over *Triodia schinzii* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	0.8	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.4	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Cajanus pubescens</i>	1.6	2	
<i>Corchorus parviflorus</i>	0.7	0.1	
<i>Corymbia hamersleyana</i>	3	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Gossypium australe</i>	0.5	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	1	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.5	0.1	
<i>Indigofera monophylla</i>	0.4	1	
<i>Pluchea tetranthera</i>	0.5	0.1	
<i>Stemodia grossa</i>	0.5	0.1	
<i>Tinospora smilacina</i>	0.5	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.5	0.1	
<i>Triodia lanigera</i>	0.4	2	
<i>Triodia schinzii</i>	0.5	38	

FLORA SITE SHEET

Site: NSQ65
Project Name: Turner River
Location: -21.28000 **Lat** 118.84440 **Long**
Described by: [REDACTED]
Date: 24-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Beige, Brown



Vegetation: *Pluchea ferdinandi-muelleri* low isolated shrubs over *Triodia longiceps* (*T. secunda*) low hummock grassland

Condition: Very Good **Disturbance Type:**
Fire Age: >10 years Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Bergia pedicellaris</i>	0.15	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
* <i>Cenchrus ciliaris</i>	0.6	0.1	
* <i>Chloris pumilio</i>	0.2	0.1	
<i>Cyperus iria</i>	0.15	0.1	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Dactyloctenium radulans</i>	0.1	0.1	
<i>Eragrostis crateriformis</i>	0.2	0.1	Priority 3 (DBCA)
<i>Eragrostis dielsii</i>	0.1	0.1	
<i>Eragrostis leptocarpa</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.15	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.4	0.5	
<i>Sclerolaena hostilis</i>	0.3	0.5	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Stemodia</i> sp.	0.02	0.1	
<i>Trianthema triquetrum</i>	0.1	0.1	
<i>Triodia longiceps</i>	0.4	25	
<i>Triodia secunda</i>	0.2	2	

FLORA SITE SHEET

Site: NSQ66
Project Name: Turner River
Location: -21.16120 Lat 118.77100 Long
Described by: [REDACTED]
Date: 23-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: North
Rock Type: Ironstone, Quartz
Soil Type: Clay, Loam
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over Mixed tall isolated shrubland over *Triodia chichester* (*T. wiseana*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: Unknown

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.2	0.1	
<i>Acacia stellaticeps</i>	0.3	0.5	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Aristida hygrometrica</i>	0.2	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bonamia erecta</i>	0.4	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassytha capillaris</i>	0.2	0.1	
<i>Codonocarpus cotinifolius</i>	0.5	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	4	0.5	
<i>Eragrostis eriopoda</i>	0.2	0.1	
<i>Eriachne obtusa</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.2	0.1	
<i>Ptilotus astrolasius</i>	0.15	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Sida cardiophylla</i>	0.3	0.1	
<i>Tephrosia</i> sp.	0.05	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Tribulus hirsutus</i>	0.01	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia chichesterensis</i>	0.15	40	Priority 3 (DBCA)
<i>Triodia epactia</i>	0.5	0.1	
<i>Triodia lanigera</i>	0.5	0.1	
<i>Triodia wiseana</i>	0.4	5	

FLORA SITE SHEET

Site: NSR67
Project Name: Turner River
Location: -21.27768 Lat 118.83784 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: Burnt with sprouting herbs and fire regrowth

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.15	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Calandrinia</i> sp.	0.02	5	
<i>Corchorus parviflorus</i>	0.15	0.1	
<i>Eriachne ciliata</i>	0.25	0.1	
<i>Heliotropium crispatum</i>	0.15	0.5	
<i>Hibiscus leptocladus</i>	0.15	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.3	0.5	
<i>Pluchea tetranthera</i>	0.25	0.1	
<i>Senna notabilis</i>	0.15	0.5	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.2	0.1	
<i>Streptoglossa decurrens</i>	0.2	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.15	0.1	
<i>Trianthema pilosum</i>	0.05	0.1	
<i>Tribulus</i> sp.	0.02	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.45	0.5	

FLORA SITE SHEET

Site: NSR68
Project Name: Turner River
Location: -21.28470 Lat 118.84050 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Loam, Sand
Soil Colour: Light Brown



Vegetation: *Burnt, Triodia wiseana low open hummock grassland, with sprouting herbs*

Condition: Very Good **Disturbance Type:** None
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia bivenosa</i>	0.05	0.1	
<i>Afrohybanthus aurantiacus</i>	0.15	0.1	
<i>Aristida contorta</i>	0.15	0.1	
<i>Bonamia pilbarensis</i>	0.01	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Corchorus</i> sp.	0.05	0.1	
<i>Dysphania</i> sp.	0.01	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia clementii</i>	0.15	0.1	Priority 3 (DBCA)
<i>Euploca skeleton</i>	0.1	0.1	
<i>Euploca tenuifolia</i>	0.05	0.1	
<i>Goodenia muelleriana</i>	0.15	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.2	0.1	
<i>Heliotropium crispatum</i>	0.05	0.1	
<i>Hibiscus leptocladus</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.05	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.2	0.1	
<i>Polymeria ambigua</i>	0.01	0.1	
<i>Polymeria</i> sp. <i>stoloniferous</i>	0.01	0.1	Other (Anomalous features potentially new species)
<i>Portulaca conspicua</i>	0.01	0.1	
<i>Ptilotus axillaris</i>	0.05	0.1	
<i>Senna notabilis</i>	0.1	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.05	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.1	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Tribulus hirsutus</i>	0.01	0.1	
<i>Triodia wiseana</i>	0.1	5	
<i>Tripogonella loliiformis</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSR69
Project Name: Turner River
Location: -21.28040 Lat 118.83648 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Burnt, herbs and resprouting*

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia stellaticeps</i>	0.05	0.1	
<i>Arivela uncifera subsp. uncifera</i>	0.15	0.1	
<i>Bonamia erecta</i>	0.05	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia sp.</i>	0.02	0.1	
<i>Dampiera candidans</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Gossypium australe</i>	0.25	0.1	
<i>Hakea lorea subsp. lorea</i>	0.4	0.1	
<i>Hibiscus leptocladus</i>	0.3	0.1	
<i>Ptilotus fusiformis</i>	0.25	0.1	
<i>Senna notabilis</i>	0.1	1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Tephrosia sp. Bungaroo Creek (M.E. Trudgen 11601)</i>	0.2	0.1	
<i>Trianthema pilosum</i>	0.05	0.5	
<i>Triodia lanigera</i>	0.05	0.5	

FLORA SITE SHEET

Site: NSR70
Project Name: Turner River
Location: -21.28393 Lat 118.84215 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Quartz
Soil Type: Clay
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia longiceps* (*T. wiseana*) isolated hummocks

Condition: Excellent
Fire Age: 1-5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.3	0.1	
<i>Acacia bivenosa</i>	0.8	1	
<i>Acacia stellaticeps</i>	0.3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Cassytha capillaris</i>	0.5	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus parviflorus</i>	0.7	0.1	
<i>Corymbia hamersleyana</i>	6	1	
<i>Euphorbia clementii</i>	0.15	0.1	Priority 3 (DBCA)
<i>Heliotropium crispatum</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.1	
<i>Sclerolaena hostilis</i>	0.5	0.1	
<i>Senna glutinosa subsp. glutinosa</i>	1.5	0.1	
<i>Triodia longiceps</i>	0.4	35	
<i>Triodia wiseana</i>	0.3	3	

FLORA SITE SHEET

Site: NSR71
Project Name: Turner River
Location: -21.28039 Lat 118.83804 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: Burnt regrowing herbs and fire resprouting

Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	0.2	0.1	
<i>Acacia stellaticeps</i>	0.1	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.15	0.1	
<i>Arivela viscosa</i>	0.5	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Calandrinia stagnensis</i>	0.05	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	0.15	0.1	
<i>Corchorus parviflorus</i>	0.15	0.1	
<i>Cullen martinii</i>	0.3	0.1	
<i>Eriachne obtusa</i>	0.15	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Goodenia muelleriana</i>	0.25	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	2.5	0.1	
<i>Heliotropium crispatum</i>	0.25	0.5	
<i>Hibiscus leptocladus</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Paraneurachne muelleri</i>	0.05	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.3	0.1	
<i>Polymeria</i> sp. <i>stoloniferous</i>	0.1	0.1	Other (Anomalous features potentially new species)
<i>Ptilotus auriculifolius</i>	0.05	0.1	
<i>Ptilotus axillaris</i>	0.05	0.1	
<i>Senna notabilis</i>	0.1	0.5	
<i>Solanum chippendalei</i>	0.5	0.5	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.5	
<i>Tephrosia supina</i>	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Trianthema pilosum</i>	0.04	0.1	
<i>Tribulus hirsutus</i>	0.05	0.5	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia lanigera</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSR72
Project Name: Turner River
Location: -21.28548 Lat 118.84895 Long
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Light Brown



Vegetation: *Acacia trachycarpa* tall isolated shrubs over mixed mid isolated shrubs over *Triodia epactia* low isolated hummock grasses over scattered herbs

Condition: Very Good **Disturbance Type:**
Fire Age: Unknown Weeds, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia inaequilatera</i>	2	0.1	
<i>Acacia trachycarpa</i>	4	25	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.2	0.1	
<i>Corchorus laniflorus</i>	0.5	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	2	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	5	1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Microstachys chamaelea</i>	0.3	0.1	
<i>Peripleura virgata</i>	0.2	0.1	
<i>Ptilotus fusiformis</i>	0.3	0.1	
<i>Senna venusta</i>	3	0.1	
<i>Triodia epactia</i>	0.4	5	
<i>Triumfetta ramosa</i>	0.1	1	
<i>Waltheria indica</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSR73
Project Name: Turner River
Location: -21.28045 **Lat** 118.83938 **Long**
Described by: [REDACTED]
Date: 24-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Light Brown, Orange



Vegetation: Burnt, *Triodia longiceps* low isolated hummock grasses

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: <1year, 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Arivela viscosa</i>	0.3	0.1	
<i>Bulbostylis barbata</i>	0.15	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	0.2	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.25	0.1	
<i>Cynodon prostratus</i>	0.03	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Euphorbia clementii</i>	0.2	0.1	Priority 3 (DBCA)
<i>Euploca cunninghamii</i>	0.1	0.1	
<i>Heliotropium crispatum</i>	0.3	1	
<i>Hibiscus sturtii</i> var. <i>platyphlamys</i>	0.25	0.1	
<i>Nelica maderaspatensis</i>	0.2	0.1	
<i>Ptilotus axillaris</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.2	0.5	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.4	0.5	
<i>Senna notabilis</i>	0.3	0.5	
<i>Senna symonii</i>	0.3	0.1	
<i>Sida fibulifera</i>	0.25	0.5	
<i>Solanum chippendalei</i>	0.6	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Trianthema triquetrum</i>	0.1	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Triodia longiceps</i>	0.5	0.5	

FLORA SITE SHEET

Site: NSR74
Project Name: Turner River
Location: -21.29725 Lat 118.82441 Long
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Flat
Rock Type: Granite
Soil Type: 0
Soil Colour: Brown



Vegetation: *Terminalia circumalata* low isolated trees over *Acacia retivenea* subsp. *clandestina*, *A. tumida* var. *pilbarensis*, and *A. orthocarpa* tall isolated shrubs over *Triodia epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia orthocarpa</i>	2.5	0.5	
<i>Acacia retivenea</i> subsp. <i>clandestina</i>	3	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.25	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Corchorus ?tectus</i>	0.4	0.1	
<i>Dampiera candidans</i>	0.4	0.1	
<i>Eriachne ciliata</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.3	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.3	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Indigofera monophylla</i>	0.25	0.5	
<i>Ptilotus fusiformis</i>	0.2	0.1	
<i>Solanum</i> aff. <i>cleistogamum</i>	0.4	0.1	
<i>Terminalia circumalata</i>	4.5	0.5	Other (Anomalous features potentially new species)
<i>Tinospora smilacina</i>	0.4	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.02	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Tribulus platypterus</i>	0.3	0.1	
<i>Tribulus suberosus</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	5	
<i>Triumfetta ramosa</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSR75
Project Name: Turner River
Location: -21.31472 Lat 118.85659 Long
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* tall shrubland over *T. lanigera* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	0.1	
<i>Acacia ancistrocarpa</i>	2.5	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	5	25	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	6	0.1	
<i>Dodonaea coriacea</i>	1.6	0.1	
<i>Eriachne mucronata</i>	0.2	0.5	
<i>Goodenia stobbsiana</i>	0.3	0.5	
<i>Isotropis atropurpurea</i>	0.5	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.5	
<i>Petalostylis labicheoides</i>	2.5	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Seringia ?nephrosperma</i>	0.6	0.5	
<i>Sida arenicola</i>	1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.4	20	

FLORA SITE SHEET

Site: NSQ76
Project Name: Turner River
Location: -21.16346 Lat 118.83650 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: QUADRAT 50 x 50 m
Landform: Cracking Clay
Slope: Flat
Rock Type: Limestone
Soil Type: Loam, Medium Clay
Soil Colour: Brown, Orange



Vegetation: *Acacia synchronicia* tall isolated shrubland over *Aristida latifolia* low tussock grassland over *Sida fibulifera* and *Neptunia dimorphantha* low open shrubland

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia synchronicia</i>	2.8	0.1	
<i>Aristida latifolia</i>	0.3	25	
<i>Boerhavia paludosa</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Crotalaria dissitiflora</i> subsp. <i>benthamiana</i>	0.3	0.1	
<i>Cucumis variabilis</i>	0.1	0.1	
<i>Eragrostis xerophila</i>	0.3	0.5	
<i>Nellica maderaspatensis</i>	0.1	0.1	
<i>Neptunia longipila</i>	0.2	3	Priority 2 (DBCA)
<i>Portulaca oleracea</i>	0.1	0.1	
<i>Ptilotus axillaris</i>	0.3	0.5	
<i>Rhynchosia minima</i>	0.1	0.1	
<i>Salsola australis</i>	0.1	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.3	0.1	
<i>Sida fibulifera</i>	0.3	3	
<i>Solanum diversiflorum</i>	0.3	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Streptoglossa</i> sp.	0.05	1	
<i>Triodia epactia</i>	0.3	8	

FLORA SITE SHEET

Site: NSR77
Project Name Turner River
Location -21.30804 **Lat** 118.85152 **Long**
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Calcrete, Granite, Quartz
Soil Type: Sand
Soil Colour: Light Brown



Vegetation: *Pulcheca ferdandi-muelleri* low isolated shrubs over *Triodia longiceps* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Pilbara</i> (W.R. Barker 2025)	0.15	0.1	
<i>Eriachne mucronata</i>	0.2	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	

FLORA SITE SHEET

Site: NSQ78
Project Name: Turner River
Location: -21.15897 Lat 118.86612 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Quartz
Soil Type: Clay, Loam
Soil Colour: Brown, Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii*, *Acacia acradenia*, and *A. ancistrocarpa* low open shrubland over *Triodia lanigera* and *T. brizoides* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1	5	
<i>Acacia ancistrocarpa</i>	1.2	1	
<i>Bonamia erecta</i>	0.3	1	
<i>Corchorus</i> sp.	0.4	0.5	
<i>Corymbia hamersleyana</i>	5	0.1	
<i>Dampiera candidans</i>	0.4	1	
<i>Goodenia stobbsiana</i>	0.25	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	1	
<i>Leptosema anomalum</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Triodia brizoides</i>	0.3	15	
<i>Triodia lanigera</i>	0.3	4	

FLORA SITE SHEET

Site: NSR79
Project Name: Turner River
Location: -21.32392 Lat 118.86034 Long
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVE 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Clay, Gravel, Loam
Soil Colour: Light Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia* low isolated shrubs over *Triodia wiseana* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years, > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.8	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Cassytha capillaris</i>	0.01	0.1	
<i>Corymbia hamersleyana</i>	5	0.1	
<i>Cymbopogon oblectus</i>	0.3	0.5	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Ptilotus astrolasius</i>	0.1	0.1	
<i>Senna notabilis</i>	0.15	0.1	
<i>Stemodia grossa</i>	0.3	0.1	
<i>Tribulus hirsutus</i>	0.02	0.1	
<i>Triodia wiseana</i>	0.3	30	

FLORA SITE SHEET

Site: NSR80
Project Name: Turner River
Location: -21.16113 Lat 118.86649 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown, Orange, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* tall open shrubland over *A. stellaticeps* (*Pluchea tetranthera*) low open shrubland over *Triodia epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.5	0.1	
<i>Acacia ancistrocarpa</i>	1.5	1	
<i>Acacia stellaticeps</i>	0.5	20	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	9	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Chrysopogon fallax</i>	0.6	1	
<i>Corchorus</i> sp.	0.6	0.1	
<i>Corymbia hamersleyana</i>	6	1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlams</i>	0.7	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Isotropis atropurpurea</i>	0.5	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.15	0.1	
<i>Pluchea tetranthera</i>	0.3	1	
<i>Ptilotus astrolasius</i>	0.6	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Senna symonii</i>	0.6	0.1	
<i>Seringia ?nephrosperma</i>	0.03	0.1	
<i>Triodia epactia</i>	0.4	20	

FLORA SITE SHEET

Site: NSR81
Project Name: Turner River
Location: -21.32292 **Lat** 118.85891 **Long**
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia wiseana* and *T. lanigera* low hummock grassland

Condition: Very Good
Fire Age: 1-5 years, > 5 years
Disturbance Type: Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.05	0.1	
<i>Aristida hygrometrica</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.05	0.1	
<i>Bonamia alatisemina</i>	0.05	0.1	
<i>Bonamia erecta</i>	0.1	1	
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	0.1	0.1	
<i>Corymbia hamersleyana</i>	5	0.1	
<i>Dampiera candidans</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.15	0.1	
<i>Goodenia stobbsiana</i>	0.05	0.1	
<i>Paraneurachne muelleri</i>	0.1	0.1	
<i>Senna notabilis</i>	0.15	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.05	0.5	
<i>Tribulus hirsutus</i>	0.02	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia lanigera</i>	0.2	0.1	
<i>Triodia wiseana</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSR82
Project Name: Turner River
Location: -21.16604 Lat 118.86181 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Beige



Vegetation: *Eucalyptus victrix* mid isolated trees over *Acacia tumida* var. *pilbarensis* (*Melaleuca glomerata*, *A. pyrifolia*, *Grevillea wickhamii*) tall open shrubland over *Tephrosia rosea* var. *clementii* and *Corchorus* sp. low isolated shrubs over *Eriachne benthamii* low i

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.4	0.1	
<i>Acacia ancistrocarpa</i>	1	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	2	3	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	3	
<i>Afrohybanthus aurantiacus</i>	0.4	0.1	
<i>Cajanus pubescens</i>	1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Corchorus</i> sp.	1	0.1	
<i>Cymbopogon ambiguus</i>	0.4	0.1	
<i>Cyperus ixiocarpus</i>	0.4	0.1	
<i>Dichanthium fecundum</i>	0.3	0.1	
<i>Eriachne benthamii</i>	0.6	2	
<i>Eriachne obtusa</i>	0.15	0.1	
<i>Eriachne tenuiculmis</i>	0.3	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	7	0.1	
<i>Eucalyptus victrix</i>	11	1	
<i>Goodenia lamprosperma</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	4	1	
<i>Isotropis atropurpurea</i>	0.2	0.1	
<i>Melaleuca glomerata</i>	4	0.5	
<i>Nelica maderaspatensis</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	1.6	0.1	
<i>Pluchea dentex</i>	0.2	0.1	
<i>Stemodia grossa</i>	0.4	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	1.2	0.1	
<i>Themeda triandra</i>	1.1	0.1	
<i>Triodia epactia</i>	0.3	3	
<i>Triumfetta chaetocarpa</i>	0.4	0.1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.1	0.1	
<i>Waltheria indica</i>	0.4	0.1	

FLORA SITE SHEET

Site: NSR83
Project Name: Turner River
Location: -21.32098 **Lat** 118.85271 **Long**
Described by: [REDACTED]
Date: 25-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown



Vegetation: *Acacia orthocarpa* mid isolated shrubs over *Triodia lanigera* low hummock grasses

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: <1year

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	0.9	0.1	
<i>Acacia orthocarpa</i>	4	0.5	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Aristida hygrometrica</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.15	0.1	
<i>Bonamia erecta</i>	3	1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.02	0.1	
<i>Calandrinia</i> sp.	0.01	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.2	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.4	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Ptilotus axillaris</i>	0.05	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.1	0.1	
<i>Solanum chippendalei</i>	0.15	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.1	0.5	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.4	0.1	
<i>Tribulus hirsutus</i>	0.02	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.3	1	

FLORA SITE SHEET

Site: NSQ84
Project Name: Turner River
Location: -21.26002 **Lat** 118.82083 **Long**
Described by: [REDACTED]
Date: 28-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite
Soil Type: Clay, Loam, Sand
Soil Colour: Beige, Brown



Vegetation: *Acacia bivenosa* tall isolated shrubs over *Triodia lanigera* and *T. secunda* low hummock grassland

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia bivenosa</i>	3	0.1	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Cassutha capillaris</i>	0.3	0.1	
<i>Heliotropium crispatum</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Pluchea ferdinandi-muelleri</i>	1	0.1	
<i>Pluchea rubelliflora</i>	0.3	0.1	
<i>Solanum chippendalei</i>	0.05	0.1	
<i>Sporobolus actinocladus</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.35	40	
<i>Triodia secunda</i>	0.2	5	

FLORA SITE SHEET

Site: NSQ85
Project Name: Turner River
Location: -21.16847 Lat 118.85227 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Ironstone, Quartz
Soil Type: Clay, Loam, Sand
Soil Colour: Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* and *A. acradenia* mid open shrubland over *Triodia lanigera* (*T. wiseana*) low hummock grassland

Condition: Very Good
Fire Age: > 15 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	0.5	
<i>Acacia ancistrocarpa</i>	2.5	0.5	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Chrysopogon fallax</i>	0.5	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.4	0.1	
<i>Corymbia hamersleyana</i>	6	0.5	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Eulalia aurea</i>	0.5	0.1	
<i>Gossypium australe</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.4	40	
<i>Triodia wiseana</i>	0.5	0.5	

FLORA SITE SHEET

Site: NSR86
Project Name: Turner River
Location: -21.26430 Lat 118.82591 Long
Described by: [REDACTED]
Date: 28-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: Flat
Rock Type: Granite
Soil Type: Clay, Gravel, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia maitlandii* and *A. stellaticeps* mid isolated shrubs over *Triodia lanigera* (*T. epactia*) mid hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	3	0.1	
<i>Acacia inaequilatera</i>	2	0.1	
<i>Acacia maitlandii</i>	2.5	1	
<i>Acacia orthocarpa</i>	4	0.1	
<i>Acacia stellaticeps</i>	1.7	2	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	0.1	
<i>Aristida</i> sp.	0.03	0.1	
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Cynodon prostratus</i>	0.05	0.1	
<i>Cyperus squarrosus</i>	0.1	0.1	
<i>Eragrostis cumingii</i>	0.1	0.1	
<i>Eriachne ciliata</i>	0.1	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.3	0.1	
<i>Euploca tenuifolia</i>	0.1	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Fimbristylis</i> sp.	0.02	0.1	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	0.05	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Portulaca conspicua</i>	0.1	0.1	
<i>Trianthema triquetrum</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	3	
<i>Triodia lanigera</i>	0.3	35	

FLORA SITE SHEET

Site: NSR87
Project Name: Turner River
Location: -21.16237 Lat 118.87384 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown, Red



Vegetation: *Acacia acradenia* (*A. ancistrocarpa*) mid isolated shrubs over *Triodia brizoides* (*T. lanigera*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.8	0.5	
<i>Acacia ancistrocarpa</i>	2	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	0.4	0.1	
<i>Dampiera candidans</i>	0.6	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.01	0.1	
<i>Goodenia stobbsiana</i>	0.4	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.4	
<i>Ptilotus calostachyus</i>	0.6	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia brizoides</i>	0.6	25	
<i>Triodia lanigera</i>	0.4	1	

FLORA SITE SHEET

Site: NSQ88
Project Name: Turner River
Location: -21.27297 **Lat** 118.83222 **Long**
Described by: [REDACTED]
Date: 28-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Quartz, Sandstone
Soil Type: Gravel
Soil Colour: Beige, Brown



Vegetation: *Triodia longiceps* low hummock grassland

Condition: Excellent **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Calandrinia</i> sp.	0.02	0.1	
<i>Cynodon prostratus</i>	0.05	0.1	
<i>Fimbristylis dichotoma</i>	0.05	0.1	
<i>Portulaca conspicua</i>	0.05	0.1	
<i>Sclerolaena densiflora</i>	0.2	0.1	
<i>Solanum chippendalei</i>	0.4	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Trianthema triquetrum</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	0.1	
<i>Triodia longiceps</i>	0.4	25	

FLORA SITE SHEET

Site: NSR89
Project Name: Turner River
Location: -21.16674 Lat 118.87240 Long
Described by: [REDACTED]
Date: 26-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: Granite
Soil Type: Sand
Soil Colour: Light Brown



Vegetation: *Eucalyptus victrix* mid isolated trees over *Acacia tumida* var. *pulbarensis* tall isolated shrubs over *Heteropogon contortus* low isolated tussock grasses over *Triodia epactia* low open hummock grasses

