

# SPRINGWATER IRRIGATION AREA AND WATER PIPELINE ECOLOGICAL ASSESSMENT



Report prepared for Santos GLNG

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Signed on behalf of Terrestria Pty Ltd

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Date: December 2020

# SPRINGWATER IRRIGATION AREA AND WATER PIPELINE ECOLOGICAL ASSESSMENT

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#### **Abbreviations**

EA Environmental Authority

ESA Environmentally Sensitive Area

DES Department of Environment and Science

DNR Department of Natural Resources

RE Regional Ecosystems

VM Act Queensland's Vegetation Management Act 1999

TEC Threatened Ecological Community



#### 1.0 Introduction

#### 1.1 Background and Purpose

Terrestria Pty Ltd has prepared this report for Santos Pty Ltd for the purpose of providing an independent ecological assessment of the water pipeline and pivot irrigation Survey area, Southern Queensland (Project area) (**Figure 1.1**).

The aims of this report are to provide spatially explicit, field-derived ecological data to assist in appropriate location of the water pipeline and pivot irrigation and to provide the background mapping of ecological values to be used in the quantification of impacts to Environmentally Significant Areas (ESAs).

On-ground and desktop assessments have been conducted in accordance with requirements set out within under the Methodology for Assessing Ecological Values (0007-650-PRO-0007). Ecological values that were assessed include:

- Likelihood of occurrence assessment for Flora and Fauna EVNT
- Habitat Assessment for all EVNT Species
- General EVNT flora survey
- RE Mapping for the Project area
- BioCondition sites in all assessment units intersected by the Project area.

#### 1.2 Proposed Works

The water pipeline and pivot irrigation area is shown in **Figure 1.1**.

#### 1.3 General Project Area Description

The water pipeline and irrigation area runs east west along the northern boundary of Hallett State Forest and can be described as a gently undulating landscape with deep sandy soils dominating rises and hill tops and sandy clays dominating the valley floors. Native woodlands are confined to the sandy surfaces being generally white cypress pine, Silver-leaved ironbark and Poplar box woodlands. The cleared areas are dominated by sandy clays derived from fine-grained sediments (Land zone 9), dissected by a minor creek lines that supports narrow alluvial flats dominated by a narrow riparian bands of eucalypt open forest. The Project area has been heavily grazed.



#### 2.0 Methodology

Field and desktop assessments were carried out in accordance with:

- Methodology for Assessing Ecological Values (0007-650-PRO-0007)
- Santo's Procedure for Conducting Vegetation Assessments, Document Number: 0007-650-PRO-0008,
- Procedure for Conducting Preliminary Ecological Desktop Assessments (0007-650-PRO-0009)
- Procedure for Conducting Wetland Assessments (3301-GLNG-4-1.3-0016)
- Guideline for Conducting Vegetation Community Assessments: A Guide to Using the 'Procedure for Vegetation Community Assessments' (0007-650-GDE-0002).

Results from the protected matters search tool have been used to build up a picture of the potential values present on or close to the Project area. The field assessment has identified the existence of these values on-ground and the impact assessment guideline has been used to assess whether proposed actions will have a significant impact on any matters of national environmental significance.

#### 2.1 Desktop Review

Prior to the field investigation, Commonwealth and State wildlife databases were interrogated in order to develop a picture of the likely threatened species occurring within the Project locality. The Queensland DES Wildlife Online database (20 km radius centred on the Project area) and the Commonwealth Department of the Environment and Energy (DoEE) EPBC Protected Matters Search Tool (PMST) results (20 km radius centred on the Project area) were searched for the Project area and surrounds (**Appendix A** and **B**). In addition, the following statutory mapping for the Project area was reviewed in order to build a picture of the distribution of ecological values across the Project area:

- Detailed Surface Geology 1:250,000 (DNR 2015) (Figure 3.1); and
- DES's VM Act Regional Ecosystem and Remnant Mapping-Version 11 (Figure 3.2).

The results of database and mapping searches were used to inform the field investigation and target species listed under the EPBC Act and/or NC Act. Information gained from this phase of the study has been used to:

- Identify communities and species of significance known from the locality;
- Determine which species of significance are most likely to occur if suitable habitat is located within the Project area. Those species that are known from nearby records and State mapping are considered more likely to occur if suitable habitat is located; and
- Identify significant areas and planning constraints associated with statutory mapping within the Project area.

A desktop database review of existing ecological information was carried out prior to the fieldworks. The results of these searches build up a picture of the species and communities considered under threat that may possibly occur within the locality. Detailed expert profiling of the species and communities is used to assess the likelihood of occurrence of these species within the Project area and likely habitats in which they may occur. This work was used to focus survey efforts and develop field work programs.

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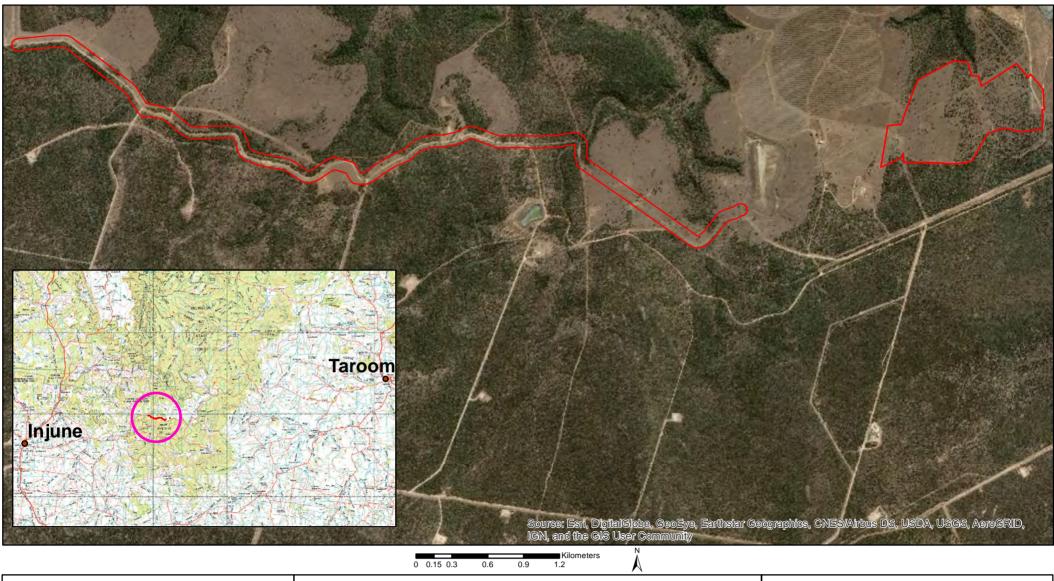
#### 2.3 Field Assessments

Ecological surveys using the methods detailed above, were undertaken between 27 August -1 September 2020. The location of field survey sites are given in **Appendix C** and field data sheets are presented in **Appendix D**.

#### 2.3.1 Nomenclature and taxonomy

Scientific names of flora cited in this report follow Bostock and Holland (2018). Common names for plants are used where helpful and are cited before the scientific name where they are used.

Fauna nomenclature follows the International Ornithological Committee checklist (for birds) and DEHP's WildNet database taxonomy (for all other fauna), unless otherwise noted. Some notable references include; Churchill (2008), Debus (2012), Van dyck et al., (2013), Cogger (2000), Crome and Shields (1992), Marchant and Higgins (1993), Menkhorst and Knight (2004), Pizzey and Knight (2012), Wilson (2015).



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Aerial imagery courtesy of Bing Maps.

#### **LEGEND**

Project\_area

# FIGURE 1.1: Site Location and Project Area Boundary

Springwater Irrigation Area and Water Pipeline Ecological Assessment

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#### 3.0 Results

The results of this report are based on a combination of desktop and site investigations as detailed in Section 2.0, above. Desktop surveys were used to highlight the potential ecological values that may be present within the Project area. These surveys included the integration of current high-quality aerial photography, State regional ecosystem mapping, watercourse, essential habitat and preclearance regional ecosystem mapping to gain an understanding of the likely constraints to gas infrastructure location. These spatially explicit data were loaded into hand-held GPS and tablets to inform field surveys.

#### 3.1 Desktop Results

#### 3.1.1 Threatened Flora Species

Interrogation of the WildNet and Protected Matters databases (20km radius) revealed the possible presence of 10 threatened flora species. The Protected Plants Flora Survey trigger map does not show any areas with a High Risk of containing an EVNT species. Habitat modelling for the threatened species that may possibly occur within the area revealed that the Project area does not provide good quality habitat for any of the species listed.

Table 3.2: Potential a significant impact on listed flora species.

	Sta	tus		Likelihood of Occurrence
Species	NC	EPBC	Habitat Preference	
Species	Act Act		Traditat i Tererence	EIRCHIOGG OF Occurrence
	(1992)	(1999)		
Tylophora linearis (P)	E	E	Found in dry scrublands, open forests and woodlands in association with Broombush (Melaleuca uncinata), Broadleaved Red Ironbark (Eucalyptus fibrosa), Grey Ironbark (E. sideroxylon), White Box (E. albens), Black Cypress Pine (Callitris endlicheri), White Cypress Pine (C. glaucophylla),	Low potential to occur  Marginal habitat for this species occurs within the
			Bulloak (Allocasuarina luehmannii), Hakea Wattle (Acacia hakeoides), Striped Wattle (A. lineata), Myoporums (Myoporum spp.) and She-oaks (Casuarina spp.) at low altitudes and on sedimentary flats.	Project area
Bertya	С	V	Found in a broad range of	Low potential to occur
opponens (W/P)			communities including mixed	

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	Sta	tus		
Species	NC Act (1992)	EPBC Act (1999)	Habitat Preference	Likelihood of Occurrence
Acacia calanthe	NT		shrublands, Lancewood ( <i>Acacia shirleyi</i> ) woodlands, mallee, Eucalyptus - Acacia open forests with shrubby understorey, Eucalyptus - Callitris open woodlands and semi-evergreen vine thickets, in shallow red soils Grows in sand to sandy-clay soil on the lower slopes of steep sandstone hills in dry sclerophyll forest and open forest. Associated with <i>Corymbia trachyphloia</i> , <i>C. maculata</i> , <i>Eucalyptus cloeziana</i> , <i>E. tenuipes</i> ,	Marginal habitat for this species occurs within the Project area  Low potential to occur
			E. crebra, E. corynodes, C. citriodora, C. tessellaris, E. fibrosa, C. watsoniana, Lysicarpus angustifolius, Angophora leiocarpa, Acacia podalyriifolia, Acacia crassa, Acacia juncifolia, A. caroleae and Astrotricha biddulphiana (Queensland Herbarium 2011).	Marginal habitat for this species occurs within the Project area
Acacia islana (W)	V		Grows on shallow, sandy soil over sandstone. often in open woodlands on sandstone ridgetops or gullies.	Low potential to occur  Marginal habitat for this species occurs within the Project area
Acacia spania (W)	NT		Grows mostly on rocky sandstone ridges and hills in sandy to loamy soils in eucalypt or Acacia dominated woodland communities.	Low potential to occur  Marginal habitat for this species occurs within the Project area
Melaleuca irbyana (W)	E		Open eucalypt forest in poorly drained, usually clay, soils RE 11.9.5	Very Low potential to occur  Small areas of marginal habitat for this species



	Sta	tus		
Species	NC Act (1992)	EPBC Act (1999)	Habitat Preference	Likelihood of Occurrence
Sannantha				occurs within the Project area  Low potential to occur
brachypoda (W)	V		Woodland habitat on sandstone ridges	Marginal habitat for this species occurs within the Project area
Arthraxon hispidus Hairy-joint grass (P)		V	Grows in rainforest and riparian areas.	Very low potential to occur  Small areas of marginal habitat for this species occurs within the Project area
Eucalyptus beaniana (P)		V	Found in woodlands in shallow, sandy soils on quartzose sandstone ridges	Low potential to occur  Marginal habitat for this species occurs within the Project area
Xerothamnella herbacea		Е	Found in Brigalow (Acacia harpophylla) dominated communities in shaded situations, often in leaf litter and in association with gilgais, on heavy, grey to dark brown clay soils.	Low potential to occur  Marginal habitat for this species occurs within the Project area

W = WildNet, P = Protected Matters search



#### 3.1.2 Threatened Fauna Species

Interrogation of the WildNet and Protected Matters databases (20 km radius) revealed the possible presence of 21 threatened fauna species, including 8 birds, 6 mammals and 7 reptiles. Habitat modelling for the threatened species that may possibly occur within the area revealed that the Project area provides potential habitat for:

- Red goshawk Erythrotriorchis radiatus;
- Squatter Pigeon southern subspecies (Geophaps scripta scripta);
- Short-beaked echidna Tachyglossus aculeatus;
- South-eastern Long-eared Bat Nyctophilus corbeni;
- Collared Delma Delma torquata;
- Dunmall's Snake Furina dunmalli;
- Golden-tailed gecko Strophurus taenicauda; and
- Yakka Skink Egernia rugosa.

Of these species only the Squatter Pigeon, Short-beaked echidna and Golden-tailed gecko have been previously recorded within the vicinity.

Table 3.1: Potential a significant impact on listed fauna species.

	Stati	us*		
Species	NC	EPBC	Habitat preference	Likelihood of occurrence
	Act	Act		
Birds				
Australian painted snipe (Rostratula australis) (P)	V	V	The Australian Painted Snipe is a secretive, cryptic, crepuscular species that occurs in terrestrial shallow wetlands, both ephemeral	Unlikely to occur  There is no suitable habitat for this species within the survey area.
			and permanent, usually freshwater but occasionally brackish.	(No database records, predicted to occur on EPBC search tool)
Falco hypoleucos		V		Unlikely to occur
Grey Falcon (P)			Usually confined to the arid inland. It inhabits Triodia grassland, Acacia	No habitat for this species is present or close to the site.
			shrubland, and lightly timbered arid woodland	(No database records, predicted to occur on EPBC search tool)
glossy black-cockatoo (eastern) Calyptorhynchus lathami	V		Woodland dominated by Allocasuarina and in open forests. Often confined to	Unlikely to occur
lathami (W)			remnant Allocasuarina patches surrounded by cleared farmlands.	Food trees for this species are rare within the project area

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	Stati	ıs*			
Species	NC Act	EPBC Act	Habitat preference	Likelihood of occurrence	
Painted Honeyeater Grantiella picta (P)		V	Inhabits Boree/ Weeping Myall (Acacia pendula), Brigalow (A. harpophylla) and Box-Gum Woodlands and Box-Ironbark Forests. A specialist feeder on the fruits of mistletoes growing on woodland eucalypts and acacias. Prefers mistletoes of the genus Amyema.	Unlikely to occur  Very small areas of brigalow occur within the Project area, however mistletoes were rare.  (No database records, predicted to occur on EPBC search tool)	
Star Finch (eastern)(southern) Neochmia ruficauda ruficauda (P)		E	The Star Finch occurs mainly in grasslands and grassy woodlands that are located close to bodies of fresh water. It also occurs in cleared or suburban areas such as along roadsides and in towns.	Unlikely to occur  The presence of native grasses is very limited within the Project area.  (No database records, predicted to occur on EPBC search tool)	
Red goshawk  Erythrotriorchis radiatus (P)	Е	V	Occurs in woodlands and forests of tropical and warm temperate Australia. It requires large home ranges preferring mosaic habitats that hold a large population of birds and permanent water.	Foraging habitat for this species occurs within the Project area  This is an extremely uncommon species with only a low possibility to occur in the area.  (No database records, predicted to occur on EPBC search tool)	
Squatter Pigeon - southern subspecies <i>Geophaps scripta scripta</i> (W/P)	V	V	Dry grassy eucalypt woodlands and open forests, also Callitris and Acacia woodlands. Most birds live in sandy sites near permanent water (Frith, 1982; Blakers et al., 1984; and Crome and Shields, 1992). Often observed at cattle yards, dirt tracks and other disturbed areas.	Possibility of occurrence  There is permanent water available in nearby dams.  Habitat suitable for this species is likely to occur across much of the Project area.	
white-throated needletail Hirundapus caudacutus (W/P)	V	V	Almost exclusively aerial; over a wide variety of habitats.	Potential fly over	
Mammals					



	State	uc*		
Species	NC	EPBC	Habitat preference	Likelihood of occurrence
эрсысэ	Act	Act	Habitat preference	Eliciniou di decurrence
Greater Glider Petauroides Volans (P)	V	V	Wide range of habitats including tall open woodland, eucalypt forests and low woodlands. They do not occur in rainforests. They prefer habitats that are in older forests and have large number of hollows.	Unlikely to occur  The wooded habitats of the project area do not contain a sufficient density of large hollows to support this species.  (No database records, predicted to occur on EPBC search tool)
Koala Phascolarctos cinereus (P)	V	V	This species requires eucalypt woodland and forest habitat with suitable food trees (primarily Eucalyptus spp.). Woodlands containing food trees in riparian/alluvial areas are particularly favoured (Melzer et al. 2014). Potential food trees occurring within the Project area include Eucalyptus tereticornis, E. camaldulensis, E. populnea, E. melanophloia, E. orgadophila and E. crebra.	Low quality food trees are sparsely scattered within the remnant vegetation of the project and provide poor quality habitat for this species.  (No database records, predicted to occur on EPBC search tool)
Large-eared pied bat Chalinolobus dwyeri (P)	V	V	In southern Queensland, this species is associated with higher altitude moist forests and adjacent rainforest	Unlikely to occur  Low quality habitat for this species occurs in the wooded communities of the Project area  There are no significant ranges close to the survey area and it is considered unlikely that this species would occur.  (No database records, predicted to occur on EPBC search tool)



Species	Statu			
	NC	EPBC	Habitat preference	Likelihood of occurrence
Species	Act	Act	Habitat preference	LINEIIIIOOU OI OCCUITETICE
Northern quoll Dasyurus hallucatus (P)	LC	E	This mammal occurs in a range of habitats but is most abundant in hilly or rocky areas close to permanent water.	Unlikely to occur  There is very low quality habitat for this species occurs in the wooded communities. There are no significant ranges close to the survey area and it is considered unlikely that this species would occur.  (No database records, predicted to occur on EPBC search tool)
short-beaked echidna Tachyglossus aculeatus (W)	SL		Lives in forests and woodlands, heath, grasslands and arid environments.	Possibility of occurrence  Foraging habitat for this species occurs within the Project area
South-eastern Long-eared Bat Nyctophilus corbeni (P)	V	V	Occurs in a variety of dry forest habitats including River Red Gum, open woodland, mallee, brigalow and other arid and semi-arid habitats. The preferred habitat is mallee and Callitris woodlands (Pennay et al., 2011), and habitats that have a distinct canopy with a dense, cluttered understorey (Turbill and Ellis, 2006). It roosts in tree hollows or under bark (NSW NPWS, 2003). Surveys suggest the species requires large tracts of forest to occur (Turbill et al., 2008).	Possibility of occurrence  Habitat for this species occurs within the remnant vegetation of the Project area. There is a paucity of hollow bearing trees within the Project area and the vegetation communities of the disturbance area represent foraging habitat only for this species.  (No database records, predicted to occur on EPBC search tool)



	Stati	us*		
Species	NC	EPBC	Habitat preference	Likelihood of occurrence
	Act	Act		
Collared Delma Delma torquate (P)	V	V	Occupies a range of eucalypt woodlands and open forests; lives under surface rock and large woody debris (Wilson 2015). The Project area is within the species' known range with several records from locations north-west of Roma	Possibility of Occurrence  Low quality habitat for this species occurs in the wooded communities on Project area. The absence of surface rock and low quantities of fallen woody material make habitat quality for this species very low.  (No database records, predicted to occur on EPBC search tool)
Dunmall's Snake Furina dunmalli (P)	V	V	Rarely encountered. Occurs in a variety of habitats including forests to woodlands (including Callitris species) on sandy soils, cracking clay soils with Brigalow scrub, and dry vine scrub. Occurs in the Brigalow Belt in southeast inland Queensland.	Possibility of Occurrence  The species is little known and appears to have broad habitat requirements that includes fallen woody material for shelter.  (No database records, predicted to occur on EPBC search tool)
Fitzroy River turtle Rheodytes leukops (W/P)	V	V	Aquatic species showing a clear preference for fast flowing water (near sand banks for egg laying) with a preferred substratum as coarse river sand and gravel.	Will not occur  No habitat for this species is present or close to the site
Golden-tailed gecko Strophurus taenicauda (W)	NT		open woodland and open forest where it shelters under loose bark and hollow limbs.	Foraging and roosting habitat for this species occurs within the Project area, particularly under the loose bark associated with Callitris trees
southern snapping turtle Elseya albagula (W/P)	CR	CE	Aquatic species, prefers permanent flowing water habitats where there are suitable shelters and refuges (e.g. fallen trees).	Will not occur  No habitat for this species is present or close to the site



	Stati	ıs*		
Species	NC Act	EPBC Act	Habitat preference	Likelihood of occurrence
Woma Aspidites ramsayi (W)	NT		In the Brigalow Belt region, this species occurs on black soils and in stony ridge country in brigalow Acacia harpophylla woodland and grasslands.	Very low possibility of occurrence  Very small areas of foraging habitat for this species occurs within the brigalow communities of the Project area
Yakka Skink Egernia rugosa (P)	V	V	Lives in a range of woodland and open forests dominated by Eucalyptus, Acacia and Callitris spp.; also grassland with regrowth trees. Requires suitable soils for burrows or shelters in sinkholes, abandoned rabbit warrens or large fallen/piled woody material	Possibility of occurrence  Low quality habitat for this species occurs in the wooded communities. Soil types are suitable for this species, however there is a paucity of fallen woody material making habitat quality low.  (No database records, predicted to occur on EPBC search tool)

W = WildNet, P = Protected Matters search.



#### 3.1.3 Geology

The Detailed surface geology – Queensland (2015) spatial database mapping layer (**Figure 3.1**) identifies the study area as being dominated by large grained lithic sandstones overlaying fine-grained lithic sandstones. The more resistant large-grained sandstones are characterised by low hills and plateaus with deep sandy surfaces (land zone 10) and the underlying geology gives rise to valley bottoms that support deep sandy clays (land zone 9) (**Tables 3.1**).

Table 3.1: Major geology units mapped from the Survey area (source: Detailed surface geology – Queensland, 2015)

Map Symbol/Nam e	Age	Lithology Description	Land Zone
Jev/b	JURASSIC	Fine to medium-grained quartzose sandstone; fossil wood	9
Jew	JURASSIC	Fine lithic sandstone, siltstone, mudstone, concretionary ironstone oolitic in part	9
Je	EARLY JURASSIC	Labile and sublabile, fine to medium-grained sandstone, carbonaceous mudstone, siltstone and minor coal; local oolitic ironstone	9
Jh	MIDDLE JURASSIC	Pale brown to pale grey, poorly sorted, medium-grained, feldspathic sublabile sandstone (at base) and fine-grained, well-sorted quartzose sandstone (at top); minor dark grey carbonaceous siltstone, mudstone and rare pebble conglomerate	10

#### 3.1.4 Regional Ecosystem Distribution

The distribution of remnant (VM Act) regional ecosystems as mapped by the Queensland Herbarium (V10.1) at a scale of 1:100,000 is shown in **Figure 3.2**. Descriptions from the Regional Ecosystem Description Database (REDD) (version 11) for these regional ecosystems are presented in **Table 3.2**.

The Herbarium 1:100,000 regional ecosystem maps the extant remnant vegetation within the Project area as a mosaic of eucalypt dominated woodlands on sand soils (REs 11.10.7 and RE 11.10.1) and woodlands dominated by white cypress (RE 11.10.9) with very minor sub-dominant occurrences of semi-evergreen vine thicket as part of some heterogenous polygons. There are large areas of non-remnant grazing lands mapped along the alignment.



Table 3.2: State Mapped Regional Ecosystems within the Project Area

RE	Biodiversity status	Description	Area
11.10.1	NCP	Corymbia citriodora predominates and forms a distinct but discontinuous woodland (to open forest) canopy (20-30m high). On rocky slopes, Eucalyptus crebra and C. hendersonii may be scattered throughout the canopy or locally abundant. On flats and footslopes, scattered E. crebra, C. clarksoniana and C. tessellaris may occur. Corymbia trachyphloia and E. cloeziana often occur on crests and plateaus while E. apothalassica and E. longirostrata sometimes occur in moister microhabitats.  Scattered tall to low shrubs, such as Acacia leiocalyx, Acacia spp., Bursaria spinosa subsp. spinosa, Persoonia falcata, Alphitonia excelsa, Petalostigma pubescens and Xanthorrhoea johnsonii are usually present and sometimes form a conspicuous layer. The ground layer varies from sparse to moderately dense (depending on the rockiness) and is dominated by perennial grasses. Occurs on hills and ranges, particularly on colluvial lower slopes, formed from medium to coarse-grained sediments (usually sandstone). Associated soils are often texture contrast with a thin sandy or loamy surface horizon and some uniform sandy and lithosol soils. (BVG1M: 10a)	5.31
11.10.7	NCP	Eucalyptus crebra and/or E. melanophloia +/- E. populnea shrubby woodland. Eucalyptus melanophloia and/or E. crebra predominate and form a distinct but open canopy. E. populnea is commonly present and may be locally dominant particularly on lower slopes. A low tree to tall shrub layer usually dominated by a range of species including Eremophila mitchellii, Acacia decora, A. longispicata spp. longispicata and A. excelsa is present. A low shrub layer with Petalostigma pubescens and other species is formed in places. The ground layer is variable in cover and composition, but composed mainly of grasses. Occurs on the lower slopes of scarp retreats, associated with dissected tablelands. Associated soils are generally moderately deep, acidic, sandy, yellow earths and sandy-surfaced texture contrast soils formed from medium to coarse-grained sediments. (BVG1M: 12a)	7.08
11.10.8	ОС	Semi-evergreen vine thicket and microphyll rainforest. Occurs on medium to coarse-grained sediments that may be subject to local enrichment from adjacent rocks such as basalt as well as seepage. (BVG1M: 7a)	5.31
11.10.9	NCP	Callitris glaucophylla woodland to open forest often associated with Eucalyptus melanophloia in the tree canopy and a sparse ground layer. Various other tree species may be present including Corymbia clarksoniana, Eucalyptus populnea, C. tessellaris, E. chloroclada and Angophora leiocarpa which may form a mono-specific open woodland in places. Low trees such as Allocasuarina luehmannii, Alphitonia excelsa, Lysicarpus angustifolius, Geijera parviflora and Acacia spp. Sometimes conspicuous in mid low tree to tall shrub layer. The ground layer	11.81



RE	Biodiversity status	Description	Area
		is often sparse and dominated by grasses such as Aristida echinata, A. jerichoensis, A. caput-medusae, Bothriochloa decipiens, Eriachne mucronata, Enneapogon spp. And sometimes Triodia mitchellii. Occurs on deep uniform sandy and deep texture contrast soils on course grained sediments. (BVG1M: 20a)	
Non-rem			72.51

NCP = no concern at present, OC = Of concern

#### 3.1.5 Essential Habitat

There is no essential habitat mapped within the Project area.

#### 3.1.6 Threatened Ecological Communities

There are five Threatened Ecological Communities (TEC) predicted to occur within the Project area:

- Brigalow (Acacia harpophylla dominant and codominant)
- Coolibah Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions
- Poplar Box Grassy Woodland on Alluvial Plains
- Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions
- Weeping Myall Woodlands



#### 3.2 Field Results

Field results are based on surveys carried out 27 August -1 September 2020 by Donovan Sharp and Heath Agnew.

#### 3.2.1 Field Mapped Regional Ecosystems

The remnant regional ecosystems within the Project area are dominated by Poplar box *Eucalyptus populnea* dominated woodlands with a subcanopy characterised by the presence of white cypress *Callitris glaucophylla* (RE 11.10.11). In minor areas where White cypress dominates the woodlands these areas have been mapped as RE 11.10.9. One patch of Brigalow *Acacia harpophylla* dominated open forest occurs within the Project area. This minor occurrence is less than 0.5 ha but is intimately connected to a larger patch of RE 11.9.5 outside of the Project area and has therefore been mapped at the Project scale.

Table 3.3: Field Mapped Regional Ecosystems within the Project Area

RE	Biodiversity status	Description	Area
11.9.5	E	Open forest dominated by Acacia harpophylla and/or Casuarina cristata (10-20m) or Acacia harpophylla with a semi-evergreen vine thicket understorey. Open forest dominated by C. cristata is more common in southern parts of the bioregion. A prominent low tree or tall shrub layer dominated by species such as Geijera parviflora and Eremophila mitchellii, and often with semi-evergreen vine thicket species is often present. The latter include Flindersia dissosperma, Brachychiton rupestris, Excoecaria dallachyana, Macropteranthes leichhardtii and Acalypha eremorum in eastern areas, and species such as Carissa ovata, Owenia acidula, Croton insularis, Denhamia oleaster and Notelaea microcarpa in south-western areas. Melaleuca bracteata may be present along watercourses. Occurs on finegrained sediments. The topography includes gently undulating plains, valley floors and undulating footslopes and rarely on low hills. The soils are generally deep texture-contrast and cracking clays. The cracking clays are usually black or grey to brown or reddish-brown in colour, often self-mulching and sometimes with gilgai microrelief in flatter areas. Some texture contrast soils are shallow to only moderately deep. (BVG1M: 25a)	2.15
11.9.10	E	Eucalyptus populnea predominates forming a distinct but discontinuous canopy (15-18 m tall). Acacia harpophylla and sometimes Casuarina cristata usually forms a lower tree layer (8-14 m tall) which occasionally becomes the dominant layer. An open to moderately dense layer of tall shrubs is usually present and dominated by Eremophila mitchellii and Geijera parviflora with Acacia excelsa, Atalaya hemiglauca, Psydrax oleifolia, Alectryon oleifolius frequent. Scattered low shrubs such as Carissa ovata and Eremophila deserti are frequently present. The ground cover is usually sparse, and dominated by the grasses Aristida ramosa, Enteropogon acicularis, Bothriochloa decipiens and Paspalidium spp. Occurs on Cainozoic to Proterozoic consolidated, fine-grained sediments. Occurs on lower parts of undulating plains often with deep texture-contrast soils. Occurs	2.95



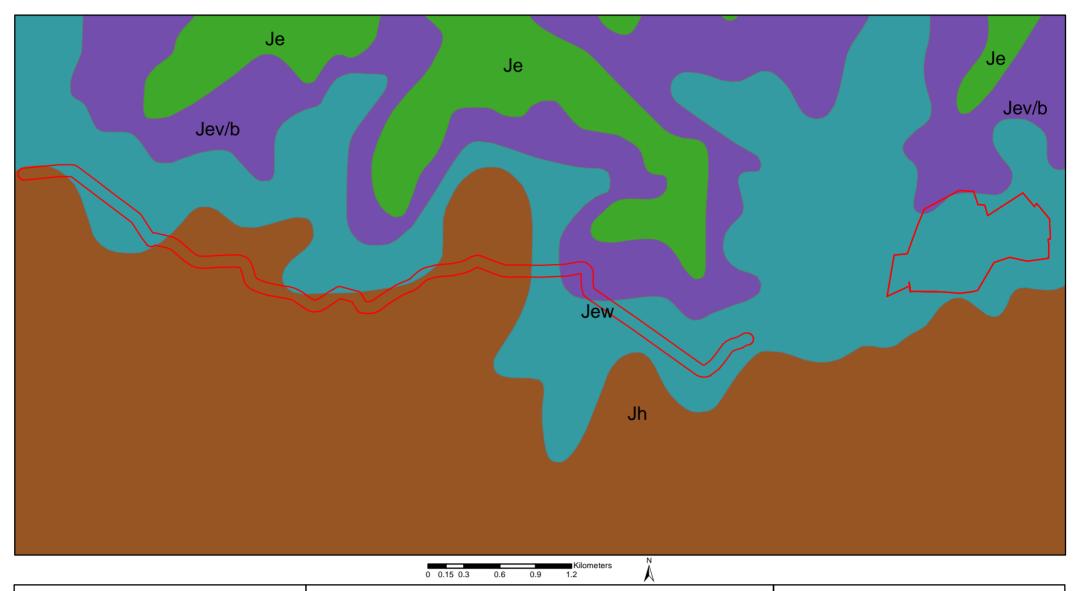
RE	Biodiversity status	Description	Area
		on sodic and saline soils which may act as a discharge area if adjacent to alluvium.	
11.10.9	NCP	Callitris glaucophylla woodland to open forest often associated with Eucalyptus melanophloia in the tree canopy and a sparse ground layer. Various other tree species may be present including Corymbia clarksoniana, Eucalyptus populnea, C. tessellaris, E. chloroclada and Angophora leiocarpa which may form a mono-specific open woodland in places. Low trees such as Allocasuarina luehmannii, Alphitonia excelsa, Lysicarpus angustifolius, Geijera parviflora and Acacia spp. Sometimes conspicuous in mid low tree to tall shrub layer. The ground layer is often sparse and dominated by grasses such as Aristida echinata, A. jerichoensis, A. caput-medusae, Bothriochloa decipiens, Eriachne mucronata, Enneapogon spp. And sometimes Triodia mitchellii. Occurs on deep uniform sandy and deep texture contrast soils on course grained sediments. (BVG1M: 20a)	1.83
11.10.11	NCP	Eucalyptus populnea predominates forming a discontinuous canopy (13-18 m high). E. melanophloia is often present in the canopy, and occasionally E. chloroclada trees occur. Eucalyptus moluccana or E. microcarpa may dominate localised areas. Callitris glaucophylla forms a lower tree layer (10-13 m tall) of varying density. Allocasuarina luehmannii is prominent in this layer in places. A tall shrub layer is developed in some stands. Dense patches of low shrubs occur in some stands. The ground cover is usually sparse and dominated by the perennial grasses, Bothriochloa decipiens and Aristida spp. Occurs on undulating to rolling hills. The soils are predominantly deep texture contrast soils with sandy surface horizons (up to 70 cms deep), over strongly alkaline to acidic, yellow clayey subsoils. (BVG1M: 17a)	16.90
Non-rem			124.76

#### 3.2.2 Threatened Species

No threatened flora or fauna species listed under the Nature Conservation Act (1992) or the Environment Protection and Biodiversity Conservation Act (1999) were found within the Project area. It is unlikely that any threatened flora species occur within the Project area whilst habitat for the Squatter Pigeon - southern subspecies, Short-beaked echidna and Golden-tailed gecko was found to be present.

#### 3.2.3 Threatened Ecological Communities

The TEC, Brigalow (*Acacia harpophylla* dominant and codominant) as defined by the presence of RE 11.9.5 was mapped within the Project area (**Figure 3.3**). The first area on the alignment has an area of this patch is less than the 0.5ha threshold for mapping TECs, however it is part of a large area of RE 11.9.5 that extends outside of the Project area and has therefore been included as the TEC. The second area occurs within the pivot irrigation area. No other TECs occur within or adjacent to the Project area.



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Aerial imagery courtesy of Bing Maps.

