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ATTACHMENT A
PEER REVIEW LETTER (DR COLIN DRISCOLL)



Clean TeQ Holdings Limited 12/21 Howleys Rd, Notting Hill, Vic 3168

21 December 2017

Attn: John Hanrahan

Dear John

Clean TeQ Sunrise Project Accommodation Camp Modification - BDAR Review

Clean TeQ has asked me to review the Biodiversity Development Assessment Report (BDAR) developed for the Sunrise Project Accommodation Camp Modification by Resource Strategies Pty Ltd. This letter briefly outlines the outcomes of my review.

I am an Accredited Biodiversity Assessor (BAAS17004) and have a detailed understanding of the requirements of the NSW *Biodiversity Conservation Act, 2016* (BC Act) and the *Biodiversity Assessment Method Order, 2017* (BAM). I have also conducted floristic surveys in the Fifield area.

In reviewing the Sunrise Project Accommodation Camp Modification Project BDAR, I aimed to ensure that it met the BAM and Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) guidelines requirements.

Overall I found the Sunrise Project Accommodation Camp Modification Project BDAR to be consistent with the field data collection and reporting requirements of the BAM. Specifically some corrections and clarification suggestions were made and these have been incorporated to my satisfaction. I consider that the BDAR meets the requirements of the BAM and EPBC Act guidelines.

Yours Sincerely HUNTER ECO

Dr Colin Driscoll

Environmental Biologist

Colin Driscoll

Clean TeQ Sunrise Project Accommodation Camp Modification - Biodiversity Development Assessment Report
ATTACHMENT B
CLEAN TEQ SUNRISE PROJECT ACCOMMODATION CAMP - ECOLOGICAL
SURVEYS REPORT (AMBS, 2017a)



# Clean TeQ Sunrise Project Accommodation Camp Modification Ecological Surveys



**Final Report** 

December 2017

AMBS Reference: 17459

# **Document Information**

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## **Executive Summary**

AMBS Ecology & Heritage Pty Ltd (AMBS) was commissioned by Clean TeQ Holdings Limited to undertake a baseline flora and fauna survey in an area encompassing a proposed accommodation camp associated with the Clean TeQ Sunrise Project, an approved nickel cobalt scandium mining project. The area of investigation is approximately 4 kilometres (km) to the south of the mine site on the Sunrise property, located northwest of the town of Fifield, adjacent to Sunrise Lane and west of Wilmatha Road.

Flora and fauna surveys were undertaken in Spring 2017. The vegetation of the study area and its condition were surveyed using vegetation integrity (site condition) plots, additional full floristic plots, rapid assessment plots and paddock tree identification. The surveys included targeted surveys for specific threatened flora and fauna species listed under the NSW *Biodiversity Conservation Act, 2016* (BC Act) and Commonwealth *Environmental Protection and Biodiversity Conservation Act, 1999* (EPBC Act) and habitat assessments.

Although large portions of the study area have recently been cropped, AMBS surveys and analysis of data established that the species present in the ground layer were predominately native herbs, grasses and shrubs (89 of 120 plant species recorded were native). Exotic species were present, but the majority of the vegetation cover in the ground layer was provided by native species.

Two plant community types (PCT), in varying condition, were recorded in the study area:

- PCT 217 Mugga Ironbark Western Grey Box cypress pine tall woodland on footslopes of low hills in the NSW South Western Slopes Bioregion; and
- PCT 82 Western Grey Box-Poplar Box-White Cypress Pine tall woodland on red loams mainly of the eastern Cobar Peneplain Bioregion.

PCT 217 covered most of the study area and was generally found in a derived native grassland form with scattered remnant trees and shrubs. In all locations the vegetation had been grazed and in parts of the area cropped as well.

PCT 82 was located in a low-lying area west of the Development Site Footprint and conforms to a derived grassland form of an endangered ecological community listed under the BC Act and EPBC Act. This area was likely to have formerly been dominated or co-dominated by Grey Box (Eucalyptus microcarpa).

One threatened plant species listed under the BC Act and EPBC Act, *Tylophora linearis*, was found at four locations in vegetation along Sunrise Lane, outside of the Development Site Footprint.

The fauna surveys recorded one species listed as 'Vulnerable' under the BC Act; the Greycrowned Babbler (*Pomatostomus temporalis*). No evidence of Glossy Black-Cockatoo (*Calyptorhynchus lathami*), Koala (*Phascolarctus cinereus*), Little Eagle (*Hieraaetus morphnoides*) or Square-tailed Kite (*Lophoictinia isura*) was recorded. A number of trees with hollows suitable for threatened fauna were found along a creekline in the center of the study area.

### 1 Introduction

### 1.1 Background

AMBS Ecology & Heritage Pty Ltd (AMBS) undertook a baseline flora and fauna survey in an area encompassing a proposed accommodation camp associated with the Clean TeQ Sunrise Project, an approved nickel cobalt scandium mining project. The area of investigation (the "study area") is shown in Figure 1. It is approximately 191 hectares (ha) in size and located northwest of the town of Fifield, New South Wales (NSW), adjacent to Sunrise Lane, south of the Mining Lease Application Boundary and west of Wilmatha Road.

Clean TeQ Holdings Limited (Clean TeQ) are seeking a modification to the Clean TeQ Sunrise Project under section 75W of the NSW *Environmental Planning and Assessment Act, 1979* for the proposed accommodation camp (herein referred to as the Modification). The Modification would include:

- development of the accommodation camp (including supporting infrastructure);
- construction of an electricity transmission line (ETL) and water pipeline from the mine site to the modified accommodation camp site;
- minor road upgrades;
- increased accommodation camp capacity (approximately 1,300 personnel); and
- the accommodation camp (at reduced capacity) would be maintained post-construction rather than be decommissioned.

The Development Site Footprint encompasses (Figure 1):

- accommodation camp, including:
  - accommodation facilities;
  - administration offices and first aid facility;
  - recreational and mess areas;
  - fire-fighting infrastructure (e.g. fire water tank and reticulation system);
  - water supply infrastructure (e.g. water treatment plant, storage tanks, distribution system);
  - internal access roads;
  - car parking areas;
  - communications infrastructure; and
  - other ancillary infrastructure.
- accommodation camp electricity transmission line (between the mine site and the accommodation camp);
- accommodation camp water pipeline (between the mine site and the accommodation camp);
- sewage pump station and related infrastructure;
- site access road from Sunrise Lane; and
- construction (laydown) areas.

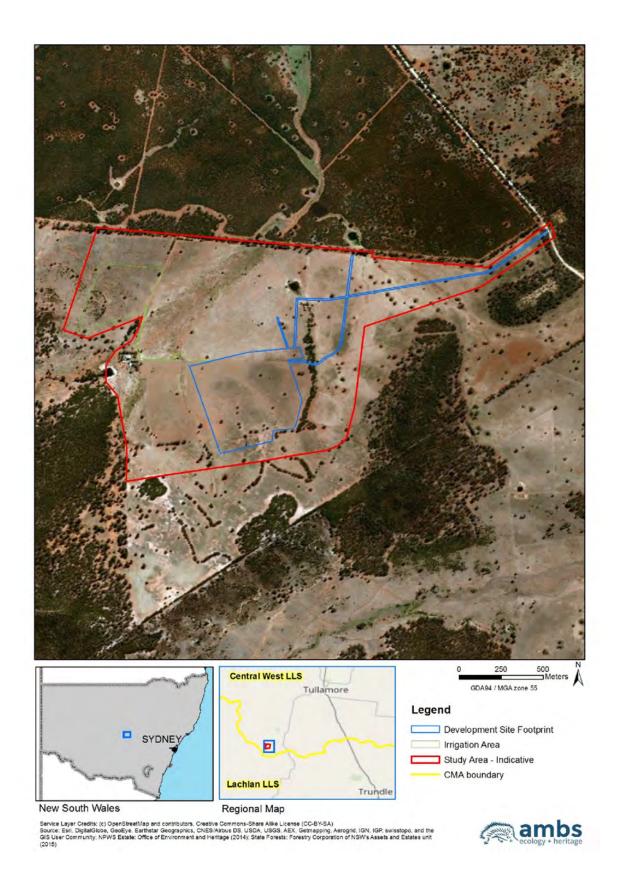


Figure 1: Study area.

The Modification also includes an irrigation area and irrigation water pipeline (Figure 1). Clean TeQ have indicated that use of the irrigation area will not require native vegetation clearance and that the pipeline would be laid on the ground beside an existing track.

The minor road upgrades would be within the extent of the existing road footprint of Sunrise Lane. Clean TeQ propose no native vegetation clearance for the minor road upgrades.

The Sunrise Property is owned by Clean TeQ and leased for agricultural activities, such as grazing and dryland cropping. Agricultural activities would continue to occur on the Sunrise Property outside the accommodation camp area.

### 1.2 Scope

The scope of work involved collection of ecological survey data in accordance with the *Biodiversity Assessment Method Order, 2017* (BAM) (NSW Office of Environment and Heritage [OEH] 2017a), specifically:

- 1. provision of a vegetation map identifying Plant Community Types (PCTs) and condition;
- 2. collection of vegetation integrity (site condition) data according to the BAM (2017a); and
- 3. targeted surveys for relevant species credit species, including those listed under the NSW Biodiversity Conservation Act, 2016 (BC Act) and Commonwealth Environmental Protection and Biodiversity Conservation Act, 1999 (EPBC Act).

Mark Semeniuk (AMBS co-author) is an accredited assessor under the BC Act (assessor accreditation number BAAS17072).

### 2 Methods

### 2.1 Survey Details

An initial vegetation survey was undertaken between 31 October 2017 and 1 November 2017 (inclusive) by James Schlunke, Daniel Clark and Ruby Stephens which included preliminary vegetation mapping, vegetation integrity (site condition) plots, additional full floristic plots, rapid assessment plots, paddock tree identification and threatened plant species searches.

A second field survey was undertaken between 27 November 2017 and 29 November 2017 (inclusive) by ecologists James Schlunke and Tom O'Sullivan. The second field survey included additional vegetation integrity (site condition) plots, threatened plant species searches and targeted fauna and fauna habitat surveys.

### 2.2 Plant community type and condition identification and mapping

The PCTs in the study area were identified and their distribution mapped. PCT naming was consistent with the NSW PCT classifications as described in the *BioNet Vegetation Classification* (OEH 2017b).

### 2.2.1 Review of existing information on native vegetation

The following information sources were reviewed:

- species records held in the BioNet Atlas (OEH 2017c);
- existing vegetation maps (OEH 2016a);
- previous native vegetation surveys for the Clean TeQ Sunrise Project (AMBS 2017); and
- aerial imagery (Department of Finance, Services & Innovation 2017).

### 2.2.2 Systematic field-based floristic vegetation survey

The vegetation of the study area and its condition were surveyed using vegetation integrity (site condition) plots, additional full floristic plots, rapid assessment plots and paddock tree identification. These methods are described below.

### Vegetation integrity (site condition) plots

Data were collected from nine vegetation integrity (site condition) plots (SB 01 to SB 09) in a manner consistent with the field survey requirements specified by the BAM (2017a) (Figure 2). A proforma was used to record data at each vegetation integrity (site condition) plot.

Vegetation zones were based on PCT and condition. Data were collected on ground layer characteristics, weed species richness and disturbance, to gauge the condition of the vegetation within the study area.

Plots were randomly located in each vegetation zone. The zones and number of plots in each are shown in Table 1.

The Development Site Footprint covers approximately 27 ha of previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217) (Figure 2). Accordingly, four vegetation integrity (site condition) plots (SB 01, 02, 05 and 09) were undertaken in this vegetation zone to meet the minimum number of plots required in the BAM (2017a) (Table 1).

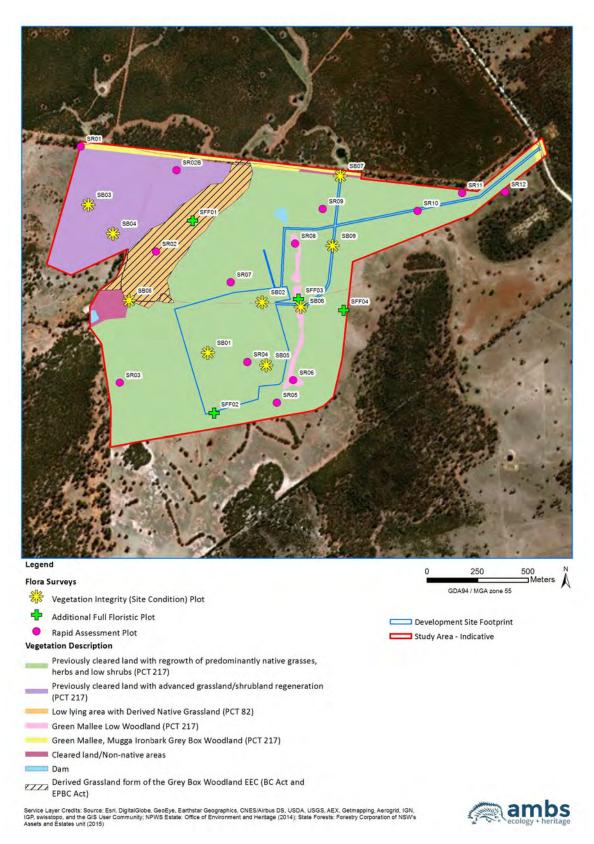


Figure 2: Flora plot locations.

An additional five vegetation integrity (site condition) plots were undertaken in other vegetation zones (Table 1; Figure 2).

Table 1: Number of vegetation integrity (site condition) plots required for each vegetation zone within the Development Site Footprint.

Vegetation Zone	Development Site Footprint Area (ha)	Plots required	Number of Plots
Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217)	27	4	4
Previously cleared land with advanced grassland/shrubland regeneration (PCT 217)	0	0	2
Green Mallee, Mugga Ironbark, Grey Box Woodland (PCT 217)	0	0	1
Low lying area with Derived Native Grassland (PCT 82)	0	0	1
Green Mallee Low Woodland (PCT 217)	0	0	1
Total	27	4	9

### Additional floristic plots

The survey included collection of data from four 20 metres (m) x 20 m "full floristic" plots to inform vegetation mapping (SFF 01 to SFF 02) (Figure 2). Data were collected on ground layer characteristics, weed species richness and disturbance, to gauge the condition of the vegetation within the study area.

### Rapid assessment plots

The survey included collection of data from thirteen "rapid assessment" plots (SR 01, SR 02, SR 02B and SR 03 to SR 12) (Figure 2).

#### Scattered tree identification

The location of scattered trees within the study area was identified using aerial imagery. Each location was visited, the species of tree recorded, and observations made on the composition of the ground layer beneath each tree. The survey included collection of data from a total of 165 scattered trees to inform vegetation mapping.

### 2.2.3 Survey effort

The survey effort described above is considered sufficient to sample the area commensurate with the expected environmental variation. The study area was stratified into preliminary environmental map units after reviewing existing information including vegetation maps, topographic maps and aerial imagery. The preliminary environmental units were refined after a preliminary survey of the study area. Plot-based sampling was undertaken in all relevant map units. The survey effort revised and updated existing mapping and site information as necessary.

### 2.3 Threatened ecological community identification and mapping

Interpretation of EPBC Act listing criteria and BC Act final determination criteria were used to determine if vegetation within the study area conformed to a Threatened Ecological Community (TEC). Determination of patches of vegetation that conformed to these criteria was based on interpretation of information from desktop assessment and field surveys, including soils, topography, patch size (ha), characteristic species, proximity to identified stands of the relevant TEC, degree of past disturbance, indications of past canopy using isolated canopy trees, and dead identifiable canopy trees or regenerating canopy species.

### 2.4 Threatened Plant Species Searches

A list of potential threatened plant species was determined (Appendix C) which included *Austrostipa wakoolica* and *Commersonia procumbens* as required by the BAM Credit Calculator (OEH, 2017g) assessment (Resource Strategies, 2017).

Targeted searches for threatened plant species were undertaken in accordance with the NSW *Guide to Surveying Threatened Plants* (OEH 2016b) in areas of potential habitat. Potential habitat was defined using data collected from plots, aerial imagery, any existing plant community mapping (OEH 2016a) and topographic features. Opportunistic searches for threatened plants were also undertaken during all plot-based surveys and while traversing the site. If a threatened plant species was found, the location and number (or estimate of number) was recorded.

The surveys included searches of suitable habitat for *Tylophora linearis*, *Lepidium monoplocoides* (Winged Peppercress) and *Austrostipa wakoolica*, listed species known to be located in the wider area (AMBS 2017). Surveys for threatened plants were undertaken in October over a period of two days and in November over a period of three days.