Condition: Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	2.5	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.15	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Bonamia pannosa</i>	0.15	0.1	
<i>Bulbostylis barbata</i>	0.02	0.1	
<i>Cajanus pubescens</i>	0.3	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Cheilanthes</i> sp.	0.15	0.1	
<i>Chrysopogon fallax</i>	0.5	0.1	
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	0.4	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.3	0.1	
<i>Cucumis melo</i>	0.05	0.1	
<i>Cymbopogon ambiguus</i>	0.4	0.1	
<i>Cyperus vaginatus</i>	0.5	0.1	
<i>Eragrostis cumingii</i>	0.1	0.1	
<i>Eriachne mucronata</i>	0.2	0.1	
<i>Eucalyptus victrix</i>	10	1	
<i>Euphorbia biconvexa</i>	0.2	0.1	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	0.1	0.1	
<i>Goodenia lamprosperma</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1	
<i>Heteropogon contortus</i>	0.4	1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Isotropis atropurpurea</i>	0.2	0.1	
<i>Melaleuca glomerata</i>	3	0.1	
<i>Nelica maderaspatensis</i>	0.4	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	2	0.1	
<i>Pluchea dentex</i>	0.15	0.1	
<i>Senna notabilis</i>	0.1	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.05	0.1	

FLORA SITE SHEET

Site: NSQ90
Project Name: Turner River
Location: -21.16729 Lat 118.84101 Long
Described by: [REDACTED]
Date: 28-06-2022

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* tall shrubland over *Bonamia erecta* and *Corchorus ?tectus* low isolated shrubs over *Chrysopogon fallax* low open tussock grassland over *Triodia lanigera* low isolated tussock grasses

Condition: Good **Disturbance Type:** Fauna tracks/scats
Fire Age: >10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.2	0.1	
<i>Acacia ancistrocarpa</i>	2	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3	50	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.2	1	
<i>Chrysopogon fallax</i>	0.5	11	
<i>Corchorus ?tectus</i>	0.5	2	
<i>Corchorus parviflorus</i>	0.4	0.1	
<i>Corymbia hamersleyana</i>	7	1	
<i>Dampiera candidans</i>	0.4	0.5	
<i>Eulalia aurea</i>	0.5	0.1	
<i>Goodenia forrestii</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	0.5	0.1	
<i>Indigofera monophylla</i>	0.3	0.5	
<i>Isotropis atropurpurea</i>	0.4	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	2.2	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.5	0.1	
<i>Sida arenicola</i>	1.6	0.1	
<i>Sida clementii</i>	0.6	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.6	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.6	0.1	
<i>Themeda triandra</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	0.5	
<i>Triodia lanigera</i>	0.4	5	

FLORA SITE SHEET

Site: NSQ93
Project Name: Turner River
Location: -21.19590 **Lat** 118.86184 **Long**
Described by: [REDACTED]
Date: 27-06-2022

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia inaequilatera* tall isolated shrubs over *Corchorus* sp. low isolated shrubs over *Triodia wiseana* (*T. brizoides*) low hummock grassland

Condition: Good **Disturbance Type:** None
Fire Age: > 5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.3	0.1	
<i>Acacia inaequilatera</i>	4	1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.25	0.1	
<i>Bonamia pilbarensis</i>	0.02	0.1	
<i>Corchorus</i> sp.	0.5	1	
<i>Dysphania</i> sp.	0.02	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.01	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.7	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Solanum chippendalei</i>	0.15	0.1	
<i>Tephrosia clementii</i>	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.4	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.1	0.1	
<i>Triodia brizoides</i>	0.2	0.5	
<i>Triodia wiseana</i>	0.3	20	

FLORA SITE SHEET

Site: NSR95
Project Name: Turner River
Location: -21.20370 **Lat** 118.86297 **Long**
Described by: [REDACTED]
Date: 27-06-2022

Type: RELEVÉ 50 x 50 m
Landform: Plains
Slope: Flat
Rock Type: Granite, Ironstone
Soil Type: Clay, Loam
Soil Colour: Brown, Red



Vegetation: *Acacia inaequilatera* and *A. acradenia* tall isolated trees over *Triodia wiseana* and *T. lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: > 15 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	2	
<i>Acacia inaequilatera</i>	4	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.3	0.1	
<i>Bonamia pilbarensis</i>	0.05	0.1	
<i>Corchorus</i> sp.	0.7	0.1	
<i>Corymbia hamersleyana</i>	6	0.1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.02	0.1	
<i>Fimbristylis</i> sp.	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Indigofera monophylla</i>	0.4	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Tephrosia clementii</i>	0.05	0.1	
<i>Trigastrotheca molluginea</i>	0.15	0.1	
<i>Triodia brizoides</i>	0.2	15	
<i>Triodia wiseana</i>	0.6	10	

FLORA SITE SHEET

Site: NSW01
Project Name Turner River West
Location -21.21811 Lat 118.78460 Lon

Phase 1
 Described by: SC, JH
 Date: 29-03-2023

Phase 2
 Described by: SC, JH
 Date: 19-08-2023

Type: RELEVÉ 50 x 50
Landform: Small granite outcrop
Slope: Gentle
Rock Type: Granite
Soil Type: Clay
Soil Colour: Orange



Vegetation: *Acacia eripoda* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Very Good
Fire Age: >10 years
Disturbance Type: Weeds

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	50	0.1	x	x	
<i>Acacia eripoda</i>	250	7	x	x	
<i>Afrohybanthus aurantiacus</i>	40	0.1	x	x	
<i>Arivela viscosa</i>	30	0.1	x		
<i>Cajanus pubescens</i>	120	0.1	x	x	
* <i>Cenchrus ciliaris</i>	40	0.1	x	x	
<i>Corchorus parviflorus</i>	50	0.1	x	x	
<i>Cymbopogon ambiguus</i>	120	0.5	x	x	
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	40	0.1	x	x	
<i>Enneapogon caeruleus</i>	40	0.1	x	x	
<i>Enneapogon lindleyanus</i>	30	0.1		x	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	5	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	20	0.1	x		
<i>Gomphrena cunninghamii</i>	10	0.1	x	x	
<i>Gossypium australe</i>	100	0.1	x	x	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	200	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	60	0.1		x	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	80	0.1	x		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	60	0.1	x	x	
<i>Melhanie oblongifolia</i>	10	0.1		x	
<i>Polycarpaea longiflora</i>	30	0.1	x	x	
<i>Rhynchosia minima</i>	40	1	x	x	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	140	0.1	x		
<i>Tinospora smilacina</i>	5	0.1		x	
<i>Triodia epactia</i>	40	60	x	x	
<i>Triumfetta maconochieana</i>	60	0.1	x	x	

FLORA SITE SHEET

Site: NSWQ02
Project Name: Turner River West
Location: -21.21340 Lat 118.73625 Lon

Phase 1
Described by: [REDACTED]
Date: 30-03-2023

Phase 2
Described by: [REDACTED]
Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Shoulder drainage
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over mixed burnt re-growth herbs and low shrubs

Condition: Very Good
Fire Age: <1year
Disturbance Type: None

SPECIES LIST	Taxon	Height (cm)	Cover (%)	Phase		Notes
				Ph1	Ph2	
	<i>Abutilon</i> sp.	30	0.1		x	
	<i>Acacia bivenosa</i>	30	0.1	x	x	
	<i>Acacia eriopoda</i>	50	0.1		x	
	<i>Acacia inaequilatera</i>	30	0.1	x		
	<i>Acacia maitlandii</i>	60	0.1		x	
	<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	50	0.1		x	
	<i>Acacia stellatocephala</i>	10	0.1	x	x	
	<i>Acacia trachycarpa</i>	30	0.1		x	
	<i>Acacia tumida</i> var. <i>pilbarensis</i>	100	1	x	x	
	<i>Afrohybanthus aurantiacus</i>	30	1	x	x	
	<i>Alternanthera nana</i>	10	0.1		x	
	<i>Ammannia multiflora</i>	30	0.1	x	x	
	<i>Aristida hygrometrica</i>	30	0.1	x	x	
	<i>Arivela uncinata</i>	40	0.5	x		
	<i>Arivela viscosa</i>	60	0.1	x	x	
	<i>Bonania alatisemina</i>	10	0.1	x	x	
	<i>Bonania erecta</i>	10	0.1	x	x	
	<i>Buchnera linearis</i>	50	0.1		x	
	<i>Bulbostylis barbata</i>	15	0.1		x	
	<i>Byblis pilbarana</i>	5	0.1	x		
	<i>Calandrinia stagnensis</i>	5	0.1	x		
	<i>Cassipourea capillaris</i>	5	0.1		x	
	* <i>Cenchrus ciliaris</i>	10	0.1	x	x	
	<i>Chrysopogon fallax</i>	40	2	x	x	
	<i>Codonocarpus cotinifolius</i>	30	0.1		x	
	<i>Corchorus laniflorus</i>	20	0.1	x	x	
	<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	40	0.1	x	x	
	<i>Corymbia hamersleyana</i>	300	1	x	x	
	<i>Cullen leucanthum</i>	15	0.1		x	
	<i>Cyperus ixiocarpus</i>	50	0.1	x	x	
	<i>Cyperus leptocarpus</i>	30	0.1	x		
	<i>Cyperus squarrosus</i>	20	0.1	x		
	<i>Dampiera candida</i>	20	0.1	x	x	
	<i>Eragrostis cumingii</i>	40	0.1	x	x	
	<i>Eragrostis tenellula</i>	20	0.1		x	
	<i>Eragrostis xerophila</i>	30	1	x	x	
	<i>Eriachne obtusa</i>	10	0.1		x	
	<i>Eulalia aurea</i>	70	0.1	x	x	
	<i>Euphorbia trigonosperma</i>	20	0.1	x		
	<i>Euploca cunninghamii</i>	30	0.1	x	x	
	<i>Euploca mutica</i>	10	0.1	x		P3
	<i>Euploca pachyphylla</i>	30	0.1	x	x	
	<i>Gomphrena sordida</i>	5	0.1		x	
	<i>Gonocarpus ephemerus</i>	30	0.1	x	x	
	<i>Goodenia lamprosperma</i>	20	0.1		x	
	<i>Goodenia microptera</i>	40	1	x	x	
	<i>Goodenia stobbsiana</i>	20	0.1		x	
	<i>Goodenia triodiophila</i>	40	0.1	x	x	
	<i>Gossypium australe</i>	50	0.1	x	x	
	<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	50	0.1	x	x	
	<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	40	0.1	x	x	
	<i>Hakea lorea</i> subsp. <i>lorea</i>	80	0.1	x	x	
	<i>Heliotropium crispatum</i>	20	0.1	x	x	
	<i>Heteropogon contortus</i>	60	0.1		x	
	<i>Hibiscus austrinus</i> var. <i>austrinus</i>	50	0.1		x	
	<i>Hibiscus leptocladus</i>	40	0.1	x	x	
	<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	30	1	x	x	
	<i>Indigofera monophylla</i>	30	0.1	x	x	
	<i>Ipomoea polymorpha</i>	20	0.1	x		
	<i>Isotria medeoloides</i>	30	35	x	x	
	<i>Nelica maderaspatisensis</i>	40	0.1	x		
	<i>Panicum decompositum</i>	50	0.1		x	
	<i>Paspalum rufum</i>	20	0.1	x		
	<i>Perotis rara</i>	20	0.1	x		
	<i>Pluchea dentata</i>	30	0.1		x	
	<i>Pluchea rubelliflora</i>	20	0.1	x	x	
	<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	10	0.1		x	
	<i>Polycarpaea holtzei</i>	5	0.1		x	
	<i>Polymeria ambigua</i>	5	0.1	x	x	
	<i>Portulaca oleracea</i>	10	0.1	x		
	<i>Pterocaulon sphacelatum</i>	50	0.1		x	
	<i>Ptilotus axillaris</i>	10	0.1	x	x	
	<i>Ptilotus calostachyus</i>	60	0.1		x	
	<i>Ptilotus fusiformis</i>	40	0.1	x	x	
	<i>Rhynchosia minima</i>	30	0.1	x	x	
	<i>Scaevola amblyanthera</i> var. <i>amblyanthera</i>	40	0.5	x	x	
	<i>Scaevola browniana</i> subsp. <i>browniana</i>	20	0.1		x	
	<i>Senna notabilis</i>	10	0.1	x	x	
	<i>Setaria dielsii</i>	20	0.1	x	x	
	<i>Sida clementii</i>	50	0.1	x	x	
	<i>Sida fibulifera</i>	20	0.1	x	x	

FLORA SITE SHEET

Site: NSWQ03
Project Name Turner River West
Location -21.20465 Lat 118.73103 Lon

Phase 1
 Described by: [REDACTED]
 Date: 30-03-2023

Phase 2
 Described by: [REDACTED]
 Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Undulating plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay, Sand
Soil Colour: Brown, Orange



Vegetation: *Acacia orthocarpa* tall open shrubland over *Tridodia epactia* (*T. lanigera*) low hummock grassland

Condition: Excellent
Fire Age: Partial burn, ~1yr, >10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia orthocarpa</i>	300	5	x	x	
<i>Acacia stellaticeps</i>	20	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	20	0.1	x	x	
<i>Arivela uncifera</i>	20	0.1	x		
<i>Bonamia erecta</i>	30	0.1	x	x	
<i>Bonamia pilbarensis</i>	10	0.1	x	x	
<i>Bulbostylis barbata</i>	5	0.1	x		
<i>Corchorus</i> sp.	30	0.1	x	x	
<i>Dampiera candidans</i>	10	0.1		x	
<i>Eragrostis setifolia</i>	20	0.1	x	x	
<i>Euploca cunninghamii</i>	20	0.1	x	x	
<i>Euploca mutica</i>	10	0.1	x	x	P3
<i>Euploca pachyphylla</i>	20	0.1	x	x	
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Goodenia microptera</i>	30	0.1	x	x	
<i>Goodenia stobbsiana</i>	10	0.1		x	
<i>Hibiscus</i> sp.	10	0.1		x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Isotropis atropurpurea</i>	30	0.1	x	x	
<i>Ptilotus astrolasius</i>	20	0.1	x	x	
<i>Ptilotus axillaris</i>	10	0.1	x	x	
<i>Ptilotus exaltatus</i>	20	0.1		x	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	30	0.1	x	x	
<i>Solanum chippendalei</i>	20	0.1		x	
<i>Solanum diversiflorum</i>	30	0.1		x	
<i>Streptoglossa decurrens</i>	20	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	20	0.1	x		
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	30	0.1	x	x	
<i>Trianthema triquetrum</i>	5	0.1		x	
<i>Tribulus hirsutus</i>	20	0.1	x	x	
<i>Trigastrotheca molluginea</i>	20	0.1	x	x	
<i>Tridodia epactia</i>	30	20	x	x	
<i>Tridodia lanigera</i>	30	2	x	x	

FLORA SITE SHEET

Site: NSWQ04
Project Name Turner River West
Location -21.20249 Lat 118.72987 Lon

Phase 1
Described by: [REDACTED]
Date: 30-03-2023

Phase 2
Described by: [REDACTED]
Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Beige



Vegetation: *Triodia longiceps* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST			Phase		Notes
Taxon	Height (cm)	Cover (%)	Ph1	Ph2	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	30	0.1	x	x	
<i>Euploca pachyphylla</i>	20	0.1	x	x	
<i>Goodenia triodiophila</i>	20	0.1	x	x	
<i>Ptilotus axillaris</i>	10	0.1	x	x	
<i>Sporobolus actinocladus</i>	20	0.1		x	
<i>Sporobolus australasicus</i>	10	0.1	x	x	
<i>Streptoglossa decurrens</i>	20	0.1	x	x	
<i>Trianthema triquetrum</i>	10	0.1		x	
<i>Triodia longiceps</i>	50	35	x	x	

FLORA SITE SHEET

Site: NSWQ05
Project Name Turner River West
Location -21.20311 Lat 118.75428 Lon

Phase 1
Described by: [REDACTED]
Date: 30-03-2023

Phase 2
Described by: [REDACTED]
Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay,Sand
Soil Colour: Orange



Vegetation: *Triodia longiceps* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	60	0.1	x	x	
<i>Bonamia erecta</i>	30	0.1		x	
<i>Cassylia capillaris</i>	30	0.1	x	x	
<i>Corchorus parviflorus</i>	40	0.1	x		
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Euploca pachyphylla</i>	20	0.1	x		
<i>Petalostylis labicheoides</i>	30	0.1		x	
<i>Portulaca conspicua</i>	10	0.1	x		
<i>Ptilotus astrolasius</i>	20	0.1	x	x	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	30	0.1		x	
<i>Sporobolus actinocladus</i>	40	0.1	x	x	
<i>Sporobolus australasicus</i>	10	0.1	x	x	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	30	0.1	x	x	
<i>Trianthema oxycalyptum</i> var. <i>seperatum</i>	10	0.1	x		
<i>Trianthema triquetrum</i>	10	0.1	x	x	
<i>Trigastrotheca molluginea</i>	20	0.1	x		
<i>Triodia epactia</i>	60	0.1	x	x	
<i>Triodia lanigera</i>	30	0.1	x	x	
<i>Triodia longiceps</i>	50	50	x	x	

FLORA SITE SHEET

Site: NSWQ06
Project Name Turner River West
Location -21.20343 Lat 118.75585 Lon

Phase 1
Described by: [REDACTED]
Date: 30-03-2023

Phase 2
Described by: [REDACTED]
Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Quartz
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Acacia acradenia* and *Grevillea wickhamii* tall shrubland over *Triodia wiseana* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	300	25	x	x	
<i>Acacia bivenosa</i>	200	1	x	x	
<i>Acacia inaequilatera</i>	80	0.1		x	
<i>Acacia stellaticeps</i>	50	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x		
<i>Bonamia alatisemina</i>	20	0.1	x	x	
<i>Bonamia erecta</i>	20	0.1	x	x	
<i>Cajanus pubescens</i>	5	0.1		x	
<i>Cassytha capillaris</i>	20	0.1	x	x	
<i>Chrysopogon fallax</i>	50	0.5	x	x	
<i>Corchorus parviflorus</i>	20	0.1	x	x	
<i>Euploca chrysocarpa</i>	30	0.1	x	x	
<i>Goodenia microptera</i>	10	0.1	x		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	400	0.5	x	x	
<i>Hakea lorea</i> subsp. <i>lorea</i>	60	0.1	x	x	
<i>Petalostylis labicheoides</i>	120	0.1	x	x	
<i>Polymeria ambigua</i>	30	0.1	x		
<i>Ptilotus astrolasius</i>	30	0.1		x	
<i>Ptilotus axillaris</i>	10	0.1	x	x	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	30	0.1	x	x	
<i>Senna symonii</i>	30	0.1	x	x	
<i>Stemodia viscosa</i>	40	0.1	x		
<i>Triodia chichesterensis</i>	30	3	x	x	P3
<i>Triodia lanigera</i>	40	5	x	x	
<i>Triodia wiseana</i>	40	60	x	x	

FLORA SITE SHEET

Site: NSWQ07
Project Name Turner River West
Location -21.20285 Lat 118.75794 Lon

Phase 1
Described by: [REDACTED]
Date: 30-03-2023

Phase 2
Described by: [REDACTED]
Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Acacia acradenia* and *Grevillea wickhamii* tall shrubland over *Triodia schinzii* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	100	2	x	x	
<i>Arivela uncifera</i>	20	0.1	x		
<i>Bonamia erecta</i>	20	0.1	x	x	
<i>Chrysopogon fallax</i>	30	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Eragrostis xerophila</i>	30	0.1	x	x	
<i>Eriachne mucronata</i>	30	0.1		x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	250	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Isotropis atropurpurea</i>	20	0.1	x		
<i>Petalostylis labicheoides</i>	220	0.1		x	
<i>Ptilotus astrolasius</i>	20	0.1		x	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	30	0.1		x	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	30	0.1		x	
<i>Triodia lanigera</i>	30	0.1		x	
<i>Triodia schinzii</i>	40	71	x	x	

FLORA SITE SHEET

Site: NSWQ08
Project Name Turner River West
Location -21.20178 Lat 118.75904 Lon

Phase 1
 Described by: [REDACTED]
 Date: 30-03-2023

Phase 2
 Described by: [REDACTED]
 Date: 19-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Quartzite
Soil Type: Clay, Sand
Soil Colour: Brown, Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia schinzii* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	90	0.5	x	x	
<i>Acacia inaequilatera</i>	40	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x		
<i>Bonamia pilbarensis</i>	30	0.1	x	x	
<i>Cassutha capillaris</i>	20	0.1	x	x	
<i>Codonocarpus cotinifolius</i>	120	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Corymbia hamersleyana</i>	400	1	x	x	
<i>Euploca chrysocarpa</i>	20	0.1	x	x	
<i>Euploca pachyphylla</i>	30	0.1	x		
<i>Goodenia stobbsiana</i>	10	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	300	0.1		x	
<i>Hakea lorea</i> subsp. <i>lorea</i>	100	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x		
<i>Petalostylis labicheoides</i>	100	0.1	x	x	
<i>Ptilotus astrolasius</i>	30	0.1	x	x	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	30	0.1	x	x	
<i>Senna symonii</i>	100	0.1	x	x	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	40	0.1	x	x	
<i>Triodia chichesterensis</i>	25	60	x	x	P3
<i>Triodia wiseana</i>	50	1	x	x	

FLORA SITE SHEET

Site: NSWQ09
Project Name: Turner River West
Location: -21.20995 Lat 118.75868 Lon

Phase 1

Described by: [REDACTED]
 Date: 31-03-2023

Phase 2

Described by: [REDACTED]
 Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia schinzii* low hummock grassland

Condition: Excellent
Fire Age: <1year
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	20	0.1	x	x	
<i>Acacia ancistrocarpa</i>	20	0.1		x	
<i>Acacia bivenosa</i>	15	0.1		x	
<i>Acacia inaequilatera</i>	300	0.5	x	x	
<i>Acacia stellaticeps</i>	30	20	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x	x	
<i>Arivela uncifera</i>	30	0.1	x		
<i>Bonamia alatisemina</i>	15	0.1	x	x	
<i>Bonamia erecta</i>	20	1	x	x	
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Calandrinia stagnensis</i>	5	0.1	x		
<i>Cassylia capillaris</i>	20	0.1	x	x	
<i>Chrysopogon fallax</i>	20	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Corymbia hamersleyana</i>	400	0.1	x	x	
<i>Cyperus blakeanus</i>	30	0.1	x	x	
<i>Eragrostis xerophila</i>	30	1	x	x	
<i>Eriachne obtusa</i>	30	0.1	x		
<i>Euploca mutica</i>	10	0.1	x	x	P3
<i>Goodenia microptera</i>	20	1	x	x	
<i>Gossypium australe</i>	30	0.1		x	
<i>Hakea lorea</i> subsp. <i>lorea</i>	200	0.1	x	x	
<i>Indigofera monophylla</i>	35	1	x	x	
<i>Isotropis atropurpurea</i>	30	1	x	x	
<i>Petalostylis labicheoides</i>	40	0.1	x	x	
<i>Pluchea dentex</i>	10	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	20	0.1	x	x	
<i>Pluchea tetranthera</i>	10	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x		
<i>Portulaca conspicua</i>	5	0.1	x		
<i>Pterocaulon</i> sp.	3	0.1	x	x	
<i>Ptilotus astrolasius</i>	30	0.1		x	
<i>Ptilotus axillaris</i>	10	0.1	x	x	
<i>Ptilotus exaltatus</i>	15	0.1		x	
<i>Ptilotus fusiformis</i>	10	0.1	x		
<i>Senna notabilis</i>	15	0.1	x		
<i>Solanum chippendalei</i>	20	0.1	x	x	
<i>Solanum diversiflorum</i>	30	0.1	x	x	
<i>Sporobolus actinocladus</i>	30	0.1	x	x	
<i>Sporobolus australasicus</i>	30	0.1	x		
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	5	0.1	x		
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	30	1	x	x	
<i>Trianthema oxycalyptum</i> var. <i>seperatum</i>	10	0.1	x		
<i>Trianthema triquetrum</i>	30	0.1	x	x	
<i>Tribulus hirsutus</i>	10	0.1	x		
<i>Trigastrotheca molluginea</i>	15	0.1	x	x	
<i>Triodia lanigera</i>	20	1	x	x	
<i>Triodia schinzii</i>	30	45	x	x	

FLORA SITE SHEET

Site: NSWQ10
Project Name Turner River West
Location -21.21333 Lat 118.75632 Lon

Phase 1
Described by: [REDACTED]
Date: 31-03-2023

Phase 2
Described by: [REDACTED]
Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Quartz
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Acacia ancistrocarpa* tall shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent
Fire Age: <1year
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia ancistrocarpa</i>	200	31	x	x	
<i>Acacia inaequilatera</i>	40	0.1	x	x	
<i>Bonamia alatisemina</i>	10	0.1	x		
<i>Bonamia erecta</i>	20	0.1	x	x	
<i>Bonamia pilbarensis</i>	10	0.1	x	x	
<i>Codonocarpus cotinifolius</i>	50	0.1	x		
<i>Corchorus parviflorus</i>	30	0.1	x		
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	30	0.1	x	x	
<i>Euploca cunninghamii</i>	20	0.1	x		
<i>Euploca mutica</i>	10	0.1	x	x	P3
<i>Euploca pachyphylla</i>	10	0.1	x	x	
<i>Goodenia microptera</i>	40	0.1	x	x	
<i>Isotropis atropurpurea</i>	30	0.1	x	x	
<i>Ptilotus astrolasius</i>	10	0.1	x	x	
<i>Ptilotus calostachyus</i>	40	0.1	x	x	
<i>Ptilotus fusiformis</i>	30	0.1	x		
<i>Senna glutinosa</i> subsp. <i>xluerssenii</i>	20	0.1		x	
<i>Sida cardiophylla</i>	30	0.1	x		
<i>Streptoglossa decurrens</i>	20	0.1	x		
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	30	0.1	x	x	
<i>Tribulus hirsutus</i>	20	0.1	x	x	
<i>Trigastrotheca molluginea</i>	10	0.1	x		
<i>Triodia lanigera</i>	40	50	x	x	