#### **LEGEND**

Project area

Boxvale Sandstone Member

Evergreen Formation

Hutton Sandstone

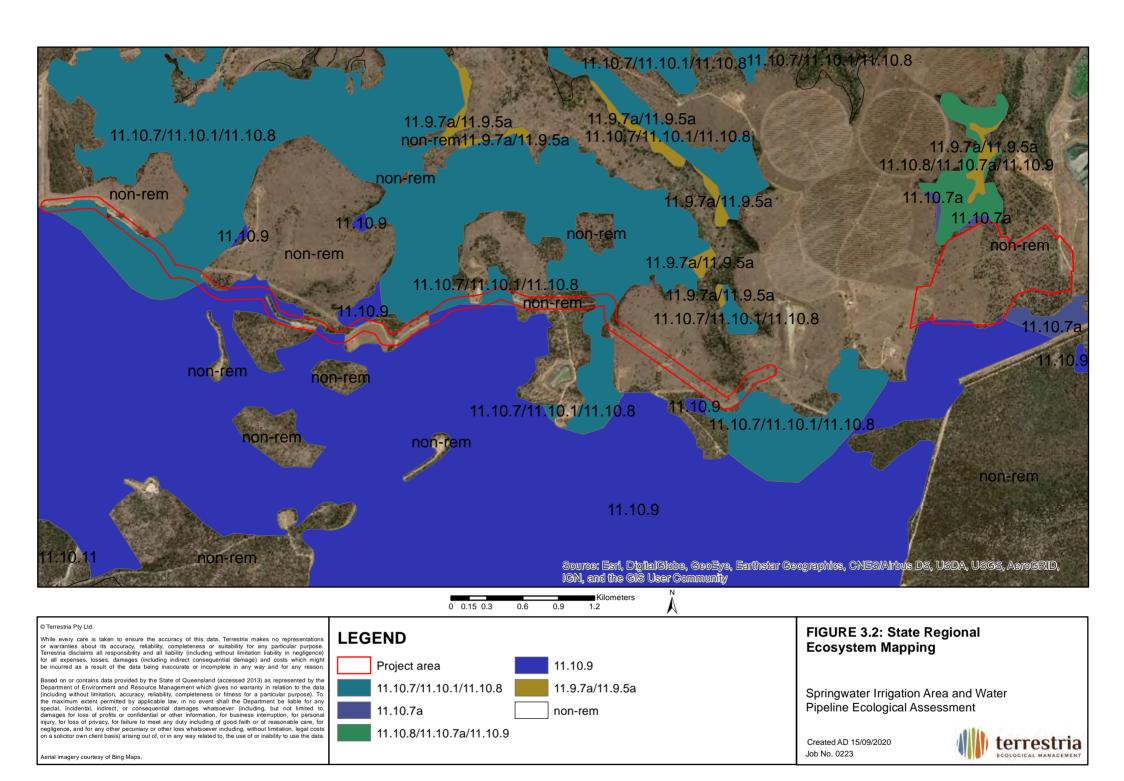
Westgrove Ironstone Member

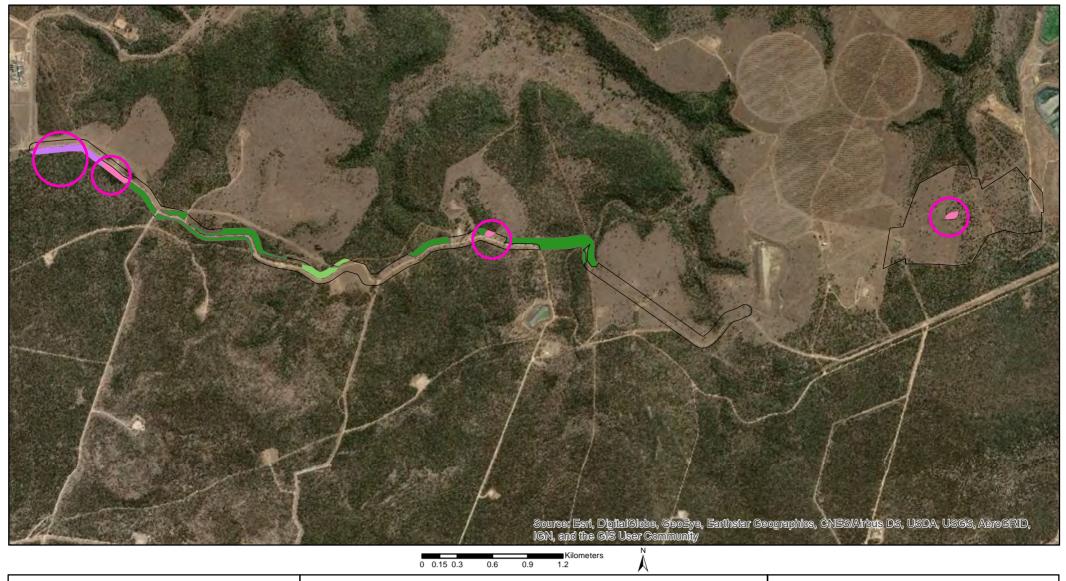
# FIGURE 3.1: State Detailed Surface Geological Mapping

Springwater Irrigation Area and Water Pipeline Ecological Assessment

Created AD 15/09/2020 Job No. 0223







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Aerial imagery courtesy of Bing Maps.

#### **LEGEND**

11.10.11

11.10.9

11.9.10

11.9.5

non-rem

# **Threatened Ecological Community**

#### FIGURE 3.3: Field Validated Regional **Ecosystem Mapping**

Springwater Irrigation Area and Water Pipeline Ecological Assessment

Created AD 15/09/2020 Job No. 0223





#### 3.3 Discussion

The survey area has been heavily grazed by cattle and historically cleared. Most of the timbered areas were covered by remnant woodland regional ecosystems with a No concern at present Biodiversity Status. There is one small patch of endangered RE 11.9.5 which also qualifies as a Threatened Ecological Community within the pipeline alignment and one small patch within the irrigation area. The endangered (biodiversity status) RE 11.9.10 occurs in the westernmost end of the pipeline alignment The changes in mapped regional ecosystem areas between the State 1:100,000 mapping and the field 1:10,000 mapping are given in **Table 4.1**, below.

No threatened flora species were found and habitat for threatened flora species was found to be very poor. The likelihood of any threatened flora species remaining undetected within the Project area is very low.

The whole Project area provides habitat for Squatter Pigeon - southern subspecies (*Geophaps scripta scripta*) whilst the timbered areas provide foraging habitat for the South-eastern Long-eared Bat (*Nyctophilus corbeni*), Red goshawk Erythrotriorchis radiatus, Short-beaked echidna *Tachyglossus aculeatus, a*nd general habitat for Collared Delma *Delma torquata*, Dunmall's Snake *Furina dunmalli, Golden-tailed gecko Strophurus taenicauda* and Yakka Skink *Egernia rugosa*.

Table 4.1: Change in Mapped Area of Regional Ecosystems within the Project Area

RE	Biodiversity status	State Mapped Area (ha)	Project Mapped Area (ha)
11.10.1	NCP	5.31	
11.10.7	NCP	7.08	
11.10.8	OC	5.31	
11.10.9	NCP	11.81	1.83
11.10.11	NCP		16.90
11.9.5	E		2.15
11.9.10	E		2.95
Non-rem		72.51	124.76

#### 3.4 References

Significant Impact Guidelines, (2013). *Matters of National Environmental Significance; Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999*. Australian Department of Environment.

Appendix A
WildNet Database Search Results



#### Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All Type: All

Status: All

Records: All

Date: All

Latitude: -25.764 Longitude: 149.012

Distance: 20

Email: adaniel@terrestria.com.au

Date submitted: Tuesday 15 Sep 2020 10:09:15 Date extracted: Tuesday 15 Sep 2020 10:10:05

The number of records retrieved = 625

#### **Disclaimer**

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

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Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
animals	amphibians	Bufonidae	Rhinella marina	cane toad	Υ			1
animals	amphibians	Hylidae	Litoria peronii	emerald spotted treefrog		С		3/3
animals	amphibians	Hylidae	Litoria rubella	ruddy treefrog		С		4/4
animals	amphibians	Hylidae	Litoria caerulea	common green treefrog		С		18/7
animals	amphibians	Hylidae	Cyclorana verrucosa	rough collared frog		С		1/1
animals	amphibians	Hylidae	Litoria latopalmata	broad palmed rocketfrog		С		8/6
animals	amphibians	Hylidae	Cyclorana alboguttata	greenstripe frog		С		2/2
animals	amphibians	Hylidae	Cyclorana novaehollandiae	eastern snapping frog		С		3/2
animals	amphibians	Hylidae	Litoria fallax	eastern sedgefrog		С		6/6
animals	amphibians	Hylidae	Cyclorana brevipes	superb collared frog		C		1/1
animals	amphibians	Limnodynastidae	Platyplectrum ornatum	ornate burrowing frog		С		37/31
animals	amphibians	Limnodynastidae	Limnodynastes terraereginae	scarlet sided pobblebonk		C		5/2
animals	amphibians	Limnodynastidae	Limnodynastes tasmaniensis	spotted grassfrog		C		10/7
animals	amphibians	Limnodynastidae	Limnodynastes fletcheri	barking frog		C		6/6
animals	amphibians	Limnodynastidae	Limnodynastes salmini	salmon striped frog		C		1
animals	amphibians	Myobatrachidae	Uperoleia rugosa	chubby gungan		C		5
animals	amphibians	Myobatrachidae	Crinia parinsignifera	beeping froglet		C		1
animals	amphibians	Myobatrachidae	Uperoleia laevigata	eastern gungan		C		4/4
animals	amphibians	Myobatrachidae	Pseudophryne major	great brown broodfrog		С		10/9
animals	birds	Acanthizidae	Acanthiza reguloides	buff-rumped thornbill		C		3/2
animals	birds	Acanthizidae	Sericornis frontalis	white-browed scrubwren		C		2
animals	birds	Acanthizidae	Pyrrholaemus sagittatus	speckled warbler		C		2
animals	birds	Acanthizidae	Smicrornis brevirostris	weebill		C		5/2
animals	birds	Acanthizidae	Gerygone olivacea	white-throated gerygone		C		1
animals	birds	Acanthizidae	Acanthiza pusilla	brown thornbill		С		1
animals	birds	Acanthizidae	Gerygone fusca	western gerygone		C		1
animals	birds	Acanthizidae	Acanthiza nana	yellow thornbill		C		1
animals	birds	Acanthizidae	Acanthiza apicalis	inland thornbill		С		3/3
animals	birds	Accipitridae	Accipiter cirrocephalus	collared sparrowhawk		С		1
animals	birds	Accipitridae	Aquila audax	wedge-tailed eagle		С		4
animals	birds	Aegothelidae	Aegotheles cristatus	Australian owlet-nightjar		С		3
animals	birds	Anatidae	Anas gracilis	grey teal		С		1
animals	birds	Anatidae	Anas superciliosa	Pacific black duck		С		1
animals	birds	Anatidae	Chenonetta jubata	Australian wood duck		C		3
animals	birds	Apodidae	Hirundapus caudacutus	white-throated needletail		V	V	1
animals	birds	Ardeidae	Ardea intermedia	intermediate egret		C		1
animals	birds	Ardeidae	Ardea alba modesta	eastern great egret		С		2
animals	birds	Ardeidae	Ardea pacifica	white-necked heron		C		2
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron		C		3
animals	birds	Artamidae	Artamus cinereus	black-faced woodswallow		С		1
animals	birds	Artamidae	Gymnorhina tibicen	Australian magpie		С		5
animals	birds	Artamidae	Strepera graculina	pied currawong		С		8
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird		С		6
animals	birds	Artamidae	Cracticus nigrogularis	pied butcherbird		С		3
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo		С		3
animals	birds	Cacatuidae	Eolophus roseicapilla	galah		С		3

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
animals	birds	Cacatuidae	Nymphicus hollandicus	cockatiel		С		2
animals	birds	Cacatuidae	Calyptorhynchus funereus	yellow-tailed black-cockatoo		С		1
animals	birds	Cacatuidae	Calyptorhynchus lathami lathami	glossy black-cockatoo (eastern)	,	V		1
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike	(	С		5
animals	birds	Campephagidae	Coracina tenuirostris	cicadabird	(	С		2
animals	birds	Campephagidae	Coracina papuensis	white-bellied cuckoo-shrike		С		1
animals	birds	Campephagidae	Lalage leucomela	varied triller		С		1
animals	birds	Campephagidae	Lalage tricolor	white-winged triller		С		1
animals	birds	Casuariidae	Dromaius novaehollandiae	emu		С		3
animals	birds	Charadriidae	Vanellus miles novaehollandiae	masked lapwing (southern subspecies)	(	С		2
animals	birds	Climacteridae	Cormobates leucophaea	white-throated treecreeper		С		2
animals	birds	Climacteridae	Cormobates leucophaea metastasis	white-throated treecreeper (southern)	(	С		2 2
animals	birds	Columbidae	Geophaps scripta scripta	squatter pigeon (southern subspecies)	,	V	V	2
animals	birds	Columbidae	Phaps chalcoptera	common bronzewing	(	С		3
animals	birds	Columbidae	Geopelia striata	peaceful dove	(	С		4/2
animals	birds	Columbidae	Ocyphaps lophotes	crested pigeon	(	С		4
animals	birds	Columbidae	Geopelia humeralis	bar-shouldered dove	(	С		1
animals	birds	Columbidae	Leucosarcia melanoleuca	wonga pigeon	(	С		1
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird	(	С		1
animals	birds	Corcoracidae	Struthidea cinerea	apostlebird	(	С		6
animals	birds	Corcoracidae	Corcorax melanorhamphos	white-winged chough	(	С		1
animals	birds	Corvidae	Corvus coronoides '	Australian raven	(	С		6
animals	birds	Corvidae	Corvus orru	Torresian crow	(	С		4
animals	birds	Cuculidae	Centropus phasianinus	pheasant coucal	(	С		2
animals	birds	Cuculidae	Chalcites lucidus	shining bronze-cuckoo	(	С		2/1
animals	birds	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo	(	С		1
animals	birds	Dicruridae	Dicrurus bracteatus	spangled drongo	(	С		1
animals	birds	Estrildidae	Taeniopygia bichenovii	double-barred finch	(	С		4
animals	birds	Estrildidae	Stagonopleura guttata	diamond firetail		С		1/1
animals	birds	Falconidae	Falco cenchroides	nankeen kestrel	(	С		1
animals	birds	Falconidae	Falco berigora	brown falcon	(	С		1
animals	birds	Gruidae	Antigone rubicunda	brolga	(	С		1
animals	birds	Halcyonidae	Dacelo leachii	blue-winged kookaburra	(	С		1
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra	(	С		5
animals	birds	Halcyonidae	Todiramphus sanctus	sacred kingfisher	(	С		1
animals	birds	Halcyonidae	Todiramphus pyrrhopygius	red-backed kingfisher		С		1
animals	birds	Hirundinidae	Hirundo neoxena	welcome swallow	(	С		1
animals	birds	Hirundinidae	Petrochelidon nigricans	tree martin	(	С		1
animals	birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren	(	С		1
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey	(	С		1
animals	birds	Meliphagidae	Nesoptilotis leucotis	white-eared honeyeater		С		6/2
animals	birds	Meliphagidae	Plectorhyncha lanceolata	striped honeyeater	(	С		2/1
animals	birds	Meliphagidae	Melithreptus albogularis	white-throated honeyeater	(	С		1
animals	birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater		С		2
animals	birds	Meliphagidae	Caligavis chrysops	yellow-faced honeyeater	(	С		1
animals	birds	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater		С		4

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
animals	birds	Meliphagidae	Lichmera indistincta	brown honeyeater		С		1
animals	birds	Meliphagidae	Melithreptus gularis	black-chinned honeyeater		C		1
animals	birds	Meliphagidae	Melithreptus lunatus	white-naped honeyeater		С		2
animals	birds	Meliphagidae	Philemon corniculatus	noisy friarbird		С		3
animals	birds	Meliphagidae	Ptilotula penicillata	white-plumed honeyeater				1
animals	birds	Meliphagidae	Manorina melanocephala	noisy miner		C		7
animals	birds	Meliphagidae	Myzomela sanguinolenta	scarlet honeyeater		С		1
animals	birds	Meliphagidae	Philemon citreogularis	little friarbird		С		1
animals	birds	Meliphagidae	Acanthagenys rufogularis	spiny-cheeked honeyeater		С		1
animals	birds	Meropidae	Merops ornatus	rainbow bee-eater		С		1
animals	birds	Monarchidae	Myiagra rubecula	leaden flycatcher		С		1
animals	birds	Monarchidae	Grallina cyanoleuca	magpie-lark		C C C		4
animals	birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird		С		3
animals	birds	Neosittidae	Daphoenositta chrysoptera	varied sittella		С		1/1
animals	birds	Otididae	Ardeotis australis	Australian bustard		С		1
animals	birds	Pachycephalidae	Colluricincla harmonica	grey shrike-thrush		С		4/1
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler		С		4/1
animals	birds	Pachycephalidae	Pachycephala pectoralis	golden whistler		C C C		1
animals	birds	Pardalotidae	Pardalotus striatus	striated pardalote		C		8/2
animals	birds	Pardalotidae	Pardalotus punctatus	spotted pardalote		С		3/2
animals	birds	Petroicidae	Eopsaltria australis	eastern yellow robin		C		3/1
animals	birds	Petroicidae	Petroica goodenovii	red-capped robin		C		1/1
animals	birds	Petroicidae	Petroica rosea	rose robin		C		1
animals	birds	Petroicidae	Microeca fascinans	jacky winter		C C C		4/3
animals	birds	Phasianidae	Coturnix ypsilophora	brown quail		Č		1
animals	birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe		Č		1
animals	birds	Pomatostomidae	Pomatostomus temporalis	grey-crowned babbler		C C		5
animals	birds	Psittacidae	Trichoglossus haematodus moluccanus	rainbow lorikeet		Č		4
animals	birds	Psittacidae	Platycercus adscitus	pale-headed rosella				6
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot		Č		2
animals	birds	Psittacidae	Parvipsitta pusilla	little lorikeet		C C C		_ 1
animals	birds	Psittacidae	Psephotus haematonotus	red-rumped parrot		Č		1
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen		C C		1
animals	birds	Rallidae	Porphyrio melanotus	purple swamphen		Č		1
animals	birds	Rhipiduridae	Rhipidura albiscapa	grey fantail		Ċ		2
animals	birds	Rhipiduridae	Rhipidura leucophrys	willie wagtail		Č		4
animals	birds	Strigidae	Ninox boobook	southern boobook		Č		2
animals	birds	Threskiornithidae	Platalea flavipes	yellow-billed spoonbill		Č		_ 1
animals	birds	Threskiornithidae	Threskiornis spinicollis	straw-necked ibis		Č		3
animals	birds	Threskiornithidae	Threskiornis molucca	Australian white ibis		Č		1
animals	birds	Timaliidae	Zosterops lateralis	silvereye		Č		3/1
animals	birds	Tytonidae	Tyto longimembris	eastern grass owl		Č		1
animals	birds	Tytonidae	Tyto delicatula	eastern barn owl		Č		1
animals	insects	Aeshnidae	Anax papuensis	Australian Emperor		-		3
animals	insects	Corduliidae	Hemicordulia australiae	Australian emerald				1
animals	insects	Libellulidae	Diplacodes bipunctata	wandering percher				1

Kingdom	Class	Family	Scientific Name	Common Name		Q	Α	Records
animals	insects	Libellulidae	Pantala flavescens	wandering glider				2
animals	insects	Libellulidae	Diplacodes haematodes	scarlet percher				3
animals	insects	Libellulidae	Orthetrum caledonicum	blue skimmer				3
animals	insects	Nymphalidae	Junonia orithya albicincta	blue argus				2
animals	insects	Nymphalidae	Hypolimnas bolina nerina	varied eggfly				1
animals	insects	Nymphalidae	Tirumala hamata hamata	blue tiger				1
animals	insects	Nymphalidae	Danaus petilia	lesser wanderer				1
animals	insects	Nymphalidae	Junonia villida villida	meadow argus				1
animals	insects	Pieridae	Belenois java teutonia	caper white				1
animals	mammals	Canidae	Canis familiaris (dingo)	dingo				2
animals	mammals	Dasyuridae	Sminthopsis macroura	stripe-faced dunnart		С		1/1
animals	mammals	Dasyuridae	Sminthopsis murina	common dunnart		С		1
animals	mammals	Dasyuridae	Planigale maculata	common planigale		С		4/2
animals	mammals	Emballonuridae	Saccolaimus flaviventris	yellow-bellied sheathtail bat		С		4/1
animals	mammals	Equidae	Equus caballus	horse	Υ			1
animals	mammals	Macropodidae	Notamacropus dorsalis	black-striped wallaby		С		1
animals	mammals	Macropodidae	Notamacropus rufogriseus	red-necked wallaby		С		4
animals	mammals	Macropodidae	Osphranter robustus	common wallaroo		С		4
animals	mammals	Macropodidae	Macropus giganteus	eastern grey kangaroo		С		3
animals	mammals	Macropodidae	Wallabia bicolor	swamp wallaby		С		3
animals	mammals	Miniopteridae	Miniopterus schreibersii oceanensis	eastern bent-wing bat		С		2/1
animals	mammals	Molossidae	Mormopterus lumsdenae	northern free-tailed bat		C		7
animals	mammals	Molossidae	Tadarida australis	white-striped freetail bat		C		3/1
animals	mammals	Molossidae	Mormopterus sp.	'		С		4
animals	mammals	Muridae	Pseudomys delicatulus	delicate mouse		C		5/5
animals	mammals	Muridae	Pseudomys sp.			Ċ		2
animals	mammals	Muridae	Mus musculus	house mouse	Υ			9/8
animals	mammals	Petauridae	Petaurus norfolcensis	squirrel glider		С		1
animals	mammals	Petauridae	Petaurus breviceps sensu lato	sugar glider		С		2
animals	mammals	Potoroidae	Aepyprymnus rufescens	rufous bettong		Č		3
animals	mammals	Suidae	Sus scrofa	pig	Υ			1
animals	mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna	-	SL		1
animals	mammals	Vespertilionidae	Nyctophilus geoffroyi	lesser long-eared bat		C		4/2
animals	mammals	Vespertilionidae	Chalinolobus gouldii	Gould's wattled bat		Č		10/4
animals	mammals	Vespertilionidae	Chalinolobus picatus	little pied bat		Č		2
animals	mammals	Vespertilionidae	Scotorepens sanborni	northern broad-nosed bat		Č		3
animals	mammals	Vespertilionidae	Nyctophilus gouldi	Gould's long-eared bat		Č		5
animals	mammals	Vespertilionidae	Scotorepens sp.	a compared to the contract of		Č		18
animals	mammals	Vespertilionidae	Scotorepens greyii	little broad-nosed bat		Č		5/4
animals	ray-finned fishes	Clupeidae	Nematalosa erebi	bony bream				2
animals	ray-finned fishes	Eleotridae	Hypseleotris galii	firetail gudgeon				_ 1
animals	ray-finned fishes	Melanotaeniidae	Melanotaenia splendida splendida	eastern rainbowfish				1
animals	ray-finned fishes	Terapontidae	Leiopotherapon unicolor	spangled perch				1
animals	reptiles	Agamidae	Diporiphora phaeospinosa	brigalow nobbi		С		1
animals	reptiles	Agamidae	Diporiphora nobbi	nobbi		č		1
animals	reptiles	Agamidae	Pogona barbata	bearded dragon		č		6

Kingdom	Class	Family	Scientific Name	Common Name	l	Q	Α	Records
animals	reptiles	Boidae	Antaresia maculosa	spotted python		С		4
animals	reptiles	Boidae	Morelia spilota	carpet python		С		1
animals	reptiles	Boidae	Aspidites ramsayi	woma		NT		1
animals	reptiles	Chelidae	Chelodina expansa	broad-shelled river turtle		С		4
animals	reptiles	Chelidae	Wollumbinia İatisternum	saw-shelled turtle		С		1
animals	reptiles	Chelidae	Emydura macquarii krefftii	Krefft's river turtle		С		12
animals	reptiles	Chelidae	Elseya albagula	southern snapping turtle		CR	CE	2
animals	reptiles	Chelidae	Rheodytes leukops	Fitzroy River turtle		V	V	1
animals	reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake		С		1
animals	reptiles	Diplodactylidae	Oedura tryoni	southern spotted velvet gecko		Č		2
animals	reptiles	Diplodactylidae	Amalosia rhombifer	zig-zag gecko		Č		1
animals	reptiles	Diplodactylidae	Oedura monilis sensu lato	ocellated velvet gecko		Č		1
animals	reptiles	Diplodactylidae	Diplodactylus vittatus	wood gecko		Č		2/1
animals	reptiles	Diplodactylidae	Strophurus taenicauda	golden-tailed gecko		ŇT		<i>_,</i> . 7/1
animals	reptiles	Diplodactylidae	Nebulifera robusta	robust velvet gecko		C		1
animals	reptiles	Elapidae	Brachyurophis australis	coral snake		č		1
animals	reptiles	Elapidae	Suta dwyeri	Dwyer's snake		č		2
animals	reptiles	Elapidae	Furina diadema	red-naped snake		Č		3/1
animals	reptiles	Elapidae	Demansia torquata	collared whipsnake		Č		1
animals	reptiles	Elapidae	Demansia torquata Demansia psammophis	yellow-faced whipsnake		č		3
animals	reptiles	Elapidae	Vermicella annulata	bandy-bandy		Č		2/1
animals	reptiles	Elapidae	Pseudonaja textilis	eastern brown snake		Č		11
animals	reptiles	Elapidae	Hoplocephalus bitorquatus	pale-headed snake		Č		2/1
animals	reptiles	Gekkonidae	Gehyra dubia	dubious dtella		Č		43/6
animals	reptiles	Gekkonidae	Gehyra dubla Gehyra versicolor	dubious diella		Č		1
animals	reptiles	Gekkonidae	Heteronotia binoei	Bynoe's gecko		Č		19/3
animals	reptiles	Pygopodidae	Lialis burtonis	Burton's legless lizard		Č		19/3
animals	reptiles	Pygopodidae	Pygopus schraderi	eastern hooded scaly-foot		Č		2
animals	reptiles	Scincidae	Cryptoblepharus pulcher pulcher	elegant snake-eyed skink		Č		6
animals	reptiles	Scincidae	Carlia pectoralis sensu lato	elegalit silake-eyeu skilik		Č		1
animals	reptiles	Scincidae	Cryptoblepharus australis	inland snake-eyed skink		Č		5
		Scincidae				Č		6
animals	reptiles reptiles	Scincidae	Cryptoblepharus pannosus Pygmaeascincus timlowi	ragged snake-eyed skink dwarf litter-skink		Ċ		4
animals	reptiles	Scincidae		pale-flecked garden sunskink		Č		1
animals		Scincidae	Lampropholis guichenoti	eastern robust slider		C		1/1
animals	reptiles	Scincidae	Lerista punctatovittata	fire-tailed skink		C		2
animals	reptiles	Scincidae	Morethia taeniopleura Ctenotus taeniolatus			C		2
animals	reptiles			copper-tailed skink		C		
animals	reptiles	Scincidae	Morethia boulengeri	south-eastern morethia skink				7
animals	reptiles	Scincidae	Carlia vivax	tussock rainbow-skink		C		2
animals	reptiles	Scincidae	Carlia rubigo	orange-flanked rainbow skink		С		1
animals	reptiles	Scincidae	Lerista timida	timid slider		C		1
animals	reptiles	Scincidae	Tiliqua rugosa	shingle-back		C		] 4/4
animals	reptiles	Scincidae	Concinnia tenuis	bar-sided skink		С		4/1
animals	reptiles	Scincidae	Lerista fragilis	eastern mulch slider		C		9
animals	reptiles	Scincidae	Carlia pectoralis	open-litter rainbow skink		C		12
animals	reptiles	Scincidae	Egernia striolata	tree skink		С		3/2

Kingdom	Class	Family	Scientific Name	Common Name		Q	Α	Records
animals	reptiles	Scincidae	Concinnia sokosoma	stout bar-sided skink		С		1
animals	reptiles	Scincidae	Ctenotus spaldingi	straight-browed ctenotus		С		5/1
animals	reptiles	Scincidae	Lygisaurus foliorum	tree-base litter-skink		С		6
animals	reptiles	Typhlopidae	Ánilios sp.			С		1
animals	reptiles	Varanidae	Varanus varius	lace monitor		С		1
animals	reptiles	Varanidae	Varanus gouldii	sand monitor		С		3
animals	reptiles	Varanidae	Varanus tristis	black-tailed monitor		C		6
animals	uncertain	Indeterminate	Indeterminate	Unknown or Code Pending				11/2
fungi	Agaricomycetes	Agaricaceae	Cyathus stercoreus	3		С		1
plants	land plants	Adoxaceae	Sambucus gaudichaudiana	white elder		C		1/1
, plants	land plants	Amaranthaceae	Achyranthes aspera			С		1/1
, plants	land plants	Amaranthaceae	Alternanthera denticulata var. denticulata			С		1/1
plants	land plants	Amaranthaceae	Deeringia amaranthoides	redberry		C C		3/3
plants	land plants	Amaranthaceae	Ptilotus decipiens	,		C		2/2
plants	land plants	Amaranthaceae	Amaranthus viridis	green amaranth	Υ			1/1
plants	land plants	Amaryllidaceae	Proiphys cunninghamii	Moreton Bay lily		С		1/1
plants	land plants	Annonaceae	Melodorum leichhardtii	,		C		2/2
plants	land plants	Apiaceae	Centella asiatica			C		1
plants	land plants	Apiaceae	Cyclospermum leptophyllum		Υ			1/1
plants	land plants	Apocynaceae	Hoya australis subsp. australis			С		1/1
, plants	land plants	Apocynaceae	Marsdenia					1/1
plants	land plants	Apocynaceae	Marsdenia microlepis			С		1
, plants	land plants	Apocynaceae	Secamone elliptica			С		1/1
, plants	land plants	Apocynaceae	Parsonsia lanceolata	northern silkpod		С		1/1
, plants	land plants	Apocynaceae	Marsdenia pleiadenia	•		C C		1/1
, plants	land plants	Apocynaceae	Parsonsia rotata	veinless silkpod		С		3/3
plants	land plants	Araliaceae	Polyscias elegans	celery wood		C		2/2
, plants	land plants	Araliaceae	Hydrocotyle acutiloba	,		C C		1/1
, plants	land plants	Araliaceae	Hydrocotyle laxiflora	stinking pennywort		С		2/1
, plants	land plants	Aspleniaceae	Asplenium subglandulosum subsp. subglandulosum	31		C C		1/1
, plants	land plants	Asteraceae	Peripleura hispidula var. setosa			С		1/1
, plants	land plants	Asteraceae	Brachyscome whitei subsp. whitei			С		1/1
, plants	land plants	Asteraceae	Apowollastonia spilanthoides			С		1/1
, plants	land plants	Asteraceae	Symphyotrichum subulatum		Υ			3/1
, plants	land plants	Asteraceae	Parthenium hysterophorus	parthenium weed	Υ			1/1
, plants	land plants	Asteraceae	Acanthospermum hispidum	star burr	Υ			1/1
, plants	land plants	Asteraceae	Senecio bathurstianus			С		1/1
plants	land plants	Asteraceae	Cyanthillium cinereum			С		1/1
plants	land plants	Asteraceae	Coronidium glutinosum			С		1/1
plants	land plants	Asteraceae	Olearia microphylla			С		2/2
plants	land plants	Asteraceae	Leiocarpa websteri			С		2/2
plants	land plants	Asteraceae	Calotis lappulacea	yellow burr daisy		C		1/1
, plants	land plants	Asteraceae	Xanthium spinosum	Bathurst burr	Υ			1/1
, plants	land plants	Asteraceae	Camptacra barbata			С		1
plants	land plants	Asteraceae	Olearia canescens subsp. canescens			С		1/1
plants	land plants	Asteraceae	Calotis dentex	white burr daisy		С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
plants	land plants	Asteraceae	Calotis cuneata			С		2/2
plants	land plants	Asteraceae	Centipeda minima			С		3
plants	land plants	Asteraceae	Pluchea xanthina			С		1/1
plants	land plants	Asteraceae	Zinnia peruviana	wild zinnia	Υ			1/1
plants	land plants	Aytoniaceae	Reboulia hemisphaerica			С		1/1
plants	land plants	Aytoniaceae	Asterella drummondii			С		1/1
plants	land plants	Blechnaceae	Doodia					1
plants	land plants	Blechnaceae	Doodia caudata			С		1/1
plants	land plants	Brassicaceae	Rorippa eustylis			C		1/1
plants	land plants	Brassicaceae	Lepidium didymum		Υ			1/1
plants	land plants	Brassicaceae	Lepidium africanum	common peppercress	Υ			1/1
plants	land plants	Bryaceae	Rosulabryum					1/1
plants	land plants	Byblidaceae	Byblis liniflora			С		1/1
plants	land plants	Byttneriaceae	Seringia corollata			Č		1/1
plants	land plants	Byttneriaceae	Waltheria indica			Č		1/1
plants	land plants	Byttneriaceae	Seringia collina			Č		1/1
plants	land plants	Cactaceae	Opuntia tomentosa	velvety tree pear	Υ	•		1
plants	land plants	Cactaceae	Opuntia aurantiaca	tiger pear	Ϋ́			1
plants	land plants	Caesalpiniaceae	Chamaecrista biddulphiana	agor pour	•	С		1/1
plants	land plants	Caesalpiniaceae	Chamaecrista rotundifolia var. rotundifolia		Υ			2/2
plants	land plants	Caesalpiniaceae	Chamaecrista nomame		•	С		1/1
plants	land plants	Campanulaceae	Wahlenbergia islensis			Č		5/5
plants	land plants	Campanulaceae	Wahlenbergia celata			č		1/1
plants	land plants	Campanulaceae	Wahlenbergia queenslandica			Č		1/1
plants	land plants	Campanulaceae	Wahlenbergia tumidifructa			Č		1/1
plants	land plants	Campanulaceae	Lobelia trigonocaulis	forest lobelia		Ċ		1/1
plants	land plants	Campanulaceae	Wahlenbergia gracilis	sprawling bluebell		C		1/1
plants	land plants	Capparaceae	Capparis Ioranthifolia var. bancroftii	opraming bladbon		Č		1/1
plants	land plants	Casuarinaceae	Allocasuarina inophloia			Č		3/3
plants	land plants	Casuarinaceae	Casuarina cunninghamiana subsp. cunninghamiana			č		1/1
plants	land plants	Centrolepidaceae	Centrolepis exserta			č		1/1
plants	land plants	Chenopodiaceae	Einadia trigonos			Č		2/2
plants	land plants	Chenopodiaceae	Dysphania ambrosioides		Υ			1/1
plants	land plants	Chenopodiaceae	Maireana enchylaenoides		•	С		3/3
plants	land plants	Chenopodiaceae	Dysphania glomulifera			Č		1/1
plants	land plants	Clusiaceae	Hypericum gramineum			č		3/2
plants	land plants	Convolvulaceae	Ipomoea plebeia	bellvine		č		1/1
plants	land plants	Convolvulaceae	Evolvulus alsinoides var. decumbens	Senvino		Ċ		1/1
plants	land plants	Convolvulaceae	Jacquemontia paniculata var. tomentosa			Č		1/1
plants	land plants	Cucurbitaceae	Citrullus amarus		Υ			1/1
plants	land plants	Cucurbitaceae	Diplocyclos palmatus subsp. palmatus		•	С		1/1
plants	land plants	Cucurbitaceae	Sicyos australis	star cucumber		č		1/1
plants	land plants	Cupressaceae	Callitris endlicheri	black cypress pine		č		1/1
plants	land plants	Cyperaceae	Fuirena incrassata	Sidest eyprode pine		Č		1/1
plants	land plants	Cyperaceae	Scleria sphacelata			Č		1/1
plants	land plants	Cyperaceae	Cyperus brevifolius	Mullumbimby couch	Υ	•		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
plants	land plants	Cyperaceae	Cyperus leptocarpus			С		1/1
plants	land plants	Cyperaceae	Fimbristylis nutans			С		1
plants	land plants	Cyperaceae	Cyperus polystachyos			C C		5
plants	land plants	Cyperaceae	Cyperus sphaeroideus			С		2/1
plants	land plants	Cyperaceae	Schoenus yarrabensis			С		2/1
plants	land plants	Cyperaceae	Scleria mackaviensis			С		1/1
plants	land plants	Cyperaceae	Abildgaardia vaginata			C		1/1
plants	land plants	Cyperaceae	Lepidosperma laterale			С		2/2
, plants	land plants	Cyperaceae	Cyperus sanguinolentus			CCCCC		2/1
plants	land plants	Cyperaceae	Fimbristylis dichotoma	common fringe-rush		Č		6/3
plants	land plants	Cyperaceae	Eleocharis atricha	tuber spikerush		Č		2/1
plants	land plants	Cyperaceae	Cyperus nervulosus			Č		1/1
plants	land plants	Cyperaceae	Cyperus leiocaulon			Č		2/2
plants	land plants	Cyperaceae	Fimbristylis nuda			Č		2/2
plants	land plants	Cyperaceae	Cyperus exaltatus	tall flatsedge		000000		_, _ 1
plants	land plants	Cyperaceae	Cyperus difformis	rice sedge		č		7
plants	land plants	Cyperaceae	Caustis pentandra	thick twistrush		č		2/2
plants	land plants	Cyperaceae	Eleocharis plana	ribbed spikerush		Č		2/1
plants	land plants	Cyperaceae	Cyperus flavidus	nobod opikordon		CCCCC		2/ · 4/ 1
plants	land plants	Cyperaceae	Caustis flexuosa			Č		1/1
plants	land plants	Cyperaceae	Cyperus lucidus			C		1/1
plants	land plants	Cyperaceae	Cyperus haspan			Č		1
plants	land plants	Cyperaceae	Gahnia aspera			č		1/1
plants	land plants	Cyperaceae	Caustis sp. (Robinson Gorge P.I.Forster+ PIF11256	)		C		2/2
plants	land plants	Cyperaceae	Cyperus polystachyos var. polystachyos	/		C		1/1
plants	land plants	Cyperaceae	Cyperus nutans var. eleusinoides	flatsedge		Č		1/1
plants	land plants	Cyperaceae	Schoenoplectus tabernaemontani	natseage		C		6/1
plants	land plants	Cyperaceae	Cyperus haspan subsp. haspan			C		1/1
plants	land plants	Cyperaceae	Schoenus apogon var. apogon			Č		1/ 1
plants	land plants	Cyperaceae	Schoenoplectiella mucronata			Č		7/1
plants	land plants	Cyperaceae	Eleocharis cylindrostachys			C		3/2
plants	land plants	Cyperaceae	Fimbristylis aestivalis			Č		1/1
plants	land plants	Cyperaceae	Fimbristylis bisumbellata			Č		1/1
plants	land plants	Dicranaceae	Sclerodontium clavinerve			C		1/ 1
plants	land plants	Dilleniaceae	Hibbertia acicularis			Č		1/1
plants	land plants	Dilleniaceae	Hibbertia oligodonta			Č		1/1
plants	land plants	Dilleniaceae	Hibbertia diigodonia Hibbertia cistoidea			Č		3/3
•	•	Droseraceae	Drosera burmanni			C		2/1
plants	land plants	Droseraceae				Č		1/1
plants	land plants land plants		Drosera finlaysoniana	small leaved shopy		Č		2/2
plants		Ebenaceae Entodontaceae	Diospyros humilis Entodon mackaviensis	small-leaved ebony		C		2/2 2/2
plants	land plants			rad aluator booth		$\tilde{c}$		
plants	land plants	Ericaceae	Acrotriche aggregata	red cluster heath		C		2/2 1/1
plants	land plants	Ericaceae	Lissanthe strigosa subsp. subulata			$\sim$		1/1
plants	land plants	Ericaceae	Lissanthe pluriloculata	priokly broom back		С		2/2
plants	land plants	Ericaceae	Monotoca scoparia	prickly broom heath		C C		1/1
plants	land plants	Ericaceae	Melichrus sp. (Isla Gorge P.Sharpe+ 601)			C		4/4