### 2.5 Threatened Fauna Surveys

Targeted surveys for identified threatened fauna and habitat assessments were undertaken on 28 and 29 November 2017 by James Schlunke and Tom O'Sullivan. Details of survey techniques are provided below; survey locations of threatened fauna survey techniques are presented in Figure 3.

The survey methods were tailored to the threatened species required to be targeted according to the BAM Credit Calculator (OEH, 2017g) assessment (Resource Strategies, 2017).

Outside of the dedicated fauna surveys, observations of threatened fauna were recorded incidentally whenever on site. Appendix D provides a list of potential threatened fauna species.

### 2.5.1 Weather during survey period

An overnight storm on the first day of surveys caused run-off throughout the survey area. The conditions during the surveys days were dry with clear conditions on 28 November and overcast skies on 29 November. Minimum daily temperatures lay around 20 °C and temperatures during the day reached around 32 °C. Weather conditions during the survey period as reported from Condobolin Research Station (Bureau of Meteorology [BOM] 2017) are displayed in Table 2.

Table 2: Weather conditions during survey period (Condobolin Research Station) (BOM 2017).

Date	Temp Min [C]	Temp Max [C]	Rain [mm]
28/11/2017	16.0	32.4	47.8
29/11/2017	20.4	31.8	-

mm = millimetres.

### 2.5.2 Survey of Threatened Fauna Habitat Constraints

Habitat constraints are identified in the *Threatened Biodiversity Data Collection* (OEH 2017b) for some potentially occurring threatened fauna (Table 3). A survey of the habitat constraints was undertaken as outlined in Table 3 and described further below.

Table 3: Survey of Threatened Fauna Habitat Constraints and Survey Method.

Scientific Name	Common Name	Habitat Constraints identified in the Threatened Biodiversity Data Collection (OEH 2017a)	Field Assessment of Habitat Constraints/Survey Method
Lophoictinia isura	Square-tailed Kite	Nest trees	Tree census and searches for stick nests
Hieraaetus morphnoides	Little Eagle	Nest trees - live (occasionally dead) large old trees within vegetation.	Tree census and searches for stick nests
Calyptorhynchus lathami	Glossy Black- Cockatoo	Living or dead tree with hollows greater than 15cm diameter and greater than 5m above ground.	Tree hollow assessment
Lophochroa Ieadbeateri	Major Mitchell's Cockatoo	Living or dead tree with hollows greater than 10cm diameter	Tree hollow assessment
Burhinus grallarius	Bush Stone- curlew	Fallen/standing dead timber including logs	Search for suitable fallen/standing dead timber
Polytelis swainsonii	Superb Parrot	Living or dead E. blakelyi, E. melliodora, E. albens, E. camaldulensis, E. microcarpa and E. polyanthemos with hollows greater than 5cm diameter; greater than 4m above ground or trees with a DBH of greater than 30cm.	Tree hollow assessment
Ninox connivens	Barking Owl	Living or dead trees with hollows greater than 20 cm diameter and greater than 4m above the ground.	Tree hollow assessment
Tyto novaehollandiae	Masked Owl	Living or dead trees with hollows greater than 20cm diameter.	Tree hollow assessment
Phascogale tapoatafa	Brush-tailed Phascogale	Hollow bearing trees	Tree hollow assessment

#### Tree census

Scattered trees within the study area were assessed for features such as presence of hollows. A total of 165 trees were checked (Section 2.2.1).

### Tree hollow assessment

Hollow-bearing trees located within the Development Site Footprint were assessed in more detail and data were collected on tree hollow sizes, numbers, heights; tree species, height, Diameter at breast Height (DBH) and whether it was living or a stag. These tree hollow assessments were also undertaken in some areas adjacent to the Development Site Footprint, including where the track crosses the creekline and where the track meets Sunrise Lane. The tree hollow assessment considered the occurrence of:

- living or dead tree with hollows greater than 15 centimetre (cm) diameter and greater than 5 m above ground for the Glossy Black-Cockatoo;
- living or dead tree with hollows greater than 10 cm diameter for the Major Mitchell's Cockatoo;

- living or dead *E. blakelyi, E. melliodora, E. albens, E. camaldulensis, E. microcarpa* and *E. polyanthemos* with hollows greater than 5 cm diameter; greater than 4 m above ground or trees with a DBH of greater than 30 cm for the Superb Parrot;
- living or dead trees with hollows greater than 20 cm diameter and greater than 4 m above the ground for the Barking Owl;
- living or dead trees with hollows greater than 20 cm diameter for the Masked Owl; and
- hollow bearing trees for the Brush-tailed Phascogale (tree hollows with entrances 2.5 4 cm wide).

### Search for suitable fallen/standing dead timber

Potential habitat with suitable fallen/standing dead timber for the Bush Stone-curlew was searched for in the study area. No potential habitat with suitable fallen/standing dead timber for the Bush Stone-curlew occurs in the Development Site Footprint so no further surveys for the Bush Stone-curlew were required.

### 2.5.3 Survey of Threatened Fauna/Evidence of Threatened Fauna

### **Avifauna Census**

The avifauna census was undertaken in accordance with DEC (2004). Two, 20-minute area searches for diurnal birds were undertaken on two consecutive mornings (Figure 3), targeting Square-tailed Kite, Little Eagle, Glossy Black-Cockatoo, Superb Parrot and Major Mitchell's Cockatoo. All birds observed were recorded.

### **Searches for Stick Nests**

A search for stick-nests, as evidence of potential breeding of Square-tailed Kite and Little Eagle was undertaken within the Development Site Footprint (and elsewhere on an opportunistic basis). The approximate size of the stick nest was recorded.

#### Evidence of Glossy Black-Cockatoo Foraging

Targeted surveys for evidence of Glossy Black-Cockatoo foraging within the Development Site Footprint was undertaken in areas where food species of the genera *Allocasuarina* and *Casuarina* occur (Figure 3). If cones were found under the sample species, they were investigated for evidence of chewing.

### Evidence of Koala

Surveys for the Koala included both direct observation and indirect observation methods consistent with the *EPBC Act referral guidelines for the vulnerable koala* (Department of the Environment 2014). Direct observation involved diurnal searches for individuals of the species in trees within and nearby the Development Site Footprint. Every tree within the Development Site Footprint was checked. Indirect survey techniques involved searches for scratches on tree trunks and also searches for scats. A determination of the tree species present within the study area was undertaken to assess whether suitable habitat for the Koala was present.

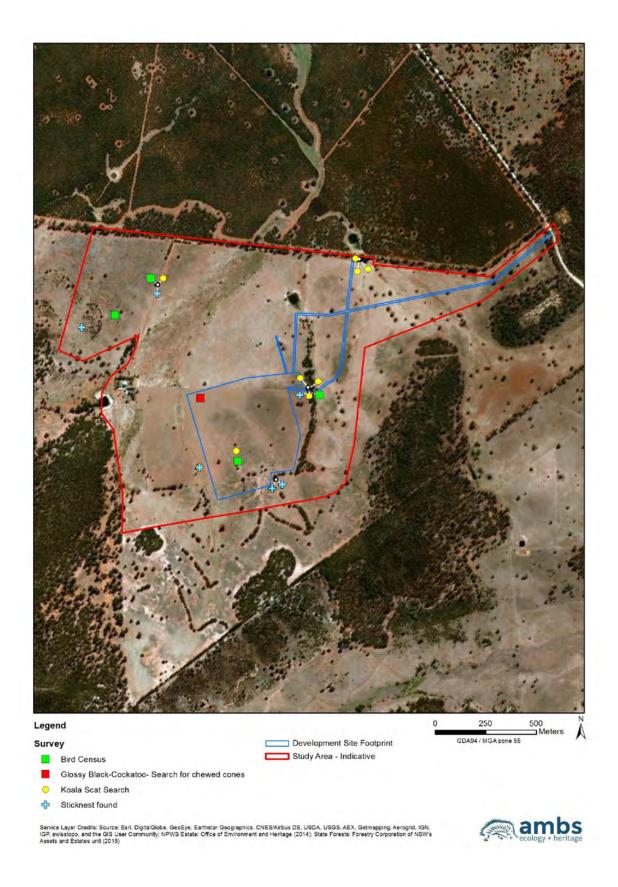


Figure 3: Fauna survey locations.

### 3 Results

### 3.1 Plant community types and condition

Although large portions of the study area have previously been cropped the species present in the ground layer were predominately native herbs, grasses and shrubs. Exotic species were present but the majority of the vegetation cover in the ground layer was provided by native species. Two PCTs, in varying condition, were recorded in the study area. An outline of the plant communities is provided below.

# PCT - 217 Mugga Ironbark - Western Grey Box - cypress pine tall woodland on footslopes of low hills in the NSW South Western Slopes Bioregion

Keith Formation: KF\_CH5 Dry Sclerophyll Forest (Shrubby sub-formation)

**Keith Class: Western Slopes Dry Sclerophyll Forests** 

### Map Units/Vegetation Zones:

- Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217) - representing areas that have been cleared, grazed and in some locations cultivated. Occasional remnant trees and large shrubs occur.
- Previously cleared land with advanced grassland/shrubland regeneration (PCT 217) representing areas that have been cleared, grazed and in some locations cultivated.
  Remnant trees, regenerating shrubs and a more diverse ground layer occur.
- Green Mallee, Mugga Ironbark, Grey Box Woodland (PCT 217) representing areas in the road corridor with a mix of mature remnant trees including *Eucalyptus viridis*, *Eucalyptus sideroxylon* and *Eucalyptus microcarpa*.
- **Green Mallee Low Woodland (PCT 217)** representing an area of mature remnant trees dominated by *Eucalyptus viridis* and, a grazed understorey.

PCT 217 covered most of the study area. Generally, it was found in a derived native grassland form with scattered remnant trees and shrubs (Figure 2). In all locations the vegetation had been grazed and in many cropped as well. Plates 1- 4 depict the variability across this PCT in locations where it has been cleared. Plates 5 and 6 show this PCT in its semi-cleared form. The location of each image can be matched to its site number shown on Figure 2.

Remnant tree and shrub species distributed across the area included *Eucalyptus viridis, Brachychiton populneus subsp. populneus, Eucalyptus sideroxylon, Eucalyptus microcarpa, Acacia doratoxylon, Alectryon oleifolius* and *Geijera parviflora.* Typical species in the ground layer were *Maireana microphylla, Rytidosperma setaceum, Calotis cuneifolius, Cheilanthes sieberi* subsp. *sieberi, Einadia nutans* subsp. *nutans, Tragus australis, Chloris truncata, Goodenia pinnatifida, Vittadinia gracilis, Digitaria diffusa, Atriplex spinibractea* and *Juncus filicaulis*.

Although cleared, vegetation in the study area was considered to most closely match PCT 217 based on: the presence of remnant tree and shrub species, listed above; composition of the ground layer; location in the landscape; and soil characteristics. The results of other recent surveys by AMBS (2017) and small remnants of less disturbed vegetation in the surrounding locality were also used to indicate that the PCT was present in the study area.



Plate 1: Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217), site SB01.



Plate 2: Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217), site SB02.



Plate 3: Previously cleared land with advanced grassland/shrubland regeneration (PCT 217), site SB03.



Plate 4: Previously cleared land with advanced grassland/shrubland regeneration (PCT 217), site SB04.



Plate 5: Green Mallee, Mugga Ironbark, Grey Box Woodland (PCT 217), site SR01.



Plate 6: Green Mallee Low Woodland (PCT 217), sites SFF03 and SR06.

# PCT - 82 Western Grey Box-Poplar Box-White Cypress Pine tall woodland on red loams mainly of the eastern Cobar Peneplain Bioregion

Keith Formation: KF\_CH3 Grassy Woodland Keith Class: Floodplain Transition Woodlands

### Map Unit:

**Low lying area with Derived Native Grassland (PCT 82)** – representing an area likely to have supported vegetation consistent with this PCT.

A derived native grassland form of PCT 82 has been mapped as occurring in a low-lying area within the study area (Figure 2). Soils in this location retain moisture for longer and are likely to have supported a different assemblage of species than that associated with PCT217. Clearing has removed most of the trees however species remaining suggest that PCT 82 or similar occurred in this location. The derived grassland form of this PCT is dominated by native species and meets the requirements for a community in moderate condition (OEH 2016). Plate 7 depicts the form of this PCT in the study area.

Scattered trees present include *Brachychiton populneus subsp. populneus, Eucalyptus microcarpa, Casuarina cristata, Callitris glaucophylla, Myoporum platycarpum* and *Alectryon oleifolius*. Species present in the ground layer *Cheilanthes sieberi* subsp. *sieberi Enteropogon acicularis, Sida corrugata, Oxalis perennans, Wahlenbergia communis, Walwhalleya subxerophila*.

Species composition, soil type and position in the landscape suggest that the area designated as PCT82 was different to that designated as PCT217. Remnant trees were sparse, but the round layer was relatively high in native species, many of which are consistent with the description of PCT 82. Examples of less disturbed vegetation in the surrounding locality that occur in similar topographic locations (and surveyed by AMBS 2017) are a good match for this PCT and although cleared, it is most likely that the area was likely to have formerly been dominated or co-dominated by Grey Box (*Eucalyptus microcarpa*).

Based on the above, the low-lying area with Derived Native Grassland (PCT 82) is a degraded example of the BC Act listed community *Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions* and the EPBC Act listed community *Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-Eastern Australia.* 



Plate 7: PCT 82 cleared and grazed with predominantly native grasses and herbs, site SFF 01.

### 3.2 Paddock Trees

Examples of paddock trees and large shrubs are provided in Plates 8 - 11.



Plate 8: *Brachychiton populneus* subsp. *populneus* (Kurrajong).



Plate 9: Eucalyptus viridis (Green Mallee).



Plate 10: Alectryon oleifolius subsp. elongatus (Western Rosewood).



Plate 11: Eucalyptus microcarpa (Grey Box). Green cover of the ground layer is predominately native herbs and grasses.

### 3.3 Plant Species

In total 120 plant species were recorded during the surveys, of which 89 were native species (Appendix A).

One threatened plant species was located in the study area. *Tylophora linearis* was found at four locations within the Sunrise Lane easement (Table 4; Figure 4). The population was found under *Eucalyptus microcarpa* (Grey Box) trees as was also the case when a number of individuals were located in remnant woodland on the opposite side of the Lane in 2016 (AMBS 2017). *Tylophora linearis* is listed as vulnerable under the BC Act and Endangered under the EPBC Act.

Potential habitat for this species occurs in the easement of Sunrise Lane in the remnant PCT 217.

Table 4: Coordinates and number of individuals in the Tylophora linearis populations.

Population Number	Easting	Northing	Number of Plants
1	536863	6372250	14
2	536876	6372241	6
3	536877	6372251	7
4	536883	6372244	11

### 3.4 Vegetation Integrity (Site Condition) Data

Vegetation Integrity (Site Condition) data are provided in Appendix F.

### 3.5 Broad Habitat Types

Two broad habitat types based on vegetation formations as defined by Keith (2006) were identified in the study area during field surveys.

### **Grasslands**

PCT: Derived grassland form of PCT 217 and PCT 82.

Grasslands occur across the majority of the study area. These grasslands are dominated by native herbs, grasses and in some locations shrubs. They occur in areas that previously may have been woodland but have been modified through historical and current management. Scattered trees occur throughout these habitats, particularly *Eucalyptus viridis* and *Eucalyptus microcarpa*.

### **Dry Sclerophyll Forest (shrubby sub-formation)**

PCT: Uncleared and semi-cleared forms of PCT 217.

Dry Sclerophyll Forest (shrubby sub-formation) occurs in two areas. One area, along Sunrise Lane along the northern boundary, is dominated by *Eucalyptus sideroxylon*, *Eucalyptus viridis* and *Eucalyptus microcarpa*. The second area, in a drainage channel on the eastern side of the study area, consists of a narrow strip of mature *Eucalyptus viridis* trees.

The mid-storey and understorey in its current state is sparse and has limited habitat value aside from limited nectar and foraging resources.



Service Layer Credits: Source: Earl, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN IGP, swisstoo, and the GIS user Community; NPWS Estate: Office of Environment and Heritage (2014); State Forests: Forestry Corporation of NSW Assets and Estates unit (2015)



Figure 4: Location of threatened plants found during the survey.

### 3.6 Fauna Surveys

### 3.6.1 Survey of Threatened Fauna Habitat Constraints

The results of the habitat searches are summarised in Table 5.