FLORA SITE SHEET

Site: NSW11
Project Name: Turner River West
Location: -21.22426 Lat 118.75162 Lon

Phase 1

Described by: [REDACTED]
 Date: 31-03-2023

Phase 2

Described by: [REDACTED]
 Date: 20-08-2023

Type: RELEVÉ 50 x 50
Landform: Major drainage shoulder
Slope: Flat
Rock Type: N/A
Soil Type: Clay, Loam, Sand
Soil Colour: Beige, Brown



Vegetation: *Eucalyptus camaldulensis* subsp. *refulgens* low open woodland over *Acacia trachycarpa* and *A. tumida* var. *pilbarensis* tall closed shrubland over mixed shrubs and low grasses

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia eriopoda</i>	400	0.1	x	x	
<i>Acacia stellaticeps</i>	120	0.1	x	x	
<i>Acacia trachycarpa</i>	300	80	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	500	11	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i> x <i>unknown hybrid</i>	200	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	25	0.1	x	x	
<i>Aristida hygrometrica</i>	10	0.1	x	x	
<i>Arivela viscosa</i>	30	0.1	x	x	
<i>Bonamia erecta</i>	20	0.1	x	x	
<i>Bonamia pannosa</i>	10	0.1	x		
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Cajanus pubescens</i>	30	0.1		x	
* <i>Cenchrus ciliaris</i>	20	25	x	x	
* <i>Cenchrus setiger</i>	40	1	x	x	
<i>Chrysopogon fallax</i>	60	0.1		x	
<i>Corchorus</i> sp.	5	0.1	x	x	
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	50	0.1	x	x	
<i>Dactyloctenium radulans</i>	10	0.1	x		
<i>Eragrostis cumingii</i>	20	0.1	x	x	
<i>Eriachne aristidea</i>	30	0.1		x	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	100	5	x	x	
<i>Eulalia aurea</i>	60	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	15	0.1	x		
<i>Gomphrena cunninghamii</i>	10	0.1		x	
<i>Gomphrena sordida</i>	10	0.1		x	
<i>Goodenia microptera</i>	10	0.1		x	
<i>Gossypium robinsonii</i>	150	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	300	0.1	x	x	
<i>Heliotropium crispatum</i>	10	0.1	x		
<i>Heteropogon contortus</i>	60	0.1		x	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	30	0.1	x	x	
<i>Hibiscus leptocladus</i>	50	0.1	x	x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	30	0.5	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Panicum australiense</i> var. <i>australiense</i>	10	0.1	x		
<i>Paspalidium rarum</i>	10	0.1	x		
<i>Pluchea rubelliflora</i>	30	0.1		x	
<i>Pterocaulon sphacelatum</i>	10	0.1	x	x	
<i>Ptilotus axillaris</i>	10	0.1		x	
<i>Senna notabilis</i>	10	0.1	x		
<i>Setaria dielsii</i>	10	0.1	x		
<i>Solanum chippendalei</i>	30	0.1	x	x	
<i>Solanum diversiflorum</i>	30	0.1	x	x	
<i>Sporobolus australasicus</i>	10	0.1	x	x	
<i>Tephrosia rosea</i> var. <i>clementii</i>	70	0.1	x	x	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	30	0.1	x	x	
<i>Trigastroteca molluginea</i>	10	0.1	x	x	
<i>Triodia epactia</i>	30	5	x	x	
<i>Triodia longiceps</i>	30	10	x	x	
<i>Triumfetta ramosa</i>	30	0.1	x	x	
<i>Waltheria indica</i>	10	0.1	x	x	

FLORA SITE SHEET

Site: NSWQ12
Project Name Turner River West
Location -21.22054 Lat 118.75397 Lon

Phase 1
Described by: [REDACTED]
Date: 31-03-2023

Phase 2
Described by: [REDACTED]
Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown, Orange



Vegetation: *Acacia orthocarpa* and *A. ancistrocarpa* tall shrubland over *A. stellaticeps* mid sparse shrubland over *Triodia lanigera* (*T. wiseana*) low open hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	50	0.1	x	x	
<i>Acacia ancistrocarpa</i>	200	5	x	x	
<i>Acacia bivenosa</i>	200	0.1	x	x	
<i>Acacia inaequilatera</i>	40	0.1	x	x	
<i>Acacia orthocarpa</i>	200	12	x	x	
<i>Acacia stellaticeps</i>	60	5	x	x	
<i>Acacia stellaticeps x ancistrocarpa</i>	80	0.1	x	x	
<i>Bonamia alatisemina</i>	30	0.1	x	x	
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Eriachne pulchella subsp. pulchella</i>	10	0.1	x	x	
<i>Fimbristylis dichotoma</i>	30	0.1	x	x	
<i>Goodenia microptera</i>	20	0.1		x	
<i>Petalostylis labicheoides</i>	200	0.1	x	x	
<i>Polycarpaea holtzei</i>	5	0.1	x	x	
<i>Portulaca oleracea</i>	5	0.1	x		
<i>Ptilotus astrolasius</i>	30	0.1	x	x	
<i>Ptilotus calostachyus</i>	50	0.1	x	x	
<i>Sporobolus australasicus</i>	10	0.1		x	
<i>Trigastrotheca molluginea</i>	10	0.1	x		
<i>Triodia lanigera</i>	50	45	x	x	
<i>Triodia wiseana</i>	40	1	x	x	

FLORA SITE SHEET

Site: NSWQ13
Project Name Turner River West
Location -21.20840 Lat 118.76707 Lon

Phase 1
Described by: [REDACTED]
Date: 31-03-2023

Phase 2
Described by: [REDACTED]
Date: 21-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Quartz
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Acacia orthocarpa* and *A. ancistrocarpa* tall shrubland over *Triodia lanigera* low open hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia ancistrocarpa</i>	200	2	x	x	
<i>Acacia maitlandii</i>	70	8	x	x	
<i>Acacia orthocarpa</i>	200	6	x	x	
<i>Acacia stellaticeps</i>	60	1	x	x	
<i>Aristida holathera</i> var. <i>holathera</i>	30	0.1	x	x	
<i>Bonamia alatisemina</i>	20	0.1	x		
<i>Bonamia erecta</i>	30	0.1	x	x	
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	20	0.1	x		
<i>Euploca cunninghamii</i>	15	0.1	x	x	
<i>Fimbristylis dichotoma</i>	30	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	30	0.1	x		
<i>Scaevola browniana</i> subsp. <i>browniana</i>	20	0.1	x	x	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	30	0.1	x	x	
<i>Trigastrotheca molluginea</i>	10	0.1	x	x	
<i>Triodia epactia</i>	30	0.1	x	x	
<i>Triodia lanigera</i>	30	35	x	x	

FLORA SITE SHEET

Site: NSWQ14
Project Name Turner River West
Location -21.20990 Lat 118.76518 Lon

Phase 1
Described by: [REDACTED]
Date: 31-03-2023

Phase 2
Described by: [REDACTED]
Date: 21-08-2023

Type: QUADRAT 50 x 50
Landform: Low quartz rise
Slope: Gentle
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Brown, Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* tall sparse shrubland over *Triodia chichesterensis* and *T. wiseana* low open hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	70	1	x	x	
<i>Acacia stellaticeps</i>	40	0.1	x	x	
<i>Bonamia erecta</i>	10	0.1	x	x	
<i>Bonamia pilbarensis</i>	20	0.1	x		
<i>Cassytha capillaris</i>	20	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Corymbia hamersleyana</i>	350	0.1	x	x	
<i>Eragrostis xerophila</i>	20	0.1	x		
<i>Eriachne mucronata</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	30	0.1	x		
<i>Goodenia stobbsiana</i>	10	0.1		x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	300	1	x	x	
<i>Isotropis atropurpurea</i>	30	0.1	x		
<i>Petalostylis labicheoides</i>	70	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	40	0.1	x	x	
<i>Pluchea tetranthera</i>	50	0.1	x	x	
<i>Ptilotus astrolasius</i>	30	0.1	x	x	
<i>Ptilotus calostachyus</i>	30	0.1	x	x	
<i>Sclerolaena densiflora</i>	10	0.1		x	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	40	0.1		x	
<i>Trianthema oxycalyptum</i> var. <i>seperatum</i>	5	0.1	x		
<i>Trianthema triquetrum</i>	5	0.1	x	x	
<i>Trigastrotheca molluginea</i>	10	0.1	x		
<i>Triodia chichesterensis</i>	20	40	x	x	P3
<i>Triodia lanigera</i>	30	0.1		x	
<i>Triodia schinzii</i>	30	0.1	x	x	
<i>Triodia wiseana</i>	60	8	x	x	

FLORA SITE SHEET

Site: NSWQ15
Project Name: Turner River West
Location: -21.24141 Lat 118.79275 Lon

Phase 1

Described by: [REDACTED]
 Date: 01-04-2023

Phase 2

Described by: [REDACTED]
 Date: 21-08-2023

Type: QUADRAT 50 x 50
Landform: Granite boulders
Slope: Gentle
Rock Type: Granite
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Orange



Vegetation: *Acacia tumida* var. *pilbarensis* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	20	0.1	x	x	
<i>Acacia acradenia</i>	60	0.1	x	x	
<i>Acacia maitlandii</i>	150	0.5	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	200	8	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x	x	
<i>Amaranthus</i> aff. <i>interruptus</i>	10	0.1	x		
<i>Aristida contorta</i>	15	0.1	x	x	
<i>Aristida hygrometrica</i>	50	0.1	x	x	
<i>Aristida latifolia</i>	20	0.1	x	x	
<i>Arivela viscosa</i>	5	0.1	x		
<i>Bonamia alatisemina</i>	40	0.1	x		
<i>Bonamia pannosa</i>	5	0.1	x		
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Bulbostylis burbridgeae</i>	10	0.1	x	x	P4
<i>Cajanus pubescens</i>	40	0.1	x	x	
* <i>Cenchrus ciliaris</i>	40	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	20	0.1	x		
<i>Cymbopogon ambiguus</i>	50	0.1	x	x	
<i>Enneapogon caerulescens</i>	15	0.1	x		
<i>Eragrostis xerophila</i>	10	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	10	0.1	x		
<i>Euphorbia boophthona</i>	30	0.1	x		
<i>Euploca cunninghamii</i>	20	0.1	x		
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	10	0.1	x	x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	15	0.1	x	x	
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Gomphrena cunninghamii</i>	5	0.1	x		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	50	0.1	x	x	
<i>Hibiscus leptocladus</i>	30	0.1		x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	50	0.1	x	x	
<i>Indigofera monophylla</i>	20	0.1	x	x	
<i>Isotropis atropurpurea</i>	30	0.1	x		
<i>Panicum australiense</i> var. <i>australiense</i>	10	0.1	x	x	
<i>Paspalidium clementii</i>	5	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x	x	
<i>Polycarpaea holtzei</i>	3	0.1	x	x	
<i>Polycarpaea longiflora</i>	30	0.1	x	x	
<i>Ptilotus fusiformis</i>	30	0.1	x		
<i>Salsola australis</i>	10	0.1		x	
<i>Senna venusta</i>	80	0.1	x	x	
<i>Tephrosia</i> sp. <i>B Kimberley Flora</i> (C.A. Gardner 7300)	180	0.5	x	x	
<i>Tinospora smilacina</i>	5	0.1		x	
<i>Tribulus suberosus</i>	60	0.1	x		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	60	0.1	x		
<i>Triodia epactia</i>	40	40	x	x	
<i>Triodia lanigera</i>	30	0.1	x	x	
<i>Tripogonella loliiformis</i>	5	0.1	x	x	
<i>Zornia muelleriana</i> subsp. <i>congesta</i>	30	0.1	x		Range extension

FLORA SITE SHEET

Site: NSW16
Project Name Turner River West
Location -21.24408 Lat 118.79419 Lon

Phase 1
Described by: [REDACTED]
Date: 01-04-2023

Phase 2
Described by: [REDACTED]
Date: 21-08-2023

Type: RELEVÉ 50 x 50
Landform: Granite boulders
Slope: Moderate
Rock Type: Granite
Soil Type: Clay, Loam, Sand
Soil Colour: Brown, Orange



Vegetation: *Terminalia circumalata* low open woodland over *Triodia epactia* low sparse hummock grassland

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	60	11	x	x	
<i>Amaranthus</i> aff. <i>interruptus</i>	10	0.1	x		
<i>Arivela viscosa</i>	30	0.1	x		
* <i>Cenchrus ciliaris</i>	40	0.1	x	x	
<i>Cucumis variabilis</i>	10	0.1	x	x	
<i>Cymbopogon ambiguus</i>	50	0.1	x	x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	15	0.1	x		
<i>Euphorbia trigonosperma</i>	10	0.1	x		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	10	0.1	x	x	
<i>Gomphrena cunninghamii</i>	5	0.1	x		
<i>Paspalidium clementii</i>	15	0.1	x	x	
<i>Phyllanthus hebecarpus</i>	80	1	x	x	P3
<i>Salsola australis</i>	15	0.1	x	x	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	50	0.1	x		
<i>Terminalia circumalata</i>	450	25	x	x	
<i>Tinospora smilacina</i>	30	0.1	x	x	
<i>Tribulus suberosus</i>	60	0.1	x	x	
<i>Triodia epactia</i>	40	28	x	x	

FLORA SITE SHEET

Site: NSWQ17
Project Name Turner River West
Location -21.24144 Lat 118.79498 Lon

Phase 1
Described by: [REDACTED]
Date: 01-04-2023

Phase 2
Described by: [REDACTED]
Date: 22-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Acacia stellaticeps* and *Pluchea ferdinandi-muelleri* mid to low sparse shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent
Fire Age: >10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia inaequilatera</i>	60	0.1	x	x	
<i>Acacia stellaticeps</i>	50	12	x	x	
<i>Bonamia erecta</i>	30	0.1	x	x	
<i>Chrysopogon fallax</i>	30	0.1	x	x	
<i>Corchorus parviflorus</i>	50	2	x	x	
<i>Eriachne obtusa</i>	20	0.5	x	x	
<i>Fimbristylis dichotoma</i>	10	0.1	x	x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	10	0.1	x		
<i>Gossypium australe</i>	30	0.1	x		
<i>Indigofera monophylla</i>	30	2	x	x	
<i>Lepidium pholidogynum</i>	10	0.1	x		
<i>Pluchea ferdinandi-muelleri</i>	50	5	x	x	
<i>Stemodia grossa</i>	40	0.1	x		
<i>Tephrosia rosea</i> var. <i>clementii</i>	50	1	x	x	
<i>Triodia epactia</i>	30	5	x	x	
<i>Triodia lanigera</i>	40	45	x	x	
<i>Triumfetta ramosa</i>	40	0.1	x	x	

FLORA SITE SHEET

Site: NSW18
Project Name Turner River West
Location -21.23849 Lat 118.79198 Lon

Phase 1
 Described by: [REDACTED]
 Date: 01-04-2023

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: RELEVÉ 50 x 50
Landform: Granite outcropping
Slope: Flat
Rock Type: Granite
Soil Type: Clay, Sand
Soil Colour: Orange



Vegetation: *Acacia tumida* var. *pilbarensis* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Excellent
Fire Age: >10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia maitlandii</i>	80	0.1	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	400	15	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x		
<i>Bonamia pannosa</i>	20	0.1	x		
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Cajanus pubescens</i>	20	0.1	x	x	
<i>Chrysopogon fallax</i>	50	0.1	x	x	
<i>Corchorus parviflorus</i>	30	0.1	x	x	
<i>Eriachne ciliata</i>	5	0.1	x	x	
<i>Eriachne mucronata</i>	40	0.1	x	x	
<i>Eriachne obtusa</i>	30	0.1	x	x	
<i>Euphorbia tannensis</i> subsp. <i>Eremophila</i>	15	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	20	0.1	x	x	
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Gomphrena cunninghamii</i>	5	0.1	x	x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	5	0.1	x	x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	60	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Paspalidium clementii</i>	10	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	30	0.1	x	x	
<i>Polycarpaea longiflora</i>	10	0.1	x	x	
<i>Portulaca conspicua</i>	2	0.1	x		
<i>Portulaca digyna</i>	2	0.1	x		Range extension
<i>Senna notabilis</i>	10	0.1	x	x	
<i>Senna venusta</i>	80	0.1	x	x	
<i>Streptoglossa decurrens</i>	20	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	10	0.1	x		
<i>Trigastrotheca molluginea</i>	10	0.1	x		
<i>Triodia epactia</i>	50	8	x	x	
<i>Triodia lanigera</i>	30	0.1	x	x	
<i>Tripogonella loliiformis</i>	10	0.1	x	x	
<i>Triumfetta ramosa</i>	70	0.1	x	x	
<i>Zornia albiflora</i>	10	0.1	x		

FLORA SITE SHEET

Site: NSW19
Project Name Turner River West
Location -21.23642 Lat 118.79126 Lon

Phase 1
 Described by: [REDACTED]
 Date: 01-04-2023

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: RELEVÉ 50 x 50
Landform: Drainage
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Beige,Brown



Vegetation: *Cullen leucanthum* and *Acacia trachycarpa* tall sparse shrubland over mixed drainage herbs and grasses

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia colei</i> var. <i>colei</i>	400	0.5	x	x	
<i>Acacia inaequilatera</i>	190	0.1	x	x	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	200	0.1		x	
<i>Acacia stellaticeps</i>	50	0.1	x	x	
<i>Acacia trachycarpa</i>	70	0.1		x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x		
* <i>Cenchrus ciliaris</i>	50	50	x	x	
<i>Chrysopogon fallax</i>	30	0.1	x	x	
<i>Cullen leucanthum</i>	200	15	x	x	
<i>Cyperus ixiocarpus</i>	30	0.1	x		
<i>Eriachne aristidea</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Eulalia aurea</i>	30	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	20	0.1	x		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	200	0.1	x	x	
<i>Gomphrena sordida</i>	10	0.1		x	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	80	0.1	x	x	
<i>Panicum decompositum</i>	50	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	50	0.1	x	x	
<i>Pluchea rubelliflora</i>	20	0.1	x	x	
<i>Rhynchosia minima</i>	10	0.1	x		
<i>Santalum lanceolatum</i>	100	0.1	x	x	
<i>Senna venusta</i>	80	0.1	x	x	
<i>Stemodia viscosa</i>	5	0.1	x	x	
<i>Tephrosia rosea</i> var. <i>clementii</i>	60	0.1	x	x	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	60	0.1	x	x	
<i>Triodia epactia</i>	40	0.1		x	
<i>Triumfetta ramosa</i>	50	0.1	x	x	
<i>Waltheria indica</i>	50	0.1	x		

FLORA SITE SHEET

Site: NSWQ20
Project Name Turner River West
Location -21.22695 Lat 118.78806 Lon

Phase 1
 Described by: [REDACTED]
 Date: 01-04-2023

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Clay, Sand
Soil Colour: Beige



Vegetation: *Acacia stellaticeps* and *Pluchea ferdinandi-muelleri* mid to low sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia inaequilatera</i>	50	0.1	x	x	
<i>Acacia maitlandii</i>	300	0.1	x	x	
<i>Acacia stellaticeps</i>	150	20	x	x	
<i>Afrohybanthus aurantiacus</i>	50	0.1	x		
<i>Arivela uncifera</i>	30	0.1	x		
<i>Arivela viscosa</i>	10	0.1	x		
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	10	0.1	x	x	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	40	0.1	x	x	
<i>Dactyloctenium radulans</i>	20	0.1	x	x	
<i>Digitaria ctenantha</i>	30	0.1		x	
<i>Eragrostis dielsii</i>	10	0.1	x		
<i>Eriachne aristidea</i>	10	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	10	0.1	x	x	
<i>Euphorbia trigonosperma</i>	10	0.1	x		
<i>Euploca cunninghamii</i>	20	0.1	x	x	
<i>Fimbristylis dichotoma</i>	10	0.1	x	x	
<i>Gomphrena sordida</i>	10	0.1	x	x	
<i>Goodenia microptera</i>	20	0.1	x		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	40	0.1		x	
<i>Indigofera colutea</i>	5	0.1	x		
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Lepidium pholidogynum</i>	10	0.1	x	x	
<i>Panicum australiense</i> var. <i>australiense</i>	30	0.1	x	x	
<i>Paspalidium rarum</i>	10	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	60	1	x	x	
<i>Pluchea tetranthera</i>	50	0.1	x		
<i>Pterocaulon sphacelatum</i>	30	0.1	x	x	
<i>Salsola australis</i>	60	0.1	x	x	
<i>Senna notabilis</i>	5	0.1	x	x	
<i>Sida clementii</i>	30	0.1	x	x	
<i>Solanum chippendalei</i>	20	0.1		x	
<i>Sporobolus actinocladus</i>	10	0.1	x	x	
<i>Sporobolus australasicus</i>	15	0.1		x	
<i>Tephrosia rosea</i> var. <i>clementii</i>	50	0.1	x		
<i>Trigastrotheca molluginea</i>	10	0.1	x		
<i>Triodia epactia</i>	40	40	x	x	
<i>Triodia lanigera</i>	50	2	x	x	

FLORA SITE SHEET

Site: NSWQ21
Project Name Turner River West
Location -21.21180 Lat 118.78355 Lon

Phase 1
 Described by: [REDACTED]
 Date: 01-04-2023

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: QUADRAT 50 x 50
Landform: Plain next to large granite outcrop
Slope: Flat
Rock Type: Granite
Soil Type: Clay,Loam,Sand
Soil Colour: Brown



Vegetation: *Acacia eriopoda* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Excellent
Fire Age: Unknown
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia eriopoda</i>	350	31	x	x	
<i>Acacia eriopoda x stellaticeps</i>	18	0.1	x	x	
<i>Acacia maitlandii</i>	300	0.1	x	x	
<i>Acacia stellaticeps</i>	50	1	x	x	
<i>Aristida holathera</i> var. <i>holathera</i>	30	0.1	x	x	
<i>Bonamia pannosa</i>	20	0.1	x		
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Cajanus pubescens</i>	50	0.1	x	x	
<i>Cucumis variabilis</i>	30	0.1	x		
<i>Eragrostis xerophila</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Fimbristylis dichotoma</i>	30	0.1	x	x	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	80	0.1	x	x	
<i>Hibiscus leptocladus</i>	50	0.1	x		
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	30	0.1	x	x	
<i>Indigofera monophylla</i>	50	0.5	x	x	
<i>Panicum australiense</i> var. <i>australiense</i>	30	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	60	0.1	x	x	
<i>Pluchea tetranthera</i>	50	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	10	0.1	x	x	
<i>Pterocaulon sphacelatum</i>	20	0.1	x		
<i>Solanum cleistogamum</i>	50	0.1	x		
<i>Solanum diversiflorum</i>	50	0.1	x		
<i>Stemodia grossa</i>	10	0.1	x		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	30	0.1	x		
<i>Triodia epactia</i>	40	45	x	x	
<i>Triodia lanigera</i>	40	5	x	x	
<i>Triumfetta ramosa</i>	20	0.1	x	x	

FLORA SITE SHEET

Site: NSW22
Project Name: Turner River West
Location: -21.21789 Lat 118.77523 Lon

Phase 1

Described by: [REDACTED]
 Date: 02-04-2023

Phase 2

Described by: [REDACTED]
 Date: 23-08-2023

Type: RELEVÉ 50 x 50
Landform: Gully between two granite outcrop
Slope: Gentle
Rock Type: Granite
Soil Type: Sand
Soil Colour: Beige, Brown



Vegetation: *Acacia eriopoda* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Very Good
Fire Age: >10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	50	0.1	x	x	
<i>Acacia eriopoda</i>	300	15	x	x	
<i>Acacia maitlandii</i>	90	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	10	0.1		x	
* <i>Cenchrus ciliaris</i>	20	9	x	x	
<i>Cullen stipulaceum</i>	90	0.1		x	
<i>Cymbopogon ambiguus</i>	50	0.1	x	x	
<i>Cynodon prostratus</i>	2	0.1	x		
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	20	0.1		x	
<i>Eriachne mucronata</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Euphorbia trigonosperma</i>	20	0.1	x		
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	20	0.1	x	x	
<i>Fimbristylis dichotoma</i>	10	0.1	x	x	
<i>Gomphrena cunninghamii</i>	10	0.1	x	x	
<i>Gossypium australe</i>	80	0.1	x		
<i>Hibiscus leptocladus</i>	20	0.1		x	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	20	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Isotropis atropurpurea</i>	50	0.1	x	x	
<i>Pluchea rubelliflora</i>	10	0.1	x		
<i>Polycarpaea longiflora</i>	15	0.1		x	
<i>Rhynchosia minima</i>	30	0.1	x	x	
<i>Senna venusta</i>	70	0.1	x	x	
<i>Solanum chippendalei</i>	30	0.1	x	x	
<i>Tephrosia virens</i>	100	0.5		x	
<i>Trianthema oxycalyptum</i> var. <i>seperatum</i>	2	0.1	x		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	50	0.1	x	x	
<i>Trigastrotheca molluginea</i>	20	0.1	x	x	
<i>Triodia epactia</i>	40	40	x	x	
<i>Triumfetta maconochieana</i>	50	0.1	x	x	