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
plants	land plants	Ericaceae	Agiortia pleiosperma			С		1/1
plants	land plants	Ericaceae	Melichrus urceolatus	honey gorse		С		1/1
plants	land plants	Ericaceae	Leucopogon grandiflorus			C C		5/5
plants	land plants	Eriocaulaceae	Eriocaulon athertonense			С		2/1
plants	land plants	Eriocaulaceae	Eriocaulon scariosum			С		3/3
plants	land plants	Erythroxylaceae	Erythroxylum sp. (Splityard Creek L.Pedley 5360)			C C		3/3
plants	land plants	Euphorbiaceae	Bertya opponens			С	V	2/2
plants	land plants	Euphorbiaceae	Bertya oleifolia			С		5/5
plants	land plants	Euphorbiaceae	Croton insularis	Queensland cascarilla		C C C		3/3
, plants	land plants	Euphorbiaceae	Acalypha eremorum	soft acalypha		С		3/3
plants	land plants	Euphorbiaceae	Bertya lapicola subsp. brevifolia	· · ·		С		2/2
plants	land plants	Fabaceae	Hovea lorata			С		3/3
plants	land plants	Fabaceae	Pultenaea millarii var. angustifolia			C		2/2
plants	land plants	Fabaceae	Hovea longipes	brush hovea		С		1/1
plants	land plants	Fabaceae	Lotus cruentus	red-flowered lotus		С		1/1
plants	land plants	Fabaceae	Desmodium gunnii			Ċ		1/1
plants	land plants	Fabaceae	Glycine tabacina	glycine pea		C C C		1/1
plants	land plants	Fabaceae	Hovea planifolia	371 1 1		С		2/2
plants	land plants	Fabaceae	Mirbelia pungens			Č		1/1
plants	land plants	Fabaceae	Tephrosia rufula			Č		1/1
plants	land plants	Fabaceae	Crotalaria juncea	sunhemp	Υ	_		1/1
plants	land plants	Fabaceae	Mirbelia aotoides		-	С		1/1
plants	land plants	Fabaceae	Swainsona affinis			C		2/2
plants	land plants	Fabaceae	Indigofera hirsuta	hairy indigo		C		1/1
plants	land plants	Fabaceae	Stylosanthes scabra	, 3	Υ			1/1
plants	land plants	Fabaceae	Swainsona phacoides	dwarf swainsona		С		1/1
plants	land plants	Fabaceae	Indigofera brevidens			Č		2/2
plants	land plants	Fabaceae	Indigofera pratensis			Č		2/2
plants	land plants	Fabaceae	Chorizema parviflorum	eastern flame pea		С		1/1
plants	land plants	Fabaceae	Hardenbergia perbrevidens	Total Marine Page		Č		2/2
plants	land plants	Fabaceae	Rhynchosia minima var. australis			C C		1/1
plants	land plants	Funariaceae	Goniomitrium acuminatum			С		1/1
plants	land plants	Goodeniaceae	Goodenia delicata			Č		1/1
plants	land plants	Goodeniaceae	Goodenia					2/2
plants	land plants	Goodeniaceae	Velleia paradoxa	spur velleia		С		1/1
plants	land plants	Goodeniaceae	Goodenia bellidifolia subsp. argentea			Č		1/1
plants	land plants	Goodeniaceae	Goodenia disperma			Č		1/1
plants	land plants	Goodeniaceae	Scaevola parvibarbata			Č		1/1
plants	land plants	Grimmiaceae	Grimmia laevigata			Č		2/2
plants	land plants	Haloragaceae	Gonocarpus urceolatus			Č		10/10
plants	land plants	Haloragaceae	Myriophyllum gracile var. lineare			Č		2/1
plants	land plants	Haloragaceae	Haloragis heterophylla	rough raspweed		Č		2/1
plants	land plants	Juncaceae	Juncus bufonius	toad rush	Υ	-		2/1
plants	land plants	Juncaceae	Juncus prismatocarpus	branching rush	-	С		3/2
plants	land plants	Juncaceae	Juncus continuus			Č		3/2
plants	land plants	Juncaceae	Juncus usitatus			Č		2/1

Kingdom	Class	Family	Scientific Name	Common Name	<u> </u>	Q	Α	Records
plants	land plants	Lamiaceae	Mentha grandiflora			С		1/1
plants	land plants	Lamiaceae	Mentha satureioides	native pennyroyal		С		1/1
plants	land plants	Lamiaceae	Prostanthera lithospermoides			С		4/4
plants	land plants	Lamiaceae	Prostanthera sp. (Baking Board V.Hando 135)			С		1/1
plants	land plants	Lamiaceae	Prostanthera cryptandroides subsp. euphrasioides			С		3/3
plants	land plants	Laxmanniaceae	Lomandra ramosissima			С		2/2
plants	land plants	Laxmanniaceae	Lomandra longifolia			C C C		1/1
plants	land plants	Laxmanniaceae	Lomandra glauca	pale matrush		С		2/2
plants	land plants	Lentibulariaceae	Utricularia gibba	floating bladderwort		C C		1
plants	land plants	Lentibulariaceae	Utricularia dichotoma	fairy aprons		С		3/2
plants	land plants	Leskeaceae	Pseudoleskeopsis imbricata	, ,		С		1/1
plants	land plants	Leucobryaceae	Campylopus introflexus			C		1/1
plants	land plants	Loganiaceae	Logania albiflora			С		1/1
plants	land plants	Loranthaceae	Amyema quandang var. bancroftii	broad-leaved grey mistletoe		С		1/1
plants	land plants	Lythraceae	Rotala tripartita	<b>3</b> ,		С		1/1
plants	land plants	Macarthuriaceae	Macarthuria neocambrica			С		2/2
plants	land plants	Malvaceae	Sida spinosa	spiny sida	Υ			1/1
plants	land plants	Malvaceae	Pavonia hastata	pink pavonia	Υ			1/1
plants	land plants	Malvaceae	Gossypium sturtianum			С		2/2
plants	land plants	Menispermaceae	Tinospora smilacina	snakevine		С		2/2
plants	land plants	Meteoriaceae	Papillaria flexicaulis			С		1/1
plants	land plants	Mimosaceae	Acacia decora	pretty wattle		C		1/1
plants	land plants	Mimosaceae	Acacia leiocalyx subsp. leiocalyx	,		С		1/1
plants	land plants	Mimosaceae	Acacia buxifolia subsp. pubiflora			C		1/1
plants	land plants	Mimosaceae	Acacia blakei subsp. blakei			С		11/5
plants	land plants	Mimosaceae	Acacia podalyriifolia	Queensland silver wattle		С		2/2
plants	land plants	Mimosaceae	Acacia parvifoliolata			С		3/3
plants	land plants	Mimosaceae	Acacia longispicata			C		2/2
plants	land plants	Mimosaceae	Acacia glaucocarpa	hickory wattle		С		1/1
plants	land plants	Mimosaceae	Acacia neriifolia	pechey wattle		С		1/1
plants	land plants	Mimosaceae	Acacia macradenia	zig-zag wattle		C		2/2
plants	land plants	Mimosaceae	Acacia juncifolia			С		2/2
plants	land plants	Mimosaceae	Acacia ixiophylla			С		1/1
plants	land plants	Mimosaceae	Acacia amblygona	fan-leaf wattle		С		1/1
plants	land plants	Mimosaceae	Acacia caroleae			С		3/3
plants	land plants	Mimosaceae	Acacia calantha			NT		7/7
plants	land plants	Mimosaceae	Acacia lineata	streaked wattle		С		1/1
plants	land plants	Mimosaceae	Acacia jucunda			С		2/2
plants	land plants	Mimosaceae	Acacia implexa	lightwood		С		1/1
plants	land plants	Mimosaceae	Acacia gnidium	· ·		С		1/1
plants	land plants	Mimosaceae	Acacia spania			NT		2/2
plants	land plants	Mimosaceae	Acacia islana			V		2/2
plants	land plants	Molluginaceae	Glinus oppositifolius			С		1/1
plants	land plants	Moraceae	Trophis scandens subsp. scandens			С		1/1
plants	land plants	Moraceae	Ficus coronata	creek sandpaper fig		С		1
plants	land plants	Myrtaceae	Eucalyptus melanophloia subsp. melanophloia	· · · · · ·		С		1

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
plants	land plants	Myrtaceae	Eucalyptus fibrosa subsp. nubilis			С		2/2
plants	land plants	Myrtaceae	Melaleuca diosmatifolia	mauve honey myrtle		С		1/1
plants	land plants	Myrtaceae	Leptospermum lamellatum	• •		С		1/1
plants	land plants	Myrtaceae	Backhousia angustifolia	narrow-leaved backhousia		С		1/1
plants	land plants	Myrtaceae	Lophostemon suaveolens	swamp box		С		2/2
plants	land plants	Myrtaceae	Eucalyptus viridis	·		С		1/1
plants	land plants	Myrtaceae	Eucalyptus tholiformis			С		1/1
plants	land plants	Myrtaceae	Eucalyptus suffulgens			С		1/1
plants	land plants	Myrtaceae	Sannantha brachypoda			V		11/10
plants	land plants	Myrtaceae	Micromyrtus sessilis			С		1/1
plants	land plants	Myrtaceae	Melaleuca thymifolia	thyme honeymyrtle		C C		1/1
plants	land plants	Myrtaceae	Eucalyptus mediocris	, , ,		С		2/2
plants	land plants	Myrtaceae	Corymbia tessellaris	Moreton Bay ash		С		1/1
plants	land plants	Myrtaceae	Corymbia hendersonii	·		C C		1/1
plants	land plants	Myrtaceae	Melaleuca bracteata			С		1/1
plants	land plants	Myrtaceae	Eucalyptus rhombica			С		1/1
plants	land plants	Myrtaceae	Melaleuca uncinata			С		3/3
plants	land plants	Myrtaceae	Melaleuca quercina			С		3/3
plants	land plants	Myrtaceae	Eucalyptus major	mountain grey gum		С		1/1
plants	land plants	Myrtaceae	Eucalyptus bakeri	Baker's mallee		С		1/1
plants	land plants	Myrtaceae	Melaleuca irbyana			Ε		22/17
plants	land plants	Myrtaceae	Leptospermum sericatum			С		2/2
plants	land plants	Notothyladaceae	Phaeoceros carolinianus			С		1/1
plants	land plants	Nyctaginaceae	Boerhavia dominii			С		1/1
plants	land plants	Oleaceae	Jasminum dianthifolium			С		1/1
plants	land plants	Oleaceae	Notelaea microcarpa			C C		1/1
plants	land plants	Oleaceae	Jasminum simplicifolium subsp. australiense			С		1/1
plants	land plants	Onagraceae	Ludwigia octovalvis	willow primrose		С		6/2
plants	land plants	Onagraceae	Ludwigia peploides subsp. montevidensis			С		7
plants	land plants	Ophioglossaceae	Ophioglossum polyphyllum			C C		1/1
plants	land plants	Orchidaceae	Sarcochilus ceciliae	fairy bells		С		1/1
plants	land plants	Orchidaceae	Caladenia fuscata			С		1/1
plants	land plants	Orchidaceae	Cymbidium canaliculatum			С		1/1
plants	land plants	Papaveraceae	Papaver aculeatum	bristle poppy	Υ			1/1
plants	land plants	Passifloraceae	Passiflora aurantia var. aurantia			С		3/3
plants	land plants	Pentapetaceae	Melhania oblongifolia			С		3/3
plants	land plants	Philydraceae	Philydrum lanuginosum	frogsmouth		С		2/1
plants	land plants	Phyllanthaceae	Phyllanthus involutus			С		1/1
plants	land plants	Phyllanthaceae	Bridelia leichhardtii			С		4/4
plants	land plants	Phyllanthaceae	Synostemon spinosus			С		1/1
plants	land plants	Phyllanthaceae	Synostemon albiflorus			C C		1/1
plants	land plants	Phyllanthaceae	Phyllanthus carpentariae			С		1/1
plants	land plants	Phyllanthaceae	Synostemon ramosissimus			С		3/3
plants	land plants	Phyllanthaceae	Phyllanthus microcladus			С		3/3
plants	land plants	Picrodendraceae	Petalostigma pubescens	quinine tree		С		1/1
plants	land plants	Plantaginaceae	Gratiola pedunculata			С		1

Kingdom	Class	Family	Scientific Name	Common Name		Q	Α	Records
plants	land plants	Plantaginaceae	Bacopa monnieri			С		4/2
plants	land plants	Plumbaginaceae	Plumbago zeylanica	native plumbago		С		1/1
plants	land plants	Poaceae	Eragrostis parviflora	weeping lovegrass		C		2/2
plants	land plants	Poaceae	Eremochloa bimaculata	poverty grass		С		1/1
plants	land plants	Poaceae	Setaria australiensis	scrub pigeon grass		С		3/2
plants	land plants	Poaceae	Sporobolus natalensis	1 0 0	Υ			1/1
plants	land plants	Poaceae	, Arundinella nepalensis	reedgrass		С		1
plants	land plants	Poaceae	Echinochloa crus-galli	barnyard grass	Υ			3/1
plants	land plants	Poaceae	Enneapogon lindleyanus	, 0		С		1/1
plants	land plants	Poaceae	Enneapogon robustissimus			С		2/2
plants	land plants	Poaceae	Lachnagrostis filiformis			С		2
plants	land plants	Poaceae	Eriochloa pseudoacrotricha			С		1/1
plants	land plants	Poaceae	Aristida calycina var. calycina			00000		1/1
plants	land plants	Poaceae	Austrostipa rudis subsp. nervosa			Ċ		1/1
plants	land plants	Poaceae	Dinebra decipiens var. decipiens			С		1/1
plants	land plants	Poaceae	Aristida holathera var. holathera			Ċ		1/1
plants	land plants	Poaceae	Bothriochloa bladhii subsp. glabra		Υ			2/2
plants	land plants	Poaceae	Urochloa panicoides var. pubescens		Υ			1/1
plants	land plants	Poaceae	Poa labillardierei var. labillardierei	tussock grass		С		2/2
plants	land plants	Poaceae	Aristida jerichoensis var. subspinulifera	and the grant gran		Č		1/1
plants	land plants	Poaceae	Eulalia aurea	silky browntop		Č		2/2
plants	land plants	Poaceae	Aristida acuta	<b>,</b> p		Č		2/2
plants	land plants	Poaceae	Eriachne obtusa			C C		1/1
plants	land plants	Poaceae	Isachne globosa	swamp millet		Č		5/1
plants	land plants	Poaceae	Aristida lignosa	омарот		Č		1/1
plants	land plants	Poaceae	Cynodon dactylon		Υ	_		2
plants	land plants	Poaceae	Leersia hexandra	swamp rice grass		С		4/2
plants	land plants	Poaceae	Triraphis mollis	purple plumegrass		Č		1/1
plants	land plants	Poaceae	Enneapogon virens	Lankia krama Arasa		Č		1/1
plants	land plants	Poaceae	Paspalum urvillei	vasey grass	Υ	•		1
plants	land plants	Poaceae	Sporobolus creber	race, grace	-	С		1/1
plants	land plants	Poaceae	Aristida lazaridis			Č		1/1
plants	land plants	Poaceae	Aristida personata			Č		1/1
plants	land plants	Poaceae	Echinochloa colona	awnless barnyard grass	Υ	•		2
plants	land plants	Poaceae	Eragrostis curvula	ag.aa g.aas	Ý			_ 1
plants	land plants	Poaceae	Eragrostis sororia		•	С		2/2
plants	land plants	Poaceae	Oplismenus aemulus	creeping shade grass		Č		1/1
plants	land plants	Poaceae	Paspalum dilatatum	paspalum	Υ	•		3
plants	land plants	Poaceae	Paspalum distichum	water couch	Ý			4/1
plants	land plants	Poaceae	Sacciolepis indica	Indian cupscale grass	•	С		3/2
plants	land plants	Poaceae	Triodia mitchellii	buck spinifex		Č		1/1
plants	land plants	Poaceae	Eragrostis cumingii	Such opinion		Ċ		1/1
plants	land plants	Poaceae	Eragrostis etamingii Eragrostis elongata			C		1/1
plants	land plants	Poaceae	Paspalidium distans	shotgrass		Č		1/1
plants	land plants	Poaceae	Digitaria longiflora	Shotgrass		C		1/1
plants	land plants	Poaceae	Dimorphochloa rigida			C C		1/1
Piarits	ιαπα ριαπιο	i daddae	Dimorphoonioa rigida			J		1/ 1

Kingdom	Class	Family	Scientific Name	Common Name		Q	Α	Records
plants	land plants	Poaceae	Eragrostis bahiensis		Υ			1/1
plants	land plants	Poaceae	Phragmites australis	common reed		С		2
plants	land plants	Poaceae	Cenchrus purpurascens			С		1/1
plants	land plants	Polygalaceae	Polygala triflora			С		2/2
plants	land plants	Polygonaceae	Persicaria hydropiper	water pepper		С		7/3
plants	land plants	Polygonaceae	Rumex dumosus	wiry dock		С		1/1
plants	land plants	Polygonaceae	Persicaria prostrata	creeping knotweed		С		1/1
plants	land plants	Portulacaceae	Calandrinia balonensis	broad-leaved parakeelya		С		1/1
plants	land plants	Proteaceae	Grevillea longistyla			С		1/1
plants	land plants	Proteaceae	Grevillea striata	beefwood		С		1/1
plants	land plants	Proteaceae	Hakea purpurea			С		1/1
, plants	land plants	Proteaceae	Grevillea cyranostigma			C C		1/1
plants	land plants	Proteaceae	Grevillea floribunda subsp. floribunda			C		1/1
plants	land plants	Proteaceae	Conospermum sphacelatum			C		1/1
plants	land plants	Pteridaceae	Adiantum hispidulum var. hispidulum			С		1/1
plants	land plants	Pteridaceae	Cheilanthes sieberi subsp. sieberi			Č		2/2
plants	land plants	Pteridaceae	Paraceterach muelleri			Č		1/1
plants	land plants	Pteridaceae	Pellaea falcata			C		6/6
plants	land plants	Pteridaceae	Pteris vittata	Chinese bracken		Č		3/1
plants	land plants	Pteridaceae	Pteris tremula			C		1/1
plants	land plants	Pteridaceae	Adiantum atroviride			Č		1
plants	land plants	Ptychomitriaceae	Ptychomitrium australe			Č		2/2
plants	land plants	Putranjivaceae	Drypetes deplanchei	grey boxwood		Č		2/2
plants	land plants	Rhamnaceae	Pomaderris queenslandica	g.c, comoca		C C		1/1
plants	land plants	Rhamnaceae	Cryptandra longistaminea			Č		3/3
plants	land plants	Ricciaceae	Ricciocarpos natans			Č		1/1
plants	land plants	Ricciaceae	Riccia			•		1/1
plants	land plants	Rosaceae	Rubus parvifolius	pink-flowered native raspberry		С		1/1
plants	land plants	Rubiaceae	Psydrax odorata subsp. australiana	p		Č		4/4
plants	land plants	Rubiaceae	Spermacoce multicaulis			Č		1/1
plants	land plants	Rubiaceae	Opercularia diphylla			Č		1/1
plants	land plants	Rubiaceae	Psydrax oleifolia			Č		1/1
plants	land plants	Rubiaceae	Galium leptogonium			C		1/1
plants	land plants	Rutaceae	Zieria aspalathoides subsp. aspalathoides			Č		1/1
plants	land plants	Rutaceae	Crowea exalata subsp. magnifolia			Č		1/1
plants	land plants	Rutaceae	Phebalium nottii	pink phebalium		Č		1/1
plants	land plants	Rutaceae	Flindersia collina	broad-leaved leopard tree		Č		2/2
plants	land plants	Rutaceae	Geijera parviflora	wilga		Č		1/1
plants	land plants	Rutaceae	Flindersia australis	crow's ash		Č		2/2
plants	land plants	Rutaceae	Acronychia pauciflora	soft acronychia		Č		2/2
plants	land plants	Rutaceae	Philotheca difformis subsp. difformis	oon acrony on a				1/1
plants	land plants	Santalaceae	Exocarpos latifolius			C		1/1
plants	land plants	Santalaceae	Santalum lanceolatum			č		1/1
plants	land plants	Sapindaceae	Alectryon pubescens			Č		3/3
plants	land plants	Sapindaceae	Cupaniopsis anacardioides	tuckeroo		Č		1/1
plants	land plants	Sapindaceae	Dodonaea vestita	tuonoi oo		Č		1/1
Piarito	iana pianis	Capilladocac	Dodoridod Vodila			J		1/ 1

Kingdom	Class	Family	Scientific Name	Common Name	<u> </u>	Q	Α	Records
plants	land plants	Sapindaceae	Dodonaea biloba			С		1
plants	land plants	Sapindaceae	Atalaya salicifolia			С		1/1
plants	land plants	Sapindaceae	Dodonaea triangularis			С		1/1
plants	land plants	Sapindaceae	Alectryon connatus	grey birds-eye		С		3/3
plants	land plants	Sapotaceae	Planchonella cotinifolia var. pubescens	,		С		1/1
plants	land plants	Solanaceae	Solanum mitchellianum			С		2/2
plants	land plants	Solanaceae	Solanum aviculare	kangaroo apple		С		1/1
plants	land plants	Solanaceae	Physalis ixocarpa	annual ground cherry	Υ			1/1
plants	land plants	Solanaceae	Solanum dumicola	,		С		2/2
plants	land plants	Sparrmanniaceae	Corchorus trilocularis			С		1/1
plants	land plants	Sterculiaceae	Brachychiton bidwillii	little kurrajong		С		1/1
plants	land plants	Stylidiaceae	Stylidium debile	frail trigger plant		С		1/1
plants	land plants	Stylidiaceae	Stylidium eriorhizum	55 .		С		1/1
plants	land plants	Stylidiaceae	Stylidium eglandulosum			С		1/1
plants	land plants	Stylidiaceae	Stylidium laricifolium	tree trigger plant		С		1/1
plants	land plants	Thelypteridaceae	Christella arida			С		1/1
plants	land plants	Thelypteridaceae	Christella dentata	creek fern		С		2/1
plants	land plants	Thelypteridaceae	Ampelopteris prolifera			С		1/1
plants	land plants	Thymelaeaceae	Pimelea leptostachya			С		3/3
plants	land plants	Typhaceae	Typha orientalis	broad-leaved cumbungi		С		1
plants	land plants	Violaceae	Viola betonicifolia	_		С		1
plants	land plants	Viscaceae	Viscum whitei subsp. whitei			С		1/1
plants	land plants	Viscaceae	Korthalsella rubra subsp. geijericola			С		1/1
plants	land plants	Vitaceae	Cissus oblonga			С		2/2
plants	land plants	Vitaceae	Clematicissus opaca			С		2/2
plants	land plants	Xyridaceae	Xyris complanata	yellow-eye		С		2/2
plants	land plants	Zygophyllaceae	Zygophyllum apiculatum	gall weed		С		1/1

#### **CODES**

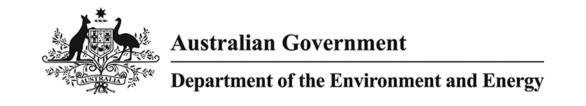
- Y indicates that the taxon is introduced to Queensland and has naturalised.
- Q Indicates the Queensland conservation status of each taxon under the *Nature Conservation Act 1992*. The codes are Extinct in the Wild (PE), Endangered (E), Vulnerable (V), Near Threatened (NT), Least Concern (C) or Not Protected ().
- A Indicates the Australian conservation status of each taxon under the *Environment Protection and Biodiversity Conservation Act 1999.* The values of EPBC are Conservation Dependent (CD), Critically Endangered (CE), Endangered (E), Extinct (EX), Extinct in the Wild (XW) and Vulnerable (V).

Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon. This number is output as 999 if it equals or exceeds this value.

# Appendix B

Protected Matters Database Search Results



# **EPBC Act Protected Matters Report**

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

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

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

Report created: 15/09/20 10:11:00

**Summary** 

**Details** 

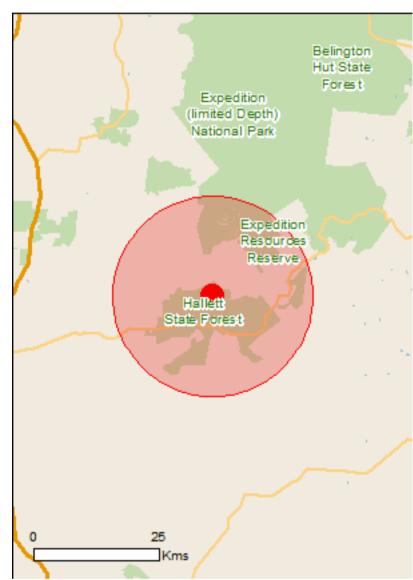
Matters of NES

Other Matters Protected by the EPBC Act

**Extra Information** 

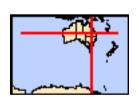
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 20.0Km



## **Summary**

### Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	5
Listed Threatened Species:	24
Listed Migratory Species:	11

### Other Matters Protected by the EPBC Act

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

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

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

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	16
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

### **Extra Information**

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

State and Territory Reserves:	3
Regional Forest Agreements:	None
Invasive Species:	17
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

# **Details**

# Matters of National Environmental Significance

Listed Threatened Ecological Communities		[Resource Information]
For threatened ecological communities where the distributions, State vegetation maps, remote sensing imagery community distributions are less well known, existing verboduce indicative distribution maps.	and other sources. Where	threatened ecological
Name	Status	Type of Presence
Brigalow (Acacia harpophylla dominant and codominant)	Endangered	Community known to occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area
Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds		
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Erythrotriorchis radiatus		
Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur within area
Falco hypoleucos		
Grey Falcon [929]	Vulnerable	Species or species habitat may occur within area
Geophaps scripta scripta		
Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat likely to occur within area
Grantiella picta		
Painted Honeyeater [470]	Vulnerable	Species or species habitat may occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat may occur within area
Neochmia ruficauda ruficauda		
Star Finch (eastern), Star Finch (southern) [26027]	Endangered	Species or species habitat likely to occur within area
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species habitat likely to occur within area
Mammals		

Name	Status	Type of Presence
Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat likely to occur within area
Dasyurus hallucatus Northern Quoll, Digul [Gogo-Yimidir], Wijingadda [Dambimangari], Wiminji [Martu] [331]	Endangered	Species or species habitat likely to occur within area
Nyctophilus corbeni Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	Vulnerable	Species or species habitat may occur within area
Petauroides volans Greater Glider [254]	Vulnerable	Species or species habitat may occur within area
Phascolarctos cinereus (combined populations of Qld, Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104]	NSW and the ACT) Vulnerable	Species or species habitat may occur within area
Plants		
Arthraxon hispidus Hairy-joint Grass [9338]	Vulnerable	Species or species habitat likely to occur within area
Bertya opponens [13792]	Vulnerable	Species or species habitat known to occur within area
Cadellia pentastylis Ooline [9828]	Vulnerable	Species or species habitat likely to occur within area
Eucalyptus beaniana Bean's Ironbark [56320]	Vulnerable	Species or species habitat may occur within area
Tylophora linearis [55231]	Endangered	Species or species habitat may occur within area
Xerothamnella herbacea [4146]	Endangered	Species or species habitat likely to occur within area
Reptiles		
Delma torquata Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat may occur within area
Elseya albagula Southern Snapping Turtle, White-throated Snapping Turtle [81648]	Critically Endangered	Species or species habitat likely to occur within area
Furina dunmalli Dunmall's Snake [59254]	Vulnerable	Species or species habitat may occur within area
Rheodytes leukops Fitzroy River Turtle, Fitzroy Tortoise, Fitzroy Turtle, White-eyed River Diver [1761]	Vulnerable	Species or species habitat likely to occur within area
Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on		
Name	Threatened	Type of Presence
Migratory Marine Birds		

Name	Threatened	Type of Presence
Apus pacificus Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus White-throated Needletail [682]	Vulnerable	Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca Satin Flycatcher [612]		Species or species habitat likely to occur within area
Rhipidura rufifrons Rufous Fantail [592]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area

# Other Matters Protected by the EPBC Act

Listed Marine Species		[Resource Information]
* Species is listed under a different scientific nar	ne on the EPBC Act - Threat	tened Species list.
Name	Threatened	Type of Presence
Birds		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Ardea ibis		
Cattle Egret [59542]		Species or species habitat may occur within

Name	Threatened	Type of Presence
Calidris acuminata		area
Sharp-tailed Sandpiper [874]		Species or species habitat may occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos		
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Chrysococcyx osculans		
Black-eared Cuckoo [705]		Species or species habitat likely to occur within area
Gallinago hardwickii		
Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat may occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat may occur within area
Merops ornatus		
Rainbow Bee-eater [670]		Species or species habitat may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca		
Satin Flycatcher [612]		Species or species habitat likely to occur within area
Rhipidura rufifrons		
Rufous Fantail [592]		Species or species habitat may occur within area
Rostratula benghalensis (sensu lato)		
Painted Snipe [889]	Endangered*	Species or species habitat

Painted Snipe [889]	Endangered*	Species or species habitat
		likely to occur within area

### **Extra Information**

State and Territory Reserves	[ Resource Information ]
Name	State
Expedition	QLD
Expedition (Limited Depth)	QLD
Lonesome Holding	QLD
Invasive Species	[ Resource Information ]

# Invasive Species [ Resource Information | Compared to the co

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

Name	Status	Type of Presence
Birds		
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
Passer domesticus House Sparrow [405]		Species or species habitat likely to occur within area
Sturnus vulgaris Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Canis lupus familiaris Domestic Dog [82654]		Species or species habitat likely to occur within area
Equus caballus Horse [5]		Species or species habitat likely to occur within area
Felis catus Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Feral deer Feral deer species in Australia [85733]		Species or species habitat likely to occur within area
Mus musculus House Mouse [120]		Species or species habitat likely to occur within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Rattus rattus Black Rat, Ship Rat [84]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Plants		
Acacia nilotica subsp. indica Prickly Acacia [6196]		Species or species habitat may occur within area
Opuntia spp. Prickly Pears [82753]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]	e	Species or species habitat likely to occur within area
Solanum elaeagnifolium Silver Nightshade, Silver-leaved Nightshade, White Horse Nettle, Silver-leaf Nightshade, Tomato Weed White Nightshade, Bull-nettle, Prairie-berry, Satansbos, Silver-leaf Bitter-apple, Silverleaf-nettle, Trompillo [12323]	,	Species or species habitat likely to occur within area

### Caveat

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

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

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

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

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

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

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

- migratory and
- marine

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

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

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

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

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

# Coordinates

-25.764 149.012

# Acknowledgements

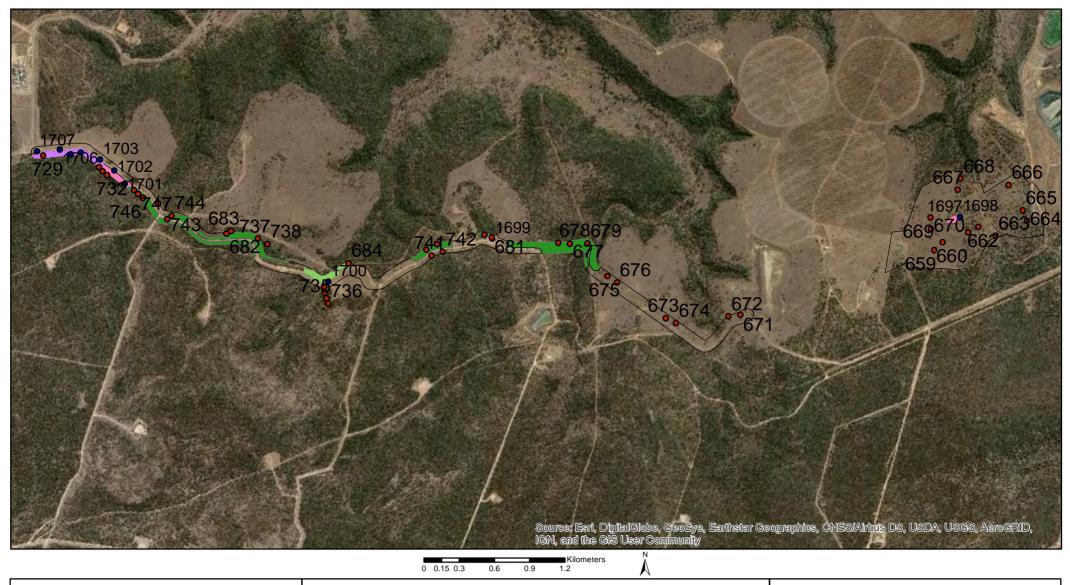
This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -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.

Appendix C Field Survey Site locations



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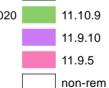
While every care is taken to ensure the accuracy of this data, Terrestria makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose. Terrestria disclaims all responsibility and all liability (including without limitation liability in negligence) for all expenses, losses, damages (including indirect consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

Based on or contains data provided by the State of Queensland (accessed 2013) as represented by the Department of Environment and Resource Management which gives no warranty in relation to the data (including without limitation, accuracy, relability, completeness or fitness for a particular purpose). To the maximum extent permitted by applicable law, in no event shall the Department be liable for any special, incidental, indirect, or consequential damages whatsoever (including, but not limited to, damages for loss of profits or confidential or other information, for business interruption, for personal injury, for loss of privacy, for failure to meet any duty including of good faith or of reasonable care, for negligence, and for any other pecuniary or other loss whatsoever including, without limitation, legal costs on a solictor own client basis jarsing out of, or in any way related to, the use of or inability to use the data.

Aerial imagery courtesy of Bing Maps.