**Table 5: Threatened Fauna Habitat Constraints.** 

Scientific Name	Common Name	Habitat Constraints identified in the Threatened Biodiversity Data Collection (OEH 2017d)	Survey Effort/Result
Lophoictinia isura	Square- tailed Kite	Nest trees	No likely breeding trees observed in the Development Site Footprint. 2x 20 minute diurnal bird surveys undertaken. Searches for potential nests (e.g. large stick nests) undertaken, none observed in the Development Site Footprint.
Hieraaetus morphnoides	Little Eagle	Nest trees - live (occasionally dead) large old trees within vegetation.	No likely breeding trees observed in the Development Site Footprint. 2x 20min diurnal bird surveys undertaken. Searches for potential nests (e.g. large stick nests) undertaken, none observed in the Development Site Footprint.
Calyptorhynchus lathami	Glossy Black- Cockatoo	Living or dead tree with hollows greater than 15cm diameter and greater than 5m above ground.	Potential breeding trees not observed in the Development Site Footprint. Surveys for foraging signs undertaken. No signs or animals observed. No potential breeding trees likely to be removed if hollow-bearing trees along creekline next to track are not removed.
Lophochroa leadbeateri	Major Mitchell's Cockatoo	Living or dead tree with hollows greater than 10cm diameter	2x 20 minute diurnal bird surveys and habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded. No potential breeding trees likely to be removed if hollow-bearing trees along creekline next to track are not removed.
Burhinus grallarius	Bush Stone- curlew	Fallen/standing dead timber including logs	Habitat surveys undertaken, suitable habitat considered to be absent in the Development Site Footprint.
Polytelis swainsonii	Superb Parrot	Living or dead E. blakelyi, E. melliodora, E. albens, E. camaldulensis, E. microcarpa and E. polyanthemos with hollows greater than 5cm diameter; greater than 4m above ground or trees with a DBH of greater than 30cm.	2x 20 minute diurnal bird surveys and habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded. No potential breeding trees likely to be removed if hollow-bearing trees along creekline next to track are not removed.
Ninox connivens	Barking Owl	Living or dead trees with hollows greater than 20 cm diameter and greater than 4m above the ground.	Habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded. No potential breeding trees likely to be removed if hollow-bearing trees along creekline next to track are not removed.
Tyto novaehollandiae	Masked Owl	Living or dead trees with hollows greater than 20cm diameter.	Habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded. No potential breeding trees likely to be removed if hollow-bearing trees along creekline next to track are not removed.
Phascogale tapoatafa	Brush- tailed Phascogale	Hollow bearing trees	Habitat surveys undertaken, suitable habitat considered to be absent in the Development Site Footprint.

#### Tree census

The main tree species found with the Development Site Footprint were *Eucalyptus viridis*, with some *Eucalyptus microcarpa* and one *Brachychiton populneus* subsp. *populneus*.

#### Tree hollow assessment

The results of the search for hollow-bearing trees within and adjacent to the proposed Development Site Footprint are shown on Figure 6 and the data are included as Appendix E.

### Search for suitable fallen/standing dead timber

No potential habitat with suitable fallen/standing dead timber for the Bush Stone-curlew occurs in the Development Site Footprint.

### 3.6.2 Survey of Threatened Fauna/Evidence of Threatened Fauna

#### Avifauna Census

One threatened species was recorded; the Grey-crowned Babbler, which was detected in two locations within the study area (Figure 5). The Grey-crowned Babbler is not a "species credit" species. A list of fauna recorded during the surveys is provided in Appendix B.

### **Searches for Stick Nests**

The results of the search for nest-bearing trees within and adjacent to the proposed Development Site Footprint are shown on Figure 6 and the data are included as Appendix E.

### **Evidence of Glossy Black-Cockatoo Foraging**

There was only one Casuarina tree found within the proposed Development Site Footprint. No evidence of chewed cones was found.

### Evidence of Koala

No primary feed trees for the Koala (Department of Environment and Climate Change NSW 2008) are located in the Development Site Footprint. A secondary feed tree, Grey Box (*E. microcarpa*), is present in the Development Site Footprint, represented by one isolated tree. No evidence of Koala use (scats or scratches) was found. It is unlikely that the Koala uses the habitat in the Development Site Footprint.

Schedule 1 of State Environmental Planning Policy No 44—Koala Habitat Protection (SEPP 44) lists the Local Government Areas to which the policy applies. The study area occurs within the Lachlan Shire Council, which is not on Schedule 1. As, such, SEPP 44 does not apply to the study area.

The wider study area contains some trees listed as secondary feed trees for the Koala. Further information regarding potential Koala habitat trees is provided in Appendix C.

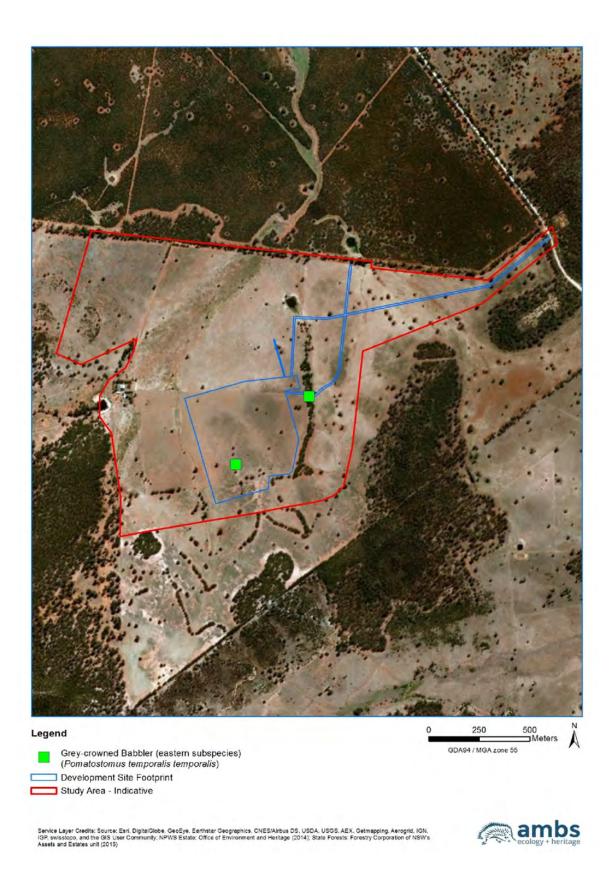


Figure 5: Threatened fauna recorded during the surveys.

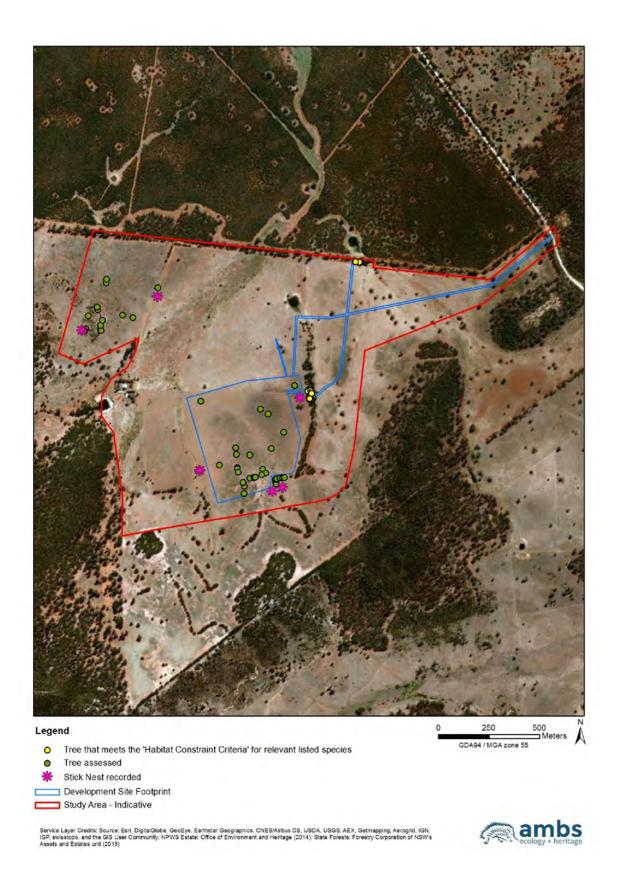


Figure 6: Location of trees assessed and hollow-bearing trees within the Development Site Footprint.

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# **Appendix A: Plant Species Recorded During Surveys**

### Native Species

Family	Scientific Name	Common Name
Fabaceae	Acacia doratoxylon	Currawang
Fabaceae	Acacia lineata	Streaked Wattle
Asteraceae	Actinobole uliginosum	Flannel Cudweed
Sapindaceae	Alectryon oleifolius subsp. elongatus	Western Rosewood
Amaranthaceae	Alternanthera denticulata	
Amaranthaceae	Alternanthera sp. A	
Poaceae	Aristida behriana	Bunch Wiregrass
Poaceae	Aristida benthamii	Three-awned spear grass
Poaceae	Aristida ramosa	Purple Wiregrass
Chenopodiaceae	Atriplex spinibractea	Spiny-fruit Saltbush
Poaceae	Austrostipa scabra	Speargrass
Poaceae	Austrostipa setacea	Corkscrew Grass
Nyctaginaceae	Boerhavia dominii	Tarvine
Poaceae	Bothriochloa decipiens var. decipiens	Pitted Bluegrass
Poaceae	Bothriochloa macra	Red Grass
Malvaceae	Brachychiton populneus subsp. populneus	Kurrajong
Asphodelaceae	Bulbine semibarbata	Wild Onion
Cupressaceae	Callitris glaucophylla	White Cypress Pine
Asteraceae	Calotis cuneifolia	Purple Burr-Daisy
Asteraceae	Calotis hispidula	Bogan Flea
Cyperaceae	Carex inversa	Knob Sedge
Casuarinaceae	Casuarina cristata	Belah
Asteraceae	Centipeda cunninghamii	
Euphorbiaceae	Chamaesyce drummondii	Caustic Weed
Adiantaceae	Cheilanthes sieberi	Rock Fern
Poaceae	Chloris truncata	Windmill Grass
Convolvulaceae	Convolvulus erubescens	Pink Bindweed
Asteraceae	Cotula australis	Common Cotula
Crassulaceae	Crassula sieberiana	Australian Stonecrop
Poaceae	Cynodon dactylon	Common Couch
Cyperaceae	Cyperus spp.	
Convolvulaceae	Dichondra repens	Kidney Weed
Poaceae	Digitaria ammophila	
Poaceae	Digitaria diffusa	Open Summer-grass
Chenopodiaceae	Dysphania glomulifera	
Chenopodiaceae	Dysphania pumilio	Small Crumbweed
Chenopodiaceae	Einadia nutans	Climbing Saltbush
Chenopodiaceae	Einadia polygonoides	
Poaceae	Elymus scaber	Common Wheatgrass
Poaceae	Enteropogon acicularis	Curly Windmill Grass
Poaceae	Eragrostis brownii	
Poaceae	Eragrostis lacunaria	Purple Lovegrass
Poaceae	Eriochloa pseudoacrotricha	

Family	Scientific Name	Common Name
Geraniaceae	Erodium crinitum	Blue Crowfoot
Myrtaceae	Eucalyptus dwyeri	Dwyer's Red Gum
Myrtaceae	Eucalyptus microcarpa	Grey Box
Myrtaceae	Eucalyptus sideroxylon	Mugga Ironbark
Myrtaceae	Eucalyptus viridis	Green Mallee
Asteraceae	Euchiton sphaericus	
Cyperaceae	Fimbristylis dichotoma	Common Fringe-sedge
Rutaceae	Geijera parviflora	Wilga
Goodeniaceae	Goodenia pinnatifida	Scrambles Eggs
Goodeniaceae	Goodenia pusilliflora	
Apiaceae	Hydrocotyle laxiflora	Stinking Pennywort
Hypericaceae	Hypericum gramineum	Small St. John's Wort
Juncaceae	Juncus aridicola	Tussock Rush
Juncaceae	Juncus filicaulis	
Brassicaceae	Lepidium fasciculatum	Bundled Peppercress
Lythraceae	Lythrum hyssopifolium	
Chenopodiaceae	Maireana enchylaenoides	Wingless Fissure-weed
Chenopodiaceae	Maireana microphylla	Small-leaf Bluebush
Scrophulariaceae	Myoporum montanum	Western Boobialla
Oxalidaceae	Oxalis perennans	
Poaceae	Panicum effusum	Hairy Panic
Poaceae	Paspalidium gracile	Slender Panic
Plantaginaceae	Plantago debilis	Shade Plantain
Plantaginaceae	Plantago turrifera	Small Sago-weed
Polygonaceae	Polygonum plebeium	Small Knotweed
Portulacaceae	Portulaca oleracea	Pigweed
Asteraceae	Rhodanthe anthemoides	
Polygonaceae	Rumex brownii	Swamp Dock
Poaceae	Rytidosperma setaceum	Small-flowered Wallaby-grass
Chenopodiaceae	Sclerolaena muricata	
Malvaceae	Sida corrugata	Corrugated Sida
Solanaceae	Solanum esuriale	
Solanaceae	Solanum ferocissimum	Spiny Potato Bush
Poaceae	Sporobolus creber	Slender Rat's Tail Grass
Asteraceae	Stuartina muelleri	Spoon Cudweed
Poaceae	Tragus australianus	Small Burrgrass
Asteraceae	Triptilodiscus pygmaeus	Common Sunray
Apocynaceae	Tylophora linearis	
Asteraceae	Vittadinia cervicularis	
Asteraceae	Vittadinia cuneata	A Fuzzweed
Asteraceae	Vittadinia gracilis	Woolly New Holland Daisy
Campanulaceae	Wahlenbergia communis	Tufted Bluebell
Campanulaceae	Wahlenbergia gracilenta	Annual Bluebell
Campanulaceae	Wahlenbergia gracilis	Sprawling Bluebell
Poaceae	Walwhalleya subxerophila	Gilgai Grass
Asteraceae	Xerochrysum bracteatum	Golden Everlasting

### Exotic Species

Family	Scientific Name	Common Name
Amaranthaceae	Alternanthera pungens	
Asteraceae	Arctotheca calendula	Cape Weed
Poaceae	Avena sativa	Oats
Poaceae	Bromus molliformis	Soft Brome
Asteraceae	Carthamus lanatus	Saffron Thistle
Gentianaceae	Centaurium tenuiflorum	Branched Centaury, Slender centaury
Asteraceae	Chondrilla juncea	Skeleton Weed
Asteraceae	Cirsium vulgare	Spear Thistle
Asteraceae	Conyza bonariensis	Flaxleaf Fleabane
Boraginaceae	Echium plantagineum	Patterson's Curse
Boraginaceae	Heliotropium europaeum	
Poaceae	Hordeum leporinum	Barley Grass
Asteraceae	Hypochaeris glabra	Smooth Catsear
Brassicaceae	Lepidium africanum	Common Peppercress
Brassicaceae	Lepidium bonariensis	
Poaceae	Lolium perenne	Perennial Ryegrass
Poaceae	Lolium rigidum	Wimmera Ryegrass
Malvaceae	Malva parvifolia	
Lamiaceae	Marrubium vulgare	White Horehound
Fabaceae	Medicago minima	Woolly Burr Medic
Caryophyllaceae	Polycarpon tetraphyllum	Four-leaved Allseed
Asteraceae	Sonchus oleraceus	Common Sowthistle
Caryophyllaceae	Spergularia diandra	Lesser Sand-spurry
Fabaceae	Trifolium arvense	Haresfoot Clover
Fabaceae	Trifolium campestre	Hop Clover
Fabaceae	Trifolium glomeratum	Clustered Clover
Fabaceae	Trifolium spp.	A Clover
Fabaceae	Trifolium subterraneum	Subterranean Clover
Poaceae	Vulpia muralis	Wall Fescue
Poaceae	Vulpia myuros	Rat's Tail Fescue