FLORA SITE SHEET

Site: NSW23
Project Name Turner River West
Location -21.22114 Lat 118.79246 Lon

Phase 1
Described by: [REDACTED]
Date: 02-04-2023

Phase 2
Described by: [REDACTED]
Date: 23-08-2023

Type: RELEVÉ 50 x 50
Landform: Shallow depression of drainage plain
Slope: Flat
Rock Type: Granite
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Triodia longiceps* low hummock grassland

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Bulbostylis barbata</i>	6	0.1	x	x	
<i>Fimbristylis dichotoma</i>	15	0.1	x	x	
<i>Indigofera monophylla</i>	50	0.1	x		
<i>Panicum australiense</i> var. <i>australiense</i>	8	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	60	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x	x	
<i>Sporobolus actinocladius</i>	15	0.1		x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	5	0.1	x	x	
<i>Trianthema triquetrum</i>	10	0.1	x	x	
<i>Triodia longiceps</i>	40	50	x	x	

FLORA SITE SHEET

Site: NSWQ24
Project Name Turner River West
Location -21.22024 Lat 118.78830 Lon

Phase 1
 Described by: [REDACTED]
 Date: 02-04-2023

Phase 2
 Described by: [REDACTED]
 Date: 23-08-2023

Type: QUADRAT 50 x 50
Landform: Sand plain around granite
Slope: Flat
Rock Type: Granite
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia stellaticeps* and *Pluchea ferdinandi-muelleri* mid to low sparse shrubland over *Triodia lanigera* low hummock grassland and *Eriachne obtusa* low isolated tussock grasses

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia stellaticeps</i>	70	12	x	x	
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Cassytha capillaris</i>	70	0.1	x	x	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	50	0.1	x	x	
<i>Eriachne obtusa</i>	20	1	x	x	
<i>Euphorbia trigonosperma</i>	10	0.1	x		
<i>Euploca cunninghamii</i>	5	0.1	x		
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Grona muelleri</i>	10	0.1	x		
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Panicum australiense</i> var. <i>australiense</i>	5	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	70	5	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x	x	
<i>Pterocaulon sphacelatum</i>	40	0.1	x	x	
<i>Ptilotus calostachyus</i>	50	0.1	x		
<i>Stemodia viscosa</i>	40	0.1	x	x	
<i>Trianthema pilosum</i>	10	0.1	x	x	
<i>Triodia epactia</i>	40	0.1	x	x	
<i>Triodia lanigera</i>	40	48	x	x	

FLORA SITE SHEET

Site: NSWQ25
Project Name Turner River West
Location -21.20274 Lat 118.77519 Lon

Phase 1
Described by: [REDACTED]
Date: 02-04-2023

Phase 2
Described by: [REDACTED]
Date: 23-08-2023

Type: QUADRAT 50 x 50
Landform: Plain
Slope: Flat
Rock Type: Granite, Quartz
Soil Type: Loam, Sand
Soil Colour: Brown



Vegetation: *Acacia orthocarpa* and *A. ancistrocarpa* (*Acacia tumida* var. *pilbarensis*) tall open shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent
Disturbance Type: None
Fire Age: >10 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia ancistrocarpa</i>	220	15	x	x	
<i>Acacia ancistrocarpa x stellaticeps</i>	120	0.1	x	x	
<i>Acacia orthocarpa</i>	300	12	x	x	
<i>Acacia stellaticeps</i>	60	0.5	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	210	5	x	x	
<i>Bonamia erecta</i>	20	0.1	x	x	
<i>Corymbia hamersleyana</i>	250	0.1	x	x	
<i>Goodenia stobbsiana</i>	10	0.1		x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	150	0.1	x	x	
<i>Petalostylis labicheoides</i>	150	0.1	x	x	
<i>Triodia lanigera</i>	40	55	x	x	

FLORA SITE SHEET

Site: NSWQ26
Project Name Turner River West
Location -21.20969 Lat 118.77046 Lon

Phase 1
Described by: [REDACTED]
Date: 02-04-2023

Phase 2
Described by: [REDACTED]
Date: 23-08-2023

Type: QUADRAT 50 x 50
Landform: Shallow calcrete outcrop
Slope: Flat
Rock Type: Calcrete, Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia bivenosa* and *Petalostylis labicheoides* mid to tall isolated shrubs over *Triodia chichesterensis* low hummock grassland

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	200	0.1	x	x	
<i>Acacia maitlandii</i>	150	0.1	x	x	
<i>Bonamia pilbarensis</i>	20	0.1	x	x	
<i>Cassutha capillaris</i>	10	0.1	x	x	
<i>Corymbia hamersleyana</i>	600	2	x	x	
<i>Petalostylis labicheoides</i>	120	1	x	x	
<i>Triodia chichesterensis</i>	20	71	x	x	P3
<i>Triodia wiseana</i>	30	0.1		x	

FLORA SITE SHEET

Site: NSW27
Project Name: Turner River West
Location: -21.25622 Lat 118.77268 Lon

Phase 1

Described by: [REDACTED]
Date: 03-04-2023

Phase 2

Described by: [REDACTED]
Date: 23-08-2023

Type: RELEVÉ 50 x 50
Landform: Granite outcrop
Slope: Gentle
Rock Type: Granite
Soil Type: Sand
Soil Colour: Brown, Orange



Vegetation: *Terminalia circumalata* low open woodland over *Triodia epactia* low sparse hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	150	0.1	x	x	
<i>Acacia retivenea</i>	50	0.1	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	50	0.1		x	
<i>Afrohybanthus aurantiacus</i>	25	0.1	x	x	
<i>Arivela viscosa</i>	30	0.1	x	x	
<i>Bonamia erecta</i>	10	0.1	x		
<i>Bonamia pannosa</i>	20	0.1	x		
<i>Bonamia</i> sp.	5	0.1		x	
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Bulbostylis burbridgeae</i>	10	0.1	x	x	P4
<i>Cajanus pubescens</i>	50	0.1	x	x	
<i>Cassytha capillaris</i>	20	0.1		x	
* <i>Cenchrus ciliaris</i>	30	0.1		x	
<i>Corchorus</i> sp.	30	0.1		x	
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	50	0.1	x	x	
<i>Cucumis variabilis</i>	30	0.1	x	x	
<i>Cymbopogon ambiguus</i>	50	1	x	x	
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	20	0.1	x	x	
<i>Cyperus hesperius</i>	30	0.1		x	
<i>Dolichocarpa crouchiana</i>	5	0.1		x	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	30	0.1	x	x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	15	0.1	x		
<i>Euphorbia careyi</i>	30	0.1	x	x	
<i>Euploca cunninghamii</i>	20	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	10	0.1	x	x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	30	0.1	x	x	
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	60	0.1	x	x	
<i>Gomphrena cunninghamii</i>	20	0.1		x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	10	0.1	x	x	
<i>Gonocarpus ephemerus</i>	20	0.1		x	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	180	0.1		x	
<i>Hibiscus leptocladus</i>	20	0.1		x	
<i>Hibiscus sturtii</i> var. <i>campyloclamyx</i>	30	0.1	x	x	
<i>Panicum australiense</i> var. <i>australiense</i>	15	0.1	x	x	
<i>Paspalidium clementii</i>	30	0.1	x	x	
<i>Pluchea dentex</i>	30	0.1		x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	10	0.1	x	x	
<i>Polycarpaea holtzei</i>	10	0.1		x	
<i>Polycarpaea involucrata</i>	10	0.1	x	x	
<i>Polycarpaea longiflora</i>	20	0.1		x	
<i>Ptilotus exaltatus</i>	30	0.1		x	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	60	0.1	x	x	
<i>Senna venusta</i>	200	1	x	x	
<i>Sida cardiophylla</i>	20	0.1	x	x	
<i>Solanum chippendalei</i>	50	0.1	x	x	
<i>Solanum cleistogamum</i>	30	0.1	x	x	
<i>Solanum gabrielae</i>	50	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	30	0.1	x	x	
<i>Tephrosia</i> sp. B <i>Kimberley Flora</i> (C.A. Gardner 7300)	50	0.1	x	x	
<i>Terminalia circumalata</i>	400	5	x	x	
<i>Tinospora smilacina</i>	50	0.1	x	x	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	20	0.1	x		
<i>Tribulus platypterus</i>	80	0.1	x	x	
<i>Tribulus suberosus</i>	40	0.1	x	x	
<i>Trigastrotheca molluginea</i>	20	0.1	x	x	
<i>Triodia epactia</i>	30	1	x	x	
<i>Tripogonella loliformis</i>	20	0.1	x	x	
<i>Triumfetta maconochieana</i>	30	0.1		x	
<i>Triumfetta ramosa</i>	80	0.1		x	

FLORA SITE SHEET

Site: NSW28
Project Name Turner River West
Location -21.24806 Lat 118.76924 Lon

Phase 1

Described by: [REDACTED]
 Date: 03-04-2023

Phase 2

Described by: [REDACTED]
 Date: 23-08-2023

Type: RELEVÉ 50 x 50
Landform: Granite outcrop
Slope: Moderate, Gentle
Rock Type: Granite
Soil Type: Clay, Sand
Soil Colour: Light Brown, Orange



Vegetation: *Terminalia circumalata* low open woodland over *Triodia epactia* low sparse hummock grassland

Condition: Excellent
Fire Age: <1year, 1-5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	50	0.1		x	
<i>Acacia maitlandii</i>	30	0.1	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	120	0.5	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x	x	
<i>Amaranthus</i> aff. <i>interruptus</i>	15	0.1	x	x	
<i>Arivela viscosa</i>	20	0.1	x	x	
<i>Bonamia pannosa</i>	20	0.1	x	x	
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	40	0.1	x	x	
<i>Cucumis variabilis</i>	20	0.1		x	
<i>Cymbopogon ambiguus</i>	70	0.1	x	x	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	10	0.1	x		
<i>Eriachne mucronata</i>	30	0.1		x	
<i>Eriachne obtusa</i>	20	0.1		x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	20	0.1		x	
<i>Euphorbia careyi</i>	20	0.1	x		
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	20	0.1		x	
<i>Euploca cunninghamii</i>	20	0.1		x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	15	0.1	x	x	
<i>Fimbristylis dichotoma</i>	20	0.1		x	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	250	1	x	x	
<i>Gomphrena cunninghamii</i>	20	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	120	0.1	x	x	
<i>Hibiscus leptocladus</i>	20	0.1		x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	30	0.1		x	
<i>Nicotiana umbratica</i>	5	0.1	x		P3
<i>Paspalidium clementii</i>	15	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	15	0.1		x	
<i>Polycarpaea longiflora</i>	15	0.1	x	x	
<i>Ptilotus fusiformis</i>	30	0.1	x	x	
<i>Senna venusta</i>	100	0.1	x	x	
<i>Sida cardiophylla</i>	20	0.1	x		
<i>Solanum chippendalei</i>	50	0.5	x	x	
<i>Solanum cleistogamum</i>	20	0.1	x	x	
<i>Stemodia grossa</i>	10	0.1	x		
<i>Tephrosia</i> sp. <i>B Kimberley Flora</i> (C.A. Gardner 7300)	50	0.1	x	x	
<i>Tephrosia virens</i>	30	0.1		x	
<i>Terminalia circumalata</i>	400	2	x	x	
<i>Tinospora smilacina</i>	180	0.1	x	x	
<i>Tribulus platypterus</i>	80	0.1	x	x	
<i>Tribulus suberosus</i>	20	0.1		x	
<i>Trigastrotheca molluginea</i>	20	0.1	x	x	
<i>Triodia epactia</i>	40	5	x	x	
<i>Tripogonella loliiformis</i>	10	0.1		x	

FLORA SITE SHEET

Site: NSWQ29
Project Name: Turner River West
Location: -21.26377 Lat 118.73587 Lon

Phase 1

Described by: S [REDACTED]
Date: 03-04-2023

Phase 2

Described by: [REDACTED]
Date: 23-08-2023

Type: QUADRAT 50 x 50
Landform: Granite
Slope: Gentle
Rock Type: Granite, Quartz
Soil Type: Clay, Sand
Soil Colour: Light Brown, Orange



Vegetation: *Acacia orthocarpa* tall open shrubland over *Triodia epactia* (*T. longiceps*) low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia maitlandii</i>	180	0.5	x	x	
<i>Acacia orthocarpa</i>	220	11	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	300	0.1	x	x	
<i>Afrohybanthus aurantiacus</i>	15	0.1	x	x	
<i>Aristida contorta</i>	20	0.1	x	x	
<i>Aristida holathera</i> var. <i>holathera</i>	30	0.1	x	x	
<i>Arivela viscosa</i>	5	0.1	x		
<i>Boerhavia coccinea</i>	10	0.1	x		
<i>Bonamia alatisemina</i>	2	0.1	x		
<i>Bonamia pannosa</i>	5	0.1		x	
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Calandrinia pentavalvis</i>	5	0.1	x		
<i>Cassutha capillaris</i>	30	0.1	x	x	
<i>Chrysopogon fallax</i>	30	0.1		x	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	5	0.1	x	x	
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	5	0.1	x		
<i>Eragrostis cumingii</i>	5	0.1	x	x	
<i>Eragrostis dielsii</i>	5	0.1	x		
<i>Eriachne aristidea</i>	10	0.1	x	x	
<i>Eriachne mucronata</i>	20	0.1		x	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	10	0.1	x	x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	10	0.1	x		
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	30	0.1	x	x	
<i>Euphorbia trigonosperma</i>	30	0.1	x		
<i>Euploca cunninghamii</i>	10	0.1	x		
<i>Euploca pachyphylla</i>	10	0.1	x	x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	5	0.1		x	
<i>Fimbristylis dichotoma</i>	10	0.1	x	x	
<i>Fimbristylis rara</i>	10	0.1	x		
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	10	0.1	x	x	
<i>Gomphrena sordida</i>	10	0.1	x		
<i>Gonocarpus ephemerus</i>	30	0.1	x		
<i>Goodenia lamprosperma</i>	30	0.1	x	x	
<i>Goodenia microptera</i>	15	0.1	x	x	
<i>Goodenia stobbsiana</i>	10	0.1	x		
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	210	0.1	x	x	
<i>Grona muelleri</i>	15	0.1	x		
<i>Haloragis maierae</i>	30	0.1	x	x	
<i>Heliotropium crispatum</i>	30	0.1	x	x	
<i>Indigofera colutea</i>	10	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Isotropis atropurpurea</i>	40	0.1	x		
<i>Nellica maderaspatensis</i>	20	0.1	x	x	
<i>Pluchea ferdinandi-muelleri</i>	40	0.1	x		
<i>Pluchea rubelliflora</i>	30	0.1	x	x	
<i>Pluchea tetranthera</i>	20	0.1	x	x	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x		
<i>Portulaca digyna</i>	1	0.1	x		Range extension
<i>Portulaca filifolia</i>	10	0.1	x		
<i>Ptilotus fusiformis</i>	30	0.1	x	x	
<i>Senna notabilis</i>	5	0.1	x		
<i>Solanum chippendalei</i>	40	0.1	x	x	
<i>Solanum cleistogamum</i>	30	0.1	x		
<i>Sporobolus australasicus</i>	5	0.1	x	x	
<i>Stemodia grossa</i>	30	0.1	x		
<i>Stemodia viscosa</i>	20	0.1	x	x	
<i>Streptoglossa decurrens</i>	10	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	5	0.1	x	x	
<i>Tephrosia virens</i>	30	0.1	x	x	
<i>Terminalia circumalata</i>	110	0.1	x	x	
<i>Trianthema triquetrum</i>	10	0.1	x		
<i>Trigastrotheca molluginea</i>	20	0.1	x		
<i>Triodia epactia</i>	40	25	x	x	
<i>Triodia longiceps</i>	50	9	x	x	
<i>Tripogonella loliformis</i>	10	0.1	x	x	
<i>Triumfetta ramosa</i>	60	0.1	x	x	

FLORA SITE SHEET

Site: NSW30
Project Name: Turner River West
Location: -21.26197 Lat 118.73618 Lon

Phase 1

Described by: [REDACTED]
Date: 03-04-2023

Phase 2

Described by: [REDACTED]
Date: 20-08-2023

Type: RELEVE 50 x 50
Landform: Minor drainage
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Beige



Vegetation: *Acacia tumida* var. *pilbarensis* tall sparse shrubland over mixed drainage herbs and grasses

Condition: Very Good
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia maitlandii</i>	100	0.1	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	450	20	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x	x	
<i>Ammannia baccifera</i>	20	0.1		x	
<i>Aristida hygrometrica</i>	30	0.1	x	x	
<i>Arivela viscosa</i>	40	0.1	x	x	
<i>*Bidenes bipinnata</i>	20	0.1	x	x	
<i>Bonamia pannosa</i>	30	0.1	x		
<i>Buchnera linearis</i>	70	0.1		x	
<i>Bulbostylis barbata</i>	20	0.1	x		
<i>Byblis pilbarana</i>	5	0.1	x		
<i>Cajanus pubescens</i>	50	0.1		x	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	20	0.1	x		
<i>Corchorus parviflorus</i>	40	0.1	x	x	
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	40	0.1		x	
<i>Crotalaria medicaginea</i> var. <i>neglecta</i>	20	0.1	x		
<i>Cyperus conicus</i>	40	0.1	x		
<i>Cyperus ixiocarpus</i>	30	0.1	x	x	
<i>Cyperus leptocarpus</i>	40	0.1	x		
<i>Cyperus squarrosus</i>	10	0.1	x		
<i>Dactyloctenium radulans</i>	10	0.1	x		
<i>Digitaria ctenantha</i>	30	0.1	x	x	
<i>Drosera finlaysoniana</i>	20	0.1	x		
<i>Eragrostis cumingii</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	20	0.1	x	x	
<i>Eriachne tenuiculmis</i>	30	5	x	x	
<i>Eulalia aurea</i>	10	2	x	x	
<i>Euphorbia trigonosperma</i>	20	0.1	x	x	
<i>Euploca pachyphylla</i>	30	0.1	x	x	
<i>Fimbristylis rara</i>	40	0.1	x	x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	30	0.1	x	x	
<i>Goodenia lamprosperma</i>	30	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	30	0.1	x	x	
<i>Grona muelleri</i>	20	0.1	x		
<i>Gymnanthera cunninghamii</i>	60	0.1	x	x	P3
<i>Heliotropium crispatum</i>	30	0.1	x		
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	20	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Ipomoea coptica</i>	30	0.1	x	x	
<i>Ipomoea polymorpha</i>	20	0.1	x		
<i>Mitrasacme connata</i>	30	0.1	x		
<i>Nellica maderaspatensis</i>	20	0.1	x	x	
<i>Panicum decompositum</i>	10	0.1	x	x	
<i>Paspalidium rarum</i>	20	0.1	x		
<i>Perotis rara</i>	10	0.1	x		
<i>Pluchea dentex</i>	20	0.1	x	x	
<i>Pluchea rubelliflora</i>	20	0.1		x	
<i>Ptilotus fusiformis</i>	30	0.1	x	x	
<i>Rhynchosia minima</i>	30	0.1	x	x	
<i>Scleromitron galioides</i>	20	0.1	x	x	
<i>Senna notabilis</i>	20	0.1	x		
<i>Senna venusta</i>	30	0.1	x	x	
<i>Setaria dielsii</i>	10	0.1	x	x	
<i>Solanum chippendalei</i>	40	0.1	x	x	
<i>Solanum cleistogamum</i>	30	0.1	x	x	
<i>Stemodia viscosa</i>	30	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	20	0.1	x		
<i>Terminalia circumalata</i>	300	0.1	x	x	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	40	0.1	x	x	
<i>Triodia epactia</i>	30	5	x	x	
<i>Triodia longiceps</i>	50	29	x	x	
<i>Triumfetta ramosa</i>	60	0.1	x	x	
<i>Wahlenbergia tumidiflora</i>	30	0.1	x		
<i>Waltheria indica</i>	30	0.1	x	x	

FLORA SITE SHEET

Site: NSWQ31
Project Name: Turner River West
Location: -21.24014 Lat 118.72922 Lon

Phase 1

Described by: [REDACTED]
 Date: 04-04-2023

Phase 2

Described by: [REDACTED]
 Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Quartz plain
Slope: Gentle
Rock Type: Quartz
Soil Type: Clay, Loam
Soil Colour: Light Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia wiseana* (*T. chichesterensis*) low sparse hummock grassland

Condition: Excellent
Fire Age: <1year, 1-5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	20	0.1	x	x	
<i>Bonamia pilbarensis</i>	2	0.1	x	x	
<i>Corchorus</i> sp.	10	0.1	x	x	
<i>Corymbia hamersleyana</i>	400	0.1	x	x	
<i>Euphorbia clementii</i>	10	0.1	x		P3
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	4	0.1	x		
<i>Euploca cunninghamii</i>	10	0.1	x		
<i>Euploca pachyphylla</i>	20	0.1		x	
<i>Goodenia microptera</i>	20	0.1	x	x	
<i>Goodenia triodiophila</i>	20	0.1	x	x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	10	0.1	x		
<i>Hakea lorea</i> subsp. <i>lorea</i>	170	0.1	x	x	
<i>Haloragis maierae</i>	10	0.1	x	x	
<i>Hibiscus coatesii</i>	10	0.1	x	x	
<i>Pluchea tetranthera</i>	20	0.1		x	
<i>Polymeria ambigua</i>	10	0.1	x		
<i>Portulaca oleracea</i>	5	0.1	x		
<i>Ptilotus astrolasius</i>	20	0.1		x	
<i>Ptilotus auriculifolius</i>	15	0.1	x		
<i>Ptilotus axillaris</i>	5	0.1	x	x	
<i>Senna notabilis</i>	5	0.1	x	x	
<i>Senna symonii</i>	50	0.1	x	x	
<i>Solanum chippendalei</i>	10	0.1		x	
<i>Streptoglossa bubakii</i>	5	0.1	x	x	
<i>Streptoglossa decurrens</i>	20	0.1		x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	5	0.1	x		
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	2	0.1		x	
<i>Tribulus hirsutus</i>	10	0.1	x	x	
<i>Trigastrotheca molluginea</i>	10	0.1	x	x	
<i>Triodia chichesterensis</i>	5	0.1	x	x	P3
<i>Triodia lanigera</i>	15	0.1	x	x	
<i>Triodia wiseana</i>	30	15	x	x	

FLORA SITE SHEET

Site: NSW32
Project Name: Turner River West
Location: -21.22683 Lat 118.75714 Lon

Phase 1

Described by: [REDACTED]
 Date: 04-04-2023

Phase 2

Described by: [REDACTED]
 Date: 20-08-2023

Type: RELEVÉ 50 x 50
Landform: Drainage
Slope: Gentle, Flat
Rock Type: Granite, Quartz
Soil Type: Sand
Soil Colour: Light Brown



Vegetation: *Eucalyptus camaldulensis* subsp. *refulgens* low open woodland over *Acacia trachycarpa* and *A. tumida* var. *pilbarensis* tall closed shrubland over *Heteropogon contortus* low sparse tussock grassland and *Triodia epactia* low open hummock grassland

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 1-5 years

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	70	0.1	x	x	
<i>Acacia eriopoda</i>	400	1	x	x	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	50	0.1	x	x	
<i>Acacia trachycarpa</i>	600	20	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	700	7	x	x	
<i>Afrohybanthus aurantiacus</i>	50	0.1	x	x	
<i>Aristida hygrometrica</i>	40	0.1	x	x	
<i>Aristida latifolia</i>	60	0.1	x	x	
<i>Arivela viscosa</i>	20	0.1	x	x	
<i>Boerhavia coccinea</i>	5	0.1	x		
<i>Cajanus pubescens</i>	20	0.1		x	
<i>Calandrinia stagnensis</i>	3	0.1	x		
<i>Cassya capillaris</i>	20	0.1		x	
* <i>Cenchrus ciliaris</i>	50	10	x	x	
* <i>Cenchrus setiger</i>	50	5	x	x	
<i>Chrysopogon fallax</i>	50	0.1		x	
<i>Corchorus</i> sp.	30	0.1		x	
<i>Crotalaria cunninghamii</i> subsp. <i>cunninghamii</i>	70	0.1	x	x	
<i>Cullen leucanthum</i>	70	0.1	x	x	
<i>Cymbopogon ambiguus</i>	80	0.1		x	
<i>Cyperus xiphioides</i>	60	0.1		x	
<i>Eragrostis cumingii</i>	10	0.1		x	
<i>Eriachne tenuiculmis</i>	60	0.1	x	x	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	900	7	x	x	
<i>Eulalia aurea</i>	60	2	x	x	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	5	0.1	x	x	
<i>Euphorbia trigonosperma</i>	15	0.1	x		
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	80	0.1	x	x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	20	0.1	x	x	
<i>Goodenia lamprosperma</i>	20	0.1	x	x	
<i>Gossypium robinsonii</i>	180	7	x	x	
<i>Heliotropium crispatum</i>	20	0.1	x		
<i>Heteropogon contortus</i>	80	5	x	x	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	40	0.1	x	x	
<i>Ipomoea polymorpha</i>	5	0.1	x		
<i>Nellica maderaspatensis</i>	20	0.1	x		
<i>Panicum australiense</i> var. <i>australiense</i>	5	0.1	x		
<i>Panicum decompositum</i>	50	0.1		x	
<i>Petalostylis labicheoides</i>	150	2	x	x	
<i>Pluchea rubelliflora</i>	20	0.1	x	x	
<i>Pterocaulon</i> sp.	20	0.1	x	x	
<i>Ptilotus fusiformis</i>	20	0.1		x	
<i>Senna notabilis</i>	5	0.1	x		
<i>Senna venusta</i>	60	0.1	x	x	
<i>Solanum chippendalei</i>	60	0.1		x	
<i>Solanum diversiflorum</i>	30	0.1	x	x	
<i>Sporobolus australasicus</i>	10	0.1		x	
<i>Stemodia viscosa</i>	20	0.1	x	x	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	5	0.1	x		
<i>Tephrosia rosea</i> var. <i>clementii</i>	70	0.1	x	x	
<i>Tribulus macrocarpus</i>	10	0.1	x		
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	30	0.1	x	x	
<i>Triodia epactia</i>	70	13	x	x	
<i>Triodia lanigera</i>	20	0.1		x	
<i>Triumfetta ramosa</i>	80	0.1	x	x	
<i>Wahlenbergia tumidiflora</i>	30	0.1	x		
<i>Waltheria indica</i>	60	0.1	x	x	