#### **LEGEND**

- Survey sites 11.10.11
- Survey sites 161020



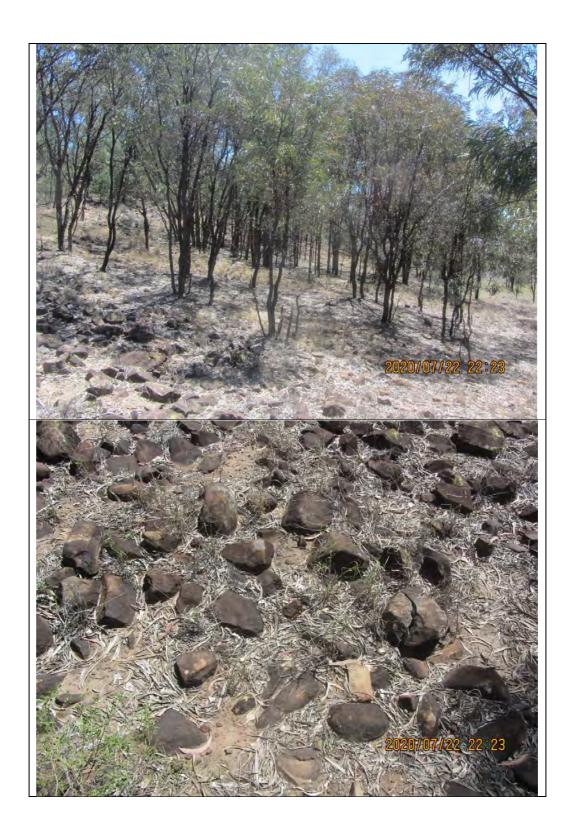
### APPENDIX FIGURE C: Field Survey Site Locations

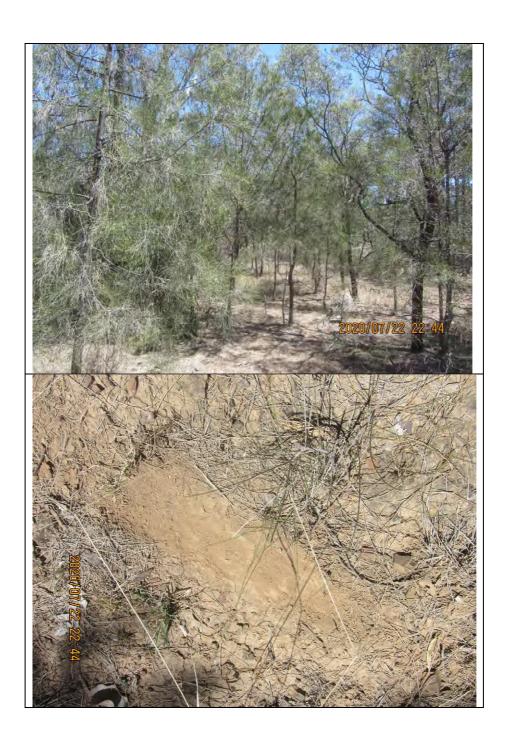
Springwater Irrigation Area and Water Pipeline Ecological Assessment

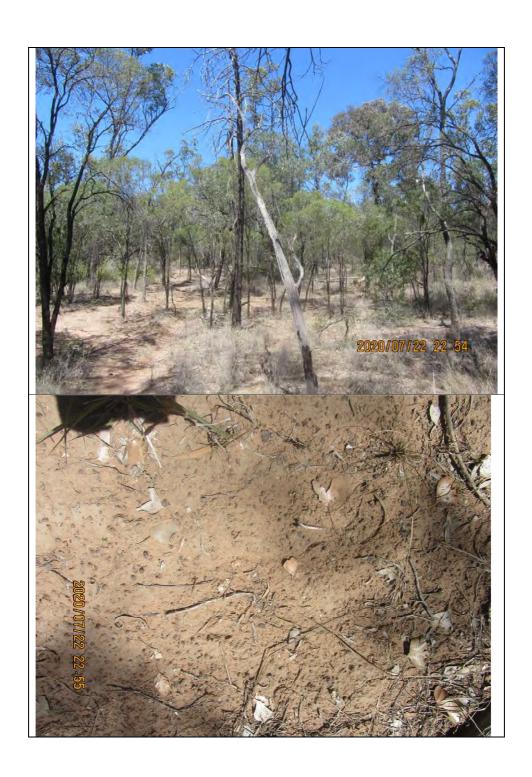
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Appendix D Field Survey Site Data











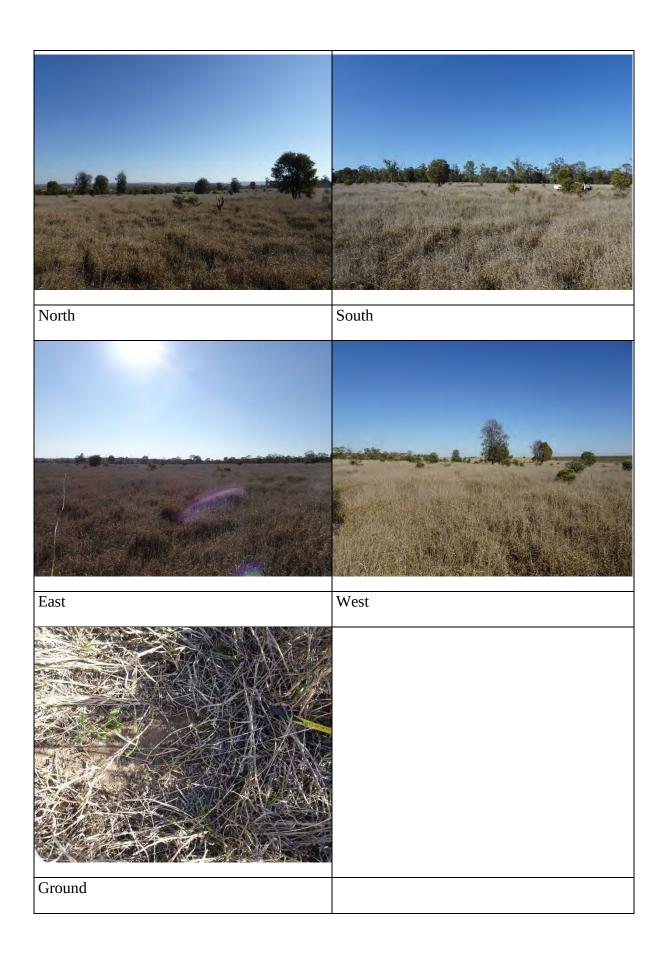


Median he	ion struction struction ight of the E	DL is to be meas		Record	ominant;	ies (numerical) dominance for each strace – codominant; a – associated; s –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E			Transfer.	1	c	Buglan
T1	5_	5-6	V	-4-3-		Cos Cristator
T2						
T3				54		nodow
S1	1.5	1-2	<b>V</b>			Ereneupholon
S2						1
G	- 1	1-1	D	6	D	Biffel
Notes:						
Notes:						
Notes:						
	ee:	ok	tet ar	4		Not Remot

Transect - crown co	ver measured (trans	ect intercept m	ethod)		
GPS coordinates:	Datum:	GDA 94	Transect length:		
Start point	Zone 5 5 E 0	10657	6 N7149223	65	9
End point	Zone 5 5 E 0	70665	3 N 7 1 4 9 2 9 0	660	es =
All heights in the "Str./heigl	nt" column are to be meas	ured			
Interval (metres	) Intercept	Str./height	Summary:		
No -	m		Minimum height of plants included in the transect table:	m	
10/2641	1		Intercent of EDL 0 50m		

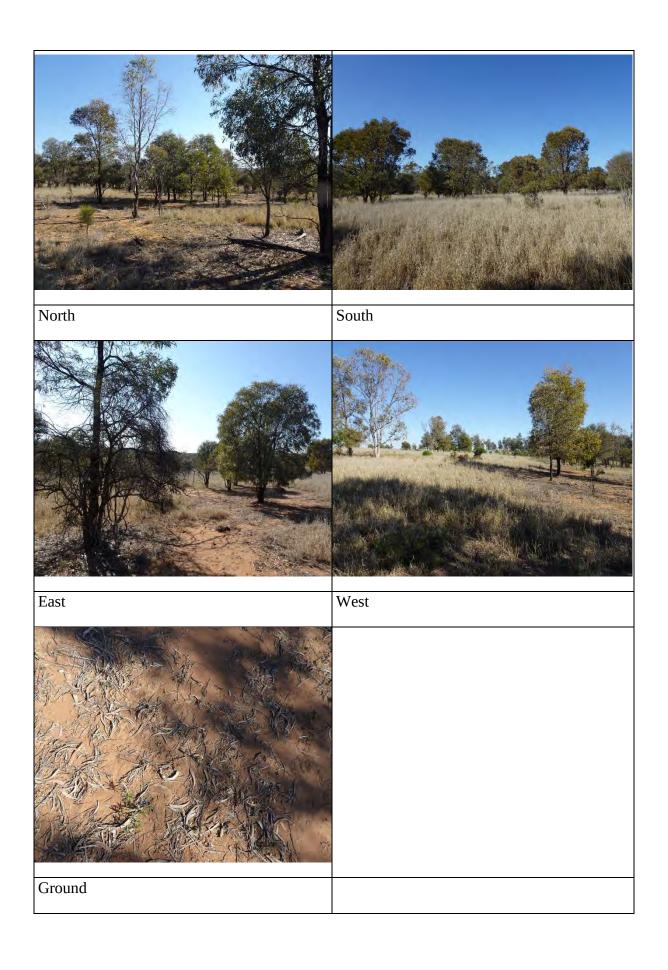
Interval (metres)	Intercept	Str./height
No -	m	
inter ct	m	
ho- lukosact mith	m	
- VO8	m	
- ~	m	
	m	
	m	
	m	
-	m	
-	m	
-	m	
	m	
	m	
÷	m	
-	m	
-	m	
	m	
-	m	
U	m	
4	m	

Summary:	
Minimum height of plants included in the transect table:	m
Intercept of EDL 0 - 50m:	0 m
Intercept of EDL 50 -100m:	0 m
Measured crown cover % of EDL 0 -100m:	0 %
Structural formation	
Conclusions/notes: res/o	حالد
Zeed II	- (-
1 1 + 1+	10
time but ill	h recomber
or compy d	ivelo prod
Dominated by	b-Hel
	)



Vegetati		direction to nearest		Plant	speci	es
Median hei	ght of the E	DL is to be measu	ured	Record	relative	(numerical) dominance for each stratum; c - codominant; a - associated; s -
Cover dens	sity is to be	estilitated		uppresse	d.	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	1 6	5-8	5	TI	D	Rydon
T1					1	Paplar
T2						
Т3						
S1	2	2.3	5	51	<	A decora
S2						wilson
G	0.7	0.51	0			Atetrgo distito
Structura		: (including height	(m			Greraph ha
Ecologic	ally domina	0 1	7-77			
Notes:		Pale Su	-A-5-A-	6		Bittel
			- <u>I</u>	-0		12011301
	Advec	en whia	<u>~~\</u>			
		A-0(10)				
	13/10	- In				
	12-6	0.00				
4444						
-,						
Notes						
	THE AT	Cont	001			
Disturba						

	Transect - crown cover me	easured (trans	ect intercept m	ethod)	
	GPS coordinates:	Datum:	6DA 94	Transect length: 100	
	Start point Zone	55 E 0	30686	9 N71493720	(5)
	End point Zone	5 5 5 E O	70693	5 N7149419	662
	All heights in the "Str./height" colum	nn are to be measi	ured		
	Interval (metres)	Intercept	Str./height	Summary:	
	5 - 8	3 m	116	Minimum height of plants included in the transect table:	m
	38 - 435	3.5 m	1, 5	Intercept of EDL 0 - 50m:	n
	69 - 71	2 m	11 4	Intercept of EDL 50 -100m:	n
	61 - 46	5 m	11 5	Measured crown cover % of EDL 0 -100m:	9
	-	m		Structural formation	
		m		Conclusions/notes:	
	-	m			
N 867	-	m			
5 868	-	m			
> 000	-	m			
€ 869	-	m			
W 870	-	m			
6 541	-	m			
6 87	-	m			
	-	m			
		m			
		m			
	-	m			

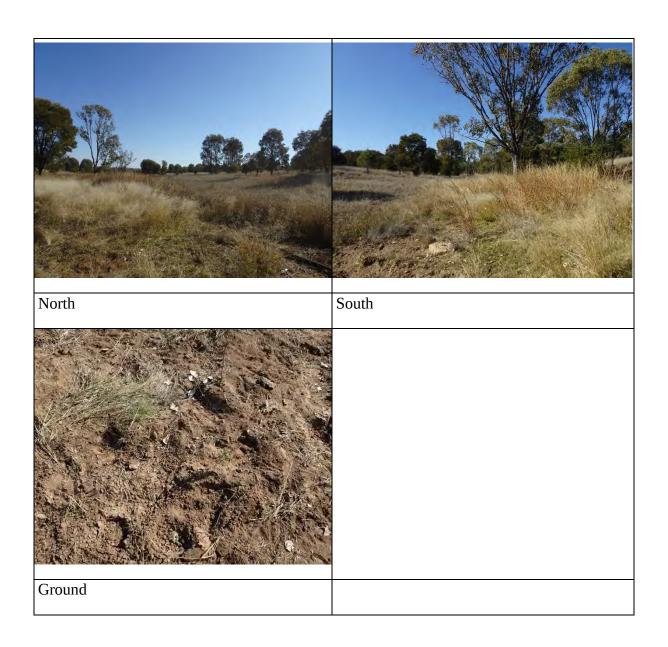


#### A 3.3 Sheet D – Regional Ecosystem type assessment site

Purpose		e/direction to neares	· Ea	1112	J	
GPS:	(Into. distant	3	35070	7/10	4	7149246 D66
					12.1	77. 71. 12. 12.
Vegetati Median hei	ion struc ght of the El	cture DL is to be measu	red	Recon	t speci	ies (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associa
Stratum	Median height	Height interval	Est. cover density (D.M.S.V)	Str.	Rel. dom.	Scientific Name
E		-		TI	C	Popler
T1	10	\$ -10	5		C	Brigelow
T2		-	***************************************			
Т3			************************	51		milga
S1	3	3-5	5			Ellitar
S2		-				Hecken
G	0-4	03-06	D		,	
Structural		(including height)		6	D	RHe
Low	MUCH	Mad	10~	-	4	Heteropogen conto tu
Ecologica	lly dominar	nt layer:	l			Emgrantis diresteli
Geology,	landform	, soils				
Geology m	ap/scale/ye	ear:				
Geology c	ode and roo	ck types:				The state of the s
Land syste						
Landform:	··········		1	-/	7	
Soils:	V 152 11 1 1 1	P.	ale say	Cla	1	
Field obse	rvation and	notes:	regro-fl		Nal	lercourse 0
				2010110-01(vivi		Landzone:

END





#### Request for Assessment of Regional Ecosystem Map - DRAFT

#### SHEET G - Reference site/transect form

Median he	ion stru	icture EDL is to be measu estimated	ured	Record	speci relative minant; c	es (numerical) dominance for each stratu codominant; s - subdominant, a - a
Stratum	Median height	Height interval	Est. cover density (D,M.S,V)	Str.	Rel. dom.	Scientific Name
E		-		1	i)	Bugalas
T1	()	3-5	M			U
T2		<u>-</u>				
Т3		_				
S1	1	09-15	V	51		Corse outs
S2		-				George Sp
G	0.6	66-6-8	0 m	La Contractor de		Alectryon distric
				6		Buttel
				6		135110
Geology	, landfo	rm, soils				
Geolog	y map/sca	ale/year:			netro) etcorere	

Page 1 of 2

EPA – Queensland Herbarium Request for assessment of RE map – ver.

### Request for Assessment of Regional Ecosystem Map - DRAFT

#### SHEET G - Reference site/transect Form (continued)

GPS coordinates:	Datum: GDA 94 Transect length: 100	
Start point	zone 55 E 07 0 43 70 N7 1 49 47 1 664	
End point	Zone 5 E 0 7 0 7 3 3 4 N 7 1 4 7 5 6 2 665	

All heights	in the	"Str /he	aight" co	dumn =	ere to	he i	measured	

Interval (metres)	Intercept	Str./height	Summary:	
10.5 - 20	95 m	0 4	Minimum height of plants included in the transect table:	m
6.5 - 34	8.5 m	5, 0.2	Intercept of EDL 0 - 50m:	n
30 - 51	) m	1 3	Intercept of EDL 50 -100m:	n
53 45	2 m	7, 4	Measured crown cover % of EDL 0 -100m:	9
60 - 67	3 m	T1 5	Structural formation	
69 - 7	2. m	Ti 5	Conclusions/notes:	
4	m			
4	m			
4	m			
-	m			
	m			
2	m			
	m			
¥ 1	m			
2.	m			
-	m			
=	m			
-	m			
	m			
-	m			

Page 2 of 2



Cover dens	ight of the l	Icture EDL is to be meas estimated		Recor	ominant;	ies (numerical) dominance for each stratum; c – codominant; a – associated; s –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E				TI	1)	Beigabus
T1	_5_	4-6	5			
T2				51		Alechan
T3						Actopullur - bod
S1_		0.5. 2	5			Cosses ovali
S2						Alstonia condictor
G	0.8	0.8.1	D			
				6	D	3.F/o/
lotes Disturbanc	ce:	01.	tom pr	o sel		arrothy grazed
	14				-	

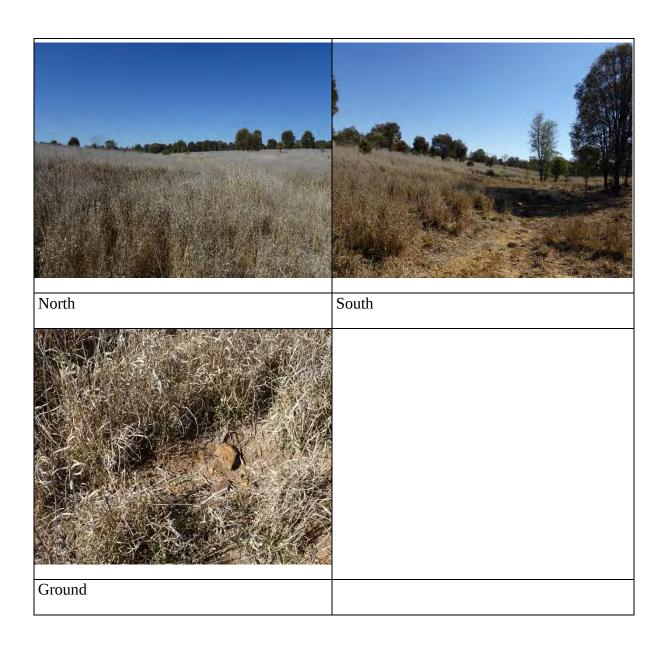
Transect - crown cover measured (transect intercept method) Datum: 60A 94 Transect length: 100 GPS coordinates: Zone 58 E 0 7 0 7 2 1 3 N 7 1 4 9 7 7 8 666 Start point Zone 5 E 0 End point All heights in the "Str./height" column are to be measured Str./height Summary: Minimum height of plants included in the transect table: Interval (metres) Intercept 24- 26 2 m T/ m 59-61 Intercept of EDL 0 - 50m: m 51 m 78 - 80 Intercept of EDL 50 -100m: 2 51 2 m m Measured crown cover % of EDL 0 -100m: 5 % 97-100 m TI Structural formation m Conclusions/notes: m m m m m m m m m m m m m

m



Vegetat Median he	ion stru ight of the E	cture EDL is to be measur	red	Record	t speci	ies (numerical) dominance for each strat c – co-dominant; s - subdominant; a -
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E				Ti	7	Brigala
T1	6	5-7	V			Janes Grand
T2		-		5,		citals
Т3		-	***************************************			A & olocor
S1	15	1-2	5			
S2		-				
G	1	0-8-1.2	1)			
Structura		: (including height)	6-			( )
Ecologica	lly domina	nt layer:		51	1	Bittel
Geology of	nap/scale/y ode and ro em;	ear:	Brye Gerdy C	20442-1-7-7-7	la-	Landze
RE code	hanaa	***************************************	***************************************	101-0-010-01-01	esitakian 27,c	Landzo
r cone						
Existing R	r code:					

Page 23 of 26



## SHEET G - Reference site/transect form

Site No.	. 41	Recorder: D	5	IA		Day/Date: 28 (8/20
Regiona	al ecosyst		Regrouth	d	rset	Day/Date. 20( ) 20
1		ce/direction to neare	7			
		- an email to modic	St. 10000		*******	
Median he Cover dens	ion stru ight of the E sity is to be	EDL is to be meas	sured	Recor	t spec	ies (numerical) dominance for each stratum; c – codominant; s - subdominant, a – asso
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	10	10 - 12	V	E	C	Cas Gristata
T1	3	2-5	5/M	1		Bryclon
T2		-	/			
Т3			11140 (1)0110011100111	11	7	3,500
S1	(	0.5. 1	V		1/	Exemplate Destil
S2	1	-				1 (0.6)
G	0.8	0.7.1	7			or construction to the substitution of the sub
Structural	formation:	(including height	2)	5,		Citis Apatopyllum
Ecological	ly dominar	nt layer: 1				Burdon
Notes:	650	nted				<u> </u>
						The state of the s
*********						
				6	9	Biffel
	Kern de				***************************************	· · · · · · · · · · · · · · · · · · ·
eology, I						
Geology n			***************************************		orson livens	
		rock types:				N 7
Land syste			Lilaa	pion	n	41/18 Cly
Landform:			feeld 1	711	0	solty cly
Soils:			00 10	~	Acosa	T
Field obse	rvation a	nd notes:	erent)			
						Landzone:

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#### SHEET G - Reference site/transect Form (continued)

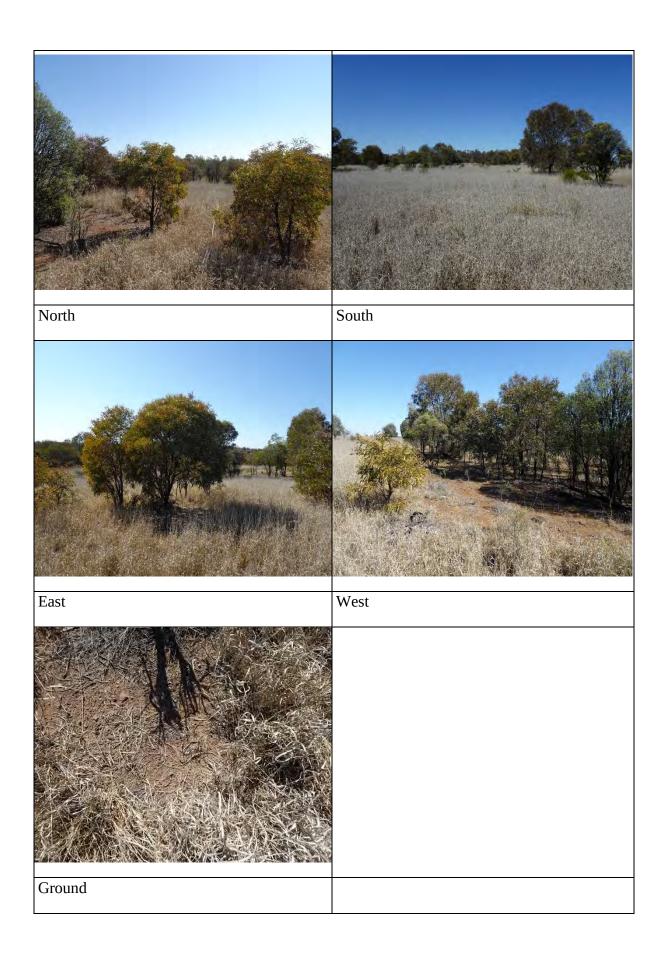
Transect - crown cover measured (transect intercept method)

PS coordinates:	Datum: GVN 94 Transect length: 100
Start point	Zone 55 E 0 7 0 6 7 79 N7 14 9 7 3 6 667
End point	Zone 5 E 0 7 0 6 8 0 4 N 7 1 4 9 8 31 66 8

Interval (metres)	Interce	pt	Str./height
4 - 6	2	m	1, 3
25 - 27	2	m	T1 4
28 - 29	(	m	1 3.5
31 - 33	2	m	6 4
365 - 39	2.5	m	11 3
61 -635	25	m	7, 3
78 -40.5	2.5	m	1, 5
85 - 86	(	m	1 2
92 - 99	7	m	€ %:
-		m	
		m	
		m	
-		m	
12		m	
		m	
. 4		m	
14.4		m	
		m	
14		m	
141		m	

Summary: Minimum height of plants		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		
Designation from the control of the		

Page 2 of 2



## SHEET G - Reference site/transect form

Site No	. 8 F	Recorder: 75	174		f	Day/Date: 28/4/20
Regiona	al ecosyst	em:	Regnath	6	Y set	
Locality	: (inc. distanc	ce/direction to nearest	town) For 110	~	***************************************	
Median he	tion stru ight of the E sity is to be	DL is to be measu	ired	Recon	t spec	(numerical) dominance for each stratum
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	c – codominant; s - subdominant, a – asso Scientific Name
E	,10	9-1)	V	11	2	Brydow
T1 /		_	***************************************	- Auto	A	Cos Cristala
T2		-		21110000		
Т3		-				THE THE PARTY OF T
S1	)	1.51.5	V	51		Citus da
S2		-		- Caritani	1 too at so, a	Capisse Grater
G	1	0-1-1-2	2	***************************************		
Notes:	Biffe	100%	goard by			
*********				6	カ	RHel
*********	*********		***************************************	. 6	1	81101
Geology, I						
Geology n						
		ock types:	***************************************		70-1-1-1	
Land system						**
Landform:		Territorio de la constitución de	Brown	cly		rocky paths p
Soils:				7	+	***************************************
Field obse	rvation ar	nd notes:	of low	1 (62	ا	
		/	7 00			Landzone:

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#### SHEET G - Reference site/transect Form (continued)

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum: GDA 94 Transect length: 100	
Start point	Zone 55 E 0 7666 49 N7 14 95 01 669	
End point	Zone 557 E 0 7 6 6 8 5 1 N 7 1 4 9 4 02 6 90	

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercept	Str./height
62-72	10 m	T, 10
	m	
-	m	
-	m	
	m	
	m	
-	m	
-	m	
	m	
	m	
- 4	m	
	m	
-	m	
14	m	
	m	
*	m	
[4]	m	
	m	
-	m	
(4)	m	

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		
Conclusions/rioles.		

Page 2 of 2



#### SHEET G - Reference site/transect form

12223 16 63	9 1	Recorder:	SHA			Day/Date: 28/8/2	
Regiona	l ecosyst	em:	son - Re.	~		1 41	
Locality	(inc. distance	ce/direction to nearest	town) For	c VIE	2		
Vegetation structure Median height of the EDL is to be measured Cover density is to be estimated					Plant species Record relative (numerical) dominance for each stratum:		
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	
E		_		TI	D	Buyear	
T1	8	9.10	V		A	Poplar	
T2		<u>-</u>					
Т3		•				11	
S1		_					
S2						101000011-311	
G	6.5	03/	D				
L <sub>0</sub> ∼ Ecological	ly domina	nt layer:	8m	019			
Ecological	ly domina	nt layer: 🥢	f G	80%	(ore)		
Ecological	ly domina	nt layer: 🥢	f G		To ref	5Hol	
Ecological	ly domina	nt layer: 🥢	f G	80%6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RHel	
Ecological Notes:	lly dominai אים Domina	nt layer: We comp	f G		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	RHel	
Ecological Notes:	D	nt layer: Me (copy hands) had by	betel7:	6	D	R.Hel	
Ecological Notes: Geology,	D	nt layer: We comply had by	betel7:		D	RH-el	
Ecological Notes: Geology,	D	nt layer: Me (copy hands) had by	betel7:	6	D	RHel	
Ecological Notes: Seology, Geology of	Durantial and form nap/scale code and rem:	nt layer: We comply had by	betel7:	6	D	RHel	
Ecological Notes: Geology, Geology of Geology of Land syst	Durantial and form nap/scale code and rem:	nt layer: We comply a test by	potel 7:	6	D	RH-el	
Ecological Notes: Geology, Geology of Geology of Land syst Landform Soils:	landform	nt layer: We comply had by	potel 7:	6	D	RHel	

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#### SHEET G - Reference site/transect Form (continued)

Transect - crown cover measured (transect intercept method)

GPS coordinates:

Datum: GDA 94 Transect length: 100

Start point Zone 5 E 0 7 0 4 9 2 6 N 7 1 4 9 6 9 1 6 7 1 End point Zone 5 E 0 3 0 4 9 2 6 N 7 1 4 9 6 6 0 6 7 2

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercept	Str./height
14.1	m	
U(	m	
4	m	
- 60	m	
Coroll	m	
	m	
W -	m	
· .	m	
4.0	m	
¥	m	
-	m	
-	m	
-	m	
- 4	m	
4	m	
j.és	m	
i.e.	m	
-	m	
-	m	
_	m	

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%
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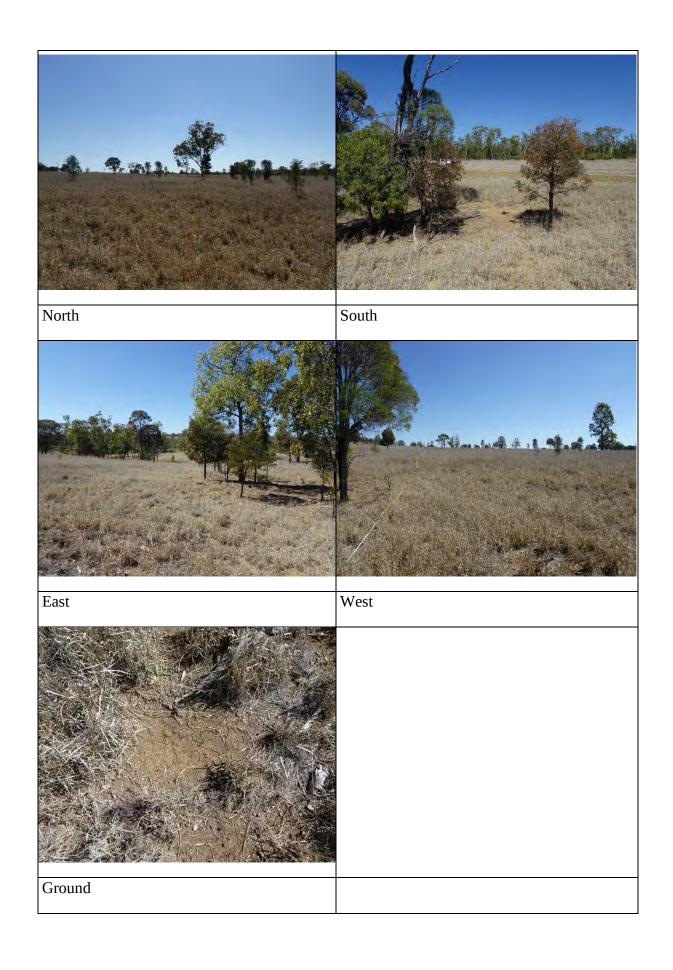
Page 2 of 2



Regional	ecosyste	De	S HA  South		<u>.</u>	Day/Date: 28/9/10
Vegetati Median hei Cover dens	ght of the E	DL is to be measur		Record	minant;	(numerical) dominance for each stratum; $c$ – codominant; $a$ – associated; $s$ –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	N	RX W		1,	D	Birgdon
T1	3	4-7	V			Poplas
T2		-				Kurragon ++
Т3						Erenophla mit/a
S1	25	3-5	V			
S2				51		u ba
G	06	6-4-1	D			Citis
				4	7)	3.46l
Notes				_	_	
Disturb	ance:					
1				متالية		
Weeds:						
Weeds:						

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	6011 70	Transect length:	
Start point Zon	e 5 E 0	20420	N7148645	: 43
End point Zon	e 5 E 0	7043	79 N7148603	674
All heights in the "Str./height" colu	mn are to be measu	ired		
Interval (metres)	Intercept	Str./height	Summary:	
75 - 8.5	( m	11 11	Minimum height of plants included in the transect table:	m
_	m		Intercept of EDL 0 - 50m:	m
_	m		Intercept of EDL 50 -100m:	m
i <del>-</del>	m		Measured crown cover % of EDL 0 -100m:	%
-	m		Structural formation	
-	m		Conclusions/notes:	
4	m			
	m			
4	m			
-	m			
	m			
-	m			
-	m			
-	m			
	m			
_	m			
_	m			
	m			
-	m			
-	m			

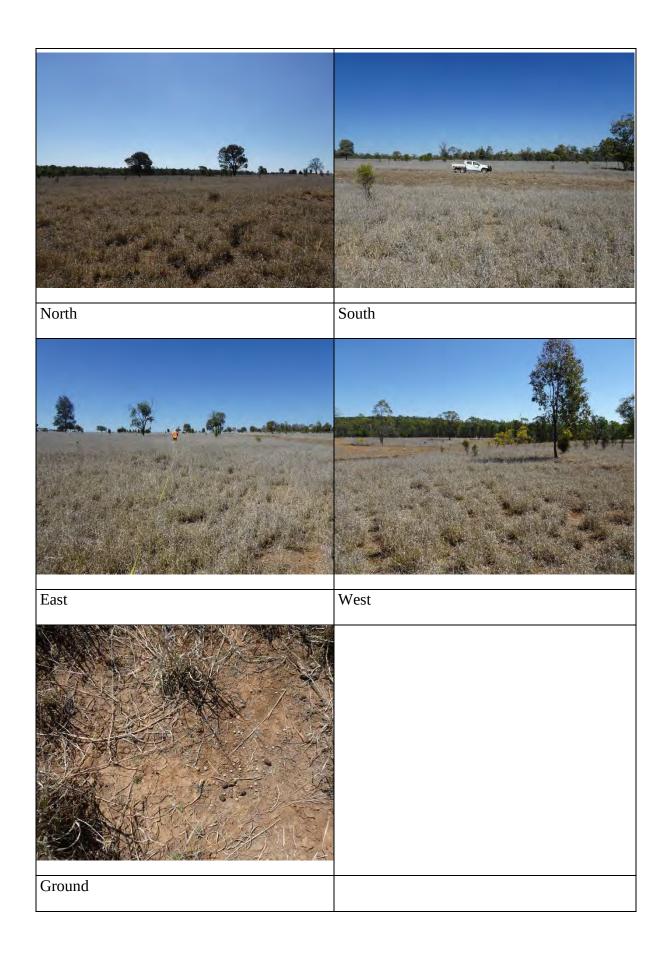


	il ecosyste		Pipeline it town) Ferry VII	~ CO(1	100	C_NR
Median he	tion struction struction struction structure is to be sity is to be	DL is to be meas		Reco	dominant;	ies (numerical) dominance for each stratu c – codominant; a – associated; s –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel.	Scientific Name
E	15	4-6		Ti	1/2	Rogelon
T1/		432	<del>\</del>		6	Bazelon Celler
T2						
T3						
S1	-1	1-2	V			
S2		0.5 08		51		Citros
G	0.8	-00	V			
Structural		(including height)				
			ad 5m			
	lly dominan	it layer:			==+	
Notes:	0.1	0.0.6				
	VLeex	ldis bro				
		0				
BUI	1/2/	779	Gre			
	-12					
				6	7)	Bittel
otes						
isturband	ce:					
	-					
leeds:						

GPS coordinates:		Datum:	6DA 94	Transect length:		
Start point	Zone 5	E O	70379	3N7149002	675	
End point	Zone 5	E 0	70387	6 N71489485	76	
All heights in the "Str./heig	ht" column are	to be measi	ured			
All heights in the "Str./heig		to be measi	Str./height	Summary:		
				Summary: Minimum height of plants included in the transect table:	m	

Interval (metres)	Intercept	Str./height
-	m	
	m	
	m	
1 Page	m	
Col- Food	m	
NO Token	m	
ter	m	
1'-	m	
-	m	
1-1-	m	
17	m	4
- 4	m	
	m	
0=1	m	
-	m	
	m	
14	m	
*	m	
	m	-1-1
2	m	

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		
		_



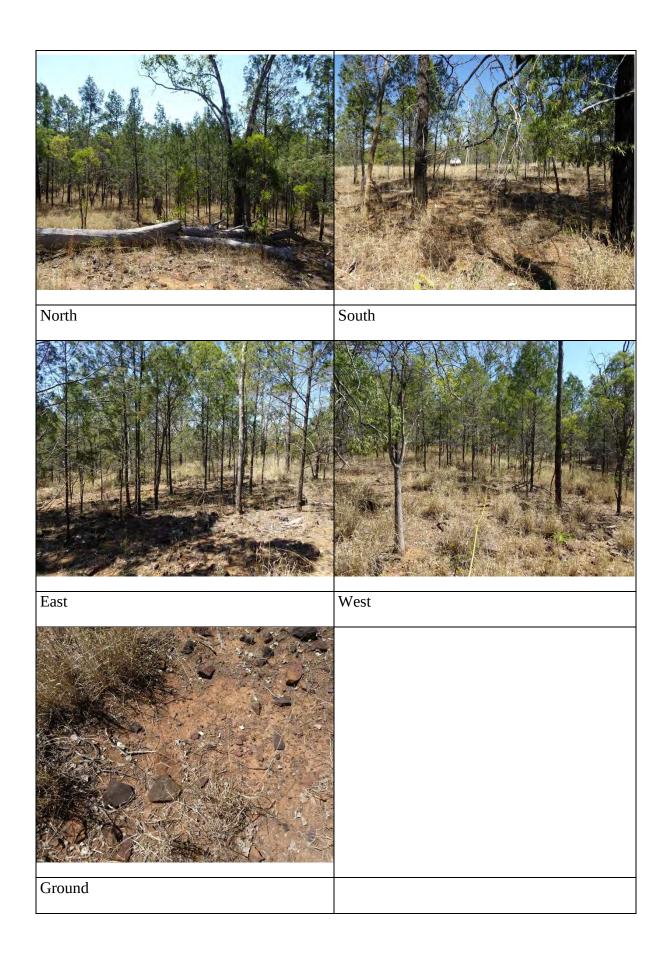
iviedian ne	ion struction ight of the Esity is to be	DL is to be measi		Recor	lominant;	e (numerical) dominance for each strate condition of the
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	suppresso Str.	Rel. dom.	Scientific Name
E				1	2	Cole
T1	13	12-16	3		-	Melendbin
T2					A	allitar days
T3						
S1	6	5-8	M			
S2		1-15	V			
G	1	06-1.2	M	51	0	Calletin a red li
Structural	formation:	(including height)				Tulsa
4000	llad	lon				Emmaple des/m
Ecological	ly dominan	t layer:				
Notes:	Red	dish situ	clap			
			0	52		Gouli
Ma	pred	as NR				Acacción docora
						Carisson
	5	-10.9				
				6	D	13 offer
						Edingon notin
						Aristida calquia
						The media
otes	,					Cymbopogen guard
Disturbanc	φ.	Gra	2-1			7
- III. Duilo	) <del>-</del>		1 Domina	7-1-	7	111-1-7-07-
		DIONNE	Momine	Jes C	3	attel 60%

GPS coordinates:	Datum: 6DA 94 Transect length: 100
Start point	Zone 55 E 0 7 0 3 2 7 5 N 7 1 4 9 2 7 8 677
End point	Zone 5 E 0 7 6 3 3 4 6 N 7 1 4 9 2 8 5 6 7 8

All heights in the	"Str./height"	column are to	be measured
--------------------	---------------	---------------	-------------