# **Appendix B: Fauna Recorded During Surveys**

Class	Family	Common Name	Scientific Name		
Amphibia	Hylidae	Peron's Tree Frog	Litoria peronii		
	Myobatrachidae	Eastern sign-bearing Froglet	Crinia parinsignifera		
		Common Eastern Froglet	Crinia signifera		
		Long-thumbed Frog	Limnodynastes fletcheri		
		Spotted Grass Frog	Limnodynastes tasmaniensis		
Aves	Acanthizidae	Yellow-rumped Thornbill	Acanthiza chrysorrhoa		
	Alcedinidae	Laughing Kookaburra	Dacelo novaeguineae		
	Ardeidae	White-necked Heron	Ardea pacifica		
	Artamidae	Pied Butcherbird	Cracticus nigrogularis		
		Australian Magpie	Cracticus tibicen		
		Grey Butcherbird	Cracticus torquatus		
	Cacatuidae	Galah	Eolophus roseicapillus		
	Campephagidae	Black-faced Cuckoo-shrike	Coracina novaehollandiae		
	Casuariidae	Emu	Dromaius novaehollandiae		
	Charadriidae	Banded Lapwing	Vanellus tricolor		
	Columbidae	Crested Pigeon	Ocyphaps lophotes		
		Common Bronzewing	Phaps chalcoptera		
	Corcoracidae	White-winged Chough	Corcorax melanorhamphos		
		Apostlebird	Struthidea cinerea		
	Corvidae	Australian Raven	Corvus coronoides		
	Falconidae	Brown Falcon	Falco berigora		
		Nankeen Kestrel	Falco cenchroides		
	Maluridae	Variegated Fairy-wren	Malurus lamberti		
	Meliphagidae	Spiny-cheeked Honeyeater	Acanthagenys rufogularis		
	- P - O	Blue-faced Honeyeater	Entomyzon cyanotis		
		White-eared Honeyeater	Lichenostomus leucotis		
		Noisy Miner	Manorina melanocephala		
	Monarchidae	Magpie-lark	Grallina cyanoleuca		
	Motacillidae	Australian Pipit	Anthus novaeseelandiae		
	Phasianidae	Stubble Quail	Coturnix pectoralis		
	Pomatostomidae	Grey-crowned Babbler (eastern subspecies)^	Pomatostomus temporalis temporalis		
	Psittacidae	Blue Bonnet	Northiella haematogaster		
		Eastern Rosella	Platycercus eximius		
		Red-rumped Parrot	Psephotus haematonotus		
	Rhipiduridae	Willie Wagtail	Rhipidura leucophrys		
Mammalia	Bovidae	Sheep	Ovis aries		
	Canidae	Red Fox*	Vulpes vulpes		
	Dasyuridae	unidentified Antechinus	Antechinus sp.		
	Felidae	Cat*	Felis catus		
	Leporidae	European Brown Hare*	Lepus capensis		
	2000	European Rabbit*	Oryctolagus cuniculus		
	Macropodidae	Eastern Grey Kangaroo	Macropus giganteus		
	. Traci opoulauc	Common Wallaroo	Macropus robustus		
	Phalangeridae	Common Brushtail Possum	Trichosurus vulpecula		
	Tachyglossidae	Short-beaked Echidna	Tachyglossus aculeatus		
Reptilia	Scincidae	unidentified Cryptoblepharus	Cryptoblepharus sp.		
перина	Jemerauc	Shingle-back	Tiliqua rugosa		

 $<sup>^{\</sup>updayscript{\wedge}}$  Species listed as threatened under the BC Act or the EPBC Act

<sup>\*</sup> introduced species

# **Appendix C: Likelihood of Occurrence – Threatened Plants**

Scientific Name	Common Name	BC Act (BioNet Search)	EPBC Act (Protected Matters Search)	Credit type	PCT 82	PCT 217	Likelihood of Occurrence	Survey Effort	Recommended Survey time
Austrostipa wakoolica	A spear-grass	E	E	Species	Potential	Potential	Has been recorded in the vicinity in a previous survey (AMBS 2017).	Targeted surveys undertaken in suitable habitat. Not recorded.	Oct- Dec
Commersonia procumbens	-	V	V	Species		Potential	Unlikely; suitable PCT present but study area exposed to disturbance from clearing and grazing.	Targeted surveys undertaken in suitable habitat. Not recorded.	Aug - May
Diuris tricolor	Pine Donkey Orchid	V	-	Species	Potential		Unlikely; suitable PCT present but study area exposed to disturbance from clearing and grazing.	Random surveys in suitable habitat. Not recorded.	Sept - Oct
Swainsona sericea	Silky Swainson-pea	V	-	Species	Potential		Unlikely; suitable PCT present but study area exposed to disturbance from clearing and grazing.	Random surveys in suitable habitat. Not recorded.	Sept - Dec

Scientific Name	Common Name	BC Act (BioNet Search)	EPBC Act (Protected Matters Search)	Credit type	PCT 82	PCT217	Likelihood of Occurrence Prior to the Survey	Survey Effort	Recommended Survey time
Austrostipa metatoris	-	V	V	Species			Unlikely; suitable PCT not present. Study area exposed to disturbance from clearing and grazing.	Random surveys in suitable habitat. Not recorded.	Jan - Dec
Lepidium monoplocoides	Winged Pepper-cress	E	E	Species			Has been recorded in the vicinity in a previous survey	Targeted surveys undertaken in suitable habitat. Not recorded.	Nov - Feb
Swainsona murrayana	Slender Darling-pea	V	V	Species			Unlikely; suitable PCT not present. Study area exposed to disturbance from clearing and grazing.	Random surveys in suitable habitat. Not recorded.	Sept - Feb
Tylophora linearis	-	V	E	Species			Has been recorded in the vicinity in a previous survey.	Targeted surveys undertaken in suitable habitat. Recorded in road reserve outside of Development Site Footprint.	Sept - May

# **Appendix D: Likelihood of Occurrence – Threatened Fauna**

Species identified using the NSW BioNet Search tool or the EPBC Protected Matters Search Tool (Department of Environment and Energy, 2017)

Common Name	Scientific Name	BC Act (BioNet Search)	EPBC Act (Protected Matters Search)	Credit type	PCT 82	PCT 217	Likelihood of Occurrence	Survey Effort	Recommended Survey time
Australian Bustard	Ardeotis australis	E	-	Species	Yes		Unlikely. Suitable PCT present although requires some shrubland for cover. Study area exposed to disturbance from clearing and grazing.	Not recorded during any surveys. PCT 82 will not be impacted.	All year.
Brush-tailed Phascogale	Phascogale tapoatafa	V	-	Species		Yes	Unlikely. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Hollow-bearing trees and fallen timber uncommon.	Habitat surveys undertaken, suitable habitat considered to be absent in the Development Site Footprint. No habitat trees likely to be removed.	All year.
Bush Stone-curlew	Burhinus grallarius	E	-	Species	Yes	Yes	Unlikely. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Hollow-bearing trees and fallen timber uncommon.	Habitat surveys undertaken, suitable habitat considered to be absent in the Development Site Footprint. No habitat trees likely to be removed.	All year.
Glossy Black- Cockatoo	Calyptorhynchus lathami	V	-	Species	Yes		Unlikely. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Only one potential feed tree within the Development Site Footprint but no foraging signs observed.	Surveys for foraging signs undertaken. No signs or animals observed. No potential breeding trees likely to be removed.	All year.
Sloane's Froglet	Crinia sloanei	V	-	Species	Yes		Unlikely. Suitable PCT present but study area exposed to disturbance from clearing and grazing.	Targeted surveys not undertaken. PCT 82 will not be impacted.	Jul - Aug
Barking Owl	Ninox connivens	V	-	Ecosystem & Species	Yes	Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and	Habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the	May - Dec

Common Name	Scientific Name	BC Act (BioNet Search)	EPBC Act (Protected Matters Search)	Credit type	PCT 82	PCT 217	Likelihood of Occurrence	Survey Effort	Recommended Survey time
							grazing. No tree hollows suitable for breeding observed in the Development Site Footprint.	species recorded.	
Koala	Phascolarctos cinereus	V	V	Ecosystem & Species	Yes	Yes	Unlikely. Suitable PCT present but Primary feed trees absent. Secondary feed trees very uncommon in the Development Site Footprint (limited to sparsely distributed Western Grey Box, Eucalyptus microcarpa).	Searches for signs of the species undertaken. No animals, scats or scratches were observed.	All year.
Little Eagle	Hieraaetus morphnoides	V	-	Ecosystem & Species	Yes	Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Potential breeding trees not observed in the Development Site Footprint.	2x 20min diurnal bird surveys undertaken. Searches for potential nests (e.g. large stick nests) undertaken, none observed in the Development Site Footprint.	Aug - Oct
Major Mitchell's Cockatoo	Lophochroa leadbeateri	V	-	Ecosystem & Species	Yes	Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and grazing. No tree hollows suitable for breeding observed in the Development Site Footprint.	2x 20min diurnal bird surveys and habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded.	Sep - Dec
Masked Owl	Tyto novaehollandiae	V	-	Ecosystem & Species	Yes	Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and grazing. No tree hollows suitable for breeding observed in the Development Site Footprint.	Habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded.	May - Aug
Square-tailed Kite	Lophoictinia isura	V	-	Ecosystem & Species		Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Potential breeding trees not observed in the Development Site Footprint.	2x 20min diurnal bird surveys undertaken. Searches for potential nests (e.g. large stick nests) undertaken, none observed in the Development Site Footprint.	Sep - Dec

Common Name	Scientific Name	BC Act (BioNet Search)	EPBC Act (Protected Matters Search)	Credit type	PCT 82	PCT 217	Likelihood of Occurrence	Survey Effort	Recommended Survey time
Superb Parrot	Polytelis swainsonii	V	V	Ecosystem & Species	Yes	Yes	Foraging possible. Suitable PCT present but study area exposed to disturbance from clearing and grazing. No tree hollows suitable for breeding observed in the Development Site Footprint.	2x 20min diurnal bird surveys and habitat surveys undertaken. No tree hollows likely to be impacted. No signs of the species recorded.	Sep - Nov
Swift Parrot	Lathamus discolor	E	CE	Ecosystem & Species	Yes	Yes	Unlikely. Suitable PCT present but study area exposed to disturbance from clearing and grazing. Suitable foraging resources sparsely distributed in the Development Site Footprint, landscape heavily fragmented.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	May - Aug

#### Additional species identified using only the EPBC Protected Matters Search Tool (Department of Environment and Energy, 2017)

Common Name	Scientific Name	BC Act	EPBC Act	Likelihood of Occurrence	Survey Effort	Recommended Survey time
Regent Honeyeater	Anthochaera phrygia	CE	CE	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable foraging resources sparsely distributed in the Development Site Footprint, landscape heavily fragmented.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	Sep – Dec
Curlew Sandpiper	Calidris ferruginea	E	CE	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable habitats absent from footprint.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	Sep - Mar
Painted Honeyeater	Grantiella picta	V	V	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable foraging resources sparsely distributed in the Development Site Footprint.	2x 20min diurnal bird surveys and habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	N/A
Malleefowl	Leipoa ocellata	E	V	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable mallee habitats absent from footprint.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	N/A
Eastern Curlew	Numenius madagascariensis	-	CE	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable habitats absent from footprint.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	All year
Plains-wanderer	Pedionomus torquatus	E	CE	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable habitats absent from footprint.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	Aug - Oct
Australian Painted Snipe	Rostratula australis	E	E	Unlikely. Study area exposed to disturbance from clearing and grazing. Suitable habitats absent from footprint.	Habitat surveys undertaken. Species unlikely to utilise habitats within the Development Site Footprint.	N/A
Corben's Long-eared Bat	Nyctophilus corbeni	V	V	Unlikely. Study area exposed to disturbance from clearing and grazing, limiting their potential to occur. Potential roosting trees uncommon.	Habitat surveys undertaken. No hollow-bearing trees likely to be impacted within the Development Site Footprint.	Oct - Apr
Grey-headed Flying-fox	Pteropus poliocephalus	V	V	Unlikely. Study area exposed to disturbance from clearing and grazing, limiting their potential to occur. No camps observed.	Habitat surveys undertaken. No camps observed in the Development Site Footprint and none likely to occur.	Oct - Dec

### **Appendix E: Tree Feature Data**

															Habi	itat Feat	ures															
			Tree	Feature	s	Small4 Mid-	branch Hollow	Mediums Mid-	branch Hollow	Large Mid-	branch Hollow	Small4 End-of-	branch Opening	Medium5 End-of-	branch Opening	large6 End-of-	branch Opening	Smalld	Hollow	Mediums Trunk	Hollow	large6 Trunk	MolloH	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	at ssment		Meets Habitats Constraint Criteria for	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	occurring listed species?	Species
537636	6371194	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	Υ	N	Mallee	N	N	N		
537531	6371162	Brachychiton populneus subsp. populneus	6.5	30- 60	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N		
537461	6371197	Eucalyptus viridis	6	<30	No	0		0		0		0		0		0		0		0		0		N	Υ	N	Mallee	N	N	N		
537463	6371164	Eucalyptus viridis	9	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537379	6371114	Eucalyptus microcarpa	13	>60	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N		
537288	6371428	Casuarina cristata	12	30- 60	No	0		0		0		0		0		0		0		0		0		Υ	N	N	No cones evident	N	N	Υ		
537282	6371086	Eucalyptus microcarpa	16	>60	No	0		0		0		0		0		0		0		1	6	0		N	N	N	Bank around hollow has been chewed. Stick nest 50cm diameter at 12m.	Υ	Υ	Υ		
537468	6371100	Eucalyptus viridis	6	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537468	6371096	Eucalyptus viridis	6	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537472	6371078	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537502	6370972	Callitris glaucophylla	8.5	30- 60	No	0		0		0		0		0		0		0		0		0		N	N	N	Chewed seed pods	N	N	N		
537503	6371009	Callitris glaucophylla	6.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Chewed cones.	N	N	N		
537497	6371025	Eucalyptus viridis	5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537497	6371027	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537529	6371049	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		

															Habi	tat Feat	ures															
			Tree	Features	5	Small4	branch Hollow	Medium5 Mid-	branch Hollow	Large6 Mid-	branch Hollow	Small4 Fnd-of-	branch Opening	Modiums Endon	branch Opening	large6 End-of-	branch Opening		Hollow	Medium5 Trunk	Hollow	Large6 Trunk	Hollow	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	at sment		Meets Habitats Constraint Criteria for	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	occurring listed species?	Species
537551	6371052	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537557	6371053	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537594	6371092	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee	N	N	N		
537608	6371073	Eucalyptus viridis	6	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537589	6371066	Eucalyptus viridis	6	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537656	6371043	Eucalyptus viridis	6.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537658	6371036	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537657	6371030	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	stick nest 25cm	Υ	N	N		
537659	6371026	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Stick nest 20cm	Υ	N	N		
537660	6371019	Eucalyptus viridis	9	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537660	6371042	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537663	6371045	Eucalyptus viridis	6.5	<30	Yes	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537678	6371049	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	Υ	N	Mallee	N	N	N		
537690	6371050	Eucalyptus viridis	6.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee	N	N	N		
537699	6371051	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee	N	N	N		
537700	6371051	Eucalyptus viridis	7	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee, mistletoe	N	N	N		
537697	6371274	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537621	6371364	Acacia dorataxylon	4.5	<30	No	0		0		0		0		0		0		0		0		0		N	Υ	N		N	N	N		
537582	6371389	Eucalyptus viridis	5.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee	N	N	N		
537751	6371505	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536795	6371778	Geijera parviflora	3.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N		

															Hab	itat Fea	tures															
			Tree	Feature	s	VII Com 3	Small4 Mid- branch Hollow	Mediums	branch Hollow	arge A	branch Hollow	be be a	Small4 End-or- branch Opening		branch Opening	000000	Largeb End-or- branch Opening		Hollow		Mediums Trunk Hollow	Jun L	Hollow	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	tat ssment		Meets Habitats Constraint Criteria for	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	occurring listed species?	Species
536792	6371803	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee, mistletoe	N	N	N		
536801	6371828	Eucalyptus viridis	9	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee, mistletoe	N	N	N		
536719	6371785	Eucalyptus viridis	3	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536713	6371778	Eucalyptus viridis	2	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536700	6371777	Eucalyptus viridis	9	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Stick nest 40cm, mallee, mistletoe	N	N	N		
536733	6371851	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536778	6371881	Eucalyptus viridis	6.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering,	N	N	N		
536775	6371893	Eucalyptus viridis	3.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536821	6372013	Eucalyptus viridis	5.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536822	6372031	Eucalyptus viridis	8.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
536901	6371854	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering,	N	N	N		
536953	6371841	Eucalyptus viridis	4	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N		
537075	6371990	Eucalyptus microcarpa	16	>60	No	0		0		0		0		0		0		0		0		0		N	N	N	Stick nest 35cm 15m high	N	N	N		
537818	6371482	Eucalyptus microcarpa	15	>60	No	0		0		0		1	6.5	0		0		1	10	1	9	1	7	Y	N	N		Y	Y	Y	Y	Glossy Black- Cockatoo, Major Mitchell's Cockatoo, Superb Parrot, Little Eagle, Square- tailed Kite
537824	6371455	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Flowering, mallee,	N	N	N	Υ	Square- tailed Kite