FLORA SITE SHEET

Site: NSW33
Project Name Turner River West
Location -21.24703 Lat 118.75357 Lon

Phase 1
Described by: [REDACTED]
Date: 04-04-2023

Phase 2
Described by: [REDACTED]
Date: 20-08-2023

Type: RELEVÉ 50 x 50
Landform: Granite outcropping
Slope: Gentle
Rock Type: Granite
Soil Type: Clay, Sand
Soil Colour: Light Brown, Orange



Vegetation: *Acacia tumida* var. *pilbarensis* tall sparse shrubland over *Triodia epactia* low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia maitlandii</i>	120	1	x	x	
<i>Acacia orthocarpa</i>	300	1	x	x	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	500	5	x	x	
<i>Afrohybanthus aurantiacus</i>	30	0.1	x	x	
<i>Aristida contorta</i>	10	0.1	x	x	
<i>Arivela viscosa</i>	50	0.1	x	x	
<i>Bonamia pannosa</i>	5	0.1	x	x	
<i>Bulbostylis barbata</i>	10	0.1	x	x	
<i>Cymbopogon ambiguus</i>	60	0.1	x	x	
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	50	0.1	x	x	
<i>Eriachne aristidea</i>	5	0.1		x	
<i>Eriachne mucronata</i>	30	0.1	x	x	
<i>Eriachne obtusa</i>	10	0.1	x	x	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	10	0.1	x	x	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	20	0.1	x	x	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	10	0.1	x	x	
<i>Fimbristylis dichotoma</i>	10	0.1	x	x	
<i>Gomphrena cunninghamii</i>	20	0.1	x	x	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	5	0.1	x	x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	30	0.1	x	x	
<i>Indigofera monophylla</i>	50	0.1	x	x	
<i>Mitrasacme connata</i>	10	0.1	x		
<i>Nicotiana umbratica</i>	20	0.1	x	x	P3
<i>Paspalidium clementii</i>	30	0.1	x	x	
<i>Perotis rara</i>	5	0.1	x		
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	5	0.1	x	x	
<i>Polycarpaea holtzei</i>	5	0.1	x	x	
<i>Polycarpaea longiflora</i>	10	0.1	x	x	
<i>Polygala galeocephala</i>	5	0.1	x		
<i>Portulaca digyna</i>	1	0.1	x		Range extension
<i>Solanum chippendalei</i>	50	0.1	x	x	
<i>Solanum cleistogamum</i>	30	0.1	x	x	
<i>Solanum gabrielae</i>	30	0.1	x	x	
<i>Tephrosia rosea</i> var. <i>clementii</i>	50	0.1	x	x	
<i>Tephrosia virens</i>	70	0.1	x	x	
<i>Tinospora smilacina</i>	50	0.1	x	x	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	10	0.1	x		
<i>Tribulus suberosus</i>	60	0.1	x	x	
<i>Triodia epactia</i>	50	28	x	x	
<i>Tripogonella loliiformis</i>	5	0.1	x	x	
<i>Zornia muelleriana</i> subsp. <i>congesta</i>	5	0.1	x	x	Range extension

FLORA SITE SHEET

Site: NSWQ34
Project Name Turner River West
Location -21.24848 Lat 118.75294 Lon

Phase 1
Described by: [REDACTED]
Date: 04-04-2023

Phase 2
Described by: [REDACTED]
Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Semi granite plains
Slope: Gentle
Rock Type: Granite
Soil Type: Clay,Sand
Soil Colour: Light Brown



Vegetation: *Acacia orthocarpa* tall open shrubland over *Triodia epactia* (*T. lanigera*) low hummock grassland

Condition: Excellent
Fire Age: > 5 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia maitlandii</i>	120	0.1	x	x	
<i>Acacia orthocarpa</i>	300	20	x	x	
<i>Acacia stellaticeps</i>	50	0.1	x	x	
<i>Bonamia pannosa</i>	5	0.1	x		
<i>Bulbostylis barbata</i>	5	0.1	x	x	
<i>Euphorbia boophthona</i>	20	0.1	x		
<i>Fimbristylis dichotoma</i>	20	0.1	x	x	
<i>Indigofera monophylla</i>	30	0.1	x	x	
<i>Triodia epactia</i>	40	40	x	x	
<i>Triodia lanigera</i>	40	15	x	x	

FLORA SITE SHEET

Site: NSWQ35
Project Name: Turner River West
Location: -21.20001 Lat 118.73570 Lon

Phase 1

Described by: N/A
 Date: Established phase 2

Phase 2

Described by: [REDACTED]
 Date: 20-08-2023

Type: QUADRAT 50 x 50
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia schinzii* low hummock grassland

Condition: Very Good
Fire Age: 1-5 years
Disturbance Type: Fauna tracks/scats

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia acradenia</i>	50	0.1		x	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	70	0.1		x	
<i>Afrohybanthus aurantiacus</i>	10	0.1		x	
<i>Aristida holathera</i> var. <i>holathera</i>	10	0.1		x	
<i>Bonamia erecta</i>	20	0.1		x	
<i>Chrysopogon fallax</i>	20	0.1		x	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	30	0.1		x	
<i>Corymbia hamersleyana</i>	500	6		x	
<i>Cyperus blakeanus</i>	20	0.1		x	
<i>Dolichandrone occidentalis</i>	150	2		x	
<i>Eragrostis dielsii</i>	10	0.1		x	
<i>Eragrostis leptocarpa</i>	10	0.1		x	
<i>Euploca pachyphylla</i>	20	0.1		x	
<i>Goodenia microptera</i>	20	0.1		x	
<i>Gossypium australe</i>	30	0.1		x	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	100	0.1		x	
<i>Heteropogon contortus</i>	50	0.1		x	
<i>Hibiscus leptocladus</i>	30	0.1		x	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	20	0.1		x	
<i>Indigofera monophylla</i>	30	0.1		x	
<i>Isotropis atropurpurea</i>	20	0.1		x	
<i>Paraneurachne muelleri</i>	20	0.1		x	
<i>Ptilotus axillaris</i>	20	0.1		x	
<i>Ptilotus fusiformis</i>	30	0.1		x	
<i>Scaevola amblyanthera</i>	10	0.1		x	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	20	0.1		x	
<i>Senna artemisioides</i> subsp. <i>helmsii</i>	30	0.1		x	
<i>Senna notabilis</i>	30	0.1		x	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	10	0.1		x	
<i>Solanum chippendalei</i>	60	0.1		x	
<i>Solanum diversiflorum</i>	50	0.1		x	
<i>Sporobolus australasicus</i>	5	0.1		x	
<i>Streptoglossa decurrens</i>	30	0.1		x	
<i>Tephrosia rosea</i> var. <i>clementii</i>	50	0.1		x	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	20	0.1		x	
<i>Trigastrotheca molluginea</i>	10	0.1		x	
<i>Triodia longiceps</i>	20	0.5		x	
<i>Triodia schinzii</i>	40	25		x	

FLORA SITE SHEET

Site: NSWQ36
Project Name Turner River West
Location -21.22649 Lat 118.79510 Lon

Phase 1
 Described by: N/A
 Date: Established phase 2

Phase 2
 Described by: [REDACTED]
 Date: 21-08-2023

Type: QUADRAT 50 x 50
Landform: Plains
Slope: Flat
Rock Type: Calcrete
Soil Type: Clay,Loam
Soil Colour: Beige



Vegetation: *Acacia inaequalatera* and *A. bivenosa* tall sparse shrubland over *Triodia wiseana* low hummock grassland

Condition: Excellent
Fire Age: 5-10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	350	2		x	
<i>Acacia colei</i> var. <i>colei</i>	170	0.1		x	
<i>Acacia inaequalatera</i>	350	2		x	
<i>Acacia maitlandii</i>	300	0.1		x	
<i>Cassytha capillaris</i>	20	0.5		x	
<i>Corchorus</i> sp.	60	0.1		x	
<i>Corymbia hamersleyana</i>	400	0.1		x	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	60	0.1		x	
<i>Pluchea ferdinandi-muelleri</i>	50	0.1		x	
<i>Polygala glaucifolia</i>	5	0.1		x	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>helmsii</i>	50	0.1		x	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	200	0.1		x	
<i>Senna notabilis</i>	20	0.1		x	
<i>Solanum chippendalei</i>	40	0.1		x	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	40	0.1		x	
<i>Triodia wiseana</i>	40	55		x	

FLORA SITE SHEET

Site: NSW37
Project Name Turner River West
Location -21.22855 Lat 118.79515 Lon

Phase 1
 Described by: N/A
 Date: Established phase 2

Phase 2
 Described by: [REDACTED]
 Date: 21-08-2023

Type: RELEVÉ 50 x 50
Landform: Plains
Slope: Gentle
Rock Type: Quartz, Calcrete
Soil Type: Clay, Loam
Soil Colour: Beige



Vegetation: *Acacia inaequalatera* and *A. bivenosa* tall sparse shrubland over *Triodia wiseana* low hummock grassland

Condition: Very Good
Fire Age: 5-10 years
Disturbance Type: Infrastructure

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia bivenosa</i>	250	0.1		x	
<i>Acacia inaequilatera</i>	350	4		x	
<i>Acacia maitlandii</i>	200	0.1		x	
<i>Acacia orthocarpa</i>	160	0.1		x	
<i>Acacia orthocarpa x stellaticeps</i>	300	0.1		x	
<i>Cassytha capillaris</i>	20	0.1		x	
<i>Corchorus sp.</i>	30	0.1		x	
<i>Grevillea pyramidalis subsp. leucadendron</i>	80	0.1		x	
<i>Pluchea ferdinandi-muelleri</i>	40	0.1		x	
<i>Polycarpaea holtzei</i>	5	0.1		x	
<i>Senna glutinosa subsp. glutinosa</i>	100	0.1		x	
<i>Triodia lanigera</i>	30	0.1		x	
<i>Triodia wiseana</i>	35	35		x	

FLORA SITE SHEET

Site: NSWQ38
Project Name Turner River West
Location -21.20712 Lat 118.77442 Lon

Phase 1
 Described by: N/A
 Date: Established phase 2

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: QUADRAT 50 x 50
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia stellaticeps* mid open shrubland over *Triodia lanigera* mid closed hummock grassland

Condition: Excellent
Fire Age: Long unburnt
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia ancistrocarpa</i>	170	0.1		x	
<i>Acacia ancistrocarpa x stellaticeps</i>	140	1		x	
<i>Acacia stellaticeps</i>	120	15		x	
<i>Bonamia erecta</i>	30	0.1		x	
<i>Indigofera monophylla</i>	30	0.1		x	
<i>Pluchea tetranthera</i>	30	0.1		x	
<i>Triodia lanigera</i>	50	71		x	

FLORA SITE SHEET

Site: NSWQ39
Project Name Turner River West
Location -21.20661 Lat 118.77651 Lon

Phase 1
 Described by: N/A
 Date: Established phase 2

Phase 2
 Described by: [REDACTED]
 Date: 22-08-2023

Type: QUADRAT 50 x 50
Landform: Plains
Slope: Flat
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia ancistrocarpa* tall shrubland over *Triodia lanigera* mid hummock grassland

Condition: Excellent
Fire Age: Long unburnt
Disturbance Type: None

SPECIES LIST

Taxon	Height (cm)	Cover (%)	Phase		Notes
			Ph1	Ph2	
<i>Acacia ancistrocarpa</i>	250	31		x	
<i>Bonamia erecta</i>	20	0.1		x	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	70	0.1		x	
<i>Triodia lanigera</i>	50	50		x	

FLORA SITE SHEET

Site: NSAR01
Project Name: Turner River Additional
Location: -21.17826 Lat 118.76690 Long
Described by: [REDACTED]
Date: 22-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: 0
Rock Type: Ironstone
Soil Type: Clay
Soil Colour: Brown



Vegetation: *Acacia inaequilatera* and *Senna glutinosa* subsp. *glutinosa* tall isolated shrubs over *Triodia wiseana* low open hummock grassland and *Eriachne mucronata* low isolated tussock grasses

Condition: Very Good **Disturbance Type:** Weeds
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.2	0.1	
<i>Acacia ancistrocarpa</i>	1.9	0.1	
<i>Acacia inaequilatera</i>	2	0.1	
* <i>Aerva javanica</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Amaranthus undulatus</i>	0.3	0.1	
<i>Aristida burbiggeae</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Boerhavia coccinea</i>	0.2	0.1	
<i>Bothriochloa ewartiana</i>	0.5	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	1.5	0.1	
<i>Cucumis variabilis</i>	0.3	0.1	
<i>Cymbopogon ambiguus</i>	0.5	0.1	
<i>Enneapogon lindleyanus</i>	0.3	0.1	
<i>Eriachne melicacea</i>	0.1	0.1	
<i>Eriachne mucronata</i>	0.3	3	
<i>Gomphrena cunninghamii</i>	0.2	0.5	
<i>Gossypium australe</i>	0.5	0.5	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.9	0.1	
<i>Nicotiana benthamiana</i>	0.05	0.1	
<i>Paspalidium tabulatum</i>	0.1	0.1	
<i>Polymeria ambigua</i>	0.2	0.1	
<i>Ptilotus auriculifolius</i>	0.1	0.1	
<i>Rhodanthe margarethae</i>	0.2	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.8	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.5	
<i>Tephrosia virens</i>	0.5	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1	
<i>Tribulus suberosus</i>	0.5	0.1	
<i>Triodia wiseana</i>	0.3	11	

FLORA SITE SHEET

Site: NSAQ02
Project Name: Turner River Additional
Location: -21.17987 Lat 118.77039 Long
Described by: [REDACTED]
Date: 22-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Hakea lorea* subsp. *lorea* and *Grevillea wickhamii* subsp. *hispida* mid isolated shrubs over *Triodia schinzii* low open hummock grassland

Condition: Very Good **Disturbance Type:** Fauna Tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.3	0.1	
<i>Acacia ancistrocarpa</i>	1.5	0.1	
<i>Acacia stellaticeps</i>	0.6	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1.8	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Dolichandrone occidentalis</i>	0.6	1	
<i>Dolichocarpa crouchiana</i>	0.05	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia boophthona</i>	0.1	0.1	
<i>Euphorbia clementii</i>	0.15	0.1	Priority 3 (DBCA)
<i>Euploca chrysocarpa</i>	0.2	0.1	
<i>Euploca diversifolia</i>	0.1	0.1	
<i>Euploca mutica</i>	0.05	0.1	Priority 3 (DBCA)
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Gossypium australe</i>	0.25	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.2	0.1	
<i>Indigofera monophylla</i>	0.6	1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Pluchea tetranthera</i>	0.3	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.05	0.1	
<i>Polygala galeocephala</i>	0.15	0.1	RE
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus auriculifolius</i>	0.2	0.1	
<i>Ptilotus axillaris</i>	0.1	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Ptilotus fusiformis</i>	0.2	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Streptoglossa decurrens</i>	0.1	0.1	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.05	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Trianthema pilosum</i>	0.05	0.1	
<i>Tribulus hirsutus</i>	0.1	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia schinzii</i>	0.5	45	

FLORA SITE SHEET

Site: NSAR03
Project Name: Turner River Additional
Location: -21.17654 Lat 118.76911 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Hills
Slope: 0
Rock Type: Ironstone
Soil Type: Clay
Soil Colour: Brown



Vegetation: *Senna glutinosa* subsp. *glutinosa* low isolated shrubs over *Triodia wiseana* low open hummock grassland and *Eriachne mucronata* low isolated tussock grasses

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Weeds

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.1	0.1	
<i>Acacia acradenia</i>	1.7	0.1	
<i>Acacia inaequilatera</i>	1.5	0.1	
* <i>Aerva javanica</i>	0.4	0.1	
<i>Amaranthus undulatus</i>	0.2	0.1	
<i>Aristida burbridgeae</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Boerhavia coccinea</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	0.3	0.1	
<i>Enneapogon lindleyanus</i>	0.1	0.1	
<i>Eriachne mucronata</i>	0.3	1	
<i>Euphorbia</i> ? <i>boophthona</i>	0.1	0.1	
<i>Gomphrena cunninghamii</i>	0.2	0.5	
<i>Gossypium australe</i>	1	0.1	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.4	0.1	
<i>Nicotiana benthamiana</i>	0.05	0.1	
<i>Paspalidium tabulatum</i>	0.2	0.1	
<i>Rhodanthe margarethae</i>	0.2	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.5	
<i>Tephrosia densa</i>	0.1	0.1	
<i>Tinospora smilacina</i>	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Tribulus suberosus</i>	0.8	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triodia wiseana</i>	0.4	11	

FLORA SITE SHEET

Site: NSAQ04
Project Name: Turner River Additional
Location: -21.17445 Lat 118.77091 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 25 x 100 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* subsp. *pilbarensis* tall open shrubland over *Tridodia epactia* low isolated hummock grasses over mixed herbs

Condition: Very Good
Fire Age: 5-10 years
Disturbance Type: Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.5	0.1	
<i>Acacia inaequilatera</i>	1.8	0.1	
<i>Acacia maitlandii</i>	1.1	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	4	15	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.2	3	
<i>Bonamia erecta</i>	0.2	2	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Cajanus pubescens</i>	1.4	0.1	
* <i>Cenchrus ciliaris</i>	0.5	0.1	
<i>Chrysopogon fallax</i>	0.8	3	
<i>Corchorus parviflorus</i>	0.4	0.1	
<i>Corymbia hamersleyana</i>	5	0.5	
<i>Cucumis variabilis</i>	1	0.1	
<i>Dolichocarpa crouchiana</i>	0.1	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1	
<i>Enneapogon caeruleus</i>	0.1	0.1	
<i>Eriachne</i> ?sp. <i>Coongan Station</i>	0.2	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia clementii</i>	0.2	0.1	Priority 3 (DBCA)
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.5	0.1	
<i>Euphorbia trigonosperma</i>	0.2	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlams</i>	0.5	0.1	
<i>Indigofera monophylla</i>	0.5	0.1	
<i>Isotropis atropurpurea</i>	0.2	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Paraneurachne muelleri</i>	0.4	0.1	
<i>Paspalidium basicladum</i>	0.1	0.1	
<i>Paspalidium tabulatum</i>	0.2	0.1	
<i>Perotis rara</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	1.8	0.5	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Polygala glaucifolia</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.1	0.1	
<i>Ptilotus auriculifolius</i>	0.15	0.1	
<i>Ptilotus axillaris</i>	0.15	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Ptilotus fusiformis</i>	0.2	0.1	
<i>Senna notabilis</i>	0.05	0.1	
<i>Solanum chippendalei</i>	0.05	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	0.1	
<i>Trianthema pilosum</i>	0.02	0.1	
<i>Tribulus hirsutus</i>	0.2	0.1	
<i>Tribulus occidentalis</i>	0.02	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.3	0.1	
<i>Tridodia epactia</i>	0.5	29	
<i>Triumfetta chaetocarpa</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ05
Project Name: Turner River Additional
Location: -21.16914 Lat 118.77312 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea pyramidalis* tall isolated shrubs over *Triodia schinzii* (*T. epactia*) low open hummock grassland

Condition: Excellent
Fire Age: 5-10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Boerhavia coccinea</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.3	0.5	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
* <i>Cenchrus setiger</i>	0.3	0.1	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	5.5	2	
<i>Cucumis variabilis</i>	0.2	0.1	
<i>Cullen martinii</i>	0.4	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Eriachne obtusa</i>	0.15	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia clementii</i>	0.1	0.1	Priority 3 (DBCA)
<i>Euphorbia trigonosperma</i>	0.05	0.1	
<i>Euploca diversifolia</i>	0.05	0.1	
<i>Euploca mutica</i>	0.05	0.1	Priority 3 (DBCA)
<i>Gomphrena cunninghamii</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.05	0.1	
<i>Gossypium australe</i>	0.3	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2	0.5	
<i>Heliotropium crispatum</i>	0.1	0.1	
<i>Hibiscus leptocladus</i>	0.3	0.1	
<i>Hibiscus sturtii</i> var. <i>?platychlamys</i>	0.05	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Isotropis atropurpurea</i>	0.1	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.5	0.1	
<i>Pluchea tetranthera</i>	0.2	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Portulaca oleracea</i>	0.1	0.1	
<i>Ptilotus axillaris</i>	0.1	0.1	
<i>Ptilotus clementii</i>	0.9	0.1	
<i>Ptilotus fusiformis</i>	0.5	0.1	
<i>Solanum diversiflorum</i>	0.1	0.1	
<i>Stemodia viscosa</i>	0.4	0.1	
<i>Streptoglossa decurrens</i>	0.05	0.1	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.05	0.1	
<i>Tinospora smilacina</i>	0.1	0.1	
<i>Trianthema pilosum</i>	0.05	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.5	5	
<i>Triodia lanigera</i>	0.3	0.1	
<i>Triodia schinzii</i>	0.6	32	
<i>Triumfetta chaetocarpa</i>	0.4	0.1	
<i>Triumfetta maconochieana</i>	0.05	0.1	
<i>Zornia albiflora</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ06
Project Name Turner River Additional
Location -21.17045 Lat 118.76904 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Ironstone
Soil Type: Clay,Sand
Soil Colour: Brown



Vegetation: *Acacia acradenia* (*A. ancistrocarpa*) mid to tall open shrubland over *Triodia lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.4	8	
<i>Acacia ancistrocarpa</i>	1.5	2	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.1	
<i>Bonamia erecta</i>	0.05	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Chrysopogon fallax</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Fimbristylis simulans</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Goodenia muelleriana</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.1	
<i>Petalostylis labicheoides</i>	1	0.1	
<i>Ptilotus calostachyus</i>	0.05	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triodia lanigera</i>	0.3	25	
<i>Triodia wiseana</i>	0.4	1	

FLORA SITE SHEET

Site: NSAQ07
Project Name: Turner River Additional
Location: -21.16788 Lat 118.76503 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia stellaticeps* low open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia stellaticeps</i>	1.2	12	
<i>Bonamia alatisemina</i>	0.03	0.1	
<i>Corchorus parviflorus</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	1.5	0.1	
<i>Goodenia microptera</i>	0.02	0.1	
<i>Indigofera monophylla</i>	0.1	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Pluchea tetranthera</i>	0.8	0.1	
<i>Polymeria</i> sp. <i>stoloniferous</i>	0.02	0.1	SOI
<i>Triodia lanigera</i>	0.3	35	

FLORA SITE SHEET

Site: NSAQ08
Project Name: Turner River Additional
Location: -21.17047 Lat 118.76210 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia ancistrocarpa*, *A. inaequilatera*, and *Grevillea wickhamii* subsp. *hispida* tall isolated shrubs over *A. stellaticeps* low isolated shrubs over *Triodia schinzii* low hummock grassland

Condition: Very Good **Disturbance Type:** Infrastructure
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.2	0.1	
<i>Acacia ancistrocarpa</i>	2.5	0.5	
<i>Acacia inaequilatera</i>	2	0.5	
<i>Acacia stellaticeps</i>	0.5	1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.2	0.5	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Cajanus marmoratus</i>	0.1	0.1	
<i>Chrysopogon fallax</i>	0.8	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corchorus tectus</i>	1	0.1	
<i>Cyperus blakeanus</i>	0.3	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.2	0.1	
<i>Eragrostis eriopoda</i>	0.3	0.1	
<i>Eriachne</i> ?sp. Coongan Station	0.3	0.1	
<i>Euploca mutica</i>	0.1	0.1	Priority 3 (DBCA)
<i>Goodenia microptera</i>	0.2	0.1	
<i>Gossypium australe</i>	0.4	0.1	
<i>Indigofera monophylla</i>	0.3	0.5	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus auriculifolius</i>	0.2	0.1	
<i>Ptilotus axillaris</i>	0.2	0.1	
<i>Ptilotus fusiformis</i>	0.1	0.1	
<i>Ptilotus helipteroides</i>	0.1	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.3	0.1	
<i>Tribulus hirsutus</i>	0.2	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.2	0.1	
<i>Triodia lanigera</i>	0.4	2	
<i>Triodia schinzii</i>	0.3	30	
<i>Triumfetta chaetocarpa</i>	0.2	0.1	

FLORA SITE SHEET

Site: NSAR09
Project Name: Turner River Additional
Location: -21.13695 Lat 118.79564 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Granite
Soil Type: Clay
Soil Colour: Brown, Orange



Vegetation: *Acacia tumida* var. *pilbarensis* tall isolated shrubs over *Triodia epactia* low isolated hummock grasses over *Eriachne mucronata* and *E. obtusa* low isolated tussock grasses