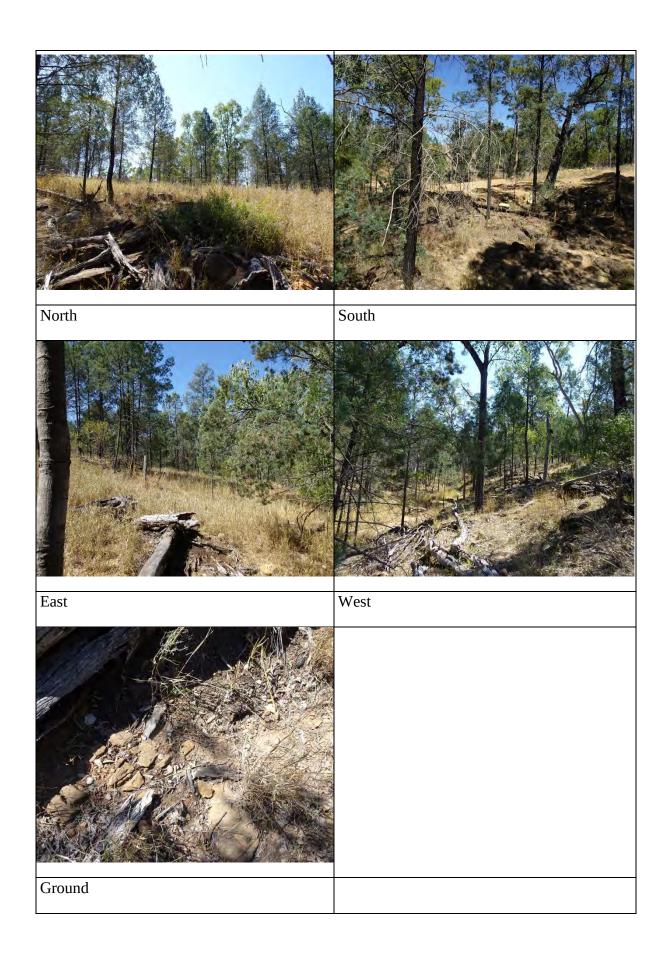
Interval (metres)	Interce	ot	Str./height
0-5.5	5.5	m	1, 10
9 - 16	7	m	51 6
19-21	4	m	5, 5
21.5 - 27.5	6	m	TI 14
26.5-34.5	8	m	51 8
29 - 38	9	m	11 15
29 - 30	1	m	52 2
455-53	7.5	m	TI KI
47 - 48	1	m	5/ 2
53 - 55	1	m	取分了
595 - 635	4	m	51 4
65 - 69	4	m	31 4
69 -70.5	1.5	m	52 15
145- 47	2.5	m	51 5
905 - 835	3	m	51 6
83 -96'5	3.5	m	6 16
86 - 88	2	m	518
71 - 100	9	m	51 5
965-100	3.5	m	TI 14
		m	1

Summary: Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



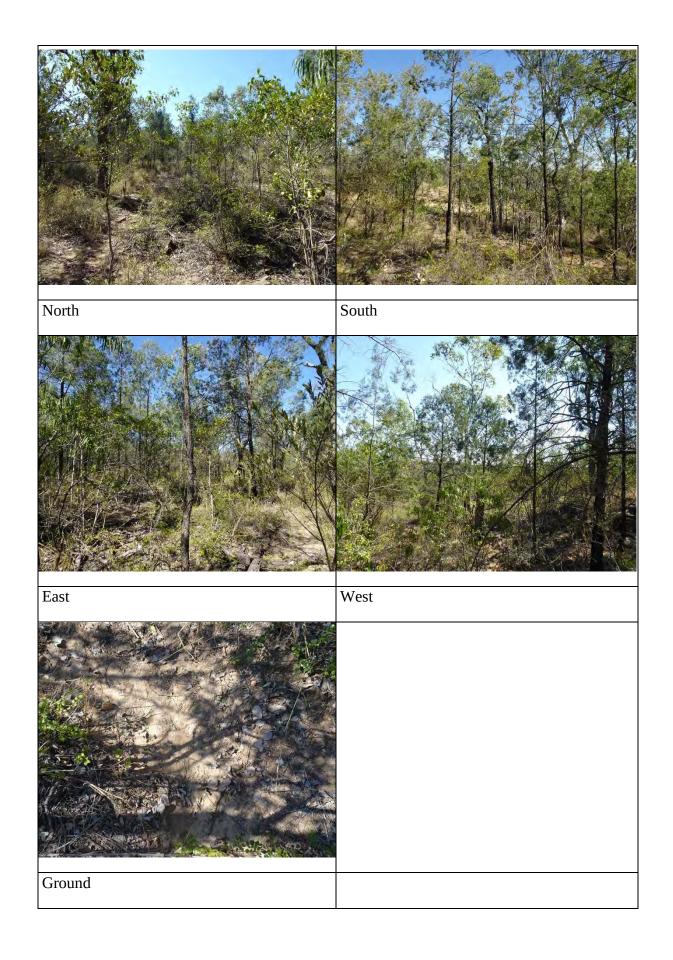
GPS:		ce/direction to nearest	55703	625		1149241 06
Vegetat Median he	ion strue	<b>cture</b> DL is to be measur	red	Record	t speci	ies (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – assoc
Stratum	Median height	Height Interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		-		TI	D	Coullities glacedella
T1	18	16-20	5/M		A	Coullitris glacepylle
T2	10	8-12	M		A	C Melanaplora
Т3		_				A. Levogarpo
'S1	4	2-6	5	1/2	0	Callitis glancopy
S2	1	1-1.5	✓	1.00		7
G		0.5.1		5)		willga
Structural	+1	(including height)	182	52		Petalostigma pubosas
Ecologica	lly domina	nt layer:	11	6		Buffel
	landforn					Echropogon Aristida cabara/lina Pragractis Callina
	nap/scale/y		The state of the s		1	Vetergraga contacta
	ode and ro	ck types:	1		1	le moder
Land syste		W	entercuse	(un	2	flrage it
Landform:	0	-1. /-	1 1 -	7		× 1/ .
Soils:	* 1	50-	2 00	)	-10	soly
Field obse	rvation and	notes:			*************	
						Landzone:

END

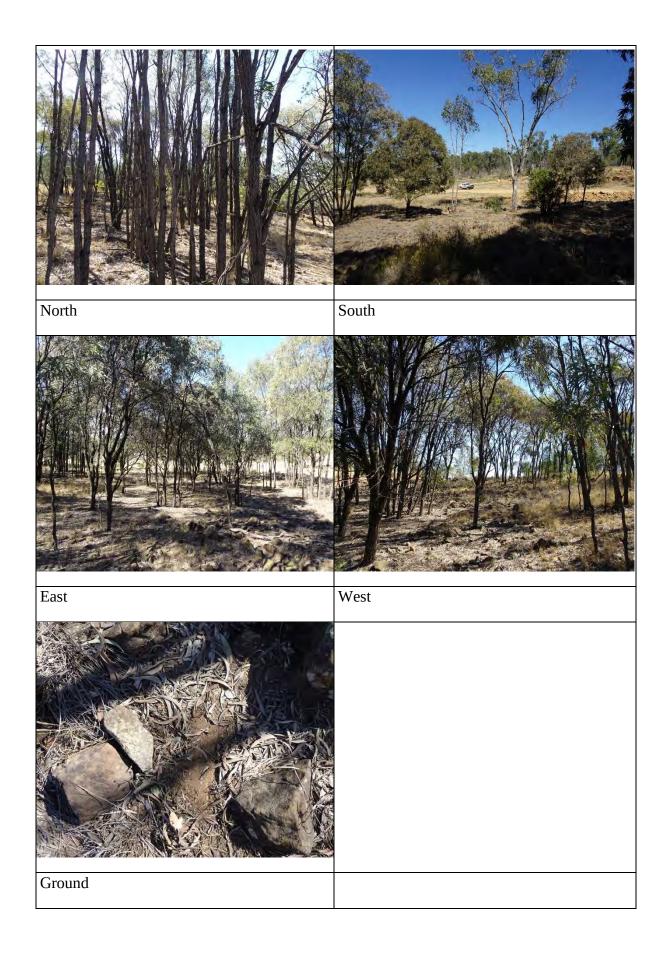


Vegetat Median hei	ion stru	cture EDL is to be measur	red		tspeci	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	d – do	Rel.	(numerical) dominance for each strate c - co-dominant; s - subdominant, a - Scientific Name
Е	112	11 - 14	5	71	7)	Melenglora
T1 /	/				5	Poplar
T2	6	5-8	М			
Т3				12	1)	Callitis glancopy
S1	2	1.5 -3	5/M			
S2 G	1.5	0 -15	M	51		Hoven?
	, Wo	(including height)	12m	Sz.	D	Pitt ospelvin spine Osydroma Corisse ovater
Geology m Geology co Land syste Landform: Soils:	ap/scale/y ode and ro m:	ear: c ck types:	pton Por		D	Mosellyrs us isHel
		-		***************************************	************	Landzon

END



		ecorder:	)5 K	A		Day/Date: 28/9/20	
Purpose	1.00	******************************				***************************************	-
Locality	(inc. distance	e/direction to neares	town) Falry	len			
GPS:		6	50070	290	9	1149332 D6	8
		- /					
<b>'egetat</b> Median hei	ion struc	ture DL is to be measu	red	Record	speci relative	ies (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associa	atod
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	neu
Ε				11	D	Brigalow	
T1	4	6-8	0			Committee the state of the stat	INVEST
T2						The state of the s	144
Т3		-		51	Marie Commence	Wilgon	*****
S1	2	2 - 2.5	V		***************************************		-pain
S2		-	CONTRACTOR OF THE PARTY OF THE	6		Paspallider	
G	05	03-0-6	M			butto 1	****
cologica	lly dominan	t layer:	1				
eology,	landform	ı, soils					
eology n	nap/scale/ye	ear:					_
	-3.4			- (Umunatili U		((com ))	
and syste							erice
andform:	**************************************						
Soils:		Valo	branch	clex		- ver rocky	
ield obse	rvation and	notes:	***************************************	U			
***************************************		70000000000000000000000000000000000000	***************************************			Landzone: /	4
code o	changes					7	
xisting R	E code:		Time time				
					ı		

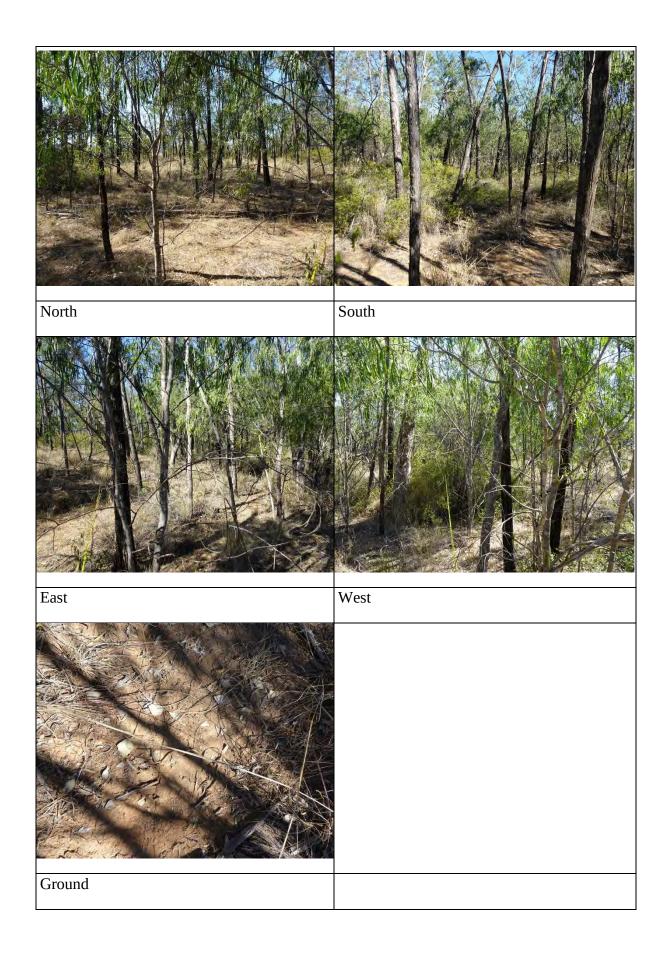


			Biocondition	n Datasheet			
Site ID	14					Date	28/8/
Observers	75	AH					
Site Information:							
100x50m Area:							
Location (GPS referen	nce)				Bio	region	(375)
Datum	GDA 94						
Zone	555	Easting	07005	414	Northing 7	149 363	69
Plot origin			07005	86	7	149386	68
Plot centre							
Plot Bearing			Plot Alignm	ent Description	on		
Locality	Farry	1em	-				
Regional Ecosystem	and Tree heigh	t					
Habitat Description	Callit	inis w	selled s	with	Popler		
	rale	Sand	500	revery		. 17	
Regional Ecosystem			-	Median Tre	ee canopy Height (m		d
	Emergent he		051	C	Subcanopy ht (m	)	8
Site Photos	Plot centre	North	956	South	957		
Photo Numbers		East	958	West			
	Plot Origin		-	other	960 100 x 50m Area:	T CDD Disk-	
Disturbance	mean fire			-	100 x 50m Area:	Tree SPP. Richne	11111
Туре	scar height	severity	last event	obs type	Tree Species (	MILLI	Stateold
7,6-					6	aster Pop	Tree Sp
Wildfire							Count
Prescribed burn					AC	600	
Logging							
Treatment							
Grazing					50 x 20m Area: C	oarse woody De	bris
Non-native plant cov	er Buffel	250%			Specimen length		
Erosion		-/-					site tot
Regeneration	1004						37
Storm	1						per ha
Other (specify)							
50 x 10m Area		Native Plan	nt Species Ri	chness	,	Total	
Shrub sp.	Carista		-	100 t	om I Acc	reich ex	alata
	intega French	la de	se/mit	Byde	ex Aca	tonia s. costad	ata
Grass sp.	Arestra	etne		1	-	2 . C 3/00/	
	10-1-1	- 100	t-male	joi be	bed wire		
	7 11	confr		N.	acha		
	Bothel			76	madin	_/_	
	Garas	100		Spe	oveber) (1	ever	
Forbs/other sp.	111	antles 4	eibert		meda probabil (1		
	d'hele	-			11 1		
	1						

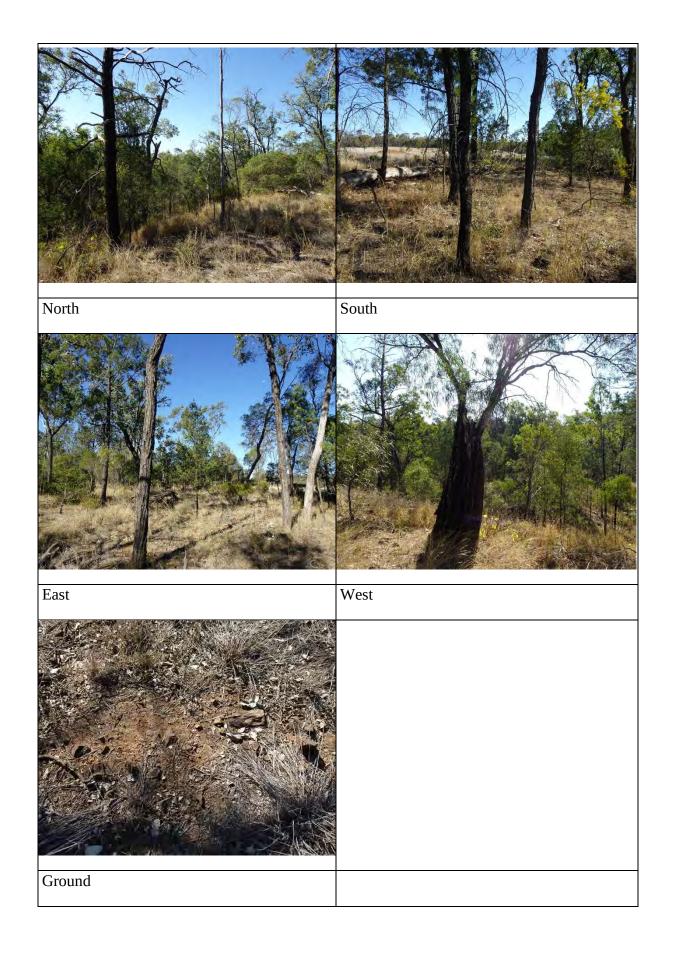
Lots of stays

one willer children lared

In v 10m Diate. Cu	ound Cover			n datasheet (				
LO x 10m Plots: Gro Ground cover type			1	2	3	4		5 Mean
Native perennial (p			100				20	
ntermediate) grass			10	30	30	20	20	
Native non-preferr								
Native forbs and ot								
Native shrubs (< 1r					45	1	60	
	n neight)				73			
Non-native grass Non-native forbs a	and alamaba					15		
	na stirups		15	70	25	50	20	
litter			-13	10		30		
rock	70			15				
bare ground	12					7		
Cryptograms		100	100	Inn	100	100	100	
Total	-	Dlak at		100	100x 20	100	100 x 10	1.00
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 X 10	
		Euc (E)		DBN				
		Non-Euc	Diam'r.	DBH				
Species		(N)	Diam (cm)					
							-6.	
				-				
	of the state of the state of					Tation and a second		
	- 10 / Vale					INVASOR ST	14	
1								
				7				
	Avg DBH						1/	
Eucalypts	threshold		RE	1		m Euc Benchm	nark 2	chmalk
		0	No. Trees >	= Benchman	rk/ha	No.	Den	Cultural
	No. Trees	0		_				
	No. Trees Avg DBH		3					
Non-Eucalypts			RE			m Euc Benchn	nark	
Non-Eucalypts	Avg DBH	0		= Benchmai	rk/ha			
Non-Eucalypts  100m Transect: To	Avg DBH threshold No. Trees	0	No. Trees >		rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
	Avg DBH threshold No. Trees ree and Shrub	0	No. Trees >	Canopy (C),	rk/ha		nt (E), Shru	b (S)
100m Transect: To	Avg DBH threshold No. Trees ree and Shrub	Canopy Cove	No. Trees > er Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)	Avg DBH threshold No. Trees ree and Shrub	Canopy Cove	No. Trees >	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)	Avg DBH threshold No. Trees ree and Shrub	Canopy Cover	No. Trees > er Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)  Poder  Carriera	Avg DBH threshold No. Trees ree and Shrub	Canopy Cove	No. Trees > er Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)	Avg DBH threshold No. Trees ree and Shrub	Canopy Cove	No. Trees > er Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)  Podar  Carriera  Uniga  Carriera  Uniga	Avg DBH threshold No. Trees ree and Shrub	Canopy Cover	No. Trees > er  Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m) Podar Carria Uniga Grandula Callife	Avg DBH threshold No. Trees ree and Shrub  2-3  3-7  12-5-14-9  12-23-5  22-2-3	Canopy Cover	No. Trees > er  Distance (n	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m) Poplar Carrier Uniga Callifers Uniga	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-11-9 19-23 5 22-23 24-5-32	O Canopy Cover Type	No. Trees > er Distance (n  2  3 4 5	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m) Poplar Canada Grandala Langa Callifers Uniga	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-5 19-23 5 22-23 24-5-32 35-5-52	O Canopy Cover Type	No. Trees > er Distance (n 2 3 4 5 5	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)  Poplar  Carriera  Carriera  Calliferia  Uniga  Uniga  Uniga  Uniga  Uniga  Uniga  Uniga	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-5 19-23-5 22-2-3 24-5-32 34-45	O Canopy Cover Type	No. Trees > er Distance (n  2  3 4 5	Canopy (C),	rk/ha , Subcanopy	(SC), Emerge	nt (E), Shru	
100m Transect: To Distance (m)  Poplar  Carrier  Carrier  Carrier  Carrier  Callifrida  United  Callifrida  United  Callifrida   Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-9 12-5-14-9 12-5-23 24-5-36 35-5-52 34-45 38-48	O Canopy Cover Type	No. Trees > er Distance (n  2  3  4:5  17:6  10:5	Canopy (C),	rk/ha , Subcanopy	(SC), Emerger Distance (m	nt (E), Shru		
100m Transect: To Distance (m)  Poplar  Carrier a  Carrier a  Calliff of the Carrier a  Lucke Carrier a  Calliff of the Carrier a	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-9 12-5-14-9 12-5-32 24-5-32 35-5-52 34-45 38-48 49-54	O Canopy Cover Type	No. Trees > er Distance (n  2  3  4:5  11:6  11:5	Canopy (C),	rk/ha , Subcanopy	(SC), Emerger Distance (m	nt (E), Shru	
100m Transect: To Distance (m)  Poplar  Constitution  Langua   Lan	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-5 13-5-15 19-235 22-2-3 24-5-35 35-5-52 34-45 49-54 60-65	O Canopy Cover Type	No. Trees > er Distance (n  2  3  b:5  17-16  10  5  5  5  5  5  6  7  8  8  8  8  8  8  8  8  8  8  8  8	Canopy (C),	rk/ha , Subcanopy	(SC), Emerger Distance (m	nt (E), Shru	
Distance (m)  Poder  Constitute  Langa  Constitute  Langa  Collingin  Langa  La	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-9 13-5-14-9 13-5-32 24-5-32 34-45 38-48 49-54 60-65 64-93	O Canopy Cover Type	No. Trees > er  Distance (n  2  3  4:5  17:06  5:5  17:06  5:5  26	Canopy (C),	rk/ha , Subcanopy	(SC), Emerger Distance (m	nt (E), Shru	
100m Transect: To Distance (m)  Poplar  Constitution  Langua   Lan	Avg DBH threshold No. Trees ree and Shrub  2-3 4-7 12-5-14-5 13-5-15 19-235 22-2-3 24-5-35 35-5-52 34-45 49-54 60-65	O Canopy Cover Type	No. Trees > er Distance (n  2  3  b:5  17-16  10  5  5  5  5  5  6  7  8  8  8  8  8  8  8  8  8  8  8  8	Canopy (C),	rk/ha , Subcanopy	(SC), Emerger Distance (m	nt (E), Shru	

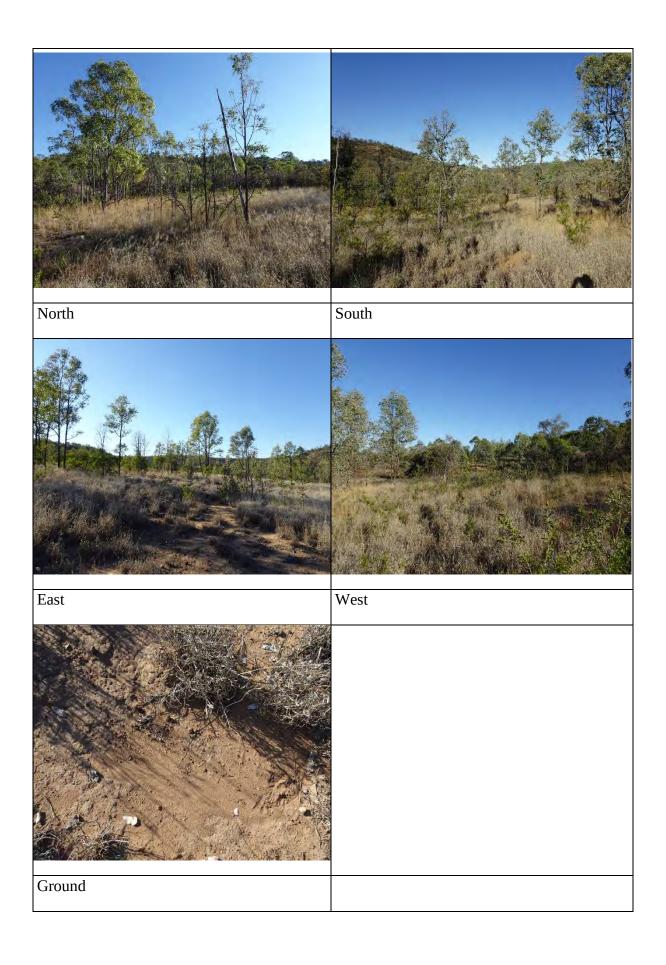


Site No.		ecorder: 02	RA	***************************************		Day/Date: 28/8/20
Purpose			Marian Company	****************		, , , , , , , , , , , , , , , , , , ,
Locality GPS:	(inc. distance	e/direction to nearest		1158	777	
GPS:			51070	11318	7	7149112 00
Vegetat	ion struc	cture		Plan	t spec	ies
Median hei	ght of the El	DL is to be measur	red	Recon	d relative	(numerical) dominance for each stratum; $c - \text{co-dominant}$ ; $s - \text{subdominant}$ , $a - \text{assoc}$
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
Ε	14	16-20	5/M	Ti	D	Melagloia
T1	4	3 -6	15		A	Coulitins apacopyllo
T2		-			A	Poplar
Т3		_				
S1		_		51	D	Callitin Florigath
S2	1	1 -1.5	V		Á	Ac decore
G	0.6	0.3-	Λ			Granilla Strati
Structural	formation:	(including height)	- ' '			Eranglis des/int
1-11	Shir	blad	400	6		Buffel
Ecologica	lly dominan	nt layer:	I			Aristoda pocernosi
						Lamadoi
Seology,	landform	ı, soils				Landai Alternation Appropria
Geology n	nap/scale/ye	ear:	110-10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			Cl-lavis truncati
Geology c	ode and roo	ck types:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Echropoger notes
Land syste	em:					Cymaopojo gualtivali
Landform:		·····	·			
Soils:	1	brown	loai	- tex	eles	Present
Field obse	rvation and	notes:	Newscool Control of the Control of t			
	aininamini,		***************************************	······		Landzone:
E code o	hanges					
Existing RI	E code:					
	RE code:		11-10			(100.000)



Median he Cover dens	cture DL is to be meas estimated		Plant species Record relative (numerical) dominance for each stratum; d – dominant; c – codominant; a – associated; s – appressed.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	
E	16	5-8	9/M	TI	D	E melarapt love	
T1 /					1	Parlo	
T2					P	Brigaton	
Т3				51	9	Ac exalata"	
S1	2	19-3	5			Potchoen longitalis	
S2							
G	0.6	6.4-08	2				
<u></u>	s;1 @	eeldist.	dy			Erogradis bournis/ Alemado Glordulizera cuistigo Hetropogan Conform Aristida Calisera	
otes							
Disturban	ce: _			Los			

GPS coordinates:	Datum:	GD194	Transect length: 100	
Start point Zon End point Zon		69421	7 N7 154801	695
All heights in the "Str./height" colu		red 694 14	8 7154735	9
Interval (metres)	Intercept	Str./height	Summary:	
34 - 35	) m	1, 4	Minimum height of plants included in the transect table:	m
45 - 45.4	0.5 m	5) (	Intercept of EDL 0 - 50m:	n
55-5-56	6.5 m	51 15	Intercept of EDL 50 -100m:	n
67 - 74	7 m	11 4.5	Measured crown cover % of EDL 0 -100m:	%
85.5 - 86	0-5' m	511	Structural formation	
92 - 92.5	0.5 m	51 0-5	Conclusions/notes:	
	m			
	m			
	m			
TACT.	m			
-	m			
	m			
141	m			
9	m			
V	m			
	m			
-	m			
	m			
-	m			
	m			



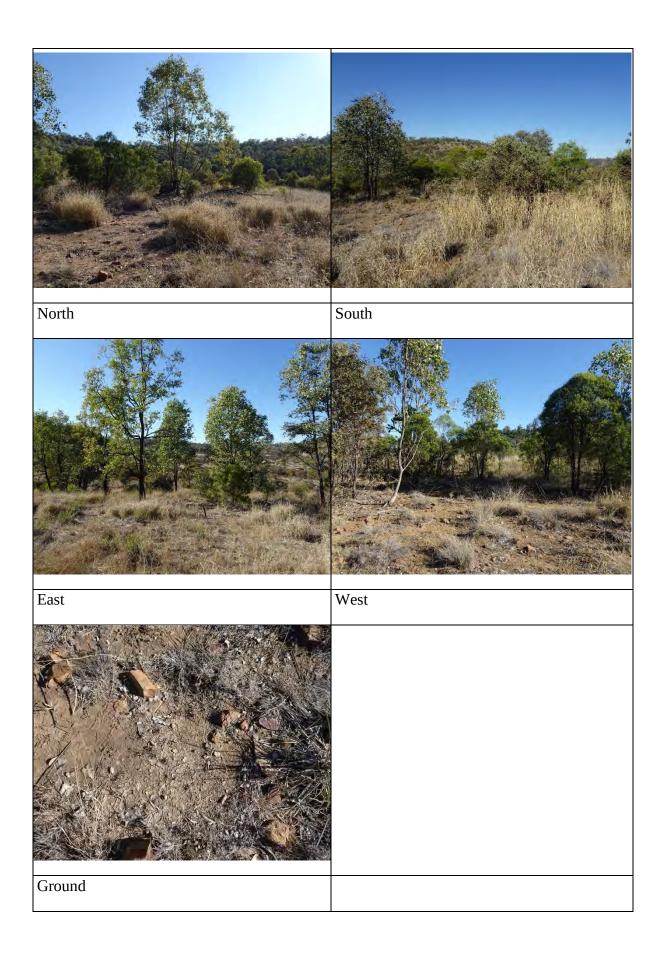
Median he Cover dens	ion struight of the listy is to be	EDL is to be measu estimated		Record	ominant;	ies (numerical) dominance for each stratum; c – codominant; a – associated; s –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	5	5-6	V	E	D	Rodon
T1	2	3 -41	J 1/24	1	7	Bunker
T2		1-2-				in lga
T3	71	1,2	- AA	000		Everapher dos/Mi
S1	OFF	85-4				Citris
S2	0.5	05-1	<del>-</del>	1		
G	115	1-1.5	M	5	2	Bigger
		: (including height)				
Tall	oper si	mh (ad	2~	52		Grenic
	lly domina	nt layer:				Sienne artensionelis
Notes:	7					
	5 row	- loon	Clay-			
	50	NUCE COE	<u></u>			
01		1	2	6	D	R (/ )
				6		Bittel
						Gladdigen
						Side backethore
lotes						
Disturban	ce:		sp. tom.	000	150	
			Stel 5	200		
				-10-		

GPS coordinates:	Datum: GDN 94 Transect length: 100
Start point	Zone 55 E 06 9 4 4 5 2 N 7 1 5 4 7 4 9 687
End point	Zone 5 E 06 9 43 64 N 7 154 738 638

All haighte	in the	"Str /height"	column	are to	be measured

Interval (metres)	Interd	cept	Str./height
5 - 6		m	11 15
6.5 - 7	0.5	52m	5V10 0.
10 - 11	(	m	80Th 1
22 - 25	3	m	€ 3
24 - 35	II.	m	BUT12
37 -415	4.5	m	SW1,2
55.5-57	1.5	m	11 15
60 - 64	5	m	11 2
65 - 69	1	m	11 2.5
76 - 775	1.5	m	1 25
		m	
-		m	
<u>\</u>		m	
-4:		m	
		m	
-		m	
.2.		m	
-		m	
		m	
		m	

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		
		2
		8
		*
		*
		Ŷ.
		*
		*



#### A 3.3 Sheet D - Regional Ecosystem type assessment site

Site No.	22_R	ecorder: -	D5	AA		Day/Date: 29/8/2
Purpose						1-1-
		e/direction to neare	st town)			
GPS:			55694	602		7154633
		-				
<b>/egetati</b> Median hei	on struc	cture DL is to be meas	ured	Recon	t spec	ies (numerical) dominance for each stratu c – co-dominant; s - subdominant, a –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str	Rel. dom.	Scientific Name
E				51	7	Brigala
T1		-		Samona	P	Everyph (a des)
T2		_		20,000,00	The second second	- Indiana in the second in the
Т3		-	M	-		
S1	1	1 -1.5	5	CAMPITE IN	***************************************	
S2		-	a home de la common de la commo	6	0	B-Hel
G	0.4	0.6-1	D		1000000	Eragrostis collina
Lon	formation:	(including height	) /~			
	landforn					
	nap/scale/y		***************************************			
	ode and ro	ck types:	*************************			11 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Land syste						
Landform:	***************************************	Pa	le pront	· clo		
Soils:			1	100	12	brigale-
riela obse	rvation and	notes:	Low	1910-		
	************				************	Landzo

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END



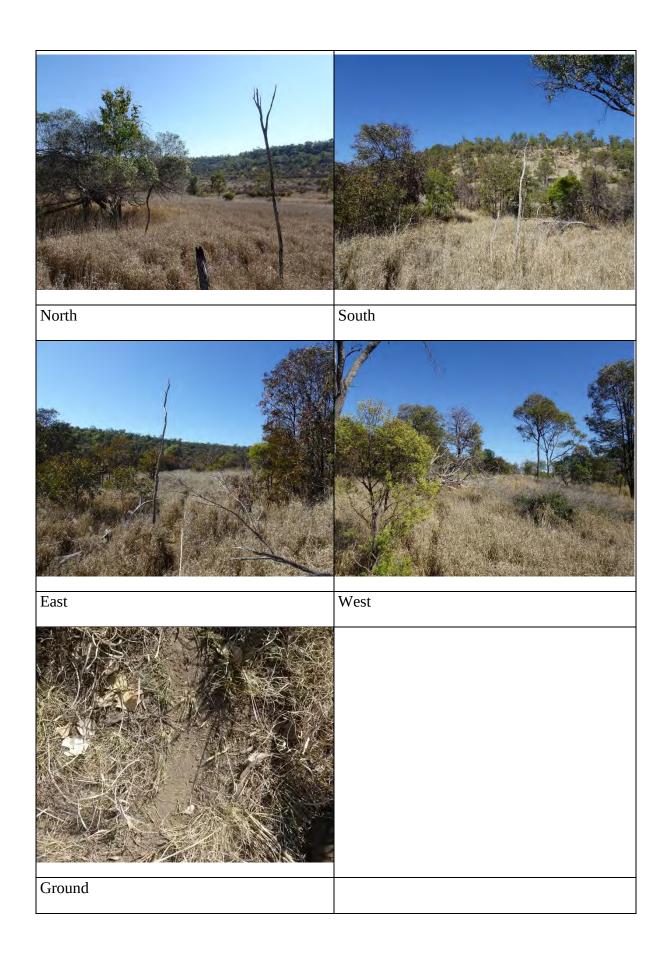
Median he	ion strue ight of the E sity is to be	DL is to be meas	ured	Record	t speci	es (numerical) dominance for each stra c – codominant; a – associated; s –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	uppresse Str.	Rel.	Scientific Name
E		1000		6	D	BAC
T1			†		-6	Engraphi collina
T2						2011/10
Т3		4.				
, S1						
S2			+			
G	09	06-1	17			
	Baga 10 Popla	Low so	1 pater)			
otes	e:			<u> </u>		
		Bulliot	90%	Core		

Transect - crown cover m	easured (transe	ect intercept i	met	hod)		
GPS coordinates:	Datum:	6DA 91	1	Transect length: /00		
Start point Zor	ne 55 E 0	6947	9	5 N7154372	690	
Ctart point 201		11 14 1 4			691	
End point Zor	ne 5 E 0	6948	9	LIN 71 543 89	6-11	
All heights in the "Str./height" colu	ımn are to be meası	ured				
Interval (metres)	Intercept	Str./height		Summary:		
50 -51	m	Gingle,	1	Minimum height of plants included in the transect table:	m	
4	m	Indien	1	Intercept of EDL 0 - 50m:		m
_	m	Bry-Ja	1	Intercept of EDL 50 -100m:		m
-	m	1.5m		Measured crown cover % of EDL 0 -100m:		%
2	m			Structural formation		
	m			Conclusions/notes:		
2	m					
	m					
-	m					
-	m					
	m					
<del>-</del>	m					
4	m					
	m					
2	m					
	m					
-	m					
	· m		1			



	Vegetat Median he Cover den	DL is to be measu		Plant species Record relative (numerical) dominance for each stratum; d – dominant; c – codominant; a – associated; s – suppressed.			
486	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
1151	E	10	8-10	V15	11	n	Bryslew
148	T1	L(	3-5	M		-7-	
70	<u>T2</u>		<u>-</u>		E		Poples
89	<del>T3</del>						Bryaton
90	- <del>S1</del> -		1-25	3			,
	S2						
	G		0.2-1	-1/	51		in gen
		formation:	(including height)				Brydon
							Crengalar des/
	Notes:	lly dominar	t layer:				
	P.	le	clay				
			1				
		et5	of dray	Jt			
Ż	Y	elak	diel.	ade			r 1
		17	13 ( yolar	J	6	7	Bittot
			carofx				fogallider disters.
							dysplana coprota
- 1							
1	Votes						
	Disturbanc	e:					

Transect - crown cover m			100		
GPS coordinates:  Start point Zor  End point Zor		694 58	Transect length: 100	692	
All heights in the "Str./height" colu	ımn are to be meası	ured			
Interval (metres)	Intercept m	Str./height	Summary: Minimum height of plants included in the transect table:	m	
38 - 52	14 m	1) 4	Intercept of EDL 0 - 50m:		m
64 - to	6 m	1) 4	Intercept of EDL 50 -100m:		m
44 - 51	L/ m	11 3.5	Measured crown cover % of EDL 0 -100m:		%
96.5 - 100	3.5 m	11 5	Structural formation		
-	m		Conclusions/notes:		
	m				
	m				
I,ei	m				
	m				
12	m				
	m				
	m				
-	m				
	m				
04	m				
	m				
	m				
	m				
-	m				



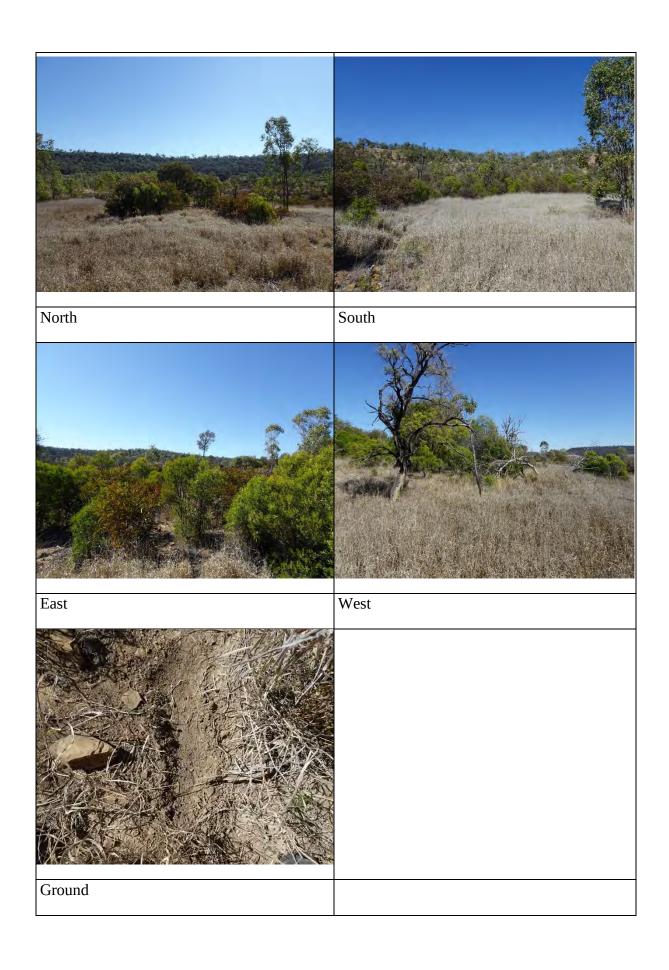
Stratum  E	Median height 8	Height interval	Est. cover density (D,M,S,V)	str.		
T1 T2 T3 S1	6	8.10		220	Rel. dom.	Scientific Name
T2 T3 S1			V	E	7	Poplar
T3	2	4-6		11	D	Baplo
S1		1.5-2	M			Brischen
00		=		12	D_	Bigalan
- 52						-ula-
G	0.8	0-8-1	1)			Energholo des/in
Ecologica Notes:	Pate Pate Pate	clay				
Notes Disturba	nce:			6		Bulfe