															Hab	itat Feat	tures															
			Tree	Feature	s	2   Comp.	branch Hollow	Mediums	branch Hollow	arges	branch Hollow	Cmalla	branch Opening		branch Opening	John John John	branch Opening	Smalld	Hollow	Medium5 Trunk	Hollow	Large6 Trunk	Mollow	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	at sment		Meets Habitats Constraint Criteria for	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	occurring listed species?	Species
																											stick nest 35cm diameter					
537824	6371446	Eucalyptus viridis	7.5	<30	No	0		0		0		0		0		0		0		0		0		Y	N	N	Mallee	N	N	Υ	Υ	Square- tailed Kite
537830	6371443	Eucalyptus viridis	9	<30	No	0		0		0		0		0		0		0		0		0		Υ	N	N	Several dead stems, mallee	N	N	Υ	Y	Square- tailed Kite
537836	6371443	Eucalyptus viridis	10	<30	No	0		0		0		1	8	0		0		0		0		0		Υ	Y	N	Mallee	Υ	Υ	Y	Y	Brush- tailed Phascogale, Square- tailed Kite
537840	6371444	Eucalyptus viridis	7	<30	No	0		0		0		2	1.5	0		0		0		0		0		Υ	N	N	Short dead stem, mallee	N	N	Y	Y	Brush- tailed Phascogale, Square- tailed Kite
537836	6371451	Eucalyptus viridis	7	<30	No	0		0		0		2	3	0		0		1	1	0		0		Υ	N	N	Some dead stems, mallee	Y	Υ	Y	Υ	Brush- tailed Phascogale, Square- tailed Kite
537843	6371442	Eucalyptus viridis	5	<30	No	0		0		0		0		0		0		0		0		0		Υ	N	N	Mallee	N	N	Υ	Υ	Square- tailed Kite
537839	6371435	Eucalyptus viridis	8	<30	No	0		0		0		1	3	0		0		1	0.5	0		0		Υ	N	N	Mallee	N	N	Y	Υ	Brush- tailed Phascogale, Square- tailed Kite
537835	6371436	Eucalyptus viridis	6.5	<30	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N	Υ	Square- tailed Kite
537831	6371438	Eucalyptus viridis	8	<30	No	0		0		0		0		2	4.5	0		0		0		0		Υ	N	N	Broad multi- stemmed tree, some dead	Υ	Υ	Υ	Υ	Major Mitchell's Cockatoo, Square- tailed Kite
537824	6371437	Eucalyptus microcarpa	12	30- 60	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N	Υ	Superb Parrot, Square- tailed Kite
537825	6371441	Eucalyptus viridis	8	<30	No	0		0		0		0		0		0		0		0		0		Υ	N	N	Mallee	N	N	Υ	Υ	Square- tailed Kite
537819	6371474	Eucalyptus	15	>60	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N	Υ	Superb

															Habi	itat Fea	tures															
			Tree	Feature	s	Smalla	branch Hollow	Medium5 Mid-	branch Hollow	arges Mid.	branch Hollow	Small4 End-of-	branch Opening	A Constitution of the cons	branch Opening	90 000000	branch Opening	Ama-F	Hollow	Medium Trunk	Hollow		Hollow	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	tat ssment		Meets Habitats Constraint Criteria for	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	occurring listed species?	Species
		microcarpa																														Parrot, Little Eagle, Square- tailed Kite
537819	6371476	Geijera parviflora	3.8	<30	No	0		0		0		0		0		0		0		0		0		N	N	N		N	N	N	Υ	Square- tailed Kite
537831	6371482	Eucalyptus viridis	9	30- 60	No	0		0		0		1	3	1	4	1	5	3		1		0		Υ	N	N	Mallee	Y	Y	Y	Y	Major Mitchell's Cockatoo, Superb Parrot, Barking Owl, Masked Owl, Square- tailed Kite
537831	6371466	Eucalyptus viridis	9	30- 60	No	0		0		0		2	2	0		1	5	1	2	0		0		Υ	N	N	Several stems along ground, mallee	Y	Y	Y	Y	Major Mitchell's Cockatoo, Superb Parrot, Barking Owl, Masked Owl, Square- tailed Kite
537836	6371473	Eucalyptus viridis	8	30- 60	No	0		0		0		0		0		0		0		0		0		N	N	N	Mallee	N	N	N	Y	Superb Parrot, Square- tailed Kite
537836	6371465	Eucalyptus viridis	9	30- 60	No	0		0		0		4	3- 7	2	5	0		0		2	6	1	7	Y	N	N	Mallee	Y	Y	Y	Y	Glossy Black- Cockatoo, Major Mitchell's Cockatoo, Superb Parrot, Square- tailed Kite
538073	6372112	Eucalyptus microcarpa	14	>60	No	0		0		0		1	9	2	9- 10	0		0		0		0		N	N	N	Sunrise Lane	Υ	Y	Υ	Υ	Glossy Black-

															Hab	itat Fea	tures															
			Tree	Feature	s	VII 2000 3	branch Hollow	Medium5 Mid-	branch Hollow	Jarose	branch Hollow	A	Small4 End-or- branch Opening		Medium5 End-of- branch Opening		Large6 End-of- branch Opening	F VIII COM	Hollow		Hollow	Jaros Trunk	MolloM	Crevices	Loose Bark	>12 Small4 Hollows all Types	Comments	Habit Asses	at sment		Meets Habitats Constraint Criteria	Relevant Fauna
Easting	Northing	Tree Species	Height (m)	рвн	Stag	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Number	Height	Present	Present	Present		Birds	Aboreal Mammal	Bats	for occurring listed species?	Species
																																Cockatoo, Major Mitchell's Cockatoo, Superb Parrot
538071	6372116	Eucalyptus microcarpa	11	30- 60	No	0		0		0		0		1	10	0		0		1	9	0		Υ	N	N	Sunrise Lane	Y	Υ	Y	Υ	Glossy Black- Cockatoo, Major Mitchell's Cockatoo, Superb Parrot
538052	6372117	Eucalyptus microcarpa	15	>60	No	0		0		0		3	5- 10	2	10- 12	0		0		1	11	0		Υ	N	N	Sunrise Lane	Y	Υ	Y	Y	Glossy Black- Cockatoo, Major Mitchell's Cockatoo, Superb Parrot, Little Eagle

<sup>&</sup>lt;sup>1</sup> 2.5 to 4 cm wide <sup>2</sup> >4 to <20 cm wide <sup>3</sup> 20 cm or greater

### **Appendix F: Vegetation Integrity (Site Condition) Data**

Plot	РСТ	Condition Class	Zone	Easting	Northing	Bearing	Composition Tree	Composition Shrub	Composition Grass	Composition Forbs	Composition Ferns	Composition Other	Structure Tree	Structure Shrub	Structure Grass	Structure Forbs	Structure Ferns	Structure Other	Function Large Trees	Function Hollow Trees	Function Litter Cover	Function Length Fallen Logs	Function Tree Stem 5 to 10	Function Tree Stem 10 to 20	Function Tree Stem 20 to 30	Function Tree Stem 30 to 50	Function Tree Stem 50 to 80	Function Tree Regen	Function High Threat Exotic
SB01	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537392	6371200		0	0	7	11	0	1	0.0	0.0	15.9	4.7	0.0	0.1	0	0	18. 0	0.0	0	0	0	0	0	0	0.0
SB02	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537650	6371481		0	0	9	10	1	1	0.0	0.0	3.4	2.3	0.1	35. 0	0	0	28.	0.0	0	0	0	0	0	0	0.0
SB03	217	Derived native grass land (Previously cleared land with advanced grassland/shrubland regeneration (PCT 217))	55	536788	6371967		0	1	9	21	1	1	0.0	2.0	42.2	2.2	2.0	10. 0	0	0	39. 0	0.0	0	0	0	0	0	0	0.0
SB04	217	Derived native grass land (Previously cleared land with advanced grassland/shrubland regeneration (PCT 217))	55	536912	6371822		0	1	9	18	1	1	0.0	3.0	26.3	2.3	0.4	4.0	0	0	34. 0	0.0	0	0	0	0	0	0	0.0
SB05	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537673	6371166		0	0	5	14	0	1	0.0	0.0	10.9	4.9	0.0	0.3	0	0	25. 0	0.0	0	0	0	0	0	0	0.0
SB05	217	Sirius (PCT 217))  Semi cleared woodland (Green Mallee Low Woodland (PCT 217))	55	537844	6371454		1	1	9	8	0	4	20.	0.0	7.7	0.9	0.0	4.1	0	16	30. 0	86. 0	1	0	2	4	0	0	0.0
SB07	217	Degraded woodland (Green Mallee, Mugga Ironbark Grey Box Woodland (PCT 217))	55	537977	6372118		0	0	8	12	1	2	0.0	0.0	17.4	1.9	0.1	0.3	0	0	20. 0	0.0	0	0	0	0	0	0	0.0
SB08	82	Derived native grass land (Low lying area with Derived Native Grassland (PCT 82))	55	536956	6371574		0	0	12	26	0	7	0.0	0.0	9.4	5.8	0.0	5.5	0	0	40. 0	0.0	0	0	0	0	0	0	0.0

		Denis and marking agency land																										T
		Derived native grass land																										
		(Previously cleared land																										
		with regrowth of																										
		predominantly native																										
		grasses, herbs and low																		35.								
SB09	217	shrubs (PCT 217))	55	538000	6371757	0	0	11	5	1	0	0.0	0.0	26.1	1.3	0.1	0.0	0	0	0	0.0	0	0	0	0	0	0	0.0

# **Appendix G: Vegetation Integrity (Site Condition) – Field Data Sheets**

		AM Plot - F				1	Site S			
	1 / /		ey Name		lentifier	David		ecorde		13
Date	31/10/1	7 STER	STON	5B-	01	DAN	0	_		MES R
Zone 55	Datum"				Photo #	100	+ 00002	Zo	ne ID	
Easting 3	12 (3712	00	Dimensions	50 x	20 m		ation of mid m the 0 m po		No	RTH
egetation		.00		30 6						Confidence:
								EEC:	$\top$	Confidence:
	munity Type			Cet the float en	Manager of the Control	Interview (I	mental of marin	16		H M L
Democration 12	ng sama restroning mem Bhagail nal G D4 ha ba	use plot Hotels S T A	e FA plut affound on	damin's re	granio Statino	Dicky stong	redire.			
	Attribute	Sum values	BAM Attribu		m plot)	Stem Cla	HBTs †	ollows 20cm		and living
(400	m² plot) Trees	0	dbh	30 +	:00	HOITEGE	HOIS	/	Tivit	ng native non-
of "	Shrubs	0	trees for cn				/			m separately
ce Count of		7	Non Euc	50 – 9 cm			/		Dries	a creedila ili Sencie antiy
Native	Grasses etc.	1.1	30 – 49 cm			/			Looks	ere in Targe frame
Richness	Forbs	M				100	- 1			studies all agricu
	Ferns	1	20 – 29 cm		/	MB	EN1.		Dist	erconyestern Arretion
	Other		10 – 19 cm	1	/			n/a	13.00	ropinars and houseners and consiste
	Trees	0	5 – 9 cm	/			n/	/a		olicus crust be a
Sum of Cover	Shrubs	0		1			This size cla	ass recor		of the above and entirence a
of native vascular	Grasses etc.	15.9	< 5 cm					eneration		total
plants by	Forbs	4.7	Length of I				_			(Utai
growth		_	(≥10 cm diam	neter, >50 cm	AP	STA	7			
growth form group	Ferns	0	in length)	neter, >50 cm	-	SEN				
growth form group	Ferns Other	0.1	in length)	NA SE TORRES	present by In	e living free	store and M counts may be		IV SILES	towy the ground.
form group		0.1	in length)  Eath azarda  Departing 5  For a multi-s	na is notice in the Vegicul demined from	content by m on Claus, DB) only this lang	e living tree to alone and ast yang alan	stores and M counts may be any monded in	de inir	distribution	For hollows
form group	Other	0	in length)	na is notice in the Vegicul demined from	content by m on Claus, DB) only this lang	e living tree to alone and ast yang alan	ations and M cause may be	de inir	distribution	For hollows
form group High Threa	Other  t Weed cover  Aveloge  oute (1 x 1 m plots	= 18% s) Litter	in length)	na is notice in the Vegicul demined from	content by m on Claus, DB) only this lang	e living tree to alone and ast yang alan	stores and M counts may be any monded in	de inir	distribution	For hollows
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High Threa  BAM Attrib  Subp	Other  Aveloge  Little (1 x 1 m plot)  Lot score (% in exercise of the 5 subjects)	= 18% s) Litter ach) 20 15 olots 3 4	in length)  Each against the cover (%)  20 (526)  5 6 7	the is noticed in the Vegetalian the interest of the interest	a president by the con Claus, DB) and the control of the control o	e living tree However such	stome one M counts may be on your door a series counts	de taur of holow et may b	diretimati sin find si n n dead	For hostews
High Threa  BAM Attrib  Subp  Av	Other  Aveloge  Aveloge  oute (1 x 1 m plot)  lot score (% in everage of the 5 subj	= 18% s) Litter ach) 2015 olots 3 4 years of percentage 45 or aborg may made	in length) Each age ide Depending 5  cover (%) 20 (526  ground cover of inter- me Little cover into	to a motive at the vegetal form at the time at the tim	present by the continues to the continues of the continue	e living tree  H course stick  and it want of a  men. The fact  if m point lies  aranthie e an	ptome and Michael may be counted may be counted and the counted of the counted and the counted	de daur of holower may be	diventionalists of the state of	in the plat of an
High Threa  BAM Attrib  Subp  Av	Other  Aveloge  Little (1 x 1 m plot)  Lot score (% in exerage of the 5 sub)  Lot score (% in exerage of the 5 sub)	= 18% s) Litter ach) 20 15 blots 3 4 to story give read	in length) Each again the Department of the Properties of the Prop	the Astronomy and the Vergettel of the Vergettel of the Astronomy and the Astronomy and the Vergettel of the	a present by the confidence of	to fiving tree in our set of the control of the con	atoms and Michael	de tour of holow or may b er some u se some u se some u se some u se some u	distinguished by the state of t	For Indians
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BAM Attrib Subp Av Litter street the tocalion the tocalio	Other  Aveloge  Let (1 x 1 m plot)  lot score (% in ear  lot score (% in	= 18% s) Litter ach) 20 15 plots 3 4 mag percentage the natural man made they aged percentage they aged potentia f site feature Lancition Tensors Adjusts Selverity Age code  Code	in tength)  Each size in the property of the control of the contro	dock  parse  dock  parse  h 7'  trees	a present by the confidence of	to living troop to the house and wing seed wings from the seed wings from th	stome and Manag	e some per se some	und a minimum a	llayer Soil m Gon to

Date	31/10/17 Syersten Mirecurp SB01 J	5 + 0	Record	
	situation 1 and 1 and 2	- 1 0	_	
GF Code	Species name	N, E or HTE	Cover	Abun S v tratu
a	Panicum 30.1 (58-01) Wahlakaalleya Subxemphilk	7	15	1000 6
_	Eggsophila ? tubulon (50-02) Spargalaria dirandra	E	1	500
F	(cototis 7 concider (50.03) Coloto currendola	2	3	500
L	Convoluntus Telephorams 62-021	N	0.71	SES
D	Misitoria soi 1 (hairs) (saces) Dictoric diffuse	1	0:3	50
F	? (aux challa vere s. 1 (58-06) Pala comum olehan	(3V)	0:3	500
Ca	Phigitaire sign (horry) (50-05) Digetorice diffuses ?(augrophyllacene sy (58-06) Polyagorum plebu Pomicum 7 efforma (58-07) Police ace (alotis hispodala (58-08) V Maiseana enchylacenoides	N	0:11	20
F	Coletis Phisodals Yes-OSIVV	N	001	4
F	Maileana enchalaencides	N	0.1	20
_	Lation Triviales 100-091	E	001	20
F	Transferred and areas	12	0:1	20
F	Cosmula Seprine	N	O. I	20
E	Chamber of Disamenal 150 10 V	N	00.	4
6	Maisema enchylorenoides V Lohim ? rigidm (50-09) V  Triphitodiscus pygnacus (rasonia sicharima (humusyce ?dirummondii (50-10) V Austrotypn ?scaber (52-11) V ?Geodenia prinatilide	N	de O.	
E	Austration 7 scatter (c3-11) 1/2 Cooderia firmatilde	N	aso.	120
a	Chlosis timenta	N	40°	220
		E	WO.	13
	Hypocharis glabra had (8.13) Emahlde	N	no	1
F	Einadia nutari nutus	N	(0.	2
-	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		EN ON	1
E	Lypidin 50 1 (56-14) London fasicalation Villadina 50 1 (58-15) Vittadina generalis Soncias oternacios Lytido girme 50 1 (58-16) Rytidosprimo setace de Lytido girme 50 1 (58-16) Rytidosprimo setace de	N	0.1	7
_	NHO ONIE TO (88-1) Villadian gracules	E	0.1	1
^	1 1-1 Servery	7	on	1
D	Kyticlo Filme 10. 1 (Sp. 16) Mylistopelma sence	12	ON	3
P	Grode: Placegia (SB-17) VV	14	84	2
	3	-		
		-	-	
_		-	-	
		-	-	
		-	-	
		-	-	
		-	-	
		-	-	

GF Code: see Growth Form definitions in Appendix 4 (can be worked out later)

N: native, E: exotic, HTE: high threat exotic

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: For species with cover less than or equal to 5% count or estimate the number of individuals or shoots of each species within the plot using the following intervals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 500, 1000, 1500, 2000 etc. Numbers above 20 are estimates.