Condition: Very Good **Disturbance Type:** Weeds, Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.2	0.1	
<i>Acacia eriopoda</i>	1	0.1	
<i>Acacia maitlandii</i>	1	0.1	
<i>Acacia orthocarpa</i>	2.5	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	3.5	2	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Amaranthus undulatus</i>	0.2	0.1	
<i>Aristida contorta</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia tepperiana</i>	0.05	0.1	
* <i>Cenchrus ciliaris</i>	0.4	0.5	
<i>Cheilanthes brownii</i>	0.1	0.1	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1	
<i>Cymbopogon ambiguus</i>	0.5	0.1	
<i>Cynanchum viminalis</i> subsp. <i>australe</i>	0.6	0.1	
<i>Cyperus hesperius</i>	0.2	0.1	
<i>Enneapogon lindleyanus</i>	0.3	0.1	
<i>Eriachne ciliata</i>	0.1	0.1	
<i>Eriachne mucronata</i>	0.3	0.5	
<i>Eriachne obtusa</i>	0.2	0.5	
<i>Euploca tenuifolia</i>	0.1	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.05	0.1	
<i>Ficus virens</i> var. <i>virens</i>	1	0.1	
<i>Gomphrena cunninghamii</i>	0.05	0.1	
<i>Indigofera colutea</i>	0.05	0.1	
<i>Mnesithea formosa</i>	0.05	0.1	
<i>Nicotiana umbratica</i>	0.05	0.1	
* <i>Opuntia ?stricta</i>	1.5	0.1	
<i>Polycarpaea longiflora</i>	0.3	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Tephrosia</i> sp. <i>B Kimberley Flora</i> (C.A. Gardner 7300)	0.6	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.3	2	
<i>Triumfetta ramosa</i>	0.5	0.1	

Priority 3 (DBCA)

FLORA SITE SHEET

Site: NSAQ10
Project Name: Turner River Additional
Location: -21.13924 Lat 118.79415 Long
Described by: [REDACTED]
Date: 23-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: Siltstone
Soil Type: Sand
Soil Colour: Beige



Vegetation: *Melaleuca argentea* and *Eucalyptus camaldulensis* subsp. *refulgens* low to mid open woodland over *M. glomerata* and *M. linifolia* mid isolated shrubs

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Weeds, Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ampliceps</i>	1.2	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Calandrinia tepperiana</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
* <i>Cenchrus setiger</i>	0.3	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1	0.1	
<i>Cynanchum floribundum</i>	1	0.1	
<i>Cyperus ixiocarpus</i>	0.2	0.1	
<i>Cyperus vaginatus</i>	0.5	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	7	1	
<i>Euphorbia trigonosperma</i>	0.2	0.1	
<i>Ipomoea muelleri</i>	0.2	0.1	
<i>Melaleuca argentea</i>	9	15	
<i>Melaleuca glomerata</i>	0.7	0.5	
<i>Melaleuca linophylla</i>	1.5	1	
<i>Microstachys chamaelea</i>	0.2	0.1	
<i>Nelica maderaspatensis</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	1	0.1	
<i>Sesbania cannabina</i>	0.3	0.1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.05	0.1	
<i>Wahlenbergia tumidifructa</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ11
Project Name: Turner River Additional
Location: -21.17797 Lat 118.82141 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Melaleuca argentea* and *Eucalyptus camaldulensis* subsp. *refulgens* low to mid open woodland over *Atalaya hemiglauc*a, *M. glomerata*, and *M. linifolia* mid isolated shrubs over *Cenchrus* spp. low open tussock grassland
Condition: Degraded **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon ?amplum</i>	0.05	0.1	
<i>Acacia ampliceps</i>	2	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	5	0.5	
<i>Acacia trachycarpa</i>	4	1	
* <i>Aerva javanica</i>	0.3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Atalaya hemiglauc</i> a	6	0.5	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia tepperiana</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.5	20	
* <i>Cenchrus setiger</i>	0.5	5	
<i>Corchorus ?lasiocarpus</i>	0.05	0.1	
<i>Corchorus tridens</i>	0.05	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.1	0.1	
<i>Cucumis variabilis</i>	0.5	0.1	
<i>Cyperus squarrosus</i>	0.1	0.1	
<i>Cyperus vaginatus</i>	0.7	0.1	
<i>Dactyloctenium radulans</i>	0.1	0.1	
<i>Dolichocarpa crouchiana</i>	0.1	0.1	
<i>Eriachne benthamii</i>	0.7	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	9	3	
<i>Eulalia aurea</i>	0.6	0.5	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.3	0.1	
<i>Euphorbia trigonosperma</i>	0.3	0.1	
<i>Euploca cunninghamii</i>	0.1	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.3	0.1	
<i>Melaleuca argentea</i>	9	4	
<i>Melaleuca glomerata</i>	5	5	
<i>Melaleuca linophylla</i>	3.5	1	
<i>Nellica maderaspatensis</i>	0.3	0.1	
<i>Pluchea rubelliflora</i>	0.15	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Sesbania cannabina</i>	0.5	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Stemodia grossa</i>	0.3	0.1	
<i>Themeda triandra</i>	0.5	0.1	
<i>Triodia angusta</i>	0.4	1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Wahlenbergia tumidifructa</i>	0.2	0.1	

FLORA SITE SHEET

Site: NSAQ12
Project Name: Turner River Additional
Location: -21.17492 Lat 118.81868 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Beige



Vegetation: *Melaleuca argentea* and *Eucalyptus camaldulensis* subsp. *refulgens* low to mid open woodland over *M. glomerata* and *M. linifolia* mid isolated shrubs

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Grazing, Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia trachycarpa</i>	1.8	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Cajanus pubescens</i>	0.2	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.5	0.1	
<i>Cucumis variabilis</i>	0.3	0.1	
<i>Cymbopogon ambiguus</i>	0.8	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	8.5	7	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Melaleuca argentea</i>	8	5	
<i>Melaleuca glomerata</i>	1.9	2	
<i>Melaleuca linophylla</i>	1.8	2	
<i>Microstachys chamaelea</i>	0.4	0.1	
<i>Peripleura virgata</i>	0.2	0.1	
<i>Rhynchosia minima</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ13
Project Name: Turner River Additional
Location: -21.17289 Lat 118.81970 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Beige,Orange



Vegetation: *Eucalyptus camaldulensis* subsp. *refulgens* mid open woodland over *Melaleuca glomerata*, *M. linifolia*, and *Acacia trachycarpa* tall open shrubland over *Cenchrus* spp. low open tussock grassland

Condition: Degraded **Disturbance Type:** Weeds,Grazing,Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon ?amplum</i>	0.05	0.1	
<i>Acacia ampliceps</i>	1.7	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	7	1	
<i>Acacia trachycarpa</i>	3	2	
* <i>Aerva javanica</i>	0.3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Amaranthus undulatus</i>	0.05	0.1	
<i>Ammannia</i> sp.	0.05	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Atalaya hemiglauca</i>	6	5	
<i>Calandrinia tepperiana</i>	0.05	0.1	
* <i>Cenchrus ciliaris</i>	0.4	20	
* <i>Cenchrus setiger</i>	0.4	5	
<i>Chrysopogon fallax</i>	0.7	0.1	
<i>Corchorus incanus</i> subsp. <i>incanus</i>	0.7	0.1	
<i>Corchorus tridens</i>	0.05	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	1	0.1	
<i>Cucumis variabilis</i>	0.3	0.1	
<i>Cyperus bifax</i>	0.3	0.5	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Cyperus vaginatus</i>	0.5	0.1	
<i>Eragrostis cumingii</i>	0.3	0.1	
<i>Eriachne benthamii</i>	0.5	0.1	
<i>Eriachne obtusa</i>	0.2	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	11	3	
<i>Eulalia aurea</i>	0.5	2	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia biconvexa</i> / <i>trigonosperma</i>	0.3	0.1	
<i>Euploca tenuifolia</i>	0.1	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.05	0.1	
<i>Fimbristylis microcarya</i>	0.3	0.1	
<i>Flueggea virosa</i> subsp. <i>melanthesoides</i>	1	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.1	0.1	
<i>Ipomoea muelleri</i>	0.3	0.1	
<i>Melaleuca glomerata</i>	7	1	
<i>Melaleuca glomerata</i>	6	15	
<i>Melaleuca linophylla</i>	3	0.1	
<i>Nellica maderaspatensis</i>	0.3	0.1	
* <i>Opuntia ?stricta</i>	1.5	0.1	
<i>Pluchea rubelliflora</i>	0.2	0.1	
<i>Polycarpaea longiflora</i>	0.1	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Pterocaulon</i> sp.	0.05	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Sesbania cannabina</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Stemodia grossa</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.4	0.1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.15	0.1	
<i>Wahlenbergia tumidiflora</i>	0.3	0.1	

FLORA SITE SHEET

Site: **NSAQ14**
Project Name Turner River Additional
Location -21.17453 **Lat** 118.82374 **Long**
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Ironstone
Soil Type: Clay, Sand
Soil Colour: Orange



Vegetation: *Acacia orthocarpa* and *A. ancistrocarpa* mid open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	4	
<i>Acacia orthocarpa</i>	2.5	35	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Euphorbia boophthona</i>	1.6	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.05	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Triodia lanigera</i>	0.3	31	
<i>Triodia wiseana</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSAQ15
Project Name: Turner River Additional
Location: -21.17870 Lat 118.82918 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Clay
Soil Colour: Beige



Vegetation: *Corymbia hamersleyana* low isolated trees over *Triodia chichesterensis* low hummock grassland

Condition: Excellent
Fire Age: 5-10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	0.6	0.1	
<i>Acacia bivenosa</i>	1	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	5	1	
<i>Euploca chrysocarpa</i>	0.2	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	0.3	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.3	0.1	
<i>Nellica maderaspatensis</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.1	0.1	
<i>Solanum chippendalei</i>	0.2	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.05	0.1	
<i>Triodia chichesterensis</i>	0.15	40	Priority 3 (DBCA)
<i>Triodia wiseana</i>	0.2	0.1	

FLORA SITE SHEET

Site: NSAR16
Project Name: Turner River Additional
Location: -21.18273 Lat 118.83144 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: Siltstone
Soil Type: Sand
Soil Colour: Beige, Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia ancistrocarpa* and *A. acradenia* (*A. bivenosa*) tall isolated shrubs over *Triodia angusta* and *T. lanigera* low hummock grassland

Condition: Very Good **Disturbance Type:** Weeds, Grazing
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2	1	
<i>Acacia ancistrocarpa</i>	1.2	1	
<i>Acacia bivenosa</i>	1.7	0.1	
<i>Acacia stellaticeps</i>	0.6	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.3	0.1	
<i>Cajanus pubescens</i>	1.4	0.1	
<i>Cassylia capillaris</i>	0.3	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	4	3	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Euphorbia biconvexa</i> / <i>trigonosperma</i>	0.2	0.1	
<i>Euploca chrysocarpa</i>	0.2	0.1	
<i>Goodenia forrestii</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Heteropogon contortus</i>	0.8	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.7	0.1	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Ptilotus axillaris</i>	0.3	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.2	0.1	
<i>Senna notabilis</i>	0.3	0.1	
<i>Senna symonii</i>	1.3	0.1	
<i>Themeda triandra</i>	0.5	0.5	
<i>Triodia angusta</i>	0.3	20	
<i>Triodia lanigera</i>	0.3	0.5	

FLORA SITE SHEET

Site: NSAQ17
Project Name: Turner River Additional
Location: -21.17201 Lat 118.83336 Long
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Quartz
Soil Type: Clay
Soil Colour: Beige



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia bivenosa* (*A. orthocarpa*) tall isolated shrubs over *Triodia chichesterensis* low hummock grassland

Condition: Very Good **Disturbance Type:** Litter, Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.5	0.1	
<i>Acacia bivenosa</i>	2.5	0.5	
<i>Acacia orthocarpa</i>	2	0.1	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Bonamia pilbarensis</i> (tight indumentum form)	0.1	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	5.5	4	
<i>Euploca chrysocarpa</i>	0.3	0.1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.8	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.2	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.05	0.1	
<i>Triodia chichesterensis</i>	0.2	40	Priority 3 (DBCA)
<i>Triodia wiseana</i>	0.3	0.1	

FLORA SITE SHEET

Site: **NSAQ18**
Project Name Turner River Additional
Location -21.16671 **Lat** 118.83427 **Long**
Described by: [REDACTED]
Date: 24-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia ancistrocarpa* mid open shrubland over *Triodia lanigera* (*T. wiseana*) low open hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats, Infrastructure
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.8	7	
<i>Acacia orthocarpa</i>	1.7	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.3	0.1	
<i>Triodia lanigera</i>	0.3	30	
<i>Triodia wiseana</i>	0.3	5	

FLORA SITE SHEET

Site: NSAQ19
Project Name: Turner River Additional
Location: -21.14771 Lat 118.81074 Long
Described by: [REDACTED]
Date: 25-04-2024
Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: 0
Rock Type: Quartz, Calcrete
Soil Type: Clay, Gravel
Soil Colour: Beige



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia inaequilatera* mid open shrubland over *Triodia chichesterensis* (*T. wiseana*) low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	0.2	0.1	
<i>Acacia inaequilatera</i>	1.8	2	
<i>Acacia orthocarpa</i>	1	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	4.5	2	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.1	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.2	0.1	
<i>Senna symonii</i>	0.7	0.1	
<i>Tephrosia clementii</i>	0.1	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.2	0.1	
<i>Tephrosia</i> sp. NW Eremaean (<i>S. van Leeuwen et al. PBS</i>)	0.05	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Triodia chichesterensis</i>	0.15	40	Priority 3 (DBCA)
<i>Triodia wiseana</i>	0.3	1	

FLORA SITE SHEET

Site: NSAR20
Project Name: Turner River Additional
Location: -21.14957 Lat 118.80705 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: QUADRAT 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Granite
Soil Type: Clay
Soil Colour: Orange



Vegetation: *Acacia tumida* var. *pilbarensis* and *Petalostylis labichioides* (*A. maitlandii*) low open shrubland over *Triodia epactia* low open hummock grassland over mixed herbs

Condition: Very Good **Disturbance Type:** Weeds
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.2	0.1	
<i>Acacia maitlandii</i>	1.4	0.5	
<i>Acacia orthocarpa</i>	1.7	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	1	0.5	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Amaranthus</i> aff. <i>interruptus</i>	0.1	0.1	SOI
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia pannosa</i>	0.05	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.03	0.5	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Cucumis variabilis</i>	0.3	0.1	
<i>Cymbopogon ambiguus</i>	0.4	0.1	
<i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i>	0.3	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Eriachne mucronata</i>	0.3	0.5	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Gomphrena cunninghamii</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.5	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.3	0.1	
<i>Indigofera colutea</i>	0.1	0.1	
<i>Nicotiana umbratica</i>	0.05	0.1	Priority 3 (DBCA)
<i>Paspalidium clementii</i>	0.1	0.1	
<i>Petalostylis labicheoides</i>	2	1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Polycarpaea longiflora</i>	0.1	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Solanum horridum</i>	0.3	0.1	
<i>Tephrosia virens</i>	0.3	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	11	
<i>Triodia lanigera</i>	0.3	1	
<i>Triumfetta maconochieana</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSAQ21
Project Name: Turner River Additional
Location: -21.14820 Lat 118.80236 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown,Orange



Vegetation: *Eucalyptus camaldulensis* subsp. *refulgens* mid open woodland over *Acacia coriacea* subsp. *pendens*, *Melaleuca glomerata*, and *M. linifolia* tall shrubland over *Cenchrus* spp. low open tussock grassland over mixed herbs
Condition: Degraded **Disturbance Type:** Weeds,Grazing,Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon ?amplum</i>	0.2	0.1	
<i>Acacia amplex</i>	4	0.5	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	8	5	
* <i>Aerva javanica</i>	0.3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Alternanthera denticulata</i>	0.2	0.1	
<i>Ammannia baccifera</i>	0.05	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Atalaya hemiglauc</i>	1.2	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Calandrinia stagnensis</i>	0.1	0.1	
<i>Calandrinia tepperiana</i>	0.05	0.1	
* <i>Calotropis procera</i>	0.5	0.1	
* <i>Cenchrus ciliaris</i>	0.3	15	
* <i>Cenchrus setiger</i>	0.3	5	
<i>Corchorus laniflorus</i>	0.1	0.1	
<i>Corchorus tridens</i>	0.2	0.1	
<i>Cucumis variabilis</i>	0.2	0.1	
<i>Cyperus bifax</i>	0.5	0.1	
<i>Cyperus squarrosus</i>	0.3	0.1	
<i>Cyperus vaginatus</i>	0.6	2	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Dysphania plantaginella</i>	0.1	0.1	
<i>Eragrostis cumingii</i>	0.2	0.1	
<i>Eriachne benthamii</i>	0.6	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	12	11	
<i>Eulalia aurea</i>	0.6	1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.2	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Fimbristylis microcarya</i>	0.1	0.1	
* <i>Flaveria trinervia</i>	0.1	0.1	
<i>Goodenia lamprosperma</i>	0.1	0.1	
<i>Ipomoea muelleri</i>	0.2	0.1	
<i>Ipomoea polymorpha</i>	0.3	0.1	
<i>Melaleuca glomerata</i>	5	20	
<i>Melaleuca linophylla</i>	2.5	7	
<i>Nellica maderaspatensis</i>	0.2	0.1	
* <i>Opuntia ?stricta</i>	0.5	0.1	
<i>Pluchea rubelliflora</i>	0.3	0.1	
<i>Polycarpaea longiflora</i>	0.2	0.1	
<i>Portulaca oleracea</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Sesbania cannabina</i>	0.1	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Sporobolus mitchellii</i>	0.3	1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Triodia epactia</i>	0.3	1	

FLORA SITE SHEET

Site: NSAR22
Project Name: Turner River Additional
Location: -21.14737 Lat 118.80538 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia orthocarpa* and *A. bivenosa* tall isolated shrubs over *Triodia epactia* low isolated hummock grasses over mixed isolated herbs

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	0.5	0.1	
<i>Acacia bivenosa</i>	1	0.5	
<i>Acacia eriopoda</i>	1.7	0.1	
<i>Acacia maitlandii</i>	0.3	0.1	
<i>Acacia orthocarpa</i>	2.5	2	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1	0.1	
<i>Acacia stellaticeps</i>	0.3	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Cajanus pubescens</i>	0.5	0.1	
<i>Cassyltha capillaris</i>	0.3	0.1	
<i>Chrysopogon fallax</i>	1	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	4.5	2	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Eriachne</i> ?sp. Coongan Station	0.2	0.1	
<i>Goodenia lamprosperma</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.2	0.1	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.15	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	0.3	0.1	
<i>Solanum chippendalei</i>	0.5	0.1	
<i>Stemodia grossa</i>	0.3	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.4	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.05	0.1	
<i>Triodia epactia</i>	0.3	11	
<i>Triodia lanigera</i>	0.3	1	
<i>Triumfetta chaetocarpa</i>	0.3	0.1	
<i>Triumfetta ramosa</i>	0.5	0.1	

FLORA SITE SHEET

Site: NSAR23
Project Name: Turner River Additional
Location: -21.14568 Lat 118.80529 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Granite
Soil Type: Clay, Gravel
Soil Colour: Orange



Vegetation: *Acacia tumida* var. *pilbarensis* (*A. orthocarpa*) tall isolated shrubs over *Triodia epactia* low isolated hummock grasses over *Eriachne mucronata* low isolated tussock grasses

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	1.2	0.1	
<i>Acacia orthocarpa</i>	1.8	1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	8	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Eriachne ciliata</i>	0.1	0.1	
<i>Eriachne mucronata</i>	0.3	0.5	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.8	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	8	
<i>Triodia lanigera</i>	0.3	2	

FLORA SITE SHEET

Site: NSAR24
Project Name: Turner River Additional
Location: -21.14465 Lat 118.80902 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia tumida* var. *pilbarensis* tall closed shrubland over *Triodia epactia* and *T. lanigera* low isolated hummock grasses

Condition: Very Good **Disturbance Type:**
Fire Age: 2-5 years Fauna tracks/scats

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.5	0.1	
<i>Acacia maitlandii</i>	0.3	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	80	
<i>Afrohybanthus aurantiacus</i>	0.3	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Cajanus pubescens</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	4	0.1	
<i>Dodonaea coriacea</i>	0.5	0.1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Euphorbia trigonosperma</i>	0.3	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.2	0.1	
<i>Isotropis atropurpurea</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	0.5	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Seringia exastia</i>	0.3	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.2	0.1	
<i>Triodia epactia</i>	0.3	6	
<i>Triodia lanigera</i>	0.3	1	
<i>Triodia wiseana</i>	0.3	0.1	
<i>Triumfetta chaetocarpa</i>	0.05	0.1	

FLORA SITE SHEET

Site: NSAQ25
Project Name: Turner River Additional
Location: -21.13801 Lat 118.81028 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Ironstone
Soil Type: Clay
Soil Colour: Orange



Vegetation: *Acacia acradenia* (*A. inaequilatera*) tall isolated shrubs over *Triodia wiseana* (*T. lanigera*) low hummock grassland

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Fauna tracks/scats, Infrastructure

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	40	
<i>Acacia inaequilatera</i>	2	0.5	
<i>Aristida holathera</i> var. <i>holathera</i>	0.2	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.3	0.1	
<i>Bonamia linearis</i>	0.1	0.1	
<i>Bonamia pilbarensis</i> (tight indumentum form)	0.05	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Cassytha capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.6	0.5	
<i>Dodonaea coriacea</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus auriculifolius</i>	0.1	0.1	
<i>Ptilotus fusiformis</i>	0.05	0.1	
<i>Senna notabilis</i>	0.05	0.1	
<i>Sida</i> sp. <i>Pilbara</i> (A.A. Mitchell PRP 1543)	0.15	0.1	
<i>Tephrosia</i> sp. <i>Bungaroo Creek</i> (M.E. Trudgen 11601)	0.05	0.1	
<i>Tribulus hirsutus</i>	0.2	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.3	1	
<i>Triodia wiseana</i>	0.3	35	

FLORA SITE SHEET

Site: NSAQ26
Project Name: Turner River Additional
Location: -21.14416 Lat 118.81070 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia acradenia*, *A. inaequilatera*, and *Petalostylis labicheoides* mid isolated shrubs over *Triodia lanigera* and *T. wiseana* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.8	2	
<i>Acacia ancistrocarpa</i>	1.2	0.1	
<i>Acacia inaequilatera</i>	1.8	0.5	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia pilbarensis</i>	0.1	0.1	
<i>Cassyltha capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Dampiera candidans</i>	0.2	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Euploca chrysocarpa</i>	0.3	0.1	
<i>Goodenia microptera</i>	0.4	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	1.5	1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Sida arenicola</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1	
<i>Triodia lanigera</i>	0.3	25	
<i>Triodia wiseana</i>	0.3	10	

FLORA SITE SHEET

Site: NSAR27
Project Name: Turner River Additional
Location: -21.13935 **Lat** 118.80218 **Long**
Described by: [REDACTED]
Date: 25-04-2024

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia maitlandii* and *A. tumida* var. *pilbarensis* tall open shrubland over *Triodia epactia* low open hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	2	8	
<i>Acacia orthocarpa</i>	2	2	
<i>Acacia stellaticeps</i>	0.3	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2	0.5	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Blumea tenella</i>	0.05	0.1	
<i>Boerhavia coccinea</i>	0.02	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Cassyltha capillaris</i>	0.1	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Chrysopogon fallax</i>	0.4	0.1	
<i>Corchorus parviflorus</i>	0.5	0.1	
<i>Corymbia hamersleyana</i>	3	0.5	
<i>Cucumis variabilis</i>	0.1	0.1	
<i>Cullen stipulaceum</i>	0.1	0.1	
<i>Cymbopogon ambiguus</i>	0.3	0.1	
<i>Cyperus squarrosus</i>	0.1	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.2	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Euploca chrysocarpa</i>	0.3	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Goodenia muelleriana</i>	0.1	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	1.8	0.1	
<i>Haloragis</i> sp.	0.1	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Nellica maderaspatensis</i>	0.1	0.1	
<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	0.1	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Paspalidium basicladum</i>	0.1	0.1	
<i>Petalostylis labicheoides</i>	1.7	0.1	
<i>Pluchea rubelliflora</i>	0.1	0.1	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Polymeria</i> sp. <i>stoloniferous</i>	0.05	0.1	SOI
<i>Pterocaulon</i> sp.	0.1	0.1	
<i>Ptilotus calostachyus</i>	0.5	0.1	
<i>Senna symonii</i>	1.6	0.1	
<i>Solanum chippendalei</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.02	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	31	
<i>Triodia wiseana</i>	0.4	2	
<i>Triumfetta chaetocarpa</i>	0.05	0.1	

FLORA SITE SHEET

Site: NSAR28
Project Name: Turner River Additional
Location: -21.13929 Lat 118.80149 Long
Described by: [REDACTED]
Date: 25-04-2024

Type: RELEVÉ 25 x 100 m
Landform: Hills
Slope: 0
Rock Type: Ironstone, Calcrete
Soil Type: Gravel
Soil Colour: Beige



Vegetation: *Acacia orthocarpa* tall open shrubland over *Triodia brizoides* low hummock grassland

Condition: Excellent
Fire Age: 5-10 years
Disturbance Type: None

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	1.5	0.5	
<i>Acacia orthocarpa</i>	2.5	15	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.3	0.1	
<i>Fimbristylis simulans</i>	0.05	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	1.5	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Portulaca oleracea</i>	0.02	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.4	0.1	
<i>Triodia brizoides</i>	0.3	40	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triodia wiseana</i>	0.3	0.1	

FLORA SITE SHEET

Site: NSAR29
Project Name: Turner River Additional
Location: -21.16518 Lat 118.78684 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: RELEVE 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Granite
Soil Type: Clay
Soil Colour: Beige, Orange



Vegetation: *Acacia eriopoda*, *A. maitlandii*, and *A. orthocarpa* tall isolated shrubs over *Triodia epactia* low isolated hummock grasses