GPS coordinates:	Datum: 6DA 94 Transect length: 100	
Start point	Zone 55 E 0 6 9 43 5 5 N 7 1 5 4 4 2 2 697	
End point	Zone 555 E 0 6 9 4 2 8 9 N 7 1 5 4 5 0 3 694	

All baighte	in the	"Ctr /haight"	column are	to be measured	4

Interval (metres)	Intercept	Str./height
42 - 48	6 m	T16
53 - 54	1 4 m	12 1.5
5+ - 60	3 m	F2 2
62 - 63	m	12 1.5
73 - 75	2 m	T2 15
92 - 98.5	6.5 m	12 2
90-91	/ m	12 15
	m	
-	m	
	m	
-	m	
-	m	
-	m	
-	m	
-	m	
***	m	
21	m	
-	m	
7	m	
-	m	

Summary: Minimum height of plants included in the transect table:	m
Intercept of EDL 0 - 50m:	m
Intercept of EDL 50 -100m:	m
Measured crown cover % of EDL 0 -100m:	%
Structural formation	
Conclusions/notes:	



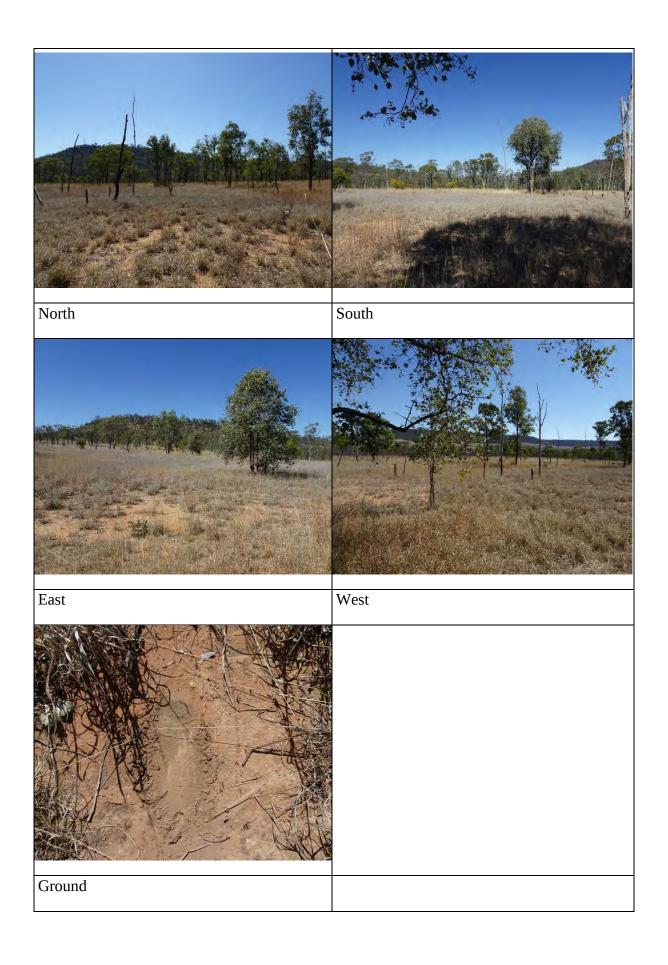
	ion stru- ight of the E sity is to be	cture EDL is to be measu estimated		Record	ominant;	es (numerical) dominance for each stratum; $c$ – codominant; $a$ – associated; $s$ –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	10	8 .11	5	6	2	Melerophleio
T1	4	1.5 - 6	M			Poplar
T2						callitis glavcaph
Т3		-				
S1						
S2				寸		Az decoro
G	0.8	0.3-12	カー			brigation
	-	n: (including height				Erenglika des/mi
Structur		10.9	of city nin			Crevillea strutor
						Ta. Jes
	ally domin	ant layer:				1 exalata
Notes:	300m	- day				
	70-	<del>-</del> -θ-				
	Some	selfece 1	Lock			
				6-		Cymbureau notret
						Cymhopaga, refred Neteofogen conto.
						3/6/
						Aristich Terkler
						- Jones
Notes						
Disturb	ance:					
Distuit	ulluu.					
		buffe	[mino/	Con	000	ent of ground In
Weeds						

SPS coordinates: Start point Zone End point Zone	5 E O	69406 69406	Transect length: 100 N71544086	696
Il heights in the "Str./height" colur	Intercept	Str./height	Summary:	
13 - 19.5	65 m	€ 8	Minimum height of plants included in the transect table:	m
195- 2115	2 m	10 25	Intercept of EDL 0 - 50m:	r
24 - 25	( m	11 73	Intercept of EDL 50 -100m:	- 1
33 - 34.5	1-5 m	t1 2	Measured crown cover % of EDL 0 -100m:	-
36 - 38	2 m	11 15	Structural formation	
38,-40	2 m	T1 4	Conclusions/notes:	
60 - 61	( m	113		
64 - 65	/ m	1, 4		
76 - 775	125 m	71 3		
92 - 94	2 m	11 3		
2	m			
	m			
10	m			
-	m			
-	m			
5.	m			
-	m			
-	m			
	m			
	m			



	21 R ecosyste	ecorder: DS		AA_		Day/Date:29/8/20
Locality:	(inc. distance	e/direction to nearest	town) Fair V	10-1		
ledian hei	ity is to be	DL is to be measu estimated	S	Record	ominant;	(numerical) dominance for each stratum; $c$ – codominant; $a$ – associated; $s$ –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		<del>-</del>		11	D	Melanoph losai
T1	10	80-12	$\sim$			
T2						
Т3						
S1						
S2						
G	06	05-08	028 D			
	dielo	th lots	de	G	ŋ	Buttel  Hotooperer contato  Eragoiti color  Claddiger Anstyse  Dichethur cencon  Xerthurn  Sorgham Sp.
otes						
Disturbar	nce:					
Veeds:		BLE	1-408	10	2/	
7-						
						Landzone

1	GPS coordinates: Start point End point	Zone 5 E 0	GD194 69359 69369	12 11 12 12 12 12	697
	All heights in the "Str./h	eight" column are to be meas	ured		
1			6. 12	Minimum height of plants	m
	1 3	0 22			
## ## ## ## ## ## ## ## ## ## ## ## ##		1	2 /	Intercept of EDL 50 -100m:	
m	1/1 1	7			
- m - m - m - m - m - m - m - m - m - m	-	m		Structural formation	
- m - m - m - m - m - m - m - m - m - m	-	m		Conclusions/notes:	
- m - m - m - m - m - m - m - m - m - m	-	m			
- m - m - m - m - m - m - m - m - m - m	· ·	m			
- m - m - m - m - m - m - m - m - m - m	-	m			
- m - m - m - m - m - m - m - m - m - m	-	m			
- m - m - m - m - m - m - m - m - m - m		m	-		
- m - m - m - m - m - m	-	m			
- m - m - m - m - m		m	4		
- m - m - m	-	m			
- m	-	m			
- m	-	im			
	-				
m I I I	-				
- m	-	m			



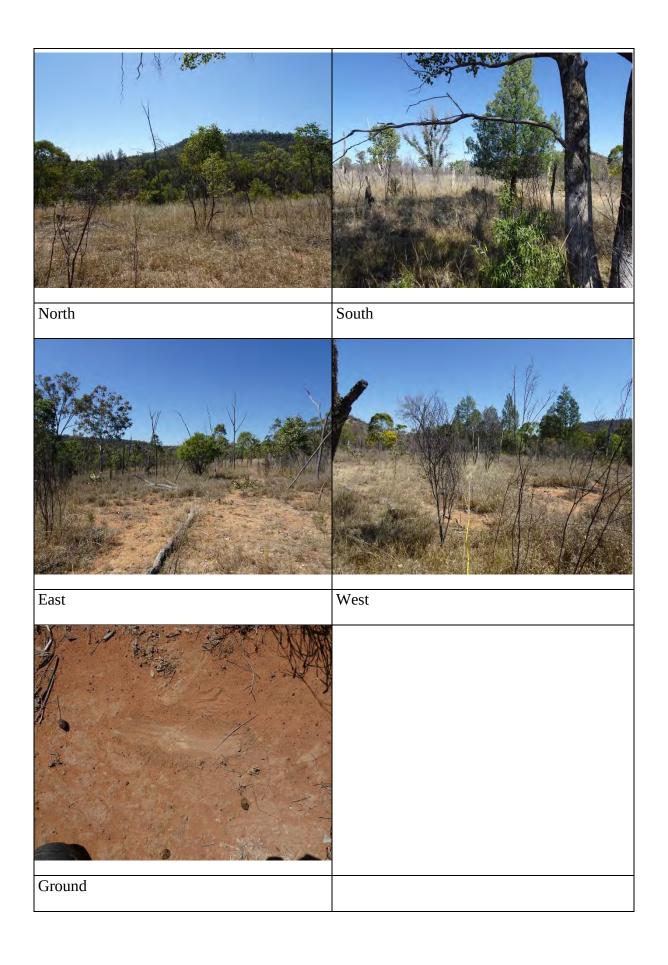
	ion struction struction in the Electric structure in the Electric stru	cture EDL is to be measu estimated		Record d - do	ominant,	es (numerical) dominance for each stratur c – codominant; a – associated; s –
Stratum	Median height	Height Interval	Est. cover density (D,M,S,V)	str.	Rel. dom.	Scientific Name
E	12	10-12	V	6	17	Poplar
T1	7	6.8	5			
T2				-7-		
T3				11/	1)	callitris glerafillo
S1		15	5			
S2 	0.5	04-1	-M			
Lan	al formation	e city		_51		Reglar seedlys
Notes				6		Gregostis callina Charlyn Better

GPS coordinates:	Datum: GUN 94 Transect length: GON
Start point	Zone 55 E 0 6 9 3 5 5 9 N 7 1 5 4 7 6 3 6 9
End point	Zone 547 E 0693510 N7154762 700

All haighte	in the	"Str./height"	column :	are to	be	measured
All Heights	III UIC	ou meight	COlumn	are to	DC	HICAGAICA

Interval (metres)	Intercept	Str./height
0-5	5 m	E 12
36.5 - OH 3	12.5 m	1, 8
	m	
-	m	
-	m	
4	m	
4	m	
4	m	
)= ,	m	
-	m	
4	m	
· ·	m	
	m	
-	m	
-	m	
-	in	1
	m	
14	m	1
-	m	1
_	η	1

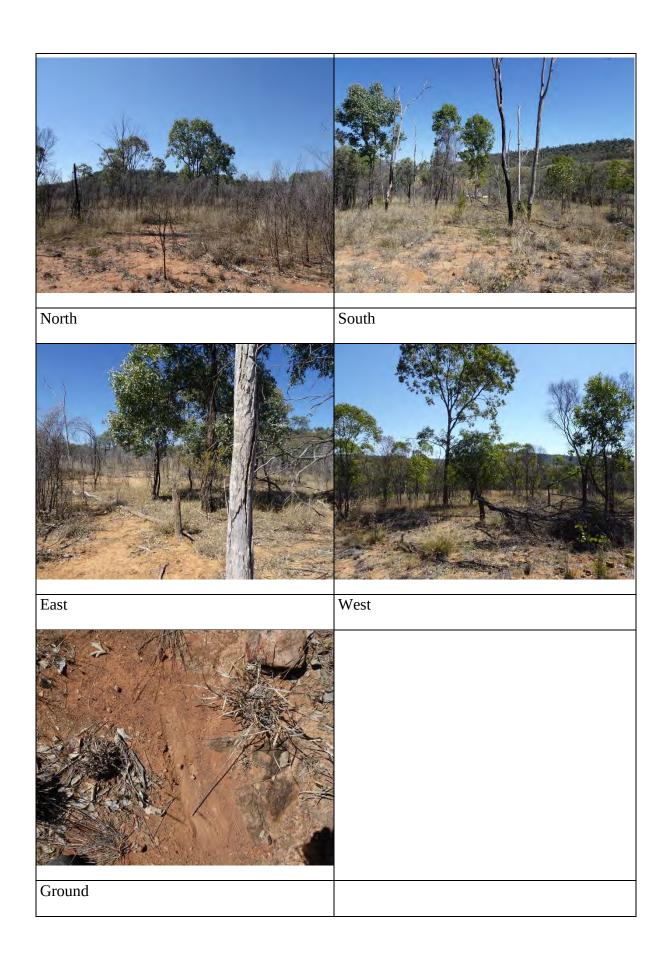
2.5.5	
Summary: Minimum height of plants	
included in the transect table:	m
Intercept of EDL 0 - 50m:	r
Intercept of EDL 50 -100m:	-
Measured crown cover % of EDL 0 -100m:	9
Structural formation	
Conclusions/notes:	



	ion struction of the Electric sity is to be a	DL is to be meas		Record	ominant;	es (numerical) dominance for each stratum; $c$ – codominant; $a$ – associated; $s$ –
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E				TU	D	Melamplace
T1	8	8-10	5		P	poplar
T2						Callitis glaver
Т3						
S1	2	1.3				
S2				51		Ac docor
G	0.5	0.3 -	M			Ex secolly s
Structura	I formation:	(including heigh	t)			Dodonare viscola
40-	Voc.	dlad	8m			Alectron duko
	 	  				Threele
	 					Cymbofoger temb Eregietis collina Arktur cabaria
Notes						
Notes	nce:					

Transect - crown cover measured (transect intercept method)

GPS coordinates:  Start point Zo		GDA 94	3 N7 1 54 544	701
End point Zo	10 [-]2 -[-]	69358	1 N 71 5 4 4 9 4	10-
All heights in the "Str./height" coll	umn are to be measu	ured		
Interval (metres)	Intercept	Str./height	Summary:	
6-7	m	51 2	Minimum height of plants included in the transect table:	m
5-11	6 m	11 10	Intercept of EDL 0 - 50m:	m
125-25	75 m	TI 108	Intercept of EDL 50 -100m:	IT
50 -58	8 m	11 10	Measured crown cover % of EDL 0 -100m;	%
55 - 56	/ m	51 3	Structural formation	
59 - 94	5 m	TI 10	Conclusions/notes:	
_	m			
	m			
-	m			
-	m			
4	m			
-	m			
	m			
9	m			
-	m			
4	m			
	m			
	m			
-	m			



Regional Ecosystem Assessment - August 2012

A 3.3 Sheet D – Regional Ecosystem type assessment site

GPS:		5	669 36	370	8	7154459 01
Vegetat Median he	ion struc	cture DL is to be measu		Plant	speci relative	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		Wrygerous Caulous over	//,	TI	7	Poplar love
T1	10	6-12	V/5		a	Melanghior
T2		-		51		1/2 decer
Т3	4	1-5	V	in the same of		collitis glough
S1		***************************************				Poplar Seedly
S2		-				Greviller Strate
G	04	01-07	M			a Management of the Control of the C
. 1	al formation	(including height	reded wo	6		Tuneda
Ecologic	ally domina	int layer:	TI	maronn.		Aristide only
Geology	, landfori	m, soils				Glandliger
Geology	map/scale/	year:	- Harris - H			Gragostis collin
Geology	code and re	ock types:	***************************************			arysopon rem
Land sy	stem:					X anthon forth
Landfor Soils:	m:	Pale	eleg			Chysopogen refe
Field ob	servation ar	nd notes:				Landzone:

END

51te 30

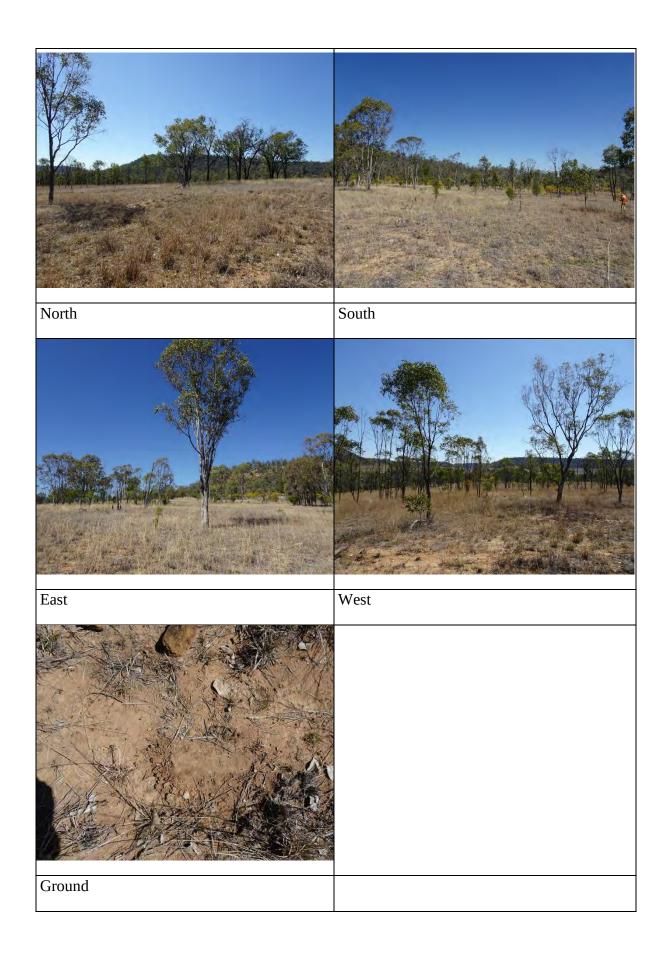
#### Vegetation Structure Site Inspection Sheet - Proforma

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercept	Str./height
20.22	2 m	T1 8
47 -50-5	3.5 m	11 10
59 -62	3 m	51 5
941 - 100	6 m	1/12
-	m	
-	m	
-	m	
	m	
-	m	
	m	
-	m	
	m	
	m	
-	m	
	m	
-	m	
	m	
-	m	
÷	m	
<del>-</del>	m	

Summary: Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		



Regional Ecosystem Assessment - August 2012

# A 3.3 Sheet D – Regional Ecosystem type assessment site

Site No.	32 R	ecorder:	5 , H	A		Day/Date: 27/8/20
Purpose		R 08	(set			
		e/direction to nearest	town) Farry	182		
GPS:	(IIIC. distance	5	55069	348	8	7154213 07
GF3.			069	341	9	4154 143 01 - 7
/tati	on nemic	oturo.		Plant	speci	es G- Vollandor
Median hei	ght of the El	cture DL is to be measure	ed	Decerd	ralativa i	(numerical) dominance for each stratum; – co-dominant; s - subdominant, a – ass
Stratum	Median height	Height interval	Est. cover density (D.M.S,V)	Str.	Rel. dom.	Scientific Name
E	= 10	10-14	1	Ti	A	Melanophiola
T1	A A	6 -a	V		1	Collar
T2	0					Ganles stiple
T3						Eremont la des/
13 S1	2	15.3	5/M			
S2				51		Franchila des/int
G G	05	03-07	9	- Continue		Mas
			1		1	A down
		n: (including height) Wolfe	4m	-properties		
				6		grayostis colore
Ecologic	ally domina	ant layer:			a annual trans	C. I. O. C. New
						Aristida alicina
Geology	, landfor	m, soils				O Hal
Geology	map/scale/	/year:				[70] F81
Geology	code and r	rock types:			useonneer.	
Land sys	stem: _					
Landford	m:	N /		***************************************		
Soils:	-	Pal 5	and Cal	/	d	
Field ob	servation a	nd notes:	17-26	0	0%	Carel
						Landzon
-/						
RE cod	e change	S				
	e change	S				

Page 23 of 26

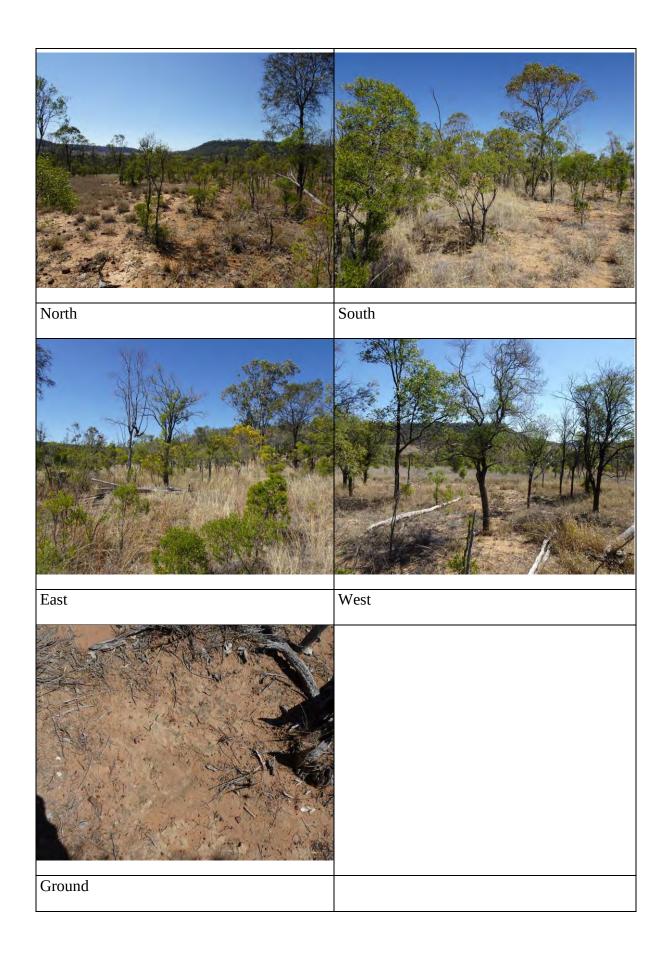
Site 32

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

All heights	in the	"Str /height"	column	are to	ha	measured

Interval (metres)	Intercept	Str./height
6-7	/ m	51 3
18-19	) m	512
38-40	2 m	314
72-86	8 m	E 14
	m	
	m	
	m	
_	m	
21.	m	
	m	
- T.	m	
	m	
	m	
-	m	
-	m	
-	m	
	m	
-	m	
	m	
4	m	

ummary:	1
inimum height of plants cluded in the transect table: m	
tercept of EDL 0 - 50m:	ir
tercept of EDL 50 -100m:	m
easured crown cover % f EDL 0 -100m:	%
tructural formation	
onclusions/notes:	
undatoris/notes.	



### Regional Ecosystem Assessment - August 2012

A 3.3 Sheet D – Regional Ecosystem type assessment site

ecality:	inc. distance	/direction to nearest	town) Fair V	27	9] [	4154255 0707
		345	069	333	1	415 4 340 708
getati dian heig	on struc	ture OL is to be measu	red		specion relative (	es (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associated
ratum	Median height	Height interval	Est, cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	12	10-13	V	E		Pap lov
T1	4	6-9	V	1		Belsi
T2		-	44			
Т3		-		-		A
S1	L	3 -4	5	51		A decor
S2	1,	0.5 - 1	5			Poplor Sazari
G	06	0.5.08	V		-	La Co
tructura	al formation	: (including heigh	1 1	52	D	Mary A
Low	ope	wooden	al Jan J	G		Bottel
Ecologic	ally domin	ant layer:	Cario anno a compressione de la			Elogrothis cellina
						Cl-deliger
	y, landfo					Bedothern sekenin
	map/scale		and the state of t			Heteopopen contorta
		rock types:			4.077-00-1400 bd +1	Paricum efficien
Land sy						
Landfor Soils:	m:		***************************************			
	envation	and notes:	3401	30	2	
rielu Ol	Joel validit					Landzone:
		Company Control of the Control of th				
	le chang					
Existin	g RE code:	***************************************				

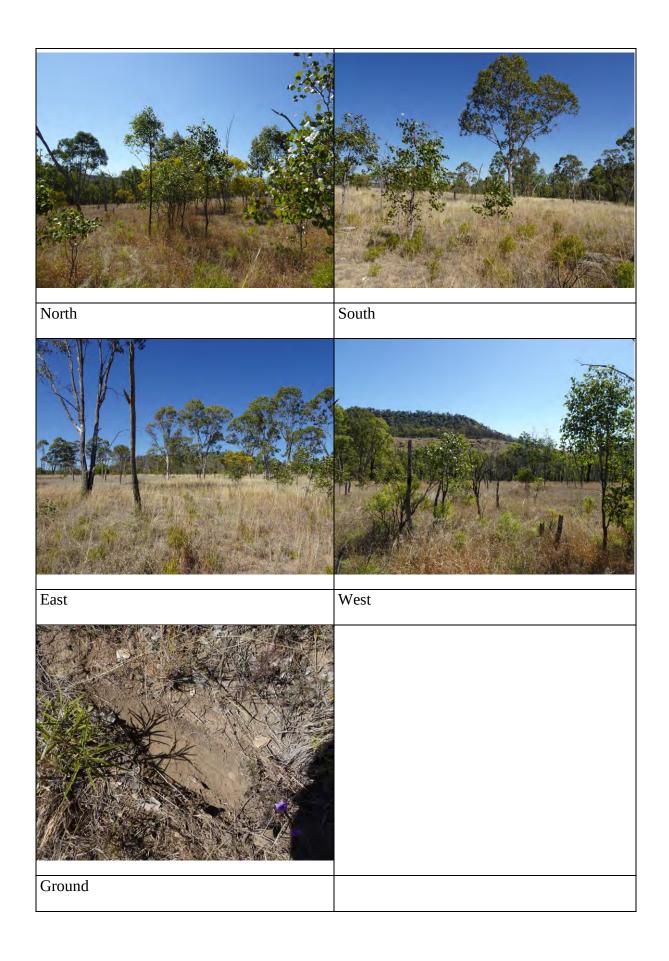
Transect - crown cover measured	(transect intercept method)

GPS coordinates:	Datum: Transect length:
Start point	Zone 5 E 0 N
End point	Zone 5 E 0 N

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercept	Str./height		
7-8	/ m	513		
75 -28	3 m	T18		
30.31	/ m	1123		
48.515	3.5 m	51 4		
•	m			
-	m			
40	m			
	m			
-	m			
-	m			
	m			
-	m			
-	m			
-	m			
	m			
-	m			
	m			
- 040	m			
4	m			
	m			

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



#### Regional Ecosystem Assessment – August 2012

# A 3.3 Sheet D - Regional Ecosystem type assessment site

	(inc. distance	e/direction to nearest	50069	17 5	4	1153712	0709
GPS:		12	069	366	3	7153700	410
Vegetat Median he	ion struc ght of the E	cture DL is to be measu	0- 1	Record	special relative in minant of	es (numerical) dominance for each : co-dominant; s - subdomina	stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	
E		-	,	Ti	D	Baylor	us removement
T1	9	7.12	5/m Parts	9	P	Poplar	
T2		-		1			, ,
Т3		-		.51		Example de	11.
S1	2	2 _ (1	5			hilson aneno	May to
S2	1	05_1	5			Corisser ovato	Vertile
G	0.5	0-2-	D	5-2		Carissa our	
Mary Control of Control	al formation	i: (including height	ivest 9m	6		BHel	************************
Ecologic	ally domina	ant layer:	Í.		0=01=1=1=	Edinopogen	
Geology Geology Land sy Landfor Soils:		year: ock types:	Biffeel ctay v	50% 27/ 1015	Por	dey	MAN,
	e change	s					
RE cod							
000	RE code:						

Page 23 of 26

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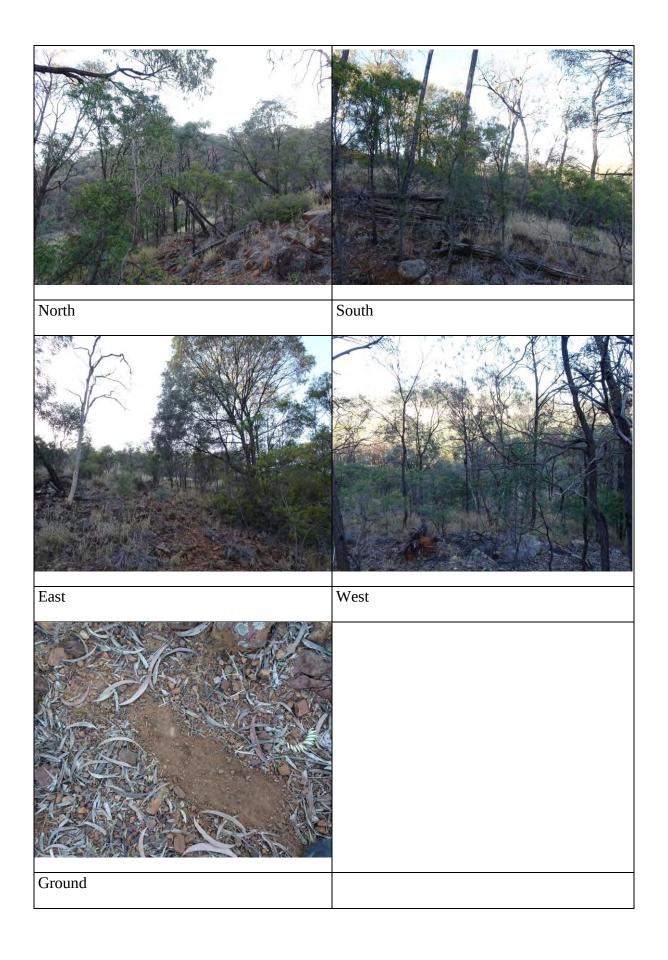
# Vegetation Structure Site Inspection Sheet - Proforma

Action to the second						
Transect -	crown	cover meas	surod /to	rancont	intercent	mathadi

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept		Str.	height
2 - 8	6	m	11,	9
6.7	1	m	51	2
85 - 10	1.5	m	51	3
11 -17	6	m	51	3
255-275	2_	m	51	35
32 - 33	1	m	11	8
35 5 - 37	115	m	51	3
38 - 39	1	m	51	6
40 - 415	15	m	51	5
50-62	12	m	Ti	10
51-52	p	m	52	05
57:5-54	05	m	52	6.5
64 -70.5	65	m	11	8
65-67	2	m	51	4
70 -74.5	45	m	52	1
76 - 78	2 1	m	52	15
92 - 84	2	n	51	6
86 .82	2 1	n	Ti	10
87-88		n	51	5
93-94	1	n	52	1.5

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		rr
Intercept of EDL 50 -100m:		n
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



A 3.3 Sheet D – Regional Ecosystem type assessment site

Locality:	(inc. distance	e/direction to nearest t	own)			
GPS:		3		77	5	7153546 D
/egetat	ion stru	cture	693	D	speci relative	(numerical) dominance for each stratum
Stratum	Median	DL is to be measur  Height interval	Est. cover density (D,M,S,V)	d – do	Rel. dom.	c – co-dominant, s - subdominant, a – as Scientific Name
E	height	Interval		1	P	Brigalen
T1	4	610	1			Greatles, Christy
T2				51		Enemyphila des/A
T3		_	-			citros
S1	3	2.5	5/ Cataly	)		Brigala Leed
S2		1 -1'5	V			
G	06	05-08	D	52	0	About out
	cally domin	· #	blad 8m	6	D	Dute
		rm, soils				
1		rock types:	Biller o	10%		Boe sound 109
Landfor		2.		λ	1	ux rocky
Soils:			ar eva	<i>Q</i>	V	1951
Field of	servation	and notes:				Landzo
	le chang	es				
RE coo						
	g RE code:					

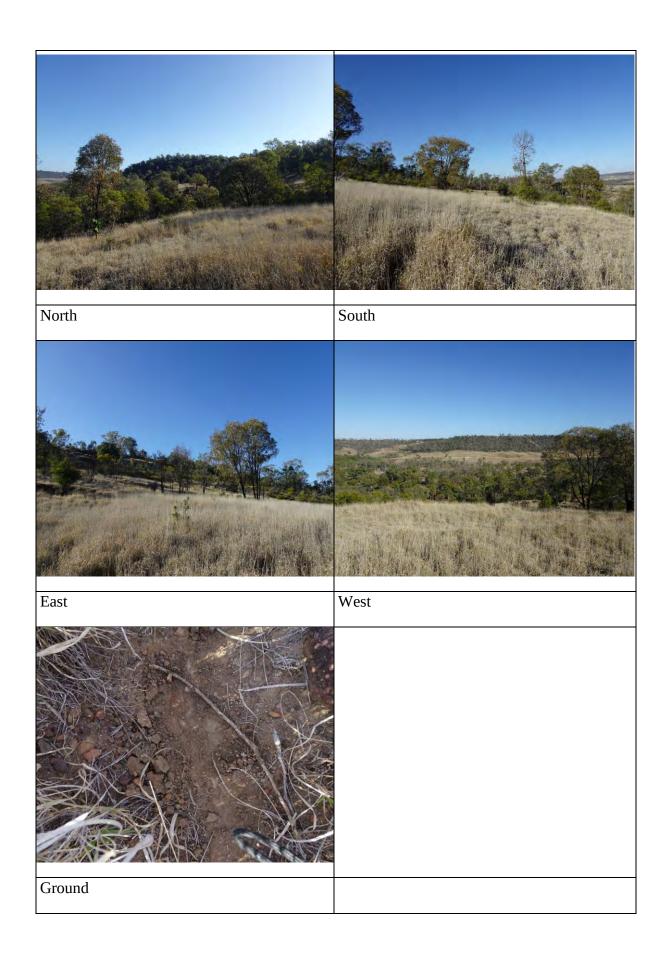
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# Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured	(transect intercept method)

GPS coordinates:		Datum:	Transect length:
Start point	Zone 5	E O	N
End point	Zone 5	E O	N

Interval (metres)	Intercept	Str./height
27-41	14 m	ti /
48-50	2 m	51 3
74 -775	3.5 m	513
81 - 53	2 m	52 15
84-86	2 m	513
-	m	
141	m	
Ψ.	m	
-	m	
-	m	
	m	
-	m	
-	m	
	m	
-	m	
-	m	
-	m	
	m	
4	m	
-	m	



A 3.3 Sheet D - Regional Ecosystem type assessment site

GPS:		2	1	361	9	71535110	0 713
Vegetat Median he	ion struc	cture DL is to be meas	00 /	Plant		1.33000	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	
₩ 11 /	10	6-12	1 Close	5) 11	D	Meleraphor restrains PR	iset of
T2 T3		- -		51	D	Ac decor	Ho
S1 S2	4	03-15				Praden	les/mit.
Structura	al formation	(including heigh	1)/	52	.,,,,,,,,,,,,,	Sense orters	s webs
Ecologic	ally domina	nt layer:	t)		40000	mlga	A. C.
Geology	, landfor	n, soils		6		Delahon gerice.	n-tens
Geology	map/scale/y	/ear:				He tempor	exterti
100	code and re	ock types:				Acidida, culye	
Land sys				_		Buffel	Tur
Soils:		Light 1	oran ela		ve	) radiy	
Field obs	servation an	d notes:				′ ↓ La	ndzone: 10
RE code	changes				20100100400100		11016
	RE code:						·
Propose	d RE code:					overall Page	

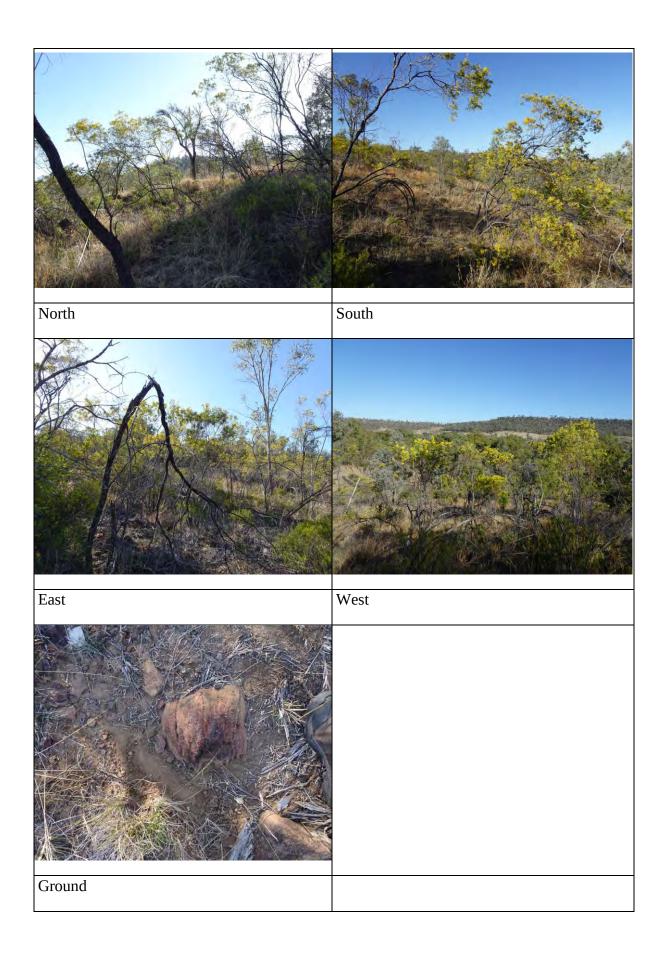
Site 42

## Vegetation Structure Site Inspection Sheet - Proforma

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	Str./height
15 -16	/	n 52 05
9.5 -10	6.5	n 51 3
12 -13	1	n 51 3
16 -19	3	n 51 3.5
23 - 25	2	n 51 3
665 - 675	1	n 52 0-75
67 -675	0.5	n 5/ 3
70 - 91	21	n T) 12
74 -755	1.5	n 52 T
76 -78.5	25	n 515
90 -88	8 ,	-1 11
-		n
-	1	n
	r	1
	n	1
-	n	1
1.2	n	1
-	n	1
	n	Y
_	n	