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form Jersinn designed September 2017

Printed 30 October 2017

		1 100	ield Surve	y Form			Site	Sheet n	o: 2nd B
		Surve	ey Name	Plot Id	entifier			Recorders	5
Dat	te 31/10/1	7 STER	STON	5B-	02	DAN	1 CL	HRKE+	- DAMES
Zone	Datum	-			Photo #	001	3+001	4 Zone	e ID
Easting	Northing		Dimensions	50 x	20	Orient	tation of m	dline	Vorth
3760	19631178	311	Dimensions	)0 1	20	fro	m the 0 m	point.	Confidence:
egetation	Class								H M L
lant Com	munity Type							EEC:	Confidence.
	og and heating trans Disapet of C D4 has as								
	Attribute	Sum values		ute (20 x 50			asses and	Hollows	Resard Bying
(400	m² plot)		dbh	E	ic*	Non Euc	HBTs †	20cm+	awaypi (Euri) ar living native roo
	Trees	0	trees for CIT	80 +			/		wuxarypi (Non Euc
	Shrubs	0	Euc* 8	50 -					Cara deeded in
Count of Native	Grasses etc.	\$9	75	9 cm		/	-		presence only.
Richness	Forbs	10	30 - 49 cm		/				for that clays
	Ferns	1	20 - 29 cm		/	Der	M		* Includes all speci of Eucorphia
	Other	1			11	BSE	) .		Carymbia -Ingus Notes
	Trees	0	10 – 19 cm	/				n/a	Leybuilding on hall
Sum of	Shrubs	6	5 – 9 cm	/				n/a	Honow must be a
Cover		0		4	-		This size o	class records	ground annances
of native vascular	Grasses etc.	3.4	< 5 cm					eneration	least Son
plants by	Forbs								
	FOIDS	2.3	Length of lo		12	cr.	-		total
growth orm group	Ferns	0.1	Length of Id (≥10 cm diame in length)		AB	SEN	T		fotal
growth	1.575		(≥10 cm diame in length)	eter, >50 cm					am goove the ground
growth orm group	Ferns	0.1	(≥10 cm diame in length)  East name class Disconning on	eter, >50 cm	Grass, DBH My Utal bryer	values and a d Piving alem	and make a	The bourses	am soove the ground a costs
growth orm group	Ferns Other	0.1 35 0	(≥10 cm diame in length)  East same class Disconning on	eter, >50 cm	Crass DBH	values and a strong atom ng holiuws	and the poor	The sources	am scove me ground comes timale For hollows
growth orm group ligh Threat	Ferns Other	0.1 35 0 4c=28%	(≥10 cm diame in length)  East same class Disconning on	eter, >50 cm	Crass DBH	values and a strong atom ng holiuws	and the poor	The sources	am scove me ground comes timale For hollows
growth orm group ligh Threat	Ferns Other Weed cover	0.1 35 0 yc=28°/0 Litter	(≥10 cm diame in length)  Length name Line Disconning on the state of	eter, >50 cm	Crass DBH	values and a strong atom ng holiuws	and the point	The sources	am scove me ground comes timale For hollows
growth orm group ligh Threat SAM Attribu	Other t Weed cover  Aveva	0.1 35 0 14c=28°/o Litter c ch) 30 20 3	(210 cm diarry in length)  Earth sub-Class Class	eter, >50 cm	o Coass, DBH only trial argue and argue entro	values and in thing teleming trollines.	and to soul	The countries	am scowe me ground comes made. For bollows
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GF Code	Species name				N, E or HTE	Cover	Abun d	S v tratu m	
#C	Mairema mic	rophylls V			7	35	500		
F	Tretilodising	pygmorey			N	04	500		
F	Changesque	pygmorey 7 Dunmondii (58	-10)		N	0-1	5		
6	Aristida 700	icanom (56	-18)		N	0.2	20		
-	Lepidiam atr	icanum	,		E	0.1	4		
F	Alternatica	3p A (SB	-19)		N	0,1	3		
F	Einadia & M	when meters	,		N	002	50		
F	Atropas	2 semi. (58-2	20/Atiplese Spinil	practor	2	0.1	20		
G	Chloris tra	incata	1		N	0.8	100		
		sub terran eum			E	0.1	6		
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GF Code: see Growth Form definitions in Appendix 4 (can be worked out later)

N: native, E: exotic, HTE: high threat exotic

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: For species with cover less than or equal to 5% count or estimate the number of individuals or shoots of each species within the plot using the following intervals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 500, 1000, 1500, 2000 etc. Numbers above 20 are estimates.

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form designed September 2017

Printed 50 October 2017

	D	AM Plot – F	ield Surve	y Form			Site	Sheet	no:	ONV D
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	Shrubs	1	trees for cm Euc* & Non Euc	50 -	-		/			recursor prov
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	Ferns		20 - 29 cm		/	1	nc o	t	0.0	cludes int speci Strategicia
	Other	1	10 – 19 cm		/	(1)	DIC	n/a	An	rymbia yoginya a
	Trees	0	10 = 19 Cm	-	/			IVa		
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Cover of native	Grasses etc.	42.2	< 5 cm	/				lass record eneration	S TIE	und, entranco : st 6501
vascular plants by growth	Forbs	2.2	Length of lo		14	1 1	1000	1		total
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AM Attribu Subple Ave  The contract of the con	Other  Weed cover  AVEVA 4  Atte (1 x 1 m plots  ot score (% in ea  rage of the 5 subp  that (2 x 5 m and 4  that assessment ray at  assessment score  ysiography +  curbance  regulations  (inc. publicular)  ge  regulations	e = 39 ° (e) Litter of ch) 30   5   lots 74 25 eraph personness of the sover the sover they had personne Larestor se Larestor	in length).  Each state of the property of the	macking the process of the process o	I as a limit language for the language f	picts local picts	Less on Alberta Land Control of the	le sides entre de la responsa de la	as military of the same of the	en the past materials of the past materials
AM Attribu Subple Ave The positions of the total of the t	Other  Weed cover  AVEVA 4  Atte (1 x 1 m plots  ot score (% in ea  rage of the 5 subp  that (2 x 5 m and 4  that assessment ray at  assessment score  ysiography +  curbance  regulations  (inc. publicular)  ge  regulations	e = 39 ° (e) Litter of ch) 30   5   lots 74 25 eraph personness of the sover the sover they had personne Larestor se Larestor	in length).  Each state of the property of the	medical processing of the proc	trace of the state	picts local picts	less on absence of the control of th	le sides entre de la contra del la	as minar mediana	en the past materials of the past materials
AM Attribu Subple Ave In recators In vin processory Some Plot Distri Clearing I Spit grossin Firewood Grazing is Fire dama Storm dan Weediness	Other  Weed cover  AVEVA 4  Atte (1 x 1 m plots  ot score (% in ea  rage of the 5 subp  that (2 x 5 m and 4  that assessment ray at  assessment score  ysiography +  curbance  regulations  (inc. publicular)  ge  regulations	e = 39 ° (c) Litter c ch) 30   5   lots 74   25 er age pertamage gi or along the and along the middle er exact the pover of they hald potential v site features Language Langu	in length)  Each wide was provided by the state of the st	medical processing of the proc	trace of the state	plots local plots	lest on Adlerman Hard Ten Marian Hard Ten Adlerman Hard Ten Adlerm	le sides entre de la responsa de la	as military of the same of the	For least revenue of the control of
AM Attribu Subple Ave The parameter of the transport Supple Ave The parameter of the transport Supple The Clearing of Cultivation Spil excess Fine dama Storm dan Weediness Other	Other  Weed cover  AVEVA 4  Atte (1 x 1 m plots  ot score (% in ea  rage of the 5 subp  that (2 x 5 m and 4  that assessment ray at  assessment score  ysiography +  curbance  regulations  (inc. publicular)  ge  regulations	e = 39 ° (e) Litter of ch) 30   5   lots 74 25 eraph personness of the sover the sover they had personne Larestor se Larestor	in length)  Each wide was provided by the state of the st	medical processing of the proc	trace of the state	plots local plots	Less on Alberta Land Control of the	le sides entre de la responsa de la	as military of the same of the	en the past materials of the past materials

_	plot: Sheet _ of _ Survey Name Plot Identifier  \$ 31/10/17 Syersten Winecomp SB 03 JS	+	Recorde		
GF Code	Species name	N, E or HTE	Cover	Abun	S v tratu
4	Panicum Sp. 1 (SB-01) Walshalleys subxerytylle	NES	WE 20	71000	
_	Mairenna murophylla	N	10	100	
F	Champersuce Idimmondii (38-10)	1)	0.1	20	
F	Sturtus minata (826) S. menless	N	0-2	500	
F	Mairema enchylenoides	OZIN	0-1	10	
G	Azzt Aristida sp. 1 (58-29) Aristida bentharin	* M	20	71000	
_	Hypochaein Jabra	E	0.1	20	
E	Cheilantles Usith, sizh.	N	2	loco	
a	Chlory timenty	N	0.3	50	
D	Digitara po (38-05) Digitara diffusa	N	0.7		
F	Oxiliz sevenins (B-21)	N	0-1	10	
	Trophilodolas pyraeus	N	01	50	
F	Alternation Sp. 10 (58-17)	N	0.1	2	
F	Plantage debits turities	14	0.1	5	
a		N	0.5	50	
_	Enteropogon acicalvis Souther operations	E	0.2	20	
_	Conyes sip. (58-38) Conyes benarions	E	0.2	So	
6	Austrestipe 2 sealors (SB-11)	N	0.3	50	
5	Mustestipe general (2011)	N	0.2	50	
F	Ryhdorpone Sp Z (SB-ZI) Retulación solulu		0-1	2	
	\$ Vittedina so 2 (58-30) Vittedine cervilais	E	0.1	20	
-	agosphin Hubridosa (SB-62) Spargularia diandras	N	0.1	10	
FF	Calotis? (une folks (58-03))	N	0-1	1	
5	Vittadinia sp. 3 (SB-31) Vittadinia amores s		2	5	
_	Acucia Taspera (58-32) Handa Imenta	N	0.1	7	
C	Elymus Sp. 1 (SB-33) Elymus scalota	N	0.1	10	
_	Valpia myuva, J. negatura	E	0.1		
-	Centaurum tenuftenum	-	0.1	on 3	
F	Bulline semborbata	N	0-1	-	
F	Atriples remiberta (58-20) A. spinibractic	N	0 1		
E					-
F	Vitadinia ve. (SB-15) Wittedinia gracules	N	0 1	3	
_	Julgia muralis	E	0.1	1	
a	Engrastes 91 (58-34) Eragisate lugar	1410	0.1	10	
F	Xeiochsysum bredging	N	0.1		
F	Sprendry Venoport" (SB-35) Dysphania glomerally	- 1/	01	20	-
F	Crussala sieberane	N	0.1	3	
F	Actinoble Mignosim (58-36)	N	0-1	10	
F	Wahlen be 519 Sp. (SB-37) Wgrachenga	N	0.1		
F	Rhadom the sp   (SB-38 Rantem word	N	0.1	20	
F	de: see Growth Form definitions in Appendix 4 (can be worked out later)  N: na	tive, E: exc	0.1		

GF Code: see Growth Form definitions in Appendix 4 (can be worked out later)

N: native, E: exotic, HTE: high threat exotic

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: For species with cover less than or equal to 5% count or estimate the number of individuals or shoots of each species within the plot using the following intervals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 500, 1000, 1500, 2000 etc. Numbers above 20 are estimates.

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form Version innegried Seinember 2017

Printed All October 2017

	D	AM Plot – F	ield Survey Fo	orm	5	ite Sheet r	10:
		Surve	y Name F	Plot Identifier		Recorder	s
Dat	te 31/10/	17 GTER	STON S	B-04	DAN (	LARKE	1 JAMES
55	Datum	110101		Photo#	32+3		ne ID
Easting	Northing	12	Dimensions 5	0×20	Orientation from the	of midline 0 m point.	JORTH
egetation	Class				non the	o in point.	Confidence:
	munity Type	-				EEC:	H M L Confidence:
		Inia niot marker. It as	plaible eniral print to	that embadde up yo	rda súmio disentido.		H M L
			PA plot should be resent		taken along missin		
	Attribute m² plot)	Sum values	BAM Attribute (2)	0 x 50 m plot)	Non Eug HB	/	Record flying enemypt' (Ener) in
(1122	Trees	0	larga 80 +	Luc	11011 200	/	living native non-
	Shrubs	1	trees for cm Euc* & Non Euc 50 -		- X	4	Stems Separating
Count of	Grasses etc.	9	79 cm			0	Digital mustaket ett pressender tenty
Native Richness	Forbs	18	30 – 49 cm	Absent	11	Ke.	To that stone
	Ferns	i	20 – 29 cm	1	) Uto	NO CO	of Eucolopia;
	Other		10 – 19 cm		2+	n/a	- Caryentia Angophoriu
	Trees	0	10 - 19 Cm		Jul 500	1110	- Synampia
Sum of	Shrubs	3	5 – 9 cm	/ Note	5 pelow	n/a	Hollow most be a least fire above
Cover of native vascular	Grasses etc.	26.3	< 5 cm	/		size class records ee regeneration	ground antivipos a loani Sem
plants by growth	Forbs	2.3	Length of legs (n	n) //	. 1		total
orm group	Ferns	0.4	(≥10 cm djameter, >: in length)	50 cm 75	sent.		
	Other	4	Each are chief in po Depending on the Vi	oled an present by the maintaken Class, Dan	tiving tree stams values and country	your Internativen or your tip reported for	i im solve tris ground a tilest
		^	Fee a multi-atemnia	new of a slam portain			stimula For Notlows
High Threa	Weed cover	U					
High Threat	2	35-	O when the power way	of free or controllers	in Thi I direction	and appear count are a	(4) 1601
Verage :	= 34 % ute (1 x 1 m plots	) Litter c	over over	n sund postalents	Cuprum-	regulation only the o	The same of the sa
VEVAGE : BAM Attrib	= 34 % ute (1 x 1 m plots ot score (% in ea	ch) 30 25 2	0 40 70	g synd post (f)	Cuprings	regulation only the o	AND SECTION
BAM Attrib	ute (1 x 1 m plots ot score (% in ea	ch) 30 25 2 lots 75 36 3	0 % 70 57 36 59		Supremo	formule sides and	S or from the piol modes
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Polical Control of the Land Control of the Lan	ute (1 x 1 m plots ot score (% in earning of the 5 subp a casessed as the earning stressors may a casessors may a casessors may a sassors may a casessors may a substanting the stressors may a sassors may a sassor may a	ch) Litter c ch) 30 25 2 lots 35 3 3 2 redge percentage gr redge gr	over 10 mm	po zuren perin (f.) pozuren perin (f.) pozuren perin (f.) pozuren senze kwips br poyologan soa musis magin destermining Landeren Patiern	in past trade) on past trade and tra	domain sides addesses the man 10 control of	5 or from the plot modern or in diameter. Whose to me total or only currently manuary PCT stessmillor
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BAM Attribution of the control of th	ute (1 x 1 m plots ot score (% in earlier ge of the 5 subp reasons	ch Litter c ch 20 25 2 lots 75 3 2 lots 75	Over 20 Common Cover of the County of the Co	District from the attention of the atten	por boate) and training grad grad training g	Interview action and the second and	5 or from the plat modes or or districted When the me state or not currently manage PCT description Zone (optional)
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Plot Dist Cleaning   Cultivator Soile residence City and	ute (1 x 1 m plots ot score (% in easerage of the 5 subp of seasons as the analysis of seasons are seasons and seasons are sea	Litter c ch) 30 25 2 lots 75 3 2 lots 75 3 2 series being the middle so record the opera they had principle get they had principle get so record the opera they had principle get so record the opera they had principle go series they had principle go surface they had principle go surface they had principle go surface to the code of the code o	Over 12 Common C	District from the attention of the atten	por boate) and training grad grad training g	Identifies a disconnection of the second of	5 or from the plat modes or or districted When the me state or not currently manage PCT description Zone (optional)