Condition: Very Good **Disturbance Type:** Litter
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia eriopoda</i>	2	2	
<i>Acacia maitlandii</i>	2	1	
<i>Acacia orthocarpa</i>	2	4	
<i>Acacia stellaticeps</i>	0.3	0.1	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Aristida contorta</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Calandrinia stagnensis</i>	0.05	0.1	
<i>Calandrinia stagnensis</i>	0.02	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Dolichocarpa crouchiana</i>	0.05	0.1	
<i>Eragrostis cumingii</i>	0.05	0.1	
<i>Eriachne ciliata</i>	0.05	0.1	
<i>Eriachne melicacea</i>	0.05	0.1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.2	0.1	
<i>Euploca cunninghamii</i>	0.2	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Gomphrena cunninghamii</i>	0.1	0.1	
<i>Gomphrena leptoclada</i> subsp. <i>leptoclada</i>	0.2	0.1	
<i>Gonocarpus ephemerus</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.1	0.1	
<i>Isotropis atropurpurea</i>	0.2	0.1	
<i>Mitrasacme connata</i>	0.1	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.2	0.1	
<i>Paspalidium basicladum</i>	0.05	0.1	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.1	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Ptilotus auriculifolius</i>	0.3	0.1	
<i>Ptilotus fusiformis</i>	0.2	0.1	
<i>Senna notabilis</i>	0.1	0.1	
<i>Solanum chippendalei</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.1	0.1	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.2	0.1	
<i>Tribulus suberosus</i>	0.5	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	9	
<i>Triumfetta chaetocarpa</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAR30
Project Name: Turner River Additional
Location: -21.16632 Lat 118.79179 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: RELEVÉ 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Granite
Soil Type: Clay
Soil Colour: Orange



Vegetation: *Grevillea pyramidalis* subsp. *leucadendron* tall isolated shrubs over *Triodia wiseana* and *T. epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp.	0.1	0.1	
<i>Acacia maitlandii</i>	0.5	0.1	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1.7	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.05	0.1	
<i>Cullen leucochaetes</i>	1	0.1	
<i>Dampiera candidans</i>	0.2	0.1	
<i>Dolichocarpa crouchiana</i>	0.05	0.1	
<i>Eriachne mucronata</i>	0.3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Gossypium australe</i>	0.5	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	2.5	0.5	
<i>Hakea lorea</i> subsp. <i>lorea</i>	1.4	0.1	
<i>Hibiscus coatesii</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Ptilotus auriculifolius</i>	0.3	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.2	0.1	
<i>Tephrosia</i> sp. NW Eremaean (S. van Leeuwen et al. PBS)	0.05	0.1	
<i>Tribulus suberosus</i>	1	0.1	
<i>Triodia epactia</i>	0.3	10	
<i>Triodia wiseana</i>	0.3	21	

FLORA SITE SHEET

Site: NSAQ31
Project Name: Turner River Additional
Location: -21.16296 Lat 118.79390 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 70 x 35 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Orange



Vegetation: *Acacia stellaticeps* and *Pluchea ferdinandi-muelleri* low open shrubland over *Triodia epactia* low hummock grassland

Condition: Very Good **Disturbance Type:** None,Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia maitlandii</i>	1.7	0.1	
<i>Acacia stellaticeps</i>	0.8	7	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.15	0.1	
<i>Bulbostylis barbata</i>	0.1	0.1	
<i>Chrysopogon fallax</i>	1	0.1	
<i>Corchorus</i> sp.	0.1	0.1	
<i>Eragrostis cumingii</i>	0.05	0.1	
<i>Eriachne obtusa</i>	0.05	0.1	
<i>Fimbristylis dichotoma</i>	0.1	1	
<i>Fimbristylis simulans</i>	0.1	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Gossypium australe</i>	0.2	0.1	
<i>Hibiscus sturtii</i> var. <i>campyloclamys</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Isotropis atropurpurea</i>	0.1	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Paspalidium rarum</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.6	5	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Ptilotus auriculifolius</i>	0.1	0.1	
<i>Ptilotus fusiformis</i>	0.3	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Senna venusta</i>	0.05	0.1	
<i>Solanum chippendalei</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.1	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.1	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.05	0.1	
<i>Triodia epactia</i>	0.6	40	
<i>Triumfetta chaetocarpa</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ32
Project Name: Turner River Additional
Location: -21.16028 Lat 118.79343 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Orange



Vegetation: *Grevillea pyramidalis* subsp. *leucadendron* tall isolated shrubs over *Acacia stellaticeps* low isolated shrubs over *Triodia epactia* low hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.05	0.1	
<i>Acacia maitlandii</i>	1.8	0.1	
<i>Acacia stellaticeps</i>	0.8	2	
<i>Aristida holathera</i> var. <i>holathera</i>	0.15	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Arivela viscosa</i>	0.2	0.5	
<i>Boerhavia coccinea</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bonamia pannosa</i>	0.05	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Cajanus pubescens</i>	0.3	0.1	
* <i>Cenchrus ciliaris</i>	0.2	0.1	
<i>Corchorus tectus</i>	0.1	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1	
<i>Eragrostis eriopoda</i>	0.2	0.1	
<i>Eriachne obtusa</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Euploca diversifolia</i>	0.05	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Gossypium australe</i>	0.3	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	3	7	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	2	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1	
<i>Hypertelis cerviana</i>	0.05	0.1	
<i>Indigofera colutea</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.5	0.5	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	0.05	0.1	
<i>Portulaca oleracea</i>	0.1	0.1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus axillaris</i>	0.05	0.1	
<i>Ptilotus fusiformis</i>	0.2	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.2	0.1	
<i>Senna notabilis</i>	0.05	0.1	
<i>Sporobolus australasicus</i>	0.1	0.1	
<i>Stemodia viscosa</i>	0.1	0.1	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	0.1	0.1	
<i>Tephrosia rosea</i> var. <i>clementii</i>	0.5	0.1	
<i>Trianthema pilosum</i>	0.1	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.05	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.6	25	
<i>Triumfetta ramosa</i>	1	0.1	

FLORA SITE SHEET

Site: NSAQ33
Project Name: Turner River Additional
Location: -21.15573 Lat 118.79889 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Beige



Vegetation: *Pluchea ferdinandi-muelleri* low isolated shrubs over *Triodia secunda* low closed hummock grassland

Condition: Very Good **Disturbance Type:** Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp. <i>Dioicum</i> (A.A. Mitchell PRP 1618)	0.2	0.1	
<i>Arivela viscosa</i>	0.3	0.1	
<i>Cassythia capillaris</i>	0.2	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
<i>Corchorus</i> sp.	0.05	0.1	
<i>Dactyloctenium radulans</i>	0.05	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Goodenia muelleriana</i>	0.1	0.1	
<i>Heliotropium crispatum</i>	0.05	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.6	0.5	
<i>Pluchea rubelliflora</i>	0.1	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.2	0.1	
<i>Solanum chippendalei</i>	0.5	0.1	
<i>Sporobolus actinocladius</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Stemodia viscosa</i>	0.05	0.1	
<i>Swainsona kingii</i>	0.05	0.1	
<i>Trianthema triquetrum</i>	0.1	0.1	
<i>Triodia angusta</i>	0.3	0.1	
<i>Triodia secunda</i>	0.2	71	

FLORA SITE SHEET

Site: NSAQ34
Project Name: Turner River Additional
Location: -21.14312 Lat 118.79737 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 50 x 50 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Beige



Vegetation: *Melaleuca argentea* low open woodland over *M. glomerata* and *M. linifolia* tall isolated shrubs over *Eulalia aurea* low isolated tussock grasses over mixed isolated herbs

Condition: Very Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 5-10 years

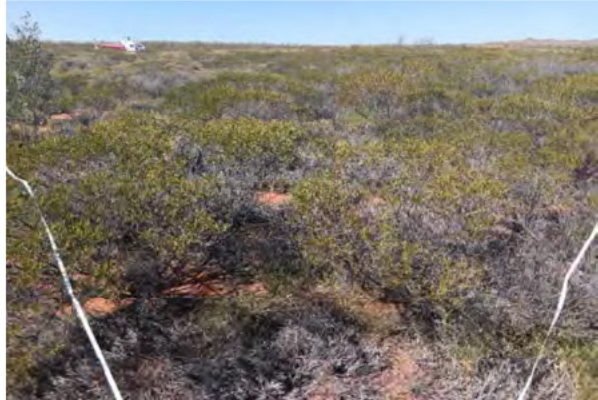
SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon</i> sp.	0.05	0.1	
<i>Acacia ampliceps</i>	0.2	0.1	
<i>Acacia coriacea</i> subsp. <i>pendens</i>	2	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Atalaya hemiglauca</i>	2	0.1	
<i>Buchnera linearis</i>	0.2	0.1	
<i>Calandrinia tepperiana</i>	0.05	0.1	
* <i>Calotropis procera</i>	1.2	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
* <i>Cenchrus setiger</i>	0.3	0.1	
<i>Corchorus laniflorus</i>	0.7	0.1	
<i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i>	0.05	0.1	
<i>Cucumis variabilis</i>	0.1	0.1	
<i>Cyperus ixiocarpus</i>	0.6	0.1	
<i>Cyperus leptocarpus</i>	0.05	0.1	
<i>Cyperus squarrosus</i>	0.05	0.1	
<i>Cyperus vaginatus</i>	0.6	0.1	
<i>Cyperus ?conicus</i>	0.5	0.1	
<i>Eragrostis cumingii</i>	0.05	0.1	
<i>Eriachne benthamii</i>	0.6	0.1	
<i>Eulalia aurea</i>	0.5	0.5	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Fimbristylis microcarya</i>	0.1	0.1	
<i>Goodenia lamprosperma</i>	0.05	0.1	
<i>Gymnanthera cunninghamii</i>	1.2	0.1	Priority 3 (DBCA)
<i>Ipomoea muelleri</i>	0.2	0.1	
<i>Melaleuca argentea</i>	9	7	
<i>Melaleuca glomerata</i>	3.5	0.1	
<i>Melaleuca linophylla</i>	3.5	0.1	
<i>Nelica maderaspatensis</i>	0.3	0.1	
<i>Pluchea rubelliflora</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.2	0.1	
<i>Scleromitron galioides</i>	0.1	0.1	
<i>Sesbania cannabina</i>	0.1	0.1	
<i>Stemodia grossa</i>	0.05	0.1	
<i>Triodia epactia</i>	0.4	0.1	
<i>Vigna lanceolata</i> var. <i>lanceolata</i>	0.05	0.1	
<i>Wahlenbergia tumidifructa</i>	0.2	0.1	

FLORA SITE SHEET

Site: NSAQ35
Project Name: Turner River Additional
Location: -21.14027 Lat 118.78776 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Grevillea wickhamii* tall isolated shrubs over *Acacia stellaticeps* low shrubland over *Triodia lanigera* and *T. epactia* low open hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abildgaardia oxystachya</i>	0.05	0.1	
<i>Acacia maitlandii</i>	2.5	0.1	
<i>Acacia sphaerostachya</i>	1.5	0.1	
<i>Acacia stellaticeps</i>	1	45	
<i>Afrohybanthus aurantiacus</i>	0.2	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.1	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Arivela viscosa</i>	0.2	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Bulbostylis burbridgeae</i>	0.1	0.1	Priority 4 (DBCA)
<i>Cassytha capillaris</i>	0.2	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Cyperus squarrosus</i>	0.1	0.1	
<i>Eragrostis cumingii</i>	0.1	0.1	
<i>Eriachne</i> ?sp. Coongan Station	0.2	0.1	
<i>Euploca tenuifolia</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Gonocarpus ephemerus</i>	0.05	0.1	
<i>Goodenia lamprosperma</i>	0.2	0.1	
<i>Goodenia microptera</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.5	
<i>Heliotropium crispatum</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Isotropis atropurpurea</i>	0.2	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Paspalidium rarum</i>	0.1	0.1	
<i>Pluchea ferdinandi-muelleri</i>	0.3	0.1	
<i>Polymeria</i> sp. <i>stoloniferous</i>	0.05	0.1	SOI
<i>Senna notabilis</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.1	0.1	
<i>Solanum diversiflorum</i>	0.02	0.1	
<i>Stackhousia muricata</i> subsp. <i>annual</i> (W.R. Barker 2172)	0.1	0.1	
<i>Stemodia grossa</i>	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	20	
<i>Triodia lanigera</i>	0.3	25	
<i>Triumfetta chaetocarpa</i>	0.1	0.1	

FLORA SITE SHEET

Site: NSAQ36
Project Name: Turner River Additional
Location: -21.14766 Lat 118.79186 Long
Described by: [REDACTED]
Date: 26-04-2024
Type: QUADRAT 50 x 50 m
Landform: Outcropping
Slope: 0
Rock Type: Ironstone, Quartz
Soil Type: Clay, Sand
Soil Colour: Orange



Vegetation: *Acacia orthocarpa* (*Grevillea wickhamii* subsp. *hispida*, *A. maitlandii*) tall open shrubland over *Triodia lanigera* (*T. epactia*) low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abildgaardia oxystachya</i>	0.05	0.1	
<i>Acacia maitlandii</i>	2.5	1	
<i>Acacia orthocarpa</i>	2.5	15	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Corchorus parviflorus</i>	0.05	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia tannensis</i> subsp. <i>eremophila</i>	0.5	0.1	
<i>Fimbristylis simulans</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Isotropis atropurpurea</i>	0.15	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.05	0.1	
<i>Ptilotus auriculifolius</i>	0.3	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.4	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.1	0.1	
<i>Triodia epactia</i>	0.3	1	
<i>Triodia lanigera</i>	0.4	35	

FLORA SITE SHEET

Site: NSAQ37
Project Name: Turner River Additional
Location: -21.15214 Lat 118.78809 Long
Described by: [REDACTED]
Date: 26-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia orthocarpa* and *A. maitlandii* (*Grevillea wickhamii* subsp. *hispida*) tall open shrubland over *Acacia stellaticeps* low isolated shrubs over *Triodia lanigera* low hummock grassland

Condition: Excellent **Disturbance Type:** None
Fire Age: 5-10 years

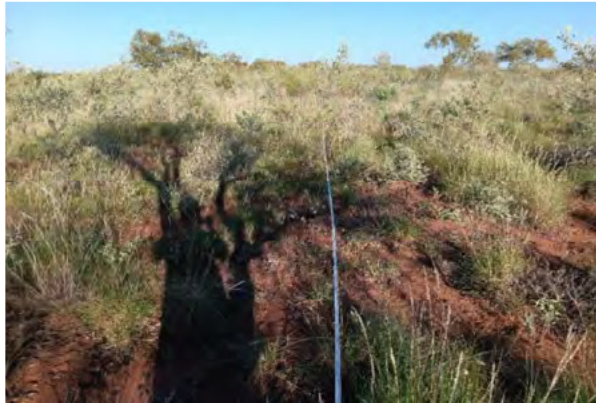
SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abildgaardia oxystachya</i>	0.05	0.1	
<i>Acacia maitlandii</i>	1.8	5	
<i>Acacia orthocarpa</i>	2.5	6	
<i>Acacia stellaticeps</i>	0.5	5	
<i>Afrohybanthus aurantiacus</i>	0.05	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.05	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Bonamia pannosa</i>	0.1	0.1	
<i>Bulbostylis barbata</i>	0.05	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euploca tenuifolia</i>	0.1	0.1	
<i>Fimbristylis dichotoma</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.1	0.1	
<i>Grevillea pyramidalis</i> subsp. <i>leucadendron</i>	0.5	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3.5	0.1	
<i>Hibiscus leptocladus</i>	0.1	0.1	
<i>Indigofera monophylla</i>	0.2	0.1	
<i>Isotropis atropurpurea</i>	0.02	0.1	
<i>Panicum australiense</i> var. <i>australiense</i>	0.1	0.1	
<i>Polygala galeocephala</i>	0.05	0.1	RE
<i>Ptilotus fusiformis</i>	0.1	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.1	0.1	
<i>Stackhousia muricata</i> subsp. <i>annual</i> (W.R. Barker 2172)	0.05	0.1	
<i>Streptoglossa decurrens</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	0.05	0.1	
<i>Triodia epactia</i>	0.3	0.1	
<i>Triodia lanigera</i>	0.4	40	

FLORA SITE SHEET

Site: NSAQ38
Project Name: Turner River Additional
Location: -21.16161 Lat 118.82476 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 70 x 35 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* subsp. *hispidula* (*Acacia acradenia*, *Petalostylis labichioides*) tall open shrubland over *Tridial epactia* low open hummock grassland over mixed herbs
Condition: Very Good **Disturbance Type:** Grazing, Fauna tracks/scats
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.2	0.5	
<i>Acacia ancistrocarpa</i>	0.6	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.5	
<i>Bonamia linearis</i>	0.1	0.1	
<i>Cassyltha capillaris</i>	0.2	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Codonocarpus cotinifolius</i>	0.8	0.1	
<i>Corchorus parviflorus</i>	0.5	0.5	
<i>Corymbia hamersleyana</i>	4.5	3	
<i>Dampiera candidans</i>	0.5	1	
<i>Euploca chrysocarpa</i>	0.2	0.1	
<i>Euploca mutica</i>	0.1	0.1	Priority 3 (DBCA)
<i>Goodenia microptera</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	15	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Paraneurachne muelleri</i>	0.2	0.1	
<i>Petalostylis labicheoides</i>	1.8	0.5	
<i>Polymeria ambigua</i>	0.2	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus axillaris</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.1	0.1	
<i>Scaevola browniana</i> subsp. <i>browniana</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Tridial epactia</i>	0.3	35	

FLORA SITE SHEET

Site: NSAR39
Project Name: Turner River Additional
Location: -21.16694 Lat 118.82412 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: RELEVÉ 25 x 100 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay, Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia bivenosa* tall closed shrubland over mixed isolated herbs

Condition: Good **Disturbance Type:** Weeds, Grazing, Fauna tracks/scats
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon ?lepidum</i>	0.05	0.1	
<i>Acacia acradenia</i>	0.8	0.1	
<i>Acacia ampliceps</i>	2.5	0.1	
<i>Acacia ancistrocarpa</i>	0.5	0.1	
<i>Acacia bivenosa</i>	3	85	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	0.7	0.1	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Acacia synchronicia</i>	1	0.1	
<i>Acacia trachycarpa</i>	1.5	0.1	
<i>Acacia tumida</i> var. <i>pilbarensis</i>	2.5	0.5	
* <i>Cenchrus ciliaris</i>	0.3	1	
* <i>Cenchrus setiger</i>	0.3	1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corchorus trilocularis</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	4.5	2	
<i>Cyperus vaginatus</i>	0.3	0.1	
<i>Eulalia aurea</i>	0.3	1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.1	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Euphorbia vaccaria</i> var. <i>vaccaria</i>	0.05	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Goodenia muelleriana</i>	0.1	0.1	
<i>Gossypium australe</i>	0.4	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	0.5	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.3	0.1	
<i>Melhania oblongifolia</i>	0.1	0.1	
<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	3.5	0.5	
<i>Polymeria ambigua</i>	0.1	0.1	
<i>Portulaca oleracea</i>	0.05	0.1	
<i>Ptilotus axillaris</i>	0.1	0.1	
<i>Rhynchosia minima</i>	0.3	0.1	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>helmsii</i>	0.1	0.1	
<i>Senna notabilis</i>	0.3	0.1	
<i>Sida clementii</i>	0.2	0.1	
<i>Sida fibulifera</i>	0.2	0.1	
<i>Solanum diversiflorum</i>	0.05	0.1	
<i>Sporobolus australasicus</i>	0.2	0.1	
<i>Themeda triandra</i>	0.5	0.1	
<i>Triodia epactia</i>	0.5	0.1	
<i>Triodia lanigera</i>	0.3	0.5	
<i>Waltheria indica</i>	0.2	0.1	

FLORA SITE SHEET

Site: NSAQ40
Project Name: Turner River Additional
Location: -21.16256 Lat 118.81835 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 70 x 35 m
Landform: Drainage
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* subsp. *hispida* (*Acacia bivenosa*) tall isolated shrubs over *Acacia stellaticeps* low open shrubland over *Triodia epactia* and *Triodia angusta* low hummock grassland
Condition: Good **Disturbance Type:** Weeds,Grazing,Fauna tracks/scats
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia ancistrocarpa</i>	1.2	0.1	
<i>Acacia bivenosa</i>	2	2	
<i>Acacia colei</i> var. <i>colei</i>	1.8	0.1	
<i>Acacia eriopoda</i>	2	0.1	
<i>Acacia sphaerostachya</i>	1.4	0.1	
<i>Acacia stellaticeps</i>	0.5	29	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.2	0.1	
* <i>Cenchrus ciliaris</i>	0.3	0.1	
* <i>Cenchrus setiger</i>	0.3	0.1	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Codonocarpus cotinifolius</i>	0.5	0.1	
<i>Corchorus parviflorus</i>	0.2	0.1	
<i>Corymbia hamersleyana</i>	4	1	
<i>Dampiera candidans</i>	0.3	0.1	
<i>Eragrostis eriopoda</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euphorbia trigonosperma</i>	0.1	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2.5	5	
<i>Indigofera colutea</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	1.8	1	
<i>Pluchea tetranthera</i>	0.2	0.1	
<i>Polymeria ambigua</i>	0.2	0.1	
<i>Ptilotus astrolasius</i>	0.4	0.1	
<i>Rhynchosia minima</i>	0.1	0.1	
<i>Scaevola amblyanthera</i> var. <i>centralis</i>	0.2	0.1	
<i>Senna notabilis</i>	0.1	0.1	
<i>Sida fibulifera</i>	0.05	0.1	
<i>Solanum chippendalei</i>	0.2	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Triodia angusta</i>	0.3	10	
<i>Triodia epactia</i>	0.3	50	

FLORA SITE SHEET

Site: NSAR41
Project Name: Turner River Additional
Location: -21.16118 Lat 118.81879 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: RELEVÉ 25 x 100 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Clay,Sand
Soil Colour: Brown



Vegetation: *Eucalyptus camaldulensis* subsp. *refulgens* and *Corymbia hamersleyana* low isolated trees over *Acacia colei* var. *colei* tall closed shrubland over **Cenchrus* spp. low tussock grassland

Condition: Degraded **Disturbance Type:** Weeds,Grazing,Fauna tracks/scats
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.8	0.1	
<i>Acacia ampliceps</i>	3	0.1	
<i>Acacia ancistrocarpa</i>	0.8	0.1	
<i>Acacia bivenosa</i>	2	2	
<i>Acacia colei</i> var. <i>colei</i>	3.5	90	
<i>Acacia pyrifolia</i> var. <i>pyrifolia</i>	1	0.1	
<i>Acacia stellaticeps</i>	0.5	0.1	
<i>Acacia trachycarpa</i>	0.5	0.1	
<i>Afrohybanthus aurantiacus</i>	0.1	0.1	
<i>Cenchrus ciliaris</i>	0.1	25	
<i>Cenchrus setiger</i>	0.3	20	
<i>Chrysopogon fallax</i>	0.6	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corchorus tridens</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	4	0.1	
<i>Eucalyptus camaldulensis</i> subsp. <i>refulgens</i>	9	0.1	
<i>Eulalia aurea</i>	0.5	0.1	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	0.1	0.1	
<i>Gossypium australe</i>	0.5	0.1	
<i>Hibiscus austrinus</i> var. <i>austrinus</i>	0.8	0.1	
<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	0.2	0.1	
<i>Ipomoea polymorpha</i>	0.1	0.1	
<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	0.05	0.1	
<i>Polymeria ambigua</i>	0.05	0.1	
<i>Pterocaulon</i> sp.	0.02	0.1	
<i>Senna notabilis</i>	0.2	0.1	
<i>Sida clementii</i>	0.4	0.1	
<i>Themeda triandra</i>	0.6	0.1	

FLORA SITE SHEET

Site: NSAQ42
Project Name: Turner River Additional
Location: -21.15525 Lat 118.82290 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Ironstone, Quartz
Soil Type: Clay
Soil Colour: Brown



Vegetation: *Corymbia hamersleyana* low isolated trees over *Grevillea wickhamii* subsp. *hispidula* and *Petalostylis labichioides* tall isolated shrubs over *Triodia chichesterensis* low open hummock grassland

Condition: Very Good **Disturbance Type:** None, Fauna tracks/scats, Infrastructure
Fire Age: 2-5 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2	1	
<i>Acacia ancistrocarpa</i>	0.2	0.1	
<i>Acacia bivenosa</i>	0.3	0.1	
<i>Acacia orthocarpa</i>	0.7	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.2	0.1	
<i>Bonamia pilbarensis</i> (tight indumentum form)	0.05	0.1	Other (unusual species restricted subspecies varieties or hybrid)
<i>Cassythia capillaris</i>	0.2	0.1	
<i>Codonocarpus cotinifolius</i>	0.5	0.1	
<i>Corchorus parviflorus</i>	0.5	1	
<i>Corymbia hamersleyana</i>	5	0.1	
<i>Eriachne mucronata</i>	0.1	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia</i> ? <i>boophthona</i>	0.2	0.1	
<i>Euploca chrysocarpa</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.2	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	1	
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	0.2	0.1	
<i>Paraneurachne muelleri</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	2	1	
<i>Ptilotus astrolasius</i>	0.2	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Ptilotus exaltatus</i>	0.05	0.1	
<i>Solanum chippendalei</i>	0.3	0.1	
<i>Solanum diversiflorum</i>	0.3	0.1	
<i>Tephrosia clementii</i>	0.2	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.2	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia chichesterensis</i>	0.2	20	Priority 3 (DBCA)
<i>Triodia wiseana</i>	0.3	4	