Summary: Minimum height of plants		
included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



# A 3.3 Sheet D – Regional Ecosystem type assessment site

Vegetati	on struc	cture DL is to be measu	969	Plant	Speci	ies (numerical) dominance for each stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	d – do	Rel.	c - co-dominant; s - subdominant, a - associated.  Scientific Name
Е	i D	9.11	V	fi	n	Mekrophloria
T1 /	/	-				Poeticernis (asse. h
T2		-				Poplar
Т3		-		5:		1/2 dicor
S1		1.5 - 3	V			Ac exalati
S2		-				7
G	0.5	0.5-04	0			
Structura	l formation	: (including height	) , , ,	6		Ruthel
Lon	Open	Word	ed lon			Dichelhour Excer
Ecologica	ally domina	int layer:	n			Neteropagor contesta
						0/1/05
Geology	, landfor	m, soils				Gladuligera
Geology	map/scale/	year:				Maran microfile
Geology	code and re	ock types:				Lonada shell
Land sys	tem:					Vaisy Colista - dece
Landform	i:	0 1	1.1.1	71		Lots of rades
Soils:		Port	redding.	ley		Lats of rades
Field obs	ervation ar	nd notes:				
				ORMAN TENT		Landzone:
				CHARLES TO SERVICE STATES	110-120-12	

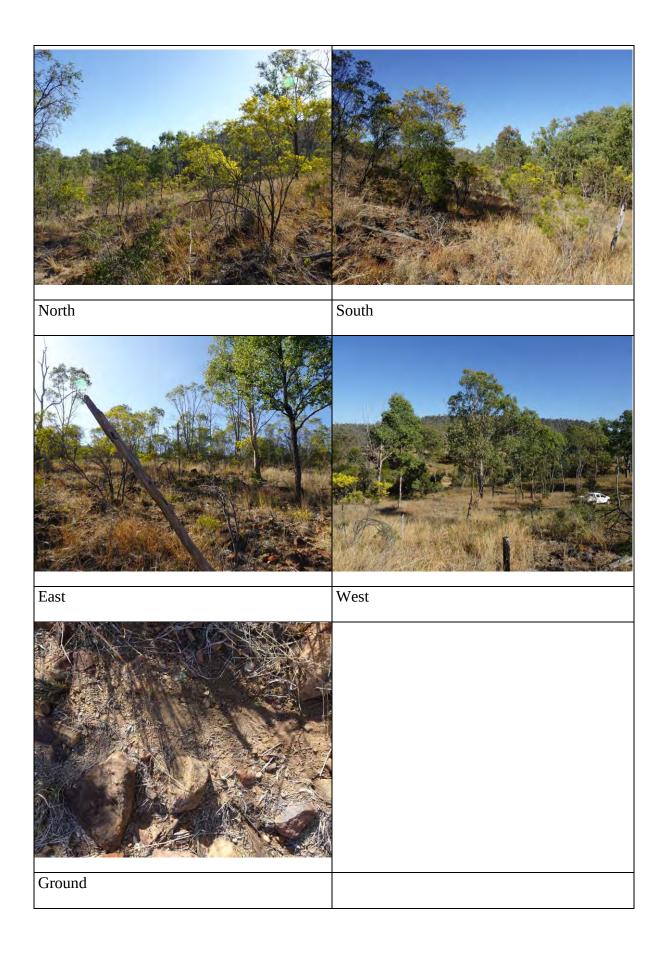
# Ste 43 Vegetation Structure Site Inspection Sheet - Proforma

Transect	- crown	COVER	massurad	(transact	intercent	mathadl

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	Str./height
5 - 9	4 m	51 3
255-26	0.5 m	51 1.5
37 -745	0.5 m	51 4
58 -63	5 m	1 8
63-5-645	m	512
68 - 7	3 m	5, 45
71-74	3 m	T110
-	m	
14	m	
-	m	
4	m	
	m	
- 1 4 1	m	
4	m	
*	m	
-	m	
	m	
•	m	
*	m	
+	m	

m	num height of plants led in the transect table:
	ept of EDL 0 - 50m:
	ept of EDL 50 -100m:
	ured crown cover % DL 0 -100m:
	tural formation



# A 3.3 Sheet D – Regional Ecosystem type assessment site

Site No.	44 R	ecorder:	15	HA		Day/Date: 30/8/70
Purpose	3110101014	NA	extret			
		e/direction to neare	est town)	or VIE	-14	
GPS:	(	3	TEN DESTRUCTION	156		7157018 041
			06936	67	-	7152979 119
Vegetati	on stru	cture		Plant	speci	ies (numerical) dominance for each stratum;
Median heig		DL is to be meas		d - do	minant;	c – co-dominant; s - subdominant, a – associat
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		_		Y	0	Cas Cristatu
T1	10	8 12	ΛΛ.			Poplar
T2		-		41/100		Brigalow
Т3		_				
S1	3	2-5	5	51		Conglished des/mit
\$2		-				Lilga
G	0.6	0-1				Padanoer VISCUSO
Structura	formation	: (including heig	ht)			Aledgon
fond	000	rorest	10-	6		Bitel
Ecologica	ally domina	ant layer:				
Geology	, landfor	m, soils				
Geology	map/scale/	year:				n-
Geology	code and r	ock types:		***********		official and a state of the sta
Land sys	tem:					
Landform		7 .1 L	***************************************	11		
Soils:		Light	bre-n	Cla	5	
Field obs	ervation a	nd notes:				
						Landzone:
RE code	change	s				
Existing	RE code:					
Proposed	RE code:		lower the later to			
END			1. 0	-10	10	, patchi

Page 23 of 26

site 44

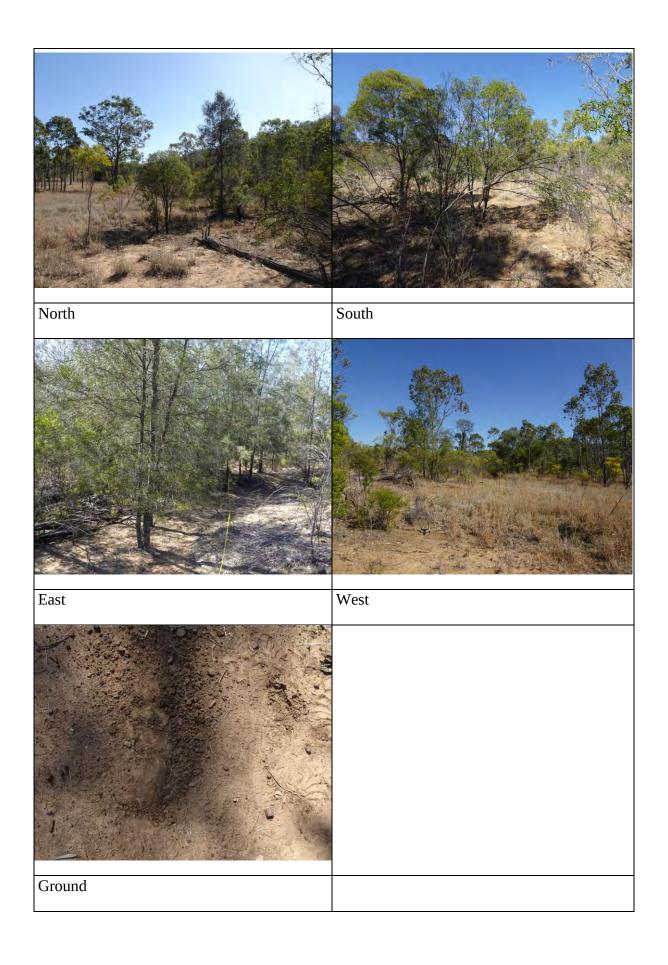
## Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	t	Str.	height
3 - 7.5	45	m	11	9
95-28	18.5	m	T.	12
33 - 35	2	m	51	3
43 - 51	8	m	Ti	9
53.63	10	m	Ti	11
55 - 575	25	m	51	3.5
67-69	2	m	51	1
71 - 76	5	m	51	2-5
73-77	4	m	D	7
28.5 - 81	2.5	m	51	1.5
91 - 93	4	m	TI	10
		m		
(6)		m		
*		m		
4		m		
-		m		
-		m		
-		m		
		m		
		m		

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



A 3.3 Sheet D – Regional Ecosystem type assessment site Location Day/Date: 30/8/20 HA Site No. 45 Recorder: offset NR Purpose four view Locality: (inc. distance/direction to nearest town) 7152746 335 0693748 720 Plant species

Record relative (numerical) dominance for each stratum;

d – dominant; c – co-dominant; s - subdominant, a – associated Vegetation structure Median height of the EDL is to be measured Est. cover density (D,M,S,V) Rel. dom. Height interval Median Scientific Name Str. Stratum height 1101 Vogla E Colletis gloughlis 1102 9-11 9 5 T1 1107 T2 T3 1104 5 51 S1 Econopole de/mit 1105 S2 06 0-6-0.8 G Dadoraen uscost Re decor law Wool Ecologically dominant layer: Echnoposan motors Dichatlium cercer in Geology, landform, soils Bac gound 10 Bullel 40% Geology map/scale/year: Geology code and rock types: Landform: day Surver Light rockbrown minar Field observation and notes: Landzone: RE code changes Existing RE code: Proposed RE code: of ton present END

5te 45

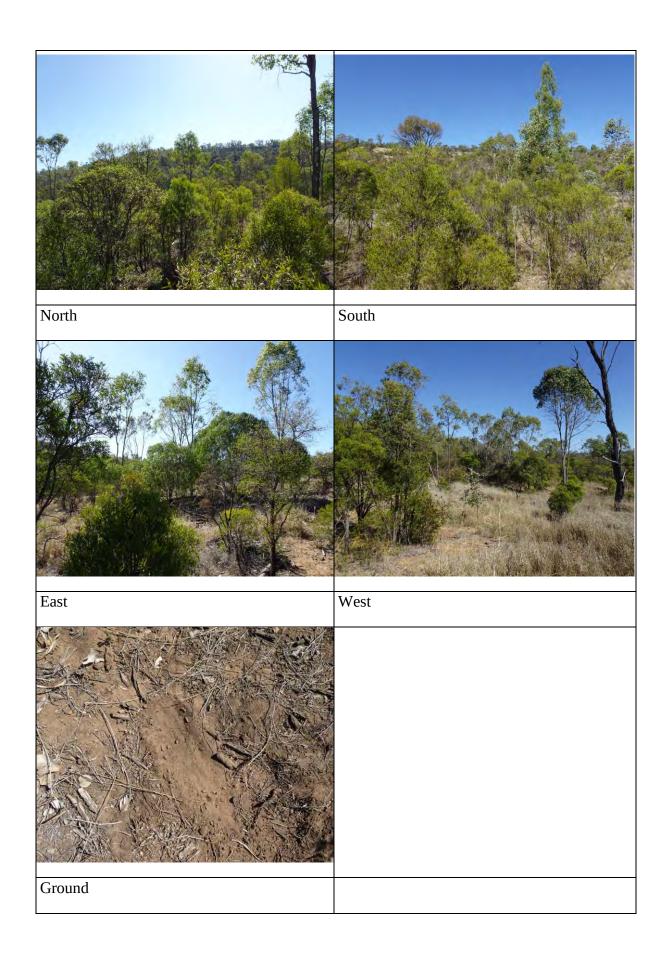
## Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	Str./height
23 - 235	0.5 m	1 1
27-28	/ m	51 3-5
30-5-41	10.5 m	51 5
30 -375	7.5 m	r, 9
47-50	3 m	t, 8
49-50	/ m	51 2
58 - 59	/ m	51 3.5
63 -635	0.5 m	51 2
65 -695	4-5 m	51 5
71.5-72.5	/ m	51 1-5
84.5.100	15.5 m	51 5
	m	
-	m	
	m	
	m	
-	m	
	m	
-	m	
-	m	
2	m	

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		n
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



## A 3.3 Sheet D - Regional Ecosystem type assessment site

Locality GPS:	: (inc. distanc	e/direction to nearest	town/	349		7/52957 D421
GF3.		150		340	2	715 3006 722
Vegetat Median he	ion strue	cture DL is to be measu	red	Record	speci relative minant;	(numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		-		11	D	Popler
T1	6	6.4	V			Callities glacestylle
T2		_	***************************************			
Т3				-		1-1
S1	2	15-3	M	\$1		A assessment to the terminal of the
S2	1	05-1				Exemple 16 may 1001
G	2.5	0 -0.6	M			Grevilles Stilata
Structur	- 70	n: (including height	1 /	62	-	Volence VIKON
-100	0/12/		ad Or			Carso ovala
Ecologi	cally domin	ant layer:	1)			DHel
Carlon	y, landfo	em soils		G		Deislide cabeina
	y map/scale					
		rock types:				
Land sy		, and a great and				
Landfo		***************************************		w() =		
Soils:		C	ale cle	1	La	15 of surface floor
Field of	bservation a	and notes:	***************************************			1/1
(						Landzone: O
RE cod	le change	es				
Existin	g RE code:					
-	sed RE code	o.				at have proset

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Page 23 of 26

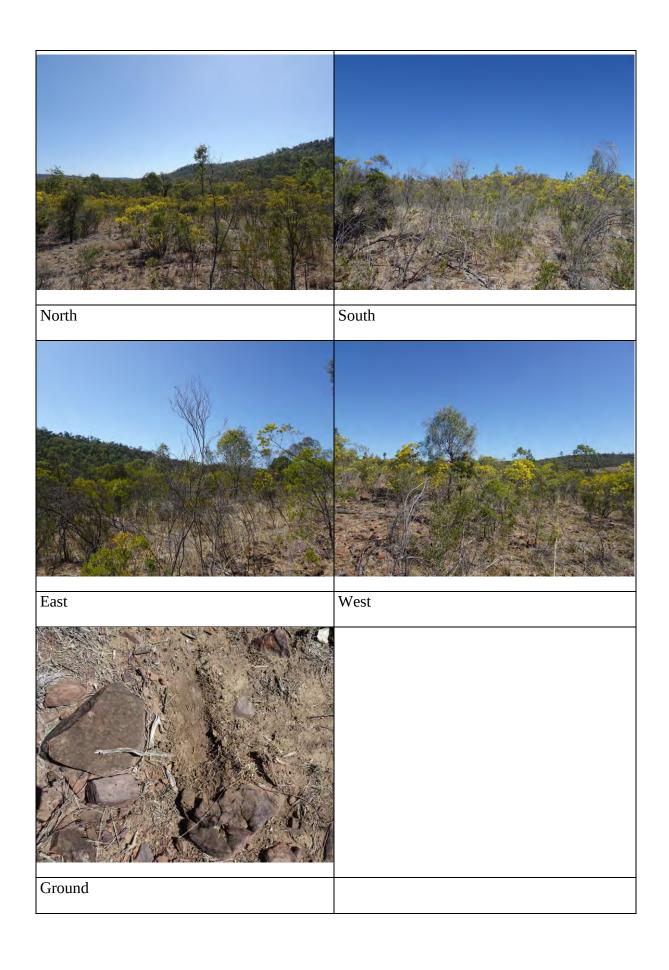
site 46

## Vegetation Structure Site Inspection Sheet - Proforma

GPS coordinates:	Datum	******************************	Transect length:
Start point	Zone 5 E	0	N
End point	Zone 5 E	0	N

Interval (metres)	Interce	pt	Str./	height
1 - 1.)	0.5	m	52	1
6-7	1	m	52	0.5
10-5-11	0.5	m	52	D
12.5 - 13	0.5	m	51	2
165 - 18	1.5	m	51	10
20 - 24	4	m	51	3
275-28	0.5	m	51	2
29 -40	11	m	51	
36 -39	3	m	TI	6
45 - 45 5	0.5	m	51	3
47.5-49	1.5	m	51	3.2
71-72	/	m	52	1
73.5 - 74	0.5	m	52	
77 -775	0.5	m	52	2
93-5-94	0-5	m	52	1
95 - 96	1	m	51	2.5
98 - 98.5	0.2	m	52	1
-		m		
2 14		m		
-		m		

Mississippe con landard of advanta	-	
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		r
Intercept of EDL 50 -100m:		r
Measured crown cover % of EDL 0 -100m:		9
Structural formation		
Conclusions/notes:		



function

#### A 3.3 Sheet D - Regional Ecosystem type assessment site

Site No.	47 R	ecorder: 1	)5. 1	AL		Day/Date: 30 8 20
Purpose	1/	2 off	set	United States		
	The state of the s	direction to nearest	town) (-m)	VIEW		Maria de la companya
GPS:	(IIIo. distance				81	7/15/308/1 D 72
0.0.			069	316		7183139 72
logotat	ion struc	eturo		Plant	speci	00
Median hei	ght of the El	DL is to be measu	red	Record	relative	(numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associati
Stratum	Median height	Height interval	Est. cover density (p.m.s.v)	Str.	Rel. dom.	Scientific Name
A	113	12-16	V	6	D	Melercolleis
T1 /	-					
T2		.,			OH HOUSE	
Т3				51		the observe
S1	3	15-6	5/m			moleculation
S2	0.5	0-4-1	V	32		Ac exalator
G	0.5	0.4_06	り	12		The state of the s
7		(including height)				BHel sclardo
	en Wo		13m	6		Bittel sclerdo
	ally domina	/				ophros
_55,6916			<u>                                     </u>	ananan-a	1000000000	Heterologer
Geology	, landform	n, soils				Glad liger
	map/scale/y		Biffel	60	%	Bare ground 30
	code and ro		10			
Land sys						
Landform						
Soils:	-amayan	0	ale brok	m (	cla	some rock of
Field obs	servation an				0	
		100				Landzone:
DE sod	obono					
	changes					
Existing	RE code:					
	d RE code:					

END

5th 47

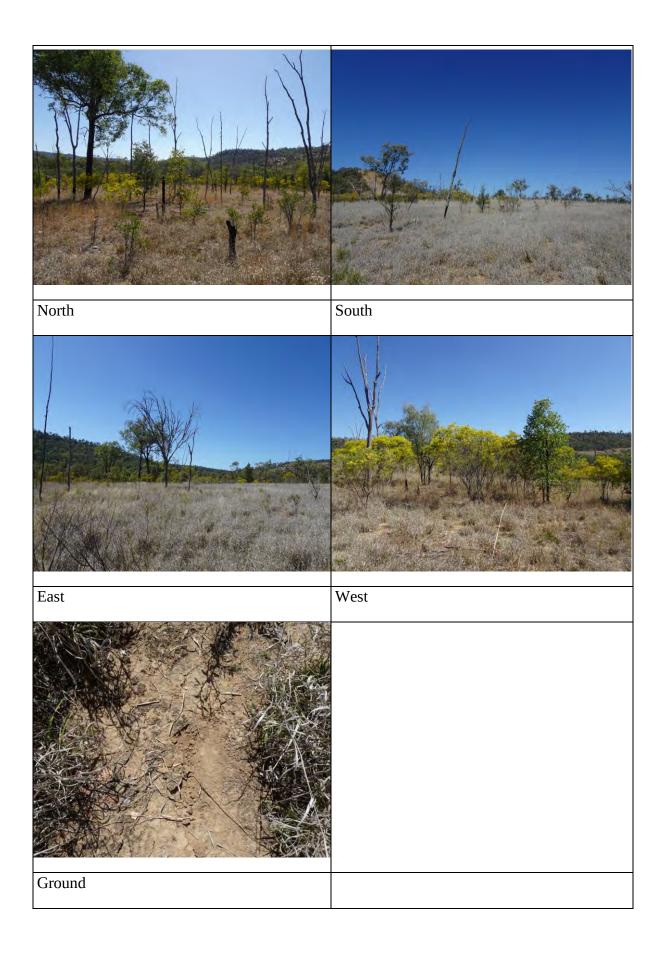
## Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	Str./height
9.5 - 25	15.5 m	51 35
32 -32.5	0.5 m	512
36 -38.5 435 - 51	2.5 m	51 3
435 - 51	7.5 m	513
1 - 4 - 1	m	
	m	
-	m	
14.	m	
-	m	
-	m	
ω.	m	
	m	
	m	
	m	
-	m	
-	m	
-	m	
•	m	
- 1 - 1	m	
À.	m	

Minimum height of plants included in the transect table:	m
Intercept of EDL 0 - 50m:	
Intercept of EDL 50 -100m:	
Measured crown cover % of EDL 0 -100m:	
Structural formation	
Conclusions/notes:	



A 3.3 Sheet D – Regional Ecosystem type assessment site

Purpose		in of	507	-	an about the Fried	
Locality	: (inc. distance	ce/direction to nearest		nen		
GPS:		5		299		7 153 145
			069'	306	0	4153223
	ion stru ight of the E	cture DL is to be measu	red	Record		es (numerical) dominance for each str c – co-dominant; s - subdominant, s
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E		_		11		Poples
T1	12	10-14	V			
Т2	150	DESTE	Z	51		Eremophola dis
ТЗ		-				Calliting glacof
S1	4	3.6	3			w. Ap
S2		-				Gaullec Strat
G	0.4	0.1-0.6	M			De décorer
Structura	l formatign	(including height)	v 15	10103		
12m	4	Wood	kd	6		Acistide orlyin
Ecologic	ally domina	ant layer:	1			ansproje (restor
						Botto!
Geology	, landfor	m, soils				Dycharthum
Geology	map/scale/	year:				Erugrostis loa
Geology	code and r	ock types:				U
Land sys	tem:					
Landforn	1:					
Soils:		Po	le pro	A (	clox	
Field obs	ervation a	nd notes:	030301101010101010101010101010101		U	***************************************
				****		Land
RE code	changes	5				
	RE code:					
LAISHING	oue.					

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Site 48

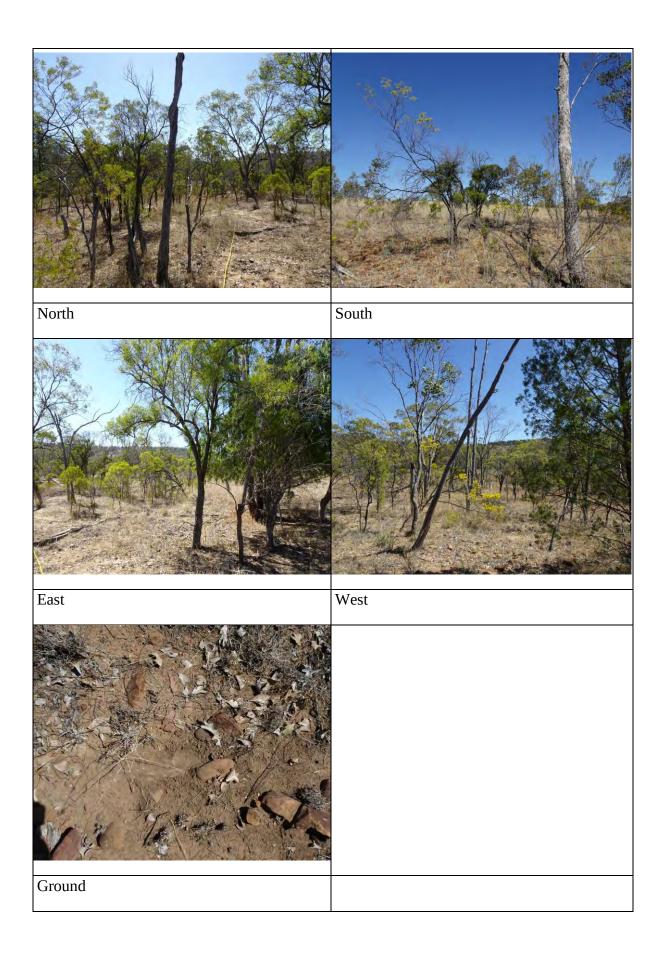
# Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

Interval (metres)	Intercept	Str./height
27 - 28	1	n 5/ 2
26 -35.5	9.5	n ti 10
41 -42	/	
49-51	3	5/ 2.5
53-5-56	2.5	51 3
59 -60	/ n	1514
61 - 63	2 "	1 51 4
61-64	3 "	r, 7
72-73	/ n	151 45
73-74	1 "	- 16
82.5 - 835	/ "	51 2-5
	ir	
	n	
-	m	
-	iv.	
-	Tr.	
14)	m	
-	m	
-	m	= 1
14	m	

Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



# A 3.3 Sheet D – Regional Ecosystem type assessment site

Locality	(inc. distance	ce/direction to nearest	town) Form	lew		
GPS:			55069	320	4	+153268
			069	329	3	7153 213
<b>/egetat</b> Median hei	ion stru ght of the E	cture DL is to be measu	red	Record	speci relative minant;	(numerical) dominance for each stratur c – co-dominant; s - subdominant, a – a
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E				1	1)	Poplar
T1	12	10 -15	5			111111111111111111111111111111111111111
Т2		△				
Т3		-				2.4
S1	6	3.7	5	51		crenephola des
S2		-				As decor
G	0.6	0.5-1	D			and a second process of the process of the second s
	L	n: (including height		1		Aristida continual
12m	VI	Woodlan	Ki	6	_	Aristide capit-med
Ecologic	ally domina	ant layer:	11			official
						1settel
Geology	, landfor	m, soils				
Geology	map/scale	year:				(i.i.)
Geology	code and r	ock types:		eniosionamo		A APPLICATION OF THE PROPERTY
Land sys	tem:					
Landforn	n:	Pal	11. 1.			
Soils:		Track	Silly clay			
Field obs	servation a	nd notes:	ericollinario communication de la communicatio			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	women and the second	archeron terror		Landzo
LL60011001001001						

END

# Vegetation Structure Site Inspection Sheet - Proforma

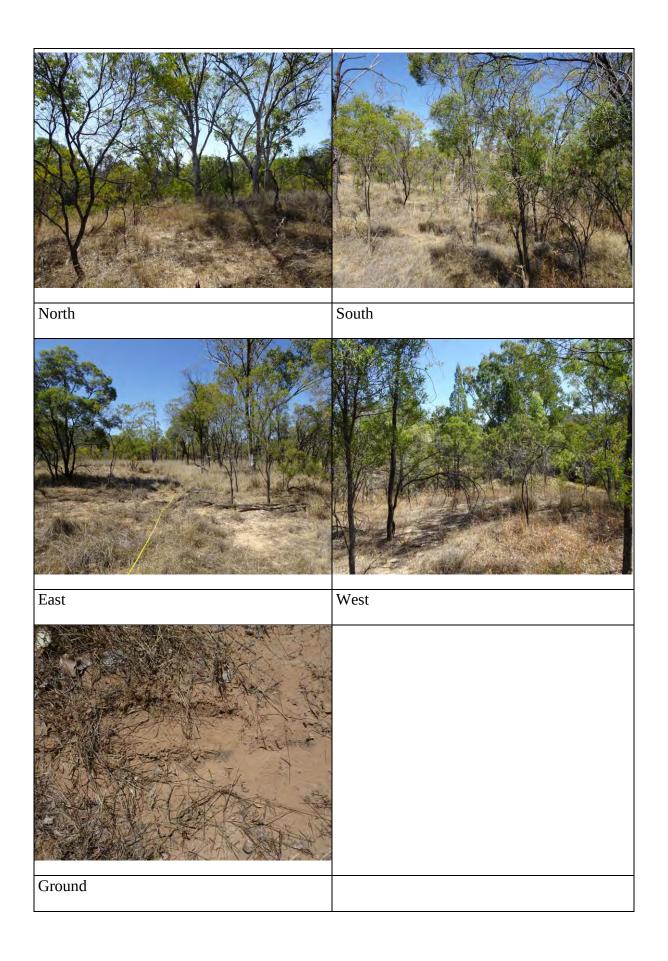
Transect - crown cove	er measured (transect inte	ercept method)
GPS coordinates:	Datum:	Transect length:

GPS coordinates:	D	atum:	 Transe	ect length:	
Start point	Zone 5	E 0	N		
End point	Zone 5	E 0	N		

All boights in	the "Str./height"	" column are to	he measured

Interval (metres)	Intercept	Str./height		
0 -2.5	2 15 m	51 3		
17 - 19	2 m	51 5		
22 - 24.5	2.5 m	51 5		
26 - 34	6 m	5' 6		
38 -38-5	6.5 m	51 5		
42 - 55	13 m	T, 11		
45-48	3 m	3 5		
55 - 60	5 m	51 4:5		
625-69	6.5 m	51 3		
765- 77	6.5 m	515		
795-96	6-5 m	51 9		
89 -905	1.5 m	51 3		
92 - 98	6 m	51 4.5		
14.9	m			
4	P			
4	m	1		
i <del>e</del>	m			
4	irr	1		
	m	N.		
-	m	1		

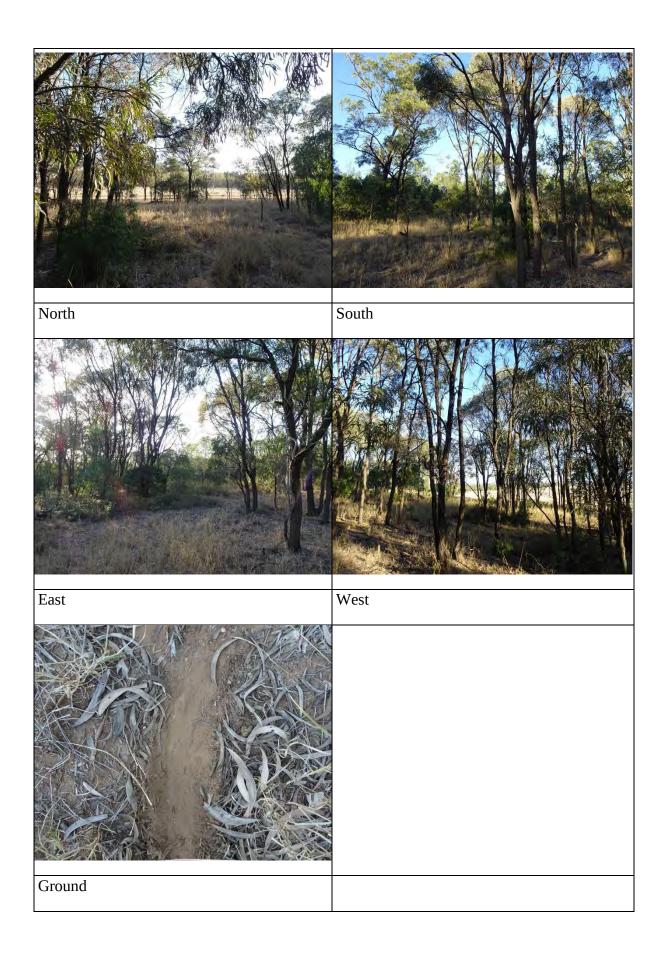
Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



#### A 3.3 Sheet D - Regional Ecosystem type assessment site

Purpose	u.	edirection to nearest	Strp	11em		Day/Date: 31/8/20	
GPS:	1,000	55		998	7	7150027 07	29
	ion strue	c <b>ture</b> DL is to be measur	red	Record		es (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – assoc	ciated.
Stratum	Median height	Height interval	Est. cover density (D.M.S.V)	Str.	Rel. dom.	Scientific Name	
E	Holgin	-		1,	n	Bazalon	
T1	9	8-9	M		-	(A)	i i i i i i i i i i i i i i i i i i i
T2		4		5,		Wikin	
Т3		12					
S1	2	15-3	3	52		Casissa	
S2	05	0.5 - 1	V				
G	0.5	0-3-06	D				
		: (including height)	Υ-	6	າ	3.Hol	
cologica	ally domina	nt layer:	)				
Seology (	landform	/ear:	Coved	40	%	betal bone jound	-
and syst	tem:					0	
.andform			***********************		romanana.		
Soils:	6.	ale sad	o cld				
ield obs	ervation an	d notes: 1	1.9.50- bri	salor respon	~ cldn	but only 25m w Landzone:	-id
	changes						