100 m <sup>2</sup>	plot: Sheet _ of _		Plot Identifier		Recorde	ers		
Date	31/10/17	Syevsten Munec-	p 5804	JS + DC				
GF Code	Species name			N, E or HTE	Cover	Abun d	S v tratu m	
G	Aristida se	1 (829) Hrish	de berthami	NA	10	1000		
C	Maisema mi	crophyla		NA	4	50		
a	ganican co	(SB-01) Wa	Whalleya subs	veraphyles	2	100		
_	hypsophila ?!	fublish (SB-C	2) Sperantaine d	undous II	0.5	(00)		
F	Trofilodycus	pyganen	, 1 3	N	0.5	100		
_	Hy pochaeris	d 1.010m		E	0.2	20		
C	Eragresty .	Sp. (SB-34)E	rag lacunaria	N	0.2	50		
F	Corlogos Temes	folks (SB-03)	•	N	0-1	10		
4	Entergagin	acticlas		N	10	1000		
E	Cheil molles	sieh sielo.		N	0.4	50		
F	Rholanthe &	1 (SB-38)R	contentuoides	N	0-1	20		
F	Crassila si	eberona		N	0.1	10		
_		es t. negalin	9	8	0/	10		
9		(SB-33) Ely		N	6.1	5		
F	( hamaesuse	Idmmondia (58	(0)	N		20		
_	(curza ) 50	à (5B-38) C	mesa bunarien		0-1			
D		· 1 (58-05) D.		N	0.8	50		
F	Oxidis perren	m) (58-22)	Dank Jan	S N	01	7		
F	Bulbine sem	cheshals	O cue les Children	N	0.1	2		
a	Sentidogovani	n 9p 4 (58	- 39 Rt Jaloure 1	tour N	0.1	20		
_	Souches old	and the contract	2 1 Hollmoterna 2	E	0.1	5		
F	Charles 71	amata (SB-ZE	14.4		0.1	10		
F	Maria 1	inchylaencides /	Ica And	N N	0.1	10		
_		all senong	(30-40)	E	0.1	10		
F	Talelliam.	when nutas			0.1	5		
a	Chloris xime			N	3	500		
_	Centancina	No. Hora		A E	0.1			
F	All a lease	10/10/10	Alternanther so sp	H	0.1	4		
-	Alle	(SB-20) At	spinylored	eg. N	0.1	10		
	THIPIEX 150	(55.00)	ichex seminar	Ta N	0.1	1		
-	Tipolium a	Delige			0.1	1		
E	Plantago del	pure la les		N	0.1	8		
F	Trantengo del	any tumous	1		0.1			
	by hode sporms	10 2 (58-21	Nott 1	M		-		
_	1 ghidosporn	7 5 (S8 A	1) Ratidop = set		01			
F	Wallenbugis	1 AC (SB-37	W. gracilento	N	0.1	2		
_	Polycapen +	Graphyllun	W 1	E	0.1	-		
F	Yithadinia of	(SB-30)V	Madinia Cario	dais N	0.1			
S	Accord 1954	va (58-32)HC			3	4		
C	Austrostipa	15cadora (58-11)	)4	N	0.1	2		
F	Portulaca	finitions in Appendix 4 (can be		N: native, E: ex	0.1			

GF Code: see Growth Form definitions in Appendix 4 (can be worked out later)

N: native, E: exotic, HTE: high threat exotic

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ....100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: For species with cover less than or equal to 5% count or estimate the number of individuals or shoots of each species within the plot using the following intervals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 500, 1000, 1500, 2000 etc. Numbers above 20 are estimates.

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form sension designed September 2017

Printed 30 October 2017

400 m <sup>2</sup> plot: Sheet	_ of _	Survey Name	Plot Identifier	Recorders
Date 31/10/	7	Syerston Mirecomp	SB04	JS + PC

GF Code	Species name	N, E or HTE	Cover	Abun d	S v tratu m
F	Cofula australis	7	0.1	\	
			•	•	
					<u>i</u>
<u> </u>			i		
					-
1					—— <del> </del>
		v	:		
		i	1	<del>i</del>	
					i
			~		
		***************************************			
			,		
OF Code					

GF Code: see Growth Form definitions in Appendix 4 (can be worked out later)

N: native, E: exotic, HTE: high threat exotic

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: For species with cover less than or equal to 5% count or estimate the number of individuals or shoots of each species within the plot using the following intervals: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 50, 100, 500, 1000, 1500, 2000 etc. Numbers above 20 are estimates.

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Four version designed September 2017

Printed 30 October 2017

		Survey Name	Plot Identifier		Red	orders	
Date	27/11/17	Syerston mine 2	SB05		TOIJS		
Zone	Datum			Photo #	15	Zone ID	
Easting	Northing	Dimensions	Dimensions Orientation of mid				
/egetation C	lass						Confidence H M L
Plant Community Type					E	EC:	Confidence

	Attribute m² plot)	Sum values
	Trees	0
	Shrubs	0
Count of Native	Grasses etc.	5
Richness	Forbs	14
	Ferns	0
	Other	1
	Trees	0
Sum of Cover	Shrubs	0
of native	Grasses etc.	10.9
plants by	Forbs	4.9
growth form group	Ferns	0
	Other	03
High Threat	Weed cover	0

BAM Attribute (20	x 50 m plot)	Stem Cl	asses and h	lollows	Recard living
dbh	Euc*	Non Euc	Hollows†	20cm+	nuclarypt (Euch and
large 80 + trees for cm Euc* 8					living native non- nucalypt (Non Euc) stoms separately
Non Euc 50 – 79 cm					Data released to prosperce unity unities a large been
30 – 49 cm					to that steen
20 – 29 cm					organies an Aprileo of Endownfull Corymole
10 – 19 cm				n/a	Laphbarrannin ind
5 – 9 cm			'n	/a	Record stress by
< 5 cm				ass records	realizers, (including dead stems/trems)
Length of logs (m (≥10 cm diameter, >5 in length)					total

Each size cases in spelid as present by the fiving the stems only. Minibured at 1 Dre Miniburette proud Depending on the Vegetation Dates. DRM values and counts may be medical for a 1985. For a multi-stemment tree, any the largest lead stand or including a my constructions. For leadings count only the personne of a stem continuing hidden, not the South of millions in that case. Day struct as

BAM Attribute (1 x 1 m plots)	Litter cover (%)	Report from more	- 50			- 11						
Subplot score (% in each)	35 20 15 35 20		0	0	0	Ö	0	0	0	0	ò	0
Average of the 5 subplots	25											

Littler cover of applications at the everage percentage ground cover or interneumber from him in mix 1 him prior located or internal sales and 5 in from the pot mature at the locations 0.15 25 35 and 46 in along this modifie. User cover includes larger, seems longs, transcribes and purchase little flatal to term a parameter of the cover of rock, dare ground and crystagen are cruste. Consistent of these state is opening. We date do not numerity constitute to extensive scores they have provided by the exception of these state in opening. We date do not numerity constitute to extensive scores they have seed to be form the experiment of the extensive attributes and benchmarks, and to enhancing PGT description.

Physiography	+ site features that may	help in determining PCT a	and Management Zone (optional)
Мегопенадан	Landerm	Equipment Parties	
Limingy	Syll Surface Testure		
Stocel			DIMENS NO VENASSE WARD STOLEN

Plot Disturbance	Seventy	Age
Clearing (inc. logging)		
Cultivation (inc. pasture)	1	
Soil e/osion		
Firewood / CWD tempysi		
Grazing result has been		
Fire damagii		
Storm damagu		
Weediness		
Other		

Previously eropped (within 2 years). Also recently grazed although no stock attime of survey.

Savarily Dryo yearness Tright 2-microsub-3 research

Agric Marrier 1 Tyr. Mr. - 1 (Bossil (3-10y s)) Orold (3-10yrs)

Torm version designed September 2017

Printed 23 November 2017

0 m² plot: Sheet _ of _ Survey Name Plot Identifier  Date 27/11/17 Syranda Ministry 2805 JS	+ 70	Recorde	15	_	$\overline{}$
vale of full for the post of t	7 70				_
GF Top 3 native species in each growth form group: Full species name mandatory ode All other native and exotic species: Full species name where practicable	N, E or HTE	Cover	Abun d	stratu	vouch er
(a) Paricum go. 1 (? Walwhallern sub of exophola	N	10	71000	6	585-1
O Calotis currifolia	N	3	500	Q	
a Eragrostis Magnaria	N	0.2	20	6	SBS-
P) Spergalais dimova	RIE	0.7	500	6	
L Juneus filicantie	N	0.2	20	4	
F Einadin hutany nutary	N	0.1	5	4	
a Digitain differ ? bouni Digitaria amouphula	N	0.3	50	4	SBS
F Dysplain gloralifera	12	0.1	10	G	
4 Chlore, truscala	N	0.2	20	4	
E In I I I I I I I I	N	0.2		4	585.
a Lolium sigiam	E	0.1	7	G	
+ (cashla siebeima	N	0.1	10	4	
E Sturing Mulleri	IN	0.1	3	G	
1	N	0.1	2	6	
11 1	N	0.1	6	4	
	N	0.2	20	4	-
to G Papicum effection		450.	_	5	585-
F Duphrum Promitio	N	0.1	20	ç	300
773	N	0.1	2	9	
3000000	E	0.1	3	G	1
a Avena Jahner		0.	-		+
+ Wahlen begin gracilents	N	0-1	2	Q	1
F Atiplex spinibiacter	N		2	Q	-
F Anagallia Rumas	E	0.1	2	G	5B5.
& acothin pinne tifine	N	0.1	1	9	353.
& Oichardra . I repens	-	-	1		
L Conseiveles emboscers	N	0.1	-,1	a	
	-				
				-	-
			ircle co	1	

GF Code: see Growth Form definitions in Appendix 4 N: native, E: exotic, HTE: high threat exotic GF – circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m.

Abundance: 1, 2, 3, ..., 10, 20, 30, ..., 1000, 200, ..., 1000, ....

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Firm variable dissigned September 2017. Printed 23 Nevember 2017.

		SAM Plot -	Field Survey	Form			Site	She	et no:	
		Sun	vey Name	Plot Id	entifier			Reco	rders	
Dat	te 28/11/1	Syerit	on Mine 2	SBO	6	7	5 × JS	,		
Zone	Datum	IBRA reg			Photo#	175 18 N		T	Zone ID	
Easting	Northing		Dimensions			Orien	tation of mi			-
	2000		Dillionorio			fro	m the 0 m p	oint.		Confidence
egetation	Class									H M L
lant Com	munity Type							EE	C:	Confidence:
Record east	ny and mining har	r tite plat ment en 17	applicable brieflings	el let tel les	totales no se	ro sonj s	orano al mo	W.		
	Shapey of 0.54 he i	ide policiale J 1	a FA plot should be	lensted mic		Distance of the same				
	Attribute	Sum values	BAM Attribut				asses and I		300	rcord fiving
(400	m² plot)	y and takes	dbh	E	ic.	Non Euc	Hollows <sup>1</sup>	200	0.0	colypt" (IDvc 1-
	Trees	1	trees for cm	)+					-0.0	calypt (Non Eu
	Shrubs	1	Euc* &	0 -	-		-			woll furbanalisty
Count of	Grasses etc.	q	79							ta resolut o- likerse only.
Native		0	30 – 49 cm	1111			IHT IHT		(10)	lists a larger to from comins
Richness	Forbs	8	30 - 49 CIN				411			
	Ferns	0	20 – 29 cm	11					107	
	Other	434								
	Trees	2.0	10 – 19 cm					n		e/18/mon an
		20	5 – 9 cm		1		n	/a		blood stems to
Sum of Cover	Shrubs	0.1		-			-		- 50	se class with
of native vascular	Grasses etc.	7-7	< 5 cm				This size of tree reg			flows (hishatin
plants by	Forbs	0.9	Length of log	gs (m)						total
growth orm group	Ferns	6	(≥10 cm diamet in length)						<	86 m
onin group	rema	0	in length)							
		11 .	The second second second second			The same and				
	Other	4.1	Depending on t	N Vilgelinio		VARIABLE BUILD	churiu may te	- magn	ed for a case	a.
High Threa	Other	4.1	Depending prof.	Ny Virginiano romad trea		VARIANT MICH	espunta may te n lis metuches in	ine or	ng hio a tima silostoralisma	e For Bollows
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From virgion designed September 2017

400 111	plot: Sheet _ of _	Survey Name	Plot Identifier			Recorde	rs		_
Date	28/11/17	Syeveton benery	SB06	Jos	+	T-0			
GF Code	Top 3 native specie All other native and	s in each growth form group exotic species: Full species	: Full species name mai name where practicabl	ndatory e	N, E or HTE	Cover	Abun	stratu	vouch
) Tray	Fucalyphus	Vividis			N	20	2	U	
Riall	Juneus	avidice 19			N	3	100	G	
9	Paspalidium	gracie			N	0-2		9	
and well		ersa			N	0.9	50	9	
1	M .	perenal			N	0.1	3	G	
F	Runer	procesi'			N	0.1	5	4	
F	Dichendra	Moen			~	0.2	100	9	
E	Plan Lago	3 debilis			N	0.1	20	4	586
F	. 0				2	0.1	7	a	-
	Lolin 13	0			E	0-1	1	G	
1	Olderis 1	1			N	1	Soo	4	
A	- 1	trucate			N	3	1000	G	
9	Enteropagon	actualy				01	5	C.	
1 3 D V	(years	5PP.			17	0-1	3	a	-
1	Mairena	microphy		_	2	0.8	100	5	
	Austrostyra	Scapra				0.0	1	-	-
F		pin bractcata			N	-		5	-
G	Alistida	ranosa			N	0.2	50	4	-
41	Rytidosperna	50 2 SB8.	- 1		N	0.2	50	9	-
PF	Alternate	a op. A			N	0-1	2	9	-
S	Solanim	terrocissimum	1.9		N	6-1	1	4	-
4	Walnuth		prila		N	0.2		4	-
6	Elynnis	Scalow			N	0.1	1	5	-
E	Alterna fler	a denticulata			N	0.1	-	6	
(C)	Both solde	decip decip			~	2	1000	9	-
					-	-			
									F

GF Code: see Growth Form definitions in Appendix 4 N: native, E: exotic, HTE: high threat exotic GF – circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: 1, 2, 3, ..., 10, 20, 30, ..., 100, 200, ..., 1000, ...