FLORA SITE SHEET

Site: NSAQ43
Project Name: Turner River Additional
Location: -21.15704 Lat 118.82958 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 50 x 50 m
Landform: Hills
Slope: 0
Rock Type: Calcrete
Soil Type: Clay
Soil Colour: Beige



Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia orthocarpa* tall isolated shrubs over *Triodia wiseana* (*T. epactia*) low open hummock grassland

Condition: Very Good **Disturbance Type:** Infrastructure
Fire Age: 5-10 years

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Abutilon lepidum</i>	0.05	0.1	
<i>Acacia orthocarpa</i>	3.5	11	
<i>Arivela viscosa</i>	0.1	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Corchorus parviflorus</i>	0.05	0.1	
<i>Corymbia hamersleyana</i>	4.5	2	
<i>Dolichocarpa crouchiana</i>	0.05	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.05	0.1	
<i>Enneapogon caeruleus</i>	0.1	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Euphorbia biconvexa</i>	0.1	0.1	
<i>Notoleptopus decaisnei</i> var. <i>decaisnei</i>	0.05	0.1	
<i>Petalostylis labicheoides</i>	1.4	0.1	
<i>Portulaca filifolia</i>	0.05	0.1	
<i>Ptilotus clementii</i>	0.05	0.1	
<i>Ptilotus exaltatus</i>	0.2	0.1	
<i>Salsola australis</i>	0.2	0.1	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	2	0.1	
<i>Sporobolus australasicus</i>	0.05	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Triodia chichesterensis</i>	0.2	1	Priority 3 (DBCA)
<i>Triodia epactia</i>	0.3	2	
<i>Triodia wiseana</i>	0.4	20	

FLORA SITE SHEET

Site: NSAQ44
Project Name: Turner River Additional
Location: -21.14802 Lat 118.82067 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: Ironstone
Soil Type: Sand
Soil Colour: Orange



Vegetation: *Acacia acradenia* (*A. ancistrocarpa*) tall shrubland over *Triodia wiseana* low open hummock grassland

Condition: Very Good **Disturbance Type:**
Fire Age: 5-10 years Fauna tracks/scats, Infrastructure

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	2.5	25	
<i>Acacia ancistrocarpa</i>	3	1	
<i>Aristida contorta</i>	0.1	0.1	
<i>Aristida holathera</i> var. <i>holathera</i>	0.3	0.1	
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	0.1	0.1	
<i>Bonamia alatisemina</i>	0.2	0.1	
<i>Bonamia erecta</i>	0.2	0.1	
<i>Bonamia linearis</i>	0.1	0.1	
<i>Bonamia pilbarensis</i> (tight indumentum form)	0.05	0.1	Other (unusual species restricted subspecies varieties or hybrid)
<i>Cassitya capillaris</i>	0.3	0.1	
<i>Corchorus parviflorus</i>	0.3	0.1	
<i>Corymbia hamersleyana</i>	3	0.1	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	0.1	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.1	0.1	
<i>Euphorbia australis</i> var. <i>subtomentosa</i>	0.05	0.1	
<i>Euploca chrysocarpa</i>	0.1	0.1	
<i>Goodenia microptera</i>	0.05	0.1	
<i>Goodenia stobbsiana</i>	0.3	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	2	0.1	
<i>Paraneurachne muelleri</i>	0.1	0.1	
<i>Polycarpaea holtzei</i>	0.05	0.1	
<i>Ptilotus astrolasius</i>	0.3	0.1	
<i>Ptilotus axillaris</i>	0.02	0.1	
<i>Ptilotus calostachyus</i>	0.3	0.1	
<i>Tephrosia</i> sp. Bungaroo Creek (M.E. Trudgen 11601)	0.1	0.1	
<i>Tribulus hirsutus</i>	0.05	0.1	
<i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i>	0.05	0.1	
<i>Trigastrotheca molluginea</i>	0.1	0.1	
<i>Triodia lanigera</i>	0.3	1	
<i>Triodia wiseana</i>	0.3	49	

FLORA SITE SHEET

Site: NSAQ45
Project Name: Turner River Additional
Location: -21.15942 Lat 118.75797 Long
Described by: [REDACTED]
Date: 27-04-2024

Type: QUADRAT 50 x 50 m
Landform: Plains
Slope: 0
Rock Type: N/A
Soil Type: Sand
Soil Colour: Orange

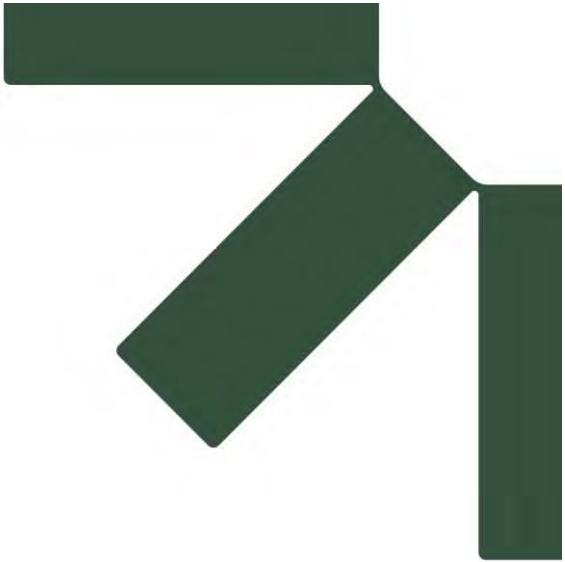


Vegetation: *Corymbia hamersleyana* low isolated trees over *Acacia acradenia*, *A. ancistrocarpa*, and *Grevillea wickhamii* subsp. *hispida* tall open shrubland over *Triodia lanigera* low open hummock grassland

Condition: Very Good
Fire Age: 5-10 years
Disturbance Type: Infrastructure

SPECIES LIST

Taxon	Height (m)	Cover (%)	Notes
<i>Acacia acradenia</i>	1.5	4	
<i>Acacia ancistrocarpa</i>	1.5	3	
<i>Bonamia erecta</i>	0.1	0.1	
<i>Corymbia hamersleyana</i>	3	0.1	
<i>Eriachne pulchella</i> subsp. <i>pulchella</i>	0.05	0.1	
<i>Goodenia microptera</i>	0.05	0.1	
<i>Gossypium australe</i>	0.05	0.1	
<i>Grevillea wickhamii</i> subsp. <i>hispidula</i>	3	1	
<i>Indigofera monophylla</i>	0.3	0.1	
<i>Petalostylis labicheoides</i>	1.5	0.1	
<i>Trigastrotheca molluginea</i>	0.05	0.1	
<i>Triodia lanigera</i>	0.3	35	



Appendix G Selected Inputs and Outputs of the Floristic Analysis

Detailed Flora and Vegetation Assessment

Turner River Consolidated

Fortescue Ltd

SLR Project No.: 675.72502.00001

5 February 2025

Changes to data for floristic analysis

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Abildgaardia oxystachya</i>	4	Omitted: Annual taxon	NA	
<i>Abutilon amplum</i>	1	Omitted: Singleton record	NA	
<i>Abutilon cunninghamii</i>	1	Omitted: Singleton record	NA	
<i>Abutilon otocarpum</i>	1	Omitted: Singleton record	NA	
<i>Abutilon</i> sp.	3	Omitted: May represent multiple species	NA	Y
<i>Abutilon</i> ? <i>amplum</i>	3	Referred to species	<i>Abutilon amplum</i>	Y
<i>Abutilon</i> ? <i>lepidum</i>	1	Referred to species	<i>Abutilon lepidum</i>	Y
<i>Acacia ampliceps</i> x <i>bivenosa</i>	2	Referred to species	<i>Acacia ampliceps</i>	
<i>Acacia ancistrocarpa</i> x <i>orthocarpa</i>	2	Referred to species	<i>Acacia ancistrocarpa</i>	
<i>Acacia ancistrocarpa</i> x <i>trachycarpa</i>	1	Referred to species	<i>Acacia ancistrocarpa</i>	
<i>Acacia eriopoda</i> x <i>stellaticeps</i>	1	Referred to species	<i>Acacia eriopoda</i>	
<i>Acacia orthocarpa</i> x <i>stellaticeps</i>	1	Referred to species	<i>Acacia orthocarpa</i>	
<i>Acacia tumida</i> var. <i>pilbarensis</i> x <i>unknown hybrid</i>	1	Referred to species	<i>Acacia tumida</i> var. <i>pilbarensis</i>	
<i>Aerva javanica</i>	23	Omitted: Introduced taxon	NA	
<i>Afrohybanthus aurantiacus</i>	90	Omitted: Annual taxon	NA	
<i>Alternanthera denticulata</i>	2	Omitted: Annual taxon	NA	
<i>Alternanthera nana</i>	3	Omitted: Annual taxon	NA	
<i>Amaranthus</i> aff. <i>interruptus</i>	9	Omitted: Annual taxon	NA	
<i>Amaranthus</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Amaranthus undulatus</i>	4	Omitted: Annual taxon	NA	
<i>Ammannia baccifera</i>	3	Omitted: Annual taxon	NA	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Ammannia multiflora</i>	3	Omitted: Annual taxon	NA	
<i>Ammannia</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Aristida</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Arivela uncifera</i> subsp. <i>uncifera</i>	39	Omitted: Annual taxon	NA	
<i>Arivela viscosa</i>	55	Omitted: Annual taxon	NA	
<i>Bergia pedicellaris</i>	2	Omitted: Annual taxon	NA	
<i>Bidens bipinnata</i>	3	Omitted: Introduced taxon	NA	
<i>Blumea tenella</i>	1	Omitted: Singleton record	NA	
<i>Boerhavia burbidgeana</i>	1	Omitted: Singleton record	NA	
<i>Boerhavia paludosa</i>	1	Omitted: Singleton record	NA	
<i>Boerhavia</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Bonamia pannosa</i>	27	Omitted: Annual taxon	NA	
<i>Bonamia pilbarensis</i> (<i>tight indumentum form</i>)	4	Referred to species	<i>Bonamia pilbarensis</i>	
<i>Bonamia</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Bothriochloa ewartiana</i>	1	Omitted: Singleton record	NA	
<i>Buchnera linearis</i>	4	Omitted: Annual taxon	NA	
<i>Bulbostylis barbata</i>	59	Omitted: Annual taxon	NA	
<i>Bulbostylis burbidgeae</i>	36	Omitted: Annual taxon	NA	
<i>Byblis pilbarana</i>	3	Omitted: Annual taxon	NA	
<i>Cajanus marmoratus</i>	1	Omitted: Singleton record	NA	
<i>Calandrinia pentavalvis</i>	2	Omitted: Annual taxon	NA	
<i>Calandrinia</i> sp.	23	Omitted: May represent multiple species	NA	Y
<i>Calandrinia stagnensis</i>	12	Omitted: Annual taxon	NA	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Calandrinia tepperiana</i>	9	Omitted: Annual taxon	NA	
<i>Calotropis procera</i>	23	Omitted: Introduced taxon	NA	
<i>Carissa lanceolata</i>	1	Omitted: Singleton record	NA	
<i>Cenchrus ciliaris</i>	77	Omitted: Introduced taxon	NA	
<i>Cenchrus setiger</i>	21	Omitted: Introduced taxon	NA	
<i>Cheilanthes brownii</i>	2	Omitted: Annual taxon	NA	
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	8	Omitted: Annual taxon	NA	
<i>Cheilanthes</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Chloris pumilio</i>	1	Omitted: Introduced taxon	NA	
<i>Corchorus ?lasiocarpus</i>	1	Referred to species	Corchorus lasiocarpus	Y
<i>Corchorus ?tectus</i>	3	Referred to species	Corchorus tectus	Y
<i>Corchorus lasiocarpus</i> subsp. <i>lasiocarpus</i>	6	Referred to species	Corchorus lasiocarpus	
<i>Corchorus lasiocarpus</i> subsp. <i>parvus</i>	17	Referred to species	Corchorus lasiocarpus	
<i>Corchorus</i> sp.	25	Omitted: May represent multiple species	NA	Y
<i>Corchorus trilocularis</i>	1	Omitted: Singleton record	NA	
<i>Crotalaria dissitiflora</i> subsp. <i>benthamiana</i>	1	Omitted: Singleton record	NA	
<i>Cymbopogon oblectus</i>	1	Omitted: Singleton record	NA	
<i>Cynanchum floribundum</i>	1	Omitted: Singleton record	NA	
<i>Cynodon convergens</i>	2	Omitted: Annual taxon	NA	
<i>Cynodon prostratus</i>	7	Omitted: Annual taxon	NA	
<i>Cyperus iria</i>	3	Omitted: Annual taxon	NA	
<i>Cyperus leptocarpus</i>	4	Omitted: Annual taxon	NA	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Cyperus squarrosus</i>	15	Omitted: Annual taxon	NA	
<i>Cyperus ?conicus</i>	1	Referred to species	<i>Cyperus conicus</i>	Y
<i>Dactyloctenium radulans</i>	19	Omitted: Annual taxon	NA	
<i>Dolichocarpa crouchiana</i>	9	Omitted: Annual taxon	NA	
<i>Drosera finlaysoniana</i>	2	Omitted: Annual taxon	NA	
<i>Dysphania plantaginella</i>	3	Omitted: Annual taxon	NA	
<i>Dysphania rhadinostachya</i> subsp. <i>rhadinostachya</i>	14	Omitted: Annual taxon	NA	
<i>Dysphania</i> sp.	9	Omitted: May represent multiple species	NA	Y
<i>Enneapogon robustissimus</i>	1	Omitted: Singleton record	NA	
<i>Eragrostis setifolia</i>	1	Omitted: Singleton record	NA	
<i>Eremophila latrobei</i> subsp. <i>filiformis</i>	1	Omitted: Singleton record	NA	
<i>Eriachne</i> ?sp. <i>Coongan Station</i>	4	Referred to species	<i>Eriachne obtusa</i>	
<i>Eriachne flaccida</i>	1	Omitted: Singleton record	NA	
<i>Euphorbia ?boophithona</i>	2	Referred to species	<i>Euphorbia boophithona</i>	Y
<i>Euphorbia biconvexa</i> / <i>trigonosperma</i>	2	Referred to species	<i>Euphorbia biconvexa</i>	
<i>Euphorbia clementii</i>	74	Omitted: Annual taxon	NA	
<i>Euploca heterantha</i>	1	Omitted: Singleton record	NA	
<i>Euploca skeleton</i>	11	Omitted: Annual taxon	NA	
<i>Euploca</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Evolvulus alsinoides</i> var. <i>decumbens</i>	9	Omitted: Annual taxon	NA	
<i>Evolvulus alsinoides</i> var. <i>villosicalyx</i>	24	Omitted: Annual taxon	NA	
<i>Fimbristylis microcarya</i>	5	Omitted: Annual taxon	NA	
<i>Fimbristylis rara</i>	3	Omitted: Annual taxon	NA	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Fimbristylis simulans</i>	6	Omitted: Annual taxon	NA	
<i>Fimbristylis</i> sp.	8	Omitted: May represent multiple species	NA	Y
<i>Flaveria trinervia</i>	9	Omitted: Introduced taxon	NA	
<i>Gomphrena cunninghamii</i>	17	Omitted: Annual taxon	NA	
<i>Grona filiformis</i>	4	Omitted: Annual taxon	NA	
<i>Grona muelleri</i>	3	Omitted: Annual taxon	NA	
<i>Haloragis</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Hibiscus</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Hibiscus sturtii</i> var. <i>?platychlamys</i>	1	Referred to species	<i>Hibiscus sturtii</i>	Y
<i>Hibiscus sturtii</i> var. <i>campylochlamys</i>	34	Referred to species	<i>Hibiscus sturtii</i>	
<i>Hibiscus sturtii</i> var. <i>grandiflorus</i>	3	Referred to species	<i>Hibiscus sturtii</i>	
<i>Hibiscus sturtii</i> var. <i>platychlamys</i>	5	Referred to species	<i>Hibiscus sturtii</i>	
<i>Hypertelis cerviana</i>	1	Omitted: Singleton record	NA	
<i>Indigofera colutea</i>	11	Omitted: Annual taxon	NA	
<i>Indigofera linifolia</i>	5	Omitted: Annual taxon	NA	
<i>Ipomoea polymorpha</i>	8	Omitted: Annual taxon	NA	
<i>Marsilea ?hirsuta</i>	3	Omitted: Annual taxon	NA	Y
<i>Mitrasacme connata</i>	4	Omitted: Annual taxon	NA	
<i>Mnesithea formosa</i>	1	Omitted: Singleton record	NA	
<i>Nicotiana benthamiana</i>	2	Omitted: Annual taxon	NA	
<i>Nicotiana umbratica</i>	13	Omitted: Annual taxon	NA	
<i>Opuntia ?stricta</i>	18	Omitted: Introduced taxon	NA	
<i>Paspalidium</i> sp.	1	Omitted: May represent multiple species	NA	Y

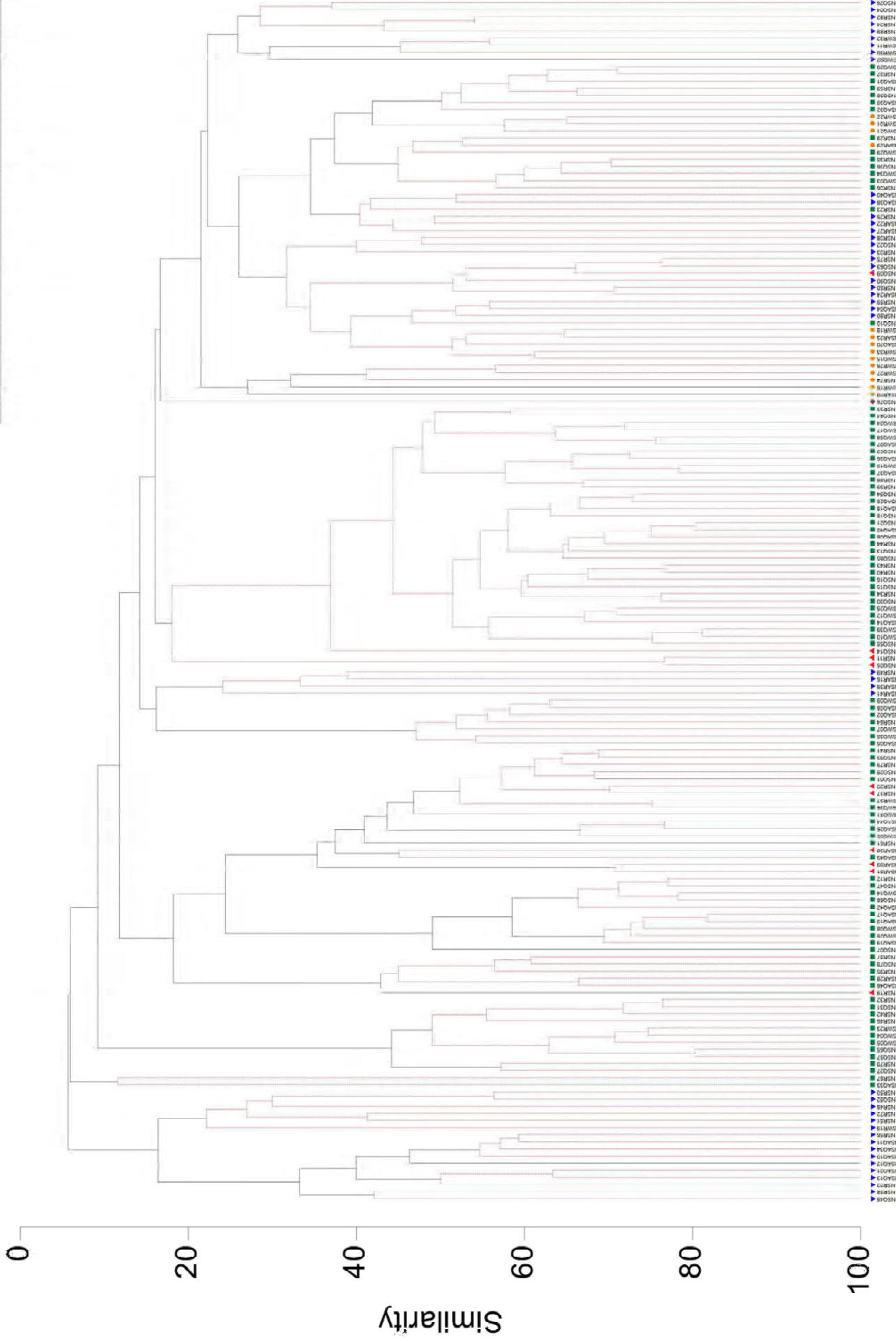
Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Perotis rara</i>	7	Omitted: Annual taxon	NA	
<i>Polycarpaea corymbosa</i> var. <i>corymbosa</i>	23	Omitted: Annual taxon	NA	
<i>Polycarpaea holtzei</i>	15	Omitted: Annual taxon	NA	
<i>Polycarpaea involucrata</i>	3	Omitted: Annual taxon	NA	
<i>Polycarpaea longiflora</i>	12	Omitted: Annual taxon	NA	
<i>Polygala galeocephala</i>	6	Omitted: Annual taxon	NA	
<i>Polygala glaucifolia</i>	4	Omitted: Annual taxon	NA	
<i>Portulaca conspicua</i>	10	Omitted: Annual taxon	NA	
<i>Portulaca digyna</i>	12	Omitted: Annual taxon	NA	
<i>Portulaca filifolia</i>	4	Omitted: Annual taxon	NA	
<i>Portulaca oleracea</i>	23	Omitted: Annual taxon	NA	
<i>Portulaca</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Pterocaulon</i> sp.	7	Omitted: May represent multiple species	NA	Y
<i>Ptilotus helipteroides</i>	1	Omitted: Singleton record	NA	
<i>Ptilotus mollis</i>	1	Omitted: Singleton record	NA	
<i>Ptilotus</i> sp.	4	Omitted: May represent multiple species	NA	Y
<i>Rhodanthe margarethae</i>	2	Omitted: Annual taxon	NA	
<i>Scleromitron galioides</i>	5	Omitted: Annual taxon	NA	
<i>Senna artemisioides</i> subsp. <i>helmsii</i>	4	Referred to species	<i>Senna artemisioides</i>	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i>	11	Referred to species	<i>Senna artemisioides</i>	
<i>Senna artemisioides</i> subsp. <i>oligophylla</i> x <i>helmsii</i>	2	Referred to species	<i>Senna artemisioides</i>	
<i>Senna glutinosa</i> subsp. <i>glutinosa</i>	15	Referred to species	<i>Senna glutinosa</i>	
<i>Senna glutinosa</i> subsp. <i>pruinosa</i>	1	Referred to species	<i>Senna glutinosa</i>	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Senna glutinosa</i> subsp. <i>xluerssenii</i>	2	Referred to species	<i>Senna glutinosa</i>	
<i>Seringia</i> ? <i>nephrosperma</i>	3	Referred to species	<i>Seringia nephrosperma</i>	Y
<i>Sida</i> sp. <i>Pindan</i> (B.G. Thomson 3398)	1	Omitted: Singleton record	NA	
<i>Solanum</i> ? <i>horridum</i>	2	Referred to species	<i>Solanum horridum</i>	Y
<i>Sporobolus actinocladius</i>	10	Omitted: Annual taxon	NA	
<i>Sporobolus australasicus</i>	32	Omitted: Annual taxon	NA	
<i>Stackhousia muricata</i> subsp. <i>annual</i> (W.R. Barker 2172)	2	Omitted: Annual taxon	NA	
<i>Stemodia</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Streptoglossa</i> sp.	3	Omitted: May represent multiple species	NA	Y
<i>Swainsona kingii</i>	5	Omitted: Annual taxon	NA	
<i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i>	19	Omitted: Annual taxon	NA	
<i>Tephrosia</i> sp.	2	Omitted: May represent multiple species	NA	Y
<i>Tephrosia</i> sp. <i>NW Eremaean</i> (S. van Leeuwen et al. PBS 0356)	15	Omitted: Annual taxon	NA	
<i>Trachymene oleracea</i> subsp. <i>oleracea</i>	26	Omitted: Annual taxon	NA	
<i>Trianthema</i> aff. <i>oxycalyptum</i>	16	Omitted: Annual taxon	NA	
<i>Trianthema pilosum</i>	11	Omitted: Annual taxon	NA	
<i>Trianthema triquetrum</i>	20	Omitted: Annual taxon	NA	
<i>Tribulopsis angustifolia</i>	3	Omitted: Annual taxon	NA	
<i>Tribulus hirsutus</i>	29	Omitted: Annual taxon	NA	
<i>Tribulus macrocarpus</i>	4	Omitted: Annual taxon	NA	
<i>Tribulus occidentalis</i>	6	Omitted: Annual taxon	NA	
<i>Tribulus</i> sp.	1	Omitted: May represent multiple species	NA	Y
<i>Trigastrotheca molluginea</i>	56	Omitted: Annual taxon	NA	

Taxon	Count of Taxon	Status	Name Referred to for Multivariate Analysis	Excluded in Species Accumulation Curve
<i>Tripogonella loliiformis</i>	8	Omitted: Annual taxon	NA	
<i>Wahlenbergia tumidifructa</i>	10	Omitted: Annual taxon	NA	
<i>Zornia albiflora</i>	2	Omitted: Annual taxon	NA	
<i>Zornia muelleriana</i> subsp. <i>congesta</i>	3	Omitted: Annual taxon	NA	

Turner River Consolidated Group average

Transform: Square root
Resemblance: S17 Bray-Curtis similarity



Flora Sites

Turner River Consolidated Group average

Transform: Square root
Resemblance: S17 Bray-Curtis similarity