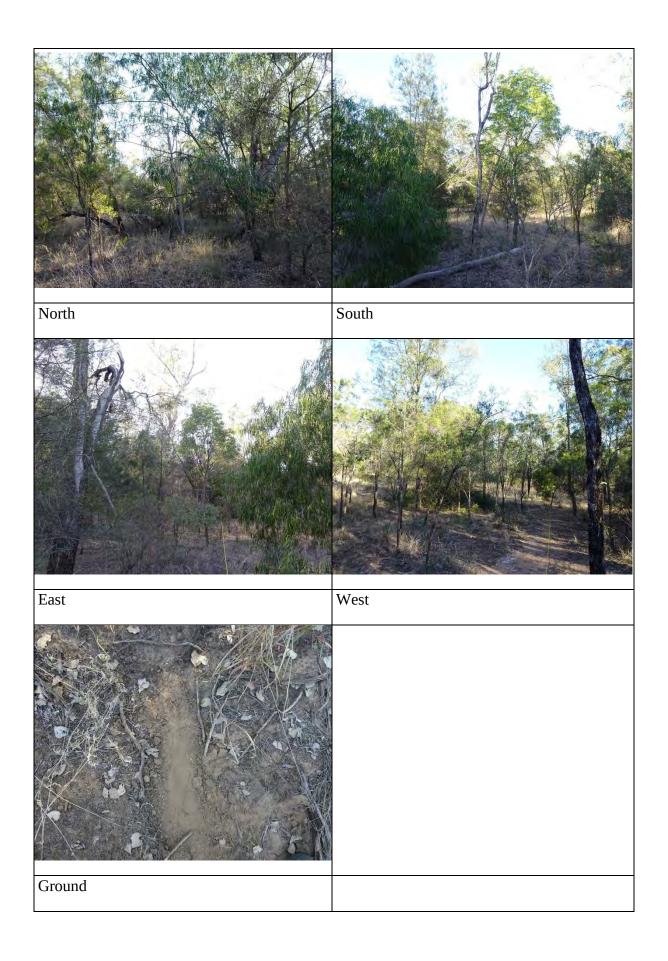
END



Site ID	51	1	Bioconditio	n Datasheet		2.1	milat.
	21	De	1) ()			Date	131/5/2
Observers		17	HA				
Site Information: 100x50m Area:	(	movie	$\sim$				
Location (GPS refere		D-11-			01	region 28	<del></del>
Datum	60A 94				ВІС	pregion 85	)
Zone	555	Easting	0699 41	62	Northing 3	14993	7 430
Plot origin	272	Trasting	069941	23	Horumg	110000	121
Plot centre			0649 5	30	-	149 363	731
Plot Bearing				ent Description		197 50)	1734
Locality	merfed	05 11.1	121/11.10	11.10x	but is proft	ast callities	
Regional Ecosystem	and Tree heigi	ht		20	· · · · · · · · · · · · · · · · · · ·	10-11	a kupi
Habitat Description	Oper V	voodlad	of poples	ento 19	or with	a with stand	consts of
Regional Ecosystem	m13	11.10.7	?	Median Tre	e canopy Height (m	) 14	
	Emergent he	eight (m)			Subcanopy ht (m	14	
Site Photos	Plot centre		1131	South	1132		
Photo Numbers	Plot Origin	East	1133	West	1135 - 4	iound	
Disturbance					100 x 50m Area:	Tree SPP. Richness	
Туре	mean fire scar height	severity	last event	obs type		Poplar	
Wildfire						ulga-	Tree Spp.
Prescribed burn						Endil:	
ogging				1	1	nerio heath	
Treatment	hearly	dstv	weed 1	ristorica	18 70	We hear.	
Grazing	Dagoi	rig			50 x 20m Area: Co	parse woody Debris	
lon-native plant cove	00-go1	6			Specimen length		
rosion	/				The state of the s	,,,,,,	site total m
legeneration	80%						26
torm							per ha (m)
ther (specify)							
0 x 10m Area		Native Plan	nt Species Ric	hness		Total	1.1.
hrub sp.	Erenel wilgo Carrist Alphi	toria	Atal Segna Pittosi	Datoms	pineseers	Total Cascovine About your Kydrak	Cristias
irass sp.	Buffe	achne	t vodusei	i ceun	Aristide Eregrestus chloris	conferration continue	
orbs/other sp.	chele	this !	Serber 1				

of for poset

			Biocondition	datasheet	cont.)			
0 x 10m Plots: Gr	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p				110000		10	5	
intermediate) gras			40	15		10	2	
Native non-preferr								
Native forbs and o				1122				
Native shrubs (< 1					5			
	ii neight)				-			
Non-native grass	and alternative						-	
Non-native forbs a	na snrubs		40	70	55	25	95	
litter			10	10	29		10	
rock			20	15	50	65		
bare ground			20	15	20	90		
Cryptograms			100	10.0	100	100	100	-
Total			100	100	100	100		-
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)		L.Com				
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
E. Populnea		8	130	75"				
E Populnea		E		59"				
Callitris		N		25.5"				
Callitris		N.		23"				
(allitia		N		26"				
Eucalypts	Avg DBH threshold		RE		Euc Benchm	No Dan Euc Benchm	ark	11.10
	No. Trees	V	No. Trees >	= Benchmai	rk/ha			
	Avg DBH							
Non-Eucalypts	threshold		RE		7	Euc Benchm	ark	
	No. Trees			= Benchma				
100m Transect: T	ree and Shrub	Canopy Cov	er	Canopy (C),	Subcanopy (	SC), Emerger		(S)
Distance (m)		Туре	Distance (m	1)	Туре	Distance (m	)	Туре
	popler	11 20	m 6					
10-7-13								
19-7-13	3 wilso	51 6						
19-2-3	3 wilso	51 6	2.5					
19-2-3 19-2-3 30-5-32 35-5-395	Las Co	51 6	2.5					
19-27 30-5-32 35-5-395 44-475	25 PH Eas Co	51 6 51 2 1 12 8	2.5					
9-7-13 19-27 30-3-32 35-5-395 44-44-5	25 Pitt Eas Co Follow	51 6 51 2 1 1 2 10 51 3	2·5 4·5 3·5 2					
9-7-13 14-27 31-3-32 35-5-395 44-44-5 50-52-51-5	200 At Cas Co Poplar wilga	51 6 51 2 11 12 10 51 3 61 45	2.5 4.5 3.5 2					
9-7-13 14-27 31-3-32 35-5-395 44-44-5 50-52-51-5	200 At Cas Co Poplar wilga	51 6 51 2 11 12 10 51 3 61 45	2.5 4.5 3.5 2					
19-27 30-2-32 35-3-39-5 44-47-5 56-57-56 57-3-56 62-42	20 pt Las (1) follow wilgo	51 6 51 2 1 12 8 12 10 51 3 61 45 52 15	2.5 4.5 3.5 2 1.5 0.5					
19-27 30-2-32 35-3-39-5 44-47-5 56-57-56 57-3-56 62-42	20 pt Las (1) follow wilgo	51 6 51 2 11 12 8 12 10 51 3 41 45 52 15 52 05	2.5 4.5 3.5 2 1.5 0.5			canopy tota		
19-2-32 19-2-32 30-3-32 35-3-395 44-475 56-575 57-5-54 63-72 64-665	20 PH Las (1 losled wilge chenu Eremon Caisso Tree has	51 6 51 2 11 12 10 51 3 61 45 52 15 52 05	2.5 4.5 3.5 2 (.5 0.5			canopy tota		
19-2-30-3-32-35-39-5 44-47-5-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-57-56-58	200 Color Co	51 6 51 2 1 1 2 10 51 3 41 45 52 15 52 05 51 5 72 0	2.5 4.5 3.5 2 1.5 6.5 9			subcanopy t	total	
19-2-30-3-31-3-31-3-31-3-31-3-31-3-31-3-31	25 Lilga 25 Pitt Tos Co follow hilga- che nur Eremel Cossor Tree has hinga- hinga- hinga- hinga-	51 6 51 2 1 1 2 10 51 3 41 45 52 15 52 55 51 51 51 51 51 51	2:5 4:5 3:5 2 (1:5 6:5 9 2:5			subcanopy to emergent to	total	
9-7-13 19-2 30-3-32 35-3-39-5 44-47-5 50-52-5 56-57-5 63-72-61-66-5 65-68-72-71-71-71-71-71-71-71-71-71-71-71-71-71-	25 Lilga Tes (c) follow hilga chilen Cassor Tree hose hilga milga milga milga milga milga milga milga	51 6 51 2 1 1 2 10 51 3 51 45 52 15 52 15 52 15 52 15 52 15 52 15 52 15	2:5 4:5 3:5 2 (1:5 0:5 9 2:5 3 4			subcanopy t	total	
19-2-32 19-2-32 30-3-39-5 44-44-5 50-52-56-54-5 57-5-54-66-68 41-46-5	25 Lilga Tes (c) follow hilga chilen Cassor Tree hose hilga milga milga milga milga milga milga milga	51 6 51 2 11 12 10 51 3 51 45 52 15 52 05 51 51 51	2:5 4:5 3:5 2 (1:5 6:5 9 2:5			subcanopy to emergent to	total	
9-7-13 19-2 30-5-395 44-475 50-52 56-575 575-59 63-42 64-665 65-68 72-725 75-93	25 bilga 25 bilga Eus (1 follor) hilga- cholonor Cassor Tree has hilga- hilga	51 6 51 2 11 12 10 51 3 51 45 52 15 52 05 51 51 51	25 4.5 3.5 2 (.5 0.5 9 2.5 3 4 0.5			subcanopy to emergent to	total	
19-2-30-3-31-39-5 19-2-30-3-39-5 44-47-5 50-57-5 50-57-5 63-72-66-68 72-72-5	25 bilga 25 bilga Eus (1 follor) hilga- cholonor Cassor Tree has hilga- hilga	51 6 51 2 1 1 2 10 51 3 51 45 52 15 52 15 52 15 52 15 52 15 52 15 52 15	2:5 4:5 3:5 2 (1:5 0:5 9 2:5 3 4			subcanopy to emergent to	total	
9-7-13 19-2 302-32 355-395 44-445 50-52 56-575 57-56 63-42 64-665 72-725 78-5-93	English  Los Co  Follow  Los Co  Follow  Los Co  Los C	51 6 51 2 1 1 2 10 51 3 51 45 52 15 52 15 51 52 52 15 51 52 52 15 53 15 54 45 54 45 54 15 54 15 55 15 57 15 58	25 4.5 3.5 7 1.5 0.5 2.5 2.5 4 0.5 17.5			subcanopy to emergent to	total	
9-7-13 19-2 310-2-32 35-3-395 44-445 50-52 56-545 575-59 63-42 64-665 65-68 72-725 75-93	Bulgar Tos Co follor hilgar delener Course Tree hor unlogar un	51 6 51 2 11 12 8 51 2 51 3 51 45 52 05 52 0	25 4.5 3.5 2 1.5 0.5 2.5 2.5 3 4 0.5 17.8			subcanopy to emergent to	total	

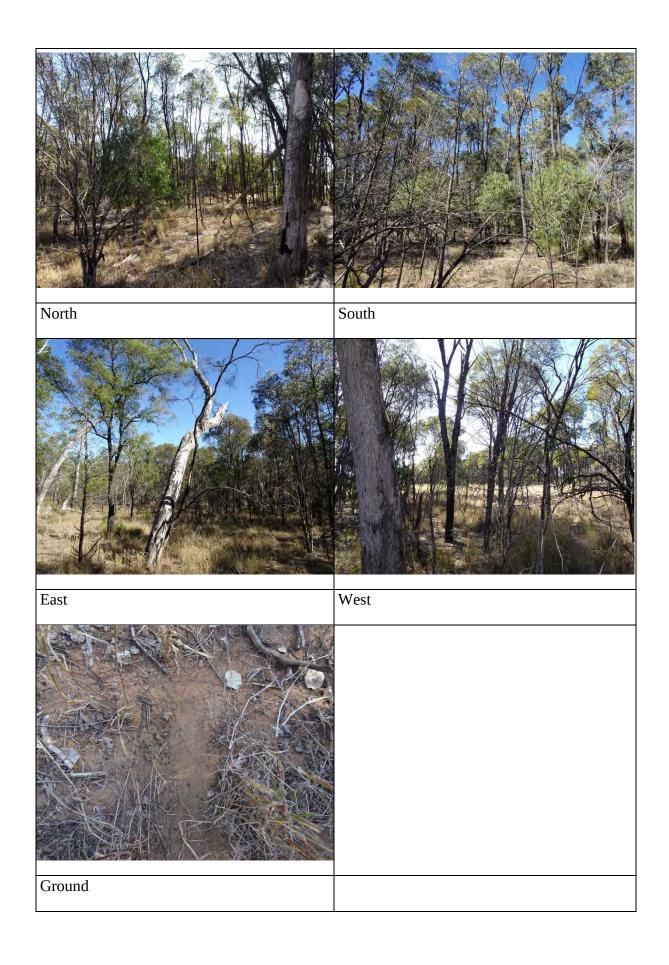


Biocondition Datasheet Site ID 13/8/20 52 Date 461 Observers Site Information: 100x50m Area: Location (GPS reference) Bioregion Datum Of Olympia Northing Olympia Northing Of Olympia Northing 734 Zone 7149813 Plot origin Plot centre Plot Bearing Locality Fortyten Regional Ecosystem and Tree height Brigalan Habitat Description Regional Ecosystem 111950 Median Tree canopy Height (m) 10 Subcanopy ht (m) Site Photos Plot centre North South hata Numbers East West Plot Origin Disturbance 100 x 50m Area: Tree SPP. Richness mean fire scar height Tree Species Brycow Type obs type Tree Spp. Count Wildfire Prescribed burn Logging Treatment Grazing 50 x 20m Area: Coarse woody Debris Specimen length (mm) Non-native plant cove Erosion Regeneration 20 Storm Other (specify) per ha (m) 50 x 10m Area Native Plant Species Richness uitzé Ataloni Enropt la dis/int Shrub sp. Ruffel Ancistrach me Corporlidium dishis Grass sp. Forbs/other sp. Dysplan Curination op. ton narrow strip se alignment but contiguous with large roce to soft

S=1142 E=1143 W=1144 G=1145

N=1141

10 x 10m Plots: G	round Cover			n datasheet				
Ground cover type	CHARLES THE RESERVE		1	2	3	4		Mear
Native perennial ( intermediate) gras	oreferred and		5				40	
Native non-prefer						3 30		
Native forbs and c			15				No.	1
Native shrubs (< 1	m height)							1
Non-native grass				32	10	30	18	
Non-native forbs	and shrubs							
litter			80	55	20	50	45	
rock					102			
bare ground				10	70	20	5	
Cryptograms								
Total			100	100	100	100	100	
100 x 50m Area: I	arge Trees	Plot size	100x50		100×20		100 x 10	
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH				
	Avg DBH threshold		RE		Euc Danel	n Euc Benchm	ark	
Eucalypts	No. Trees			= Benchmar		neuc Benchini	dik	
Non-Eucalypts	Avg DBH threshold No. Trees		RE	= Benchmar	Euc Benchn	n Euc Benchm	ark	
100m Transect: To	ree and Shrul	Canopy Co	ver	Canopy (C),	Subcanopy	(SC), Emerge	nt (E), Shru	b (S)
Distance (m)		Туре	Distance (m		Туре	Distance (m)		Туре
0-3	Bug	11 10W	3					
	1305	1 12	26					
11-37	Pop	1 10	7					
44-51	The state of the s	. 2	(					
60- 66	Pop	WE 13	0					-
62-66	Boo	130						
60- 66	Pop		31.5					
60-66	Boo	1,30						
60-66	Boo	1,30				canopy total		
60-66	Boo	1,30				canopy tota subcanopy t	otal	





Site N	A 1	ecorder: 25	HN			Day/Date:
Local	ity: (inc. distance	e/direction to nearest	town) Fens	VIE~		
GPS:		5	55040	081	6	7149321 D
Veget Median	ation strue	cture DL is to be measur	4	Record	speci	(s) Commander for each stratum; c – co-dominant; s – subdominant, a – as
Stratu	m Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name
E	000	20-22	<b>√</b>	11	1)	Calliting glangth
Т	1 7	6-114	D			Congarbia intel
T	2	-				AL CRETATO
T	3	-	ALTERNATION AND LABORATOR AND ADDRESS OF THE PARTY OF THE	5		Carissa lovator
s	1 0-7	0.5-1	V			Alphronia
s	2	_				rotur instanti
G	0-4	0.2 - 1	D	11		Petalostigna
Struct	ural formation	: (including height)		G		Echaraponen rules
10	lopen i	nocellad	20m			Panicur etusum
Ecolo	gically domina	ant layer:				Bittel
		3110				histide forcens
Geolo	gy, landfor	m, soils		TI		Grevillea strouto
Geolo	gy map/scale/	year:				
1	gy code and r	, and the same of				
Land	system:					
Landf	orm:	n	4			
Soils	. (	ale 511	to clay			
Field	observation ar	nd notes:	-ick regi	Stus	Co	Mitor
			dagentastenen kominkli yandiya dasa			Landzon
RE co	de change:	S				
	ng RE code:					
Propo	sed RE code:					

site 5]

## Vegetation Structure Site Inspection Sheet - Proforma

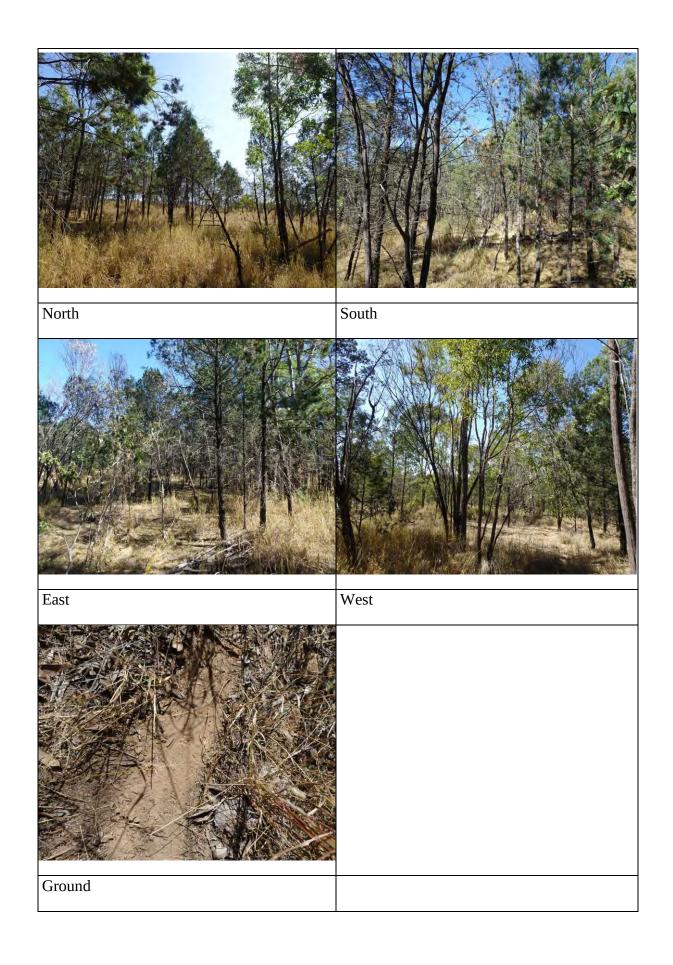
Transect - crown cover measured (transect intercept method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	I N I I I I

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercept	Str./height	
0 -5.5	5-5 m	11 7	
75.10.5	3 m	117	
13 - 77	54 m	T, 8	
87-100	13 m	T, 8	
-6	m		
-	m		I
-	m		I
÷	m		I
	m		ı
+	m		
	m		
- 1-	m		
÷ .	m		
	m		
D=1	m		
	m		
-	m		
	m		
14	m		
÷	m		

Summary:		
Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		
Intercept of EDL 50 -100m:		n
Measured crown cover % of EDL 0 -100m:		9
Structural formation		
Conclusions/notes:		



Regional Ecosystem Assessment – August 2012

#### A 3.3 Sheet D - Regional Ecosystem type assessment site

Median he	ion stru	cture	0,10	239 Plant	speci	7149 171 740		
Stratum	ight of the E	DL is to be measur	Est. cover	Record d – do	Rel.	e (numerical) dominance for each stratum; c – co-dominant; s - subdominant, a – associated.  Scientific Name		
-	height	interval	density (D,M,S,V)	1.	dom.	Popler		
E	IA.	6-12	5	114	1)	tolia		
T1	10							
T2 T3				51	D	uitza onen		
S1	4	3 -5	5	1		Botto Seedly , Atom		
S2	1	1 -15	V			Frenon la defin		
G	0.3	02-0.5	VΛ	42	T	Carisse Glade		
Structura	al formation	: (including height)		acodomo		Ema atersioids		
No copy of	wood	ad to	10m	6	P	Biltel		
Ecologic	ally domin	ant layer:				Dichathum serverin		
Geology		year: ock types:	to sed			Landzone:		
Field ob								
STREET, STREET	e change	s						
RE cod	e change	S				and the second s		

# Side 54 Vegetation Structure Site Inspection Sheet - Proforma

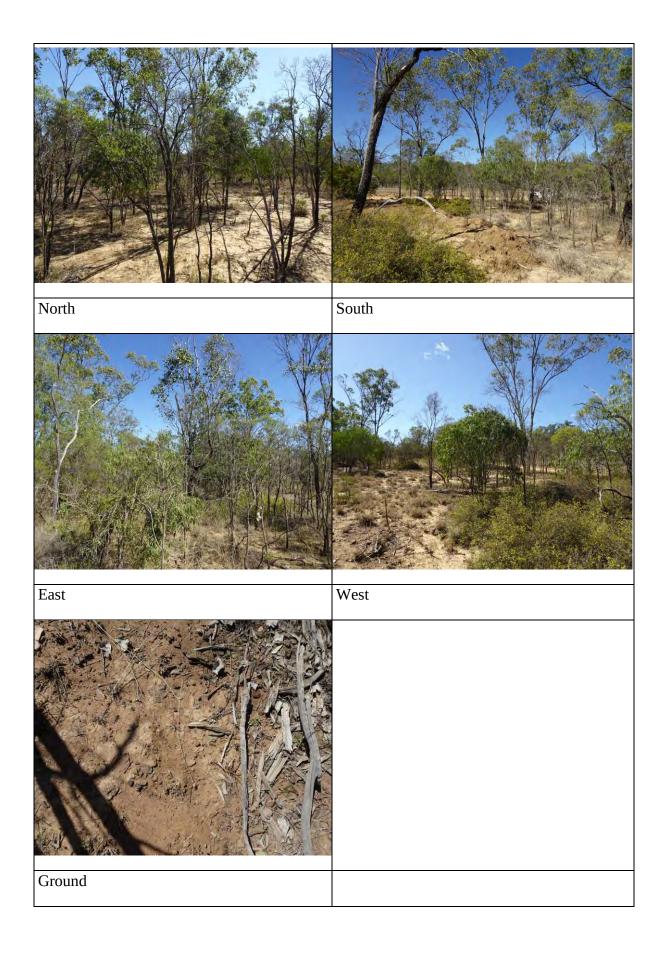
Transect - crown cover measured	(transect intercent method)
---------------------------------	-----------------------------

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

All heights in the "Str./height" column are to be measured

Interval (metres)	Intercep	ot	Str./	height
21 - 26	5	m	31	3
28.29	2	m	52	0.5
36.5 - 47	6.5	m	51	8
37 -47	10	m	51	3
50.51	1	m	51	2.5
51-58	7	m	TI	10
55 -60	5'	m	51	3
64-69	5	m	ti	12
708 - 745	4	m	11	10
81.5 -86	45	m	51	4
83 - 97	141	m	TI	13
92-94	2	m	51	2.1
99-100	1	m	52	0.5
-		m		
*		m		
		m		
-		m		
		m		
U= 1		m		
-		m		

Minimum height of plants included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		m
Measured crown cover % of EDL 0 -100m:		%
Structural formation		
Conclusions/notes:		



√egetat	ion stru	cture DL is to be measur		Plant	speci	ies
Median he Stratum	Median height	DL is to be measur  Height  interval	Est. cover density (D,M,S,V)			(numerical) dominance for each stratu c – co-dominant; s - subdominant, a – Scientific Name
E	12	10 -141	5	1	1)	Poplar
T1 /	/	-				Melamphoin lo
T2		-				
Т3		_				
S1	4	2 - 6	Μ	51		Enophile disput
S2	1	1 - 15	M			onen Ataly
G	6.4	62-05	M	52		Casisse ovate
		: (including height)	)	6		Bilel
	ally domina				ereck riverses	delais truncato
	, landfori				)+-(	Abutilon organism des
	code and re	ock types:				
Land sys	_					
Soils:	***********	run	clark	5011	000	peck
	servation ar		U			
	200	3111111				

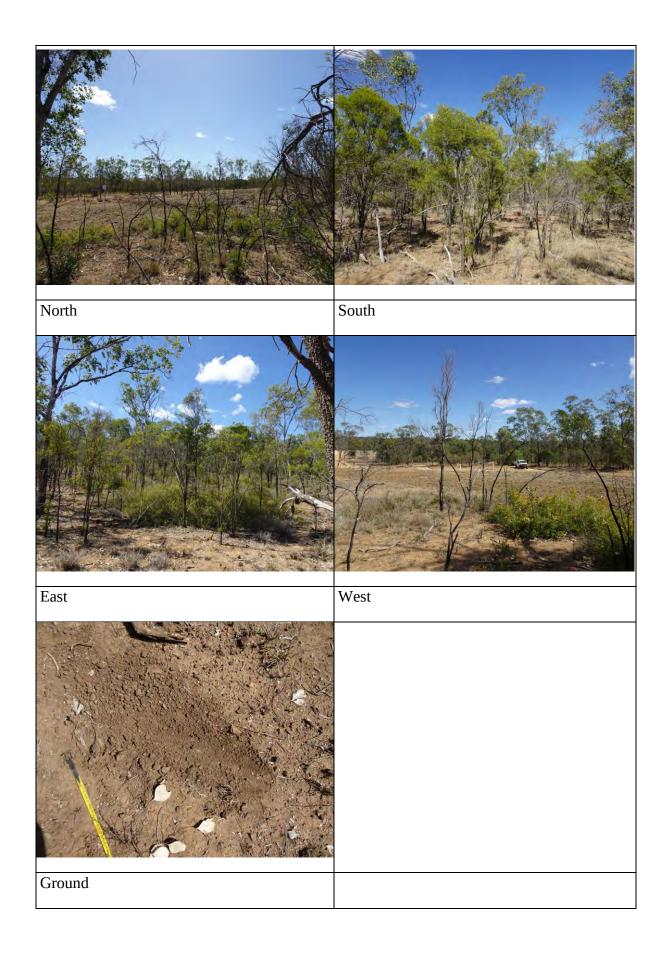
# Vegetation Structure Site Inspection Sheet - Proforma

Transect - crown cover measured	(transact interest
	(udriseci intercent method)

GPS coordinates:	Datum:	Transect length:
Start point	Zone 5 E 0	N
End point	Zone 5 E 0	N

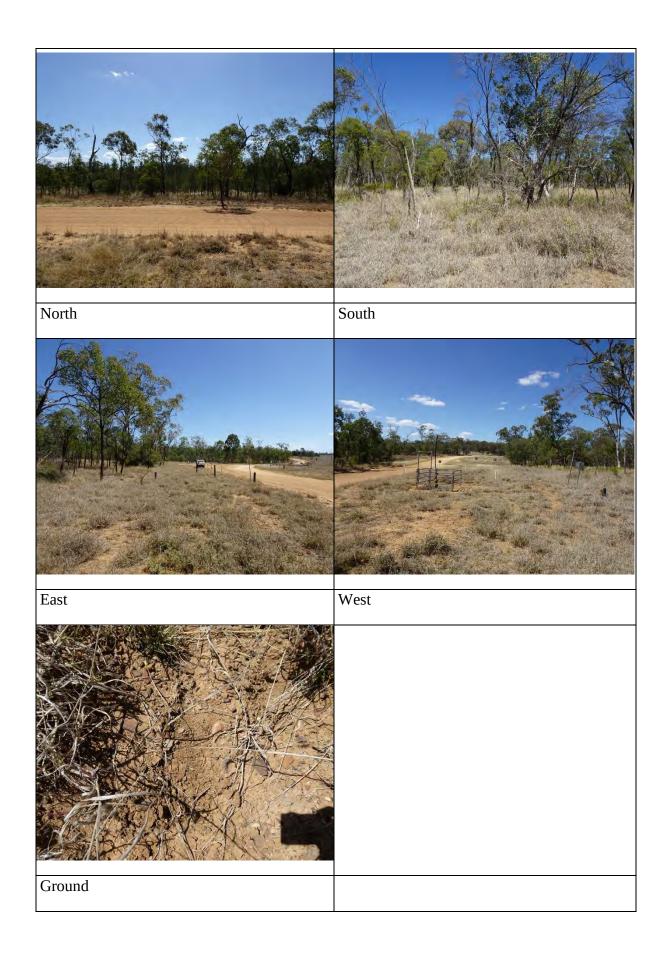
Interval (metres)	Intercept	Str./heigh		
10 - 21	() m	A Total Control		
11 -17	6 m	11 10		
25 - 30	3 m	51 4		
69 -60	9 m	52 1		
695 - 745	5 m	52 1		
96 - 100	14 m	52 1		
90 - 94	u/ m	11 17		
	m			
	m			
-	m			
-	m			
-	m			
	m			
	m			
	m			
	m			
-	m			
	m			
-	m			
	m			

Summary: Minimum height of plants		
included in the transect table:	m	
Intercept of EDL 0 - 50m:		m
Intercept of EDL 50 -100m:		
Measured crown cover % of EDL 0 -100m:		m %
Structural formation		
Conclusions/notes;		



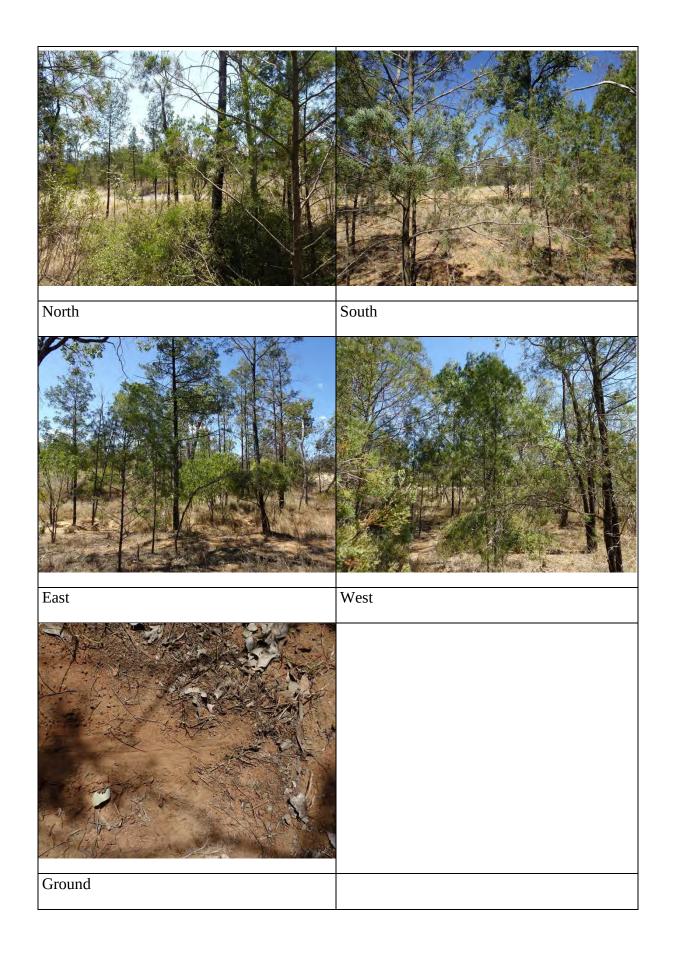
Purpose		direction to near	estrown) Famo	New			
GPS:			71.214	004	2	1149485	D
Vegetat Median hei	ion struc	<b>ture</b> )L is to be meas	ured	Record	t speci	ies (numerical) dominance for each stra c – co-dominant; s - subdominant, a	atum;
Stratum	Median height	Height interval	Est. cover density (D.M,S,V)	Str.	Rel. dom.	Scientific Name	- ass
E		-				Bittel 280	5%
T1	2	.) - /			and O based on	15ere siound	15
T2	9	- 67				Selevelor non lon	des
Т3		LW			1100000		***************************************
S1		-					
S2		_					*********
G	0.5	0.3-016	D				
		including heigh			d-10) to statements	The second secon	**********
Ecologica	lly dominant	layer: (	5		PRESCRIPTION	***************************************	
Geology m Geology co Land syste Landform: Soils:		ar: k types:					
****************	WATER TO THE STREET		********************************	ria communica		Landz	one:
E code c	hanges					(	
	code:	1	& Ex15/-		Pope	line	
	code:	1	1 6 3 131		Y		

Page 23 of 26



	Median he	tion stru eight of the E	cture EDL is to be measu	red	Record	speci relative ominant,	(numerical) dominance for each strate c – co-dominant; s - subdominant, a -
69	Stratum	Median height	Height interval	Est. cover density (D.M.S.V)	Str.	Rel. dom.	Scientific Name
	E		-		1	D	Peller
10	T1	16	14 -18	3	-		melasophie
	T2	10 8	B -12	5	12		Callifris glassep
	тз		-		1		
-	S1	4	2.5	3	51		mye A
3	S2	1	1 -1.5	V			colletis,
	G	0.6	0.5-0-8	rt			Grenephan dos,
		of formation	: (including height)		52		Carissa ovata
	Ecologica	ally domina	nt layer:		6		Buffel
	Geology of Land syst Landform Soils:	map/scale/y code and ro em:	rear:	75.4	Bare	5	Porcen ettisum Cymbogogan refu 198 1040 40%
	Field obse	ervation an	d notes:	Smel	to	100	al d remn.

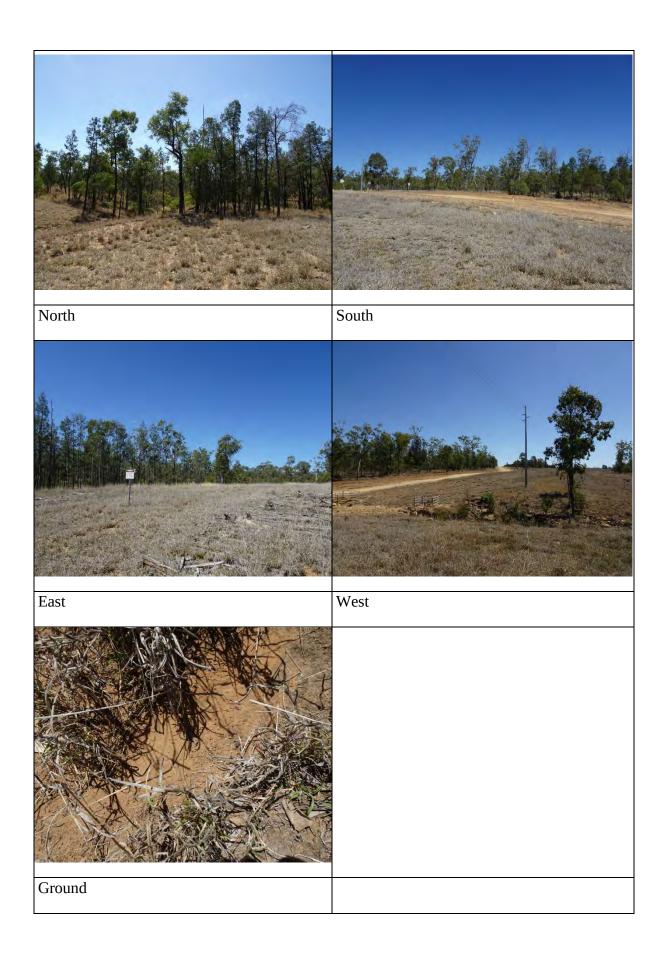
Page 23 of 26



	Site No. S	6000		con wor	1A		Day/Date: 31/4/24	D 745
	Locality:	(inc. distance/d	rection to nearest t		7 9 6		7149619	
	Vegetat Median he	ion struct	t <b>ure</b> L is to be measu	red	Plant Record d - do	minant;	- co-dominant; s - subdominant, a	tum; - associated.
2 117	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientific Name	and the second
1 11	5 E					and some	Not eropasan	=totus
5 11	/ 11		(ove		1	-	Delanthur Su	rkew
C 117	6 T2	1	)	and from the second second second	1	1-	Annual Control of the	***********
1 1 11	1 T3	M	-	nery to be the two that from the little or probe				
W 11-	S1		And the second s					
G 11	78 s	0.21	0.20	6 D				area and a second and a second as
	G			-641			La republica de la recultant de la constituta de la republica de la reculta de la recu	
		cural formation	n: (including heigh	empat				***********************
		gically domi		6			The state of the s	
	20010							
	Geole	ogy, landfo	orm, soils		. 0	1.9	C-100/	
	Geol	ogy map/sca	le/year:	13401	7	0/6	rand 10%	
	Geol	logy code and	i rock types:	The state and a transfer of principles	1)5	ve 1	10010	
	Land	d system:						************
	Lane	dform:	endendra lea process equilibrium	***************************************			A	
	200	ils:	and water:	Pal	INE	00	mider No	Core
	Fiel	d observation	and notes.					andzone:

END

Proposed RE code:



Site ID	19	1	Biocondition	n Datasheet		Date	21/8/
Observers	@ 75°	1	12				011
Site Information:	( I	0 = 1 = 6	ligetier	Golfie	tor		
100x50m Area:	tentri	en 16	119010				1
Location (GPS refere	ence)				Bioregio	n 135	31
Datum	6089	4					
Zone	555	Easting	0699 9	135	Northing 7149	668	74.6
Plot origin			0699	795	नाय ।		
Plot centre			06997	60	714 9	434	748
Plot Bearing				ent Description	n		
Locality							
Regional Ecosystem	and Tree heigh	nt ol	1	12/1			
Regional Ecosystem Habitat Description	aller 1	Mossila	d of	popios	to 14 m		
Regional Ecosystem			T	Median Tre	e canopy Height (m)	121	
	Emergent he	ight (m)	1	7	Subcanopy ht (m)	6	
Site Photos	Plot centre	North		South		1	
Photo Numbers		East		West			
	Plot Origin			other			
Disturbance					100 x 50m Area: Tree	SPP. Richness	
	mean fire				75 00	en	
Туре	scar height	severity	last event	obs type	Tree Species		
MODEL -					Gome	plic	Tree Spp.
Wildfire					inte	sphile:  yhlici  yhlic	Count
Prescribed burn	7	1			1	Thea Hik	ti
Prescribed burn	100000000000000000000000000000000000000			1	Great	,	Latin
Logging				-	Casa	auto ci	
2088118					psyd	(cox	
Treatment	1						
Grazing	1	1		1000	50 x 20m Area: Coarse	woody Debris	
Non-native plant co	ver 306	150%			Specimen length (mm	Committee and the	
Erosion				9			site total
Regeneration	60%						47.5
Storm	1						per ha (m
Other (specify)							
50 x 10m Area		Native Plan	nt Species Ri	chness		Total	
Shrub sp.	Eremol	Wa a	tes/init				
	Dochar	neer	nt Species Ri				
	Ca-1450	- ovada	(E-3) Y				
	Car in						
Grass sp.	Acistide	- caly	no				
	121/	1	në Yene-in				
	OI	thim	yerre-m				
	Micha	JU V	44				
Forbs/other sp.	1	on on	-				
orus/ourier sp.	100 1	300	100				
	Glandel	liger a	wio,				
	alastel	on on	capin				
	Awon	0					

			- 1	Biocondition	datashee	et (cont.)					
.0 x 10m Plots: Gro	und Cover					-1	-		- 18400-		
Ground cover type				1		2	3		5 Mean		
Native perennial (p	referred and			25		25	25	40			
ntermediate) grass				~2	1	7.3		10	-		
tive non-preferred grass					-	100	-				
tive forbs and other species		5	10	1	5	10	-				
tive shrubs (< 1m height)							-				
Non-native grass									-		
Non-native forbs ar	nd shrubs				100						
itter				55	65	5	40	40			
rock											
bare ground				15	15	70	30	20			
Cryptograms					1						
Total				100	100	100	100	100			
100 x 50m Area: La	rge Trees	Plot siz	ze	100x 50		100x 20		100 x 10			
Species		Euc (E Non-E (N)		Diam (cm)	рвн						
Be Populnea		F			90"						
Populnea		E			53"						
Populnea		E									
Populnea		E			42"						
Popular		E			41-5"						
	Avg DBH threshold			RE		Fuc Rench	om Fuc Benc	hmark			
Eucalypts		-			Euc Benchm Euc Benchn = Benchmark/ha			IIIIIark	IIII		
	No. Trees			No. Trees >	- benunr	nai N/ 11d		_			
Nine Frankrik	Avg DBH			RE	Euc Benchm Euc Benchmark						
Non-Eucalypts	threshold		-	No. Trees >	= Bonch		in Luc Denc	innuik			
100 - T	No. Trees	Corre				(C), Subcanop	(ISC) Emor	gent (F) Shru	h (S)		
100m Transect: Tr	ee and Shrub	_	y cove			Type	Distance		Туре		
Distance (m)	102	Type	1-	Distance (m	1	туре	Distance	(111)	1 4 10 0		
5.5 -14	8.5	11	20,0	-	1		-				
KL-18,5	05	SI		Dadance					+		
23-29	6	TI	22	Poller callitis	1	+	-		-		
29-295	0.5	1/2	3		-		-		1		
34.5 - 40	35	12	7	milgo	-				-		
44-48	4	12	3	Wilgo	-				+		
40- 53	3	TI	10	loglai	,		-	-	-		
62-62.5	05	51	3	Dodone	4				-		
65.5-665	1	51 Ti	1	Dederson					-		
	6	71	14				canopy t				
64- 74			43	1 - 01	1		subcano	py total			
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