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Printed 23 November 2017

	В	AM Plot - F	ield Survey	Form			Site S	She	et no	;
			y Name	Plot Ide	entifier		F	Reco	rders	
Dat	te 28/11/17	Syersto	n Mine 2:	SBO	7	T	osJ.	5		
Zone	Datum	IBRA regio	on		Photo#	235			Zone	ID
Easting	Northing		Dimensions			Orient	tation of mid m the 0 m p			
Vegetation	Class									Confidence:
Plant Com	munity Type							EE	C:	Confidence:
	Attribute m² plot)	Sum values	BAM Attribute	(20 x 50 n	n plot)	Stem Cla	asses and H	ollow	/8	Record-Balon
		Sum values		for n or	- proof		anden mile i			Person Holow
(400			dbh	Eu	c*	Non Euc	Hollows <sup>†</sup>	200	m+	eucalypt" (Election
(400	Trees	0	large 80 trees for cm	1	c*	Non Euc	Hollows†	200	m+	eucalypt (Elect) as living native non- supplypt (Non-Elec-
	Trees	0	large 80 trees for cm Euc* 8		c*	Non Euc	Hollows <sup>†</sup>	200	m+	eucalypt" (Elect or living native non-
Count of Native	Trees	8	large 80 frees for cm Euc 8 Non Euc 50 79 cm		c*	Non Euc	Hollows†	200	m+	eucalypt (Euc.) ar living native con- sucalypt (Mon Euc. stofnik separately
Count of	Trees		large 80 trees for cm Euc* 8		c*	Non Euc	Hollows <sup>†</sup>	200	m+	eucalypt (Euc.) as living native num- sucalypt (Non Euc. sloths separately Data needed e- produces only unless a large had for that class.
Count of Native	Trees Shrubs Grasses etc.	8 12	large 80 frees for cm Euc 8 Non Euc 50 79 cm		c*	Non Euc	Hollows†	200	m+	eucalypt" (Elic") at living nattive num- suitalypt (Mon Euc. stomb separately Data needlast e- presence striy unitess a flarge has for that class.  "includes all space of flaces interest
Count of Native	Trees Shrubs Grasses etc. Forbs	8	large 80 4 trees for cm Euc* \$ 50 79 cm 30 - 49 cm 20 - 29 cm		c*	Non Euc	Hollows†			eucalypt" (Elic") at living ristive rum sucalypt (Non Euc stamb separately Data needlast e- prosence swity unless at large that for that clause "includes all apaci of Eurolyptica Casymona.
Count of Native	Trees Shrubs Grasses etc. Forbs Ferms	8 12 1	large treas for crm Euc* 8 Non Euc 50 79 cr 30 - 49 cm 20 - 29 cm 10 - 19 cm		c*	Non Euc	Hollows†		/a	eucalypt" (Elic") at living rhative num- sucalypt (Phon Elic sterns separately Data neistled c- processor smith unites a "large than for that class." " includes all apaci of filtural influe Copyridue.
Count of Native Richness	Trees Shrubs Grasses etc. Forbs Ferns Other	8 12 1 2	large 80 4 trees for cm Euc* \$ 50 79 cm 30 - 49 cm 20 - 29 cm		c*	Non Euc	Hollows†	n		eucalypt" (Elic") at living rhative num- suitarity (Non-Elic Supraided Separately). Data neested o- produced some simple interest of the class.  "includes all apparately of fluority fluority fluorit
Count of Native Richness	Trees Shrubs Grasses etc. Forbs Ferns Other Trees	8 12 1 2 0	large treas for crm Euc* 8 Non Euc 50 79 cr 30 - 49 cm 20 - 29 cm 10 - 19 cm		c*	Non Euc		n /a	/a	eucalypt* (Elec*) at living fattive nurs suitalypt (Mon Elec*) suitalypt (Mon Elec*) by the suitalypt (
Count of Native Richness Sum of Cover of native vascular plants by	Trees Shrubs Grasses etc. Forbs Ferns Other Trees Shrubs	8 12 1 2 0 0	large trees for cm Euc' 3 50 79 cm 30 – 49 cm 20 – 29 cm 10 – 19 cm 5 – 9 cm Length of logs	(m)	c*	Non Euc	n/ This size cli	n /a	/a	eucalight (Elect) at living flatting under suitable for the superior suitable separately. Data deserted a presence analy unless a large flat for that class.  Includes all appared flat flate flatting and flatting and flatting flatting and flatting and flatting flatting and flatting flatting and flatting flatting flatting and flatting
Count of Native Richness  Sum of Cover of native vascular	Trees Shrubs Grasses etc. Forbs Ferns Other Trees Shrubs Grasses etc.	8 12 1 2 0	large treas for crm Euc* \$ Non Euc 50 79 cr  30 - 49 cm  20 - 29 cm  10 - 19 cm  5 - 9 cm	(m)	o*	Non Euc	n/ This size cli	n /a	/a	eucalypt* (Elec*) at living flattion are suitably (Mon Elec*) as suitably (Mon Elec*). Data deserted a presence analy unitess a large flat for that class.  * includes all apparation of fluorithms. Carymona. Anapopose. Legitlaterion and Syncarina.  * Resource are suitable and Syncarina.  * Resource are suitable and by suitable and stems try suitable and attems try suitable and attems try and attems troops.

BAM Attribute (1 x 1 m plots)				er (%)							-					-			
Subplot score (% in each)	15	15	35	10 31	3	ŠO	10	20	5	30	10	10	5	10	0	00	) (	00	0
Average of the 5 subplots	7	2	D																

Utility cover or assessed as the investigal percentage ground cover of little resoluted from their if min in min the location on alternative since and it is not the locations 5.7 (2.25). It is, and it is making the midding utility object recorded leaves, large breachings and transfers used on in 10 cm is disampled. Within these if min is not public assesses, may see record the power of ones, care ground and only proper section through our of these rate is operative into data of one purpose into a proper section.

Morphwip (1) A Type Limited		Carefore Enrect Sel Si maca Testra		
300		Model	Great Drawings	Continue to represent points and type
Plot Disturbance	Seventy	Age	Free Text Section f	or brief site description
Cleaning line logging.			11 1 -	1
			Grown deave h	/.
Selement			Grown Deores h	eigh 1-3 cm
Frewood CWD removal			7.	3
Grazing i state	1	Sheep		
Fire damage				
Storm damage				
Weediness				
191				

tion designed September 2017

Printed 23 Navember 2017

Date	28 11/17	Survey Name	2 5807	JS	+ 10	Recorde			
Dute	20 11117	Dealer Pares 1	207	100	7 15				
GF Code	Top 3 native species All other native and e	in each growth form gro exotic species: Full speci	up: Full species name mandes name where practicable	datory	N, E or HTE	Cover	Abun d	stratu m	youch
(2)	Chloro ku	renta			N	15	>1000	4	
2	Austratipa se				N	0.7	100	6	
4)		Mamil			N	1	100	G	
4		wini			N	0.2	50	L	SPS
6		a Tragus aus	traliants		N	0.1	10	G	-6
F	A .	tog V			N	0-1	2	G	
F	111	ngata			N	0.5	500	_	
F	Tripfilodocus	Doggmacin			N	0.2	100		
6	Panicum effor				N	0.1	20	4	
		sieb sieb.			N	0.1	20	0	
6	Vulora mune				E	0.1	3	9	
Le	Convolvulus	erubescens			N	0.1	4	6	
F		levar eun			E	0.1	5	4	
F	Oichondra	repens			NO	0.3	ioo	C.	
F		diammendi			N	0.1	20	1	
F	Car lignus la				E	0.3	20	2	
E		nns			N	0-1	1	6	
	Atriphex &				N	0.1	7	G	
E	Austration			-	2	0.1	20	C	
6	Alternan Kera				N	0.1	7	4	
F	Solarka es				N	0.1	3	G	
Č	Mairema a				N		養4	-	
F	Vitterduces Sp				N	6-1	等件	9	583
F				_	N	0.1	1	6	200
	Mairena	sentoatriche				0-1			
6	Eriochloa p	111			N	0-1	10	4	
6	Wahlen be gra	rty Wa			2	0-1		4	
I	Warmen de zon	(onnen s			12	0 - 1	1	4	
							1		

GF Code: see Growth Form definitions in Appendix 4 N: native, E: exotic, HTE: high threat exotic

GF - circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...,100% (foliage cover): Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: 1, 2, 3, ..., 10, 20, 30, ..., 100, 200, ..., 1000, ...

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Printed 23 November 2017

	BAN	Plot - Field Surve	y Form		Site She	et no:	
		Survey Name	Plot Id	entifier	Reco	orders	
Date	28/11/17	Syerston mme2	SBO	8	TORJS		
Zone	Datum	III/S A Propose		Photo #	13 SE 14 NW	Zone ID	
Easting	Northing	Dimensions			Orientation of midline from the 0 m point.		
Vegetation C	lass						Confidence:
Plant Commi	unity Type				E	C:	Confidence:

Record easting and northing from the plot marker. If applicable, orient picket so that perforated rip points along swection of midline. Olimphisms (Shape) of 0.04 his basis plot inside 0.1 ha FA plot should be identified, magnetic bearing taken along midline.

	Attribute m² plot)	Sum values
	Trees	0
	Shrubs	0
Count of	Grasses etc.	12
Native Richness	Forbs	26
	Ferns	0
	Other	7
	Trees	0
Sum of Cover	Shrubs	0
of native	Grasses etc.	9-4
plants by	Forbs	5.8
growth form group	Ferns	0
	Other	5.5
High Threat	Weed cover	0

BAM Attribute (20	x 50 m plot)	Stem Cl	asses and h	Hollows	Record living
dbh	Euc*	Non Euc	HBTs <sup>†</sup>	20cm+	eucalypt* (Euc*) and
large 80 + trees for cm Euc* 8					living native non- eucalypt (Non Euc) stems separately
Non Euc 50 – 79 cm					Data needed is presence only unless a large tree:
30 – 49 cm					for that class
20 – 29 cm					* Includes all species of Eucalyptus. Corymbia.
10 – 19 cm				n/a	Angophora, Lophosterion and Syncarpis
5 – 9 cm			n	n/a	. Hollow must be at least 1m above
< 5 cm				lass records eneration	ground, entrance at least 5cm
Length of logs (m (≥10 cm diameter, >5 in length)					total

Each size class is noted as present by the living tree stoms only. Measured at 1.3m above the ground Depending on the Vegetation Class. DBH values and counts may be needed for a class.

First a multi-stammed tree only the largest living stam is mouded in the count estimate. For bollows count only the presence of a stem containing hollows, not the count of hollows in that stem. Only count at 1 stem per tree where tree is multi-stemmed. The hollow-bearing stem may be a dead stem.

BAM Attribute (1 x 1 m plots)	Litter cover (%)						Bare ground cover (%)					Gr	Rock caves (%)								
Subplot score (% in each)	60	3	U	50	45	20						0	0	0	0	0	0	0	0	0	0
Average of the 5 subplots	0	40	3																		

Little pover in assessed as the average percentage ground cover of litter recorded from five 1 m x 1 m picts iccared on afternate sites and 5 m from the pict midline at the locations 5, 15, 25, 35, and 45 m along the midline. Litter cover includes leaves, seeds, twigs, branchiets and branches (less than 10 cm in diameter). Within these 1 m x 1 m picts assessors may also record the cover of rock, bare ground and displagam son crusts. Collection of these data to optional - the data do not correctly.

Physiography + site features that may help in determining PCT and Management Zone (optional)

Iorphological (period of the property of the pro

Plot Disturbance	Severity	Age
Clearing (inc. logging)		
Cultivation (inc. pasture)		
Soil erosion		
Firewood / CWD removal		
Grazing (rountly national)		
Fire damage.		
Storm damage		
Weediness		
Other		

Erosion gully out side and NE of plots

eventy 0=nolevidence 1-sight 2=moderate 3=severe Age R=recent [+3yrs], NR=not recent (3-10yrs), O=old [+10yrs]

Form version designed September 2017

Printed 26 November 2017

	olot: Sheet _ of _	Survey Name	Plot Identifier	-	2 -	Recorde	ers		
Date	28/11/17	Syesten Mine anyo 2	5808	1	5 + 7	0			
GF Code	Top 3 native species All other native and e	in each growth form group, xotic species: Full species	: Full species name mand name where practicable	atory	N, E or HTE	Cover	Abun	stratu	vouch
(2)	Maiseng "	wicoophylia			N	3	50	C	
(4)	et i	cate			N	4	1000	4	
4	Chamaesyce	diameondi.			N	0.8	500	G	
F	Postullaca	oleraces			N	0-1	8	G	
F	Aliples spin	posetante			N	0-1	10	a	
F	Oxaliz perren	-			N	0.1	100	a	
	The state of the s	2 (588-2)	Uttaline cons	to	N	0.1	20	G	
F	Trife hum Su	( )	THORE SALES		\$E	0-2	50	9	
F	Tabularas	Lajany Tregns	· austalianas		N	-	500	4	
F	Emadia meta	ac netars			N	0.3	20	4	
	Lepidinum africa				B, E	1	500	9	
(a)	1	ciculars			N	3	1000	4.	
¥		Jandra			ME	Ĭ	500	4	
F	Al Harran Hera	Sp. A			N	0.2	20	4	
FG	Rytidospena	Ep. 2 (88-1)			N	0.3	So	G	983-
Ŧ	1 -1 11	alendula			Ē	0.1	20	4	20
ne t		vu Coscini			2	0.1	20	4	
F		overston			E	0.3	50	4	
100	Dichardra	repens			N		500	9	
	01 /	vitera			N	0-1	3	9	
- 0	0 10	aulis			N	2	1000	-	
T	2	ctulon			N	0.2	20	4	
F	Dysplania	pumilio			N	0.3	100	4	
F	011	calis			N	0-1	A	4	
I	- 1				E	0.9	100	5	
84		utaginen			N	0-1	8		
	n 1	emini			2	0.1	20	6	
F	0:1	1			2	0.2	20	6	
_	_	John Hmy			E	0:1	8	6	
F	Lower bran				N	0.1	10	4	
	0 4 1 1				-	0.3	50	6	
	2	ecip decip -	11		2 2		20	6	\$35
	Tribulus mice	(Spare	1			0-1	10	-	400
					N	0.1		6	-
4	ci i i	relie				0-1	1	9	
F.0	1 1	sich sich	Weg		2	0.1	20	6	
1	Chelintes	Nomen ( SAS &	17		N	0.1	4		1.
4	Digitaria sa		E) ammaphila		N	0.3	50	6	SBS
F		choland			N	0-1	5	G	
4		eposition 1			ME	0.1	3	C	
F	Alternantera	dentimelata			EN	0-1	8	4	

GF Code: see Growth Form definitions in Appendix 4 N: native, E: exotic, HTE: high threat exotic GF - circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, 1, 2, 3, 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: 1, 2, 3, 10, 20, 30, 100, 200, 1000, ...

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form varion designed September 2017 Printed 23 November 2017

Survey Name

400 m² plot: Sheet

of

Recorders

GF Code	Top 3 native species in each growth form group: Full species name mandatory All other native and exotic species: Full species name where practicable	N, E or HTE	Cover	Abun d	stratu m	vouch er
9	Elyany Scalar	N	0.1	1	a	
5	Scherolaena muricata	~	0.1	1	4	
F	Triphilodisives pyginaeus	N	0.1	5	9	
F	Malya pulitara	E	0.1	10	9	
C	Austrostipa Scalare	N	0.1	5	6	
F	Alterranthing purgery	E	0.1	6	G	
4	Lolium 115 dun	E	0.1	10	9	
=	Lythian sp. 1 Lathrens haspitalin (Sp8-3)	N	0-2	20	9	SB3-
F	Hypacheeis ghabe	E	0-1	5	4	
F	Sonchus deraceurs	E	0-1	4	G	
9	Pagantidium gracile	N	0-1	4	C	
F	lalotis andeijolia	~	0.2	20	4	
F	Congra spe	E	0.1	2	4	
F.	Centipeda conningtanii	~	0-1	1	4	
171	Joneur Jp. 10	N	0-1	1	4	888
F	Xerochysum brackentin	N	0-1	1	4	
F	wallenbeyia gracily	N	0 1	7	6	
F	Helio topun Toll Heliotopium europaeum	E	0-1	1	G	SBB
C	"Asidida Tamasa	N	0.1	1	4	
* 1X	Fimbrishing dichotona	N	0-1	4	4	
6	Eriodelin psiendoatriche	N	0.1	10	4	
F	Enchelon Sohnerieus	NE	0.1	2	G	
F	Lepidan bonovierse	E	0.1	1	G	
9	Avana seliva	E	0.1	١	4	
F	Cotula astron	N	0-1	- 1	4	
F	Maribium Vulgare	t	0.1	3	4	
F	Pontago debilis	N	0.1	2	4	
	0					
		1				

Plot Identifier

GF Code: see Growth Form definitions in Appendix 4

N: native, E: exotic, HTE: high threat exotic

GF - circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ...100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: 1, 2, 3, ..., 10, 20, 30, ..., 100, 200, ..., 1000, ...

Stratum: not for entry to calculator, to assist with PCT identification.

Print more conject of this sheat to allow for higher energies counts at a closs All species at a rich panel to be specied.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Printed 23 November 2017 Form process designed September 2017

	В	AM Plot -	- Fie	ld Survey	Form			Site	She	et no:				
		Su	rvey h	Name	Plot Id	entifier	T	Recorders						
Dat	e 28/11/	7 Syers	ton	Mine 2	SBO	7	T	6 . 5	5					
Zone	Datum	IBRA r				Photo #	20 6		T	Zone I	D			
Easting	Northing		Di	mensions				tation of mi						
Vegetation	Class										Confiden H M			
Plant Com	munity Type								EE	C:	Confiden H M	ce.		
	ng and porthing from Shape; of U.O4 he to								inė					
	Attribute	Sum values	JE	BAM Attribut	e (20 x 50 i	m plot)	Stem CI	asses and I	Hollow	vs	Arcord Nyma			
(400	(400 m² plot)		,  L	dbh	E	ic*	Non Euc	Hollows*	200	m+	excustyet (Exc			
	Trees	0	11	large 80 trees for cm	+					- 1	living native a sunalyst (Non			
	Shrubs	0	11	Euc* &	0 -	-		+						
Count of Grasses etc.		11	\\		79 cr								Cata mentet s Graninal and	
Native Richness	Forbs	51	30 – 49 cm								intess à targe lor trait class			
	Ferns	1		20 – 29 cm							mounts of his Couply place			
	Other	0	_	10 – 19 cm				1	n		Corporation Regoptocking			
	Trees	0	1	10 10 011	-	-		-						
Sum of	Shrubs	0	1 L	5 – 9 cm				n	/a					
Cover of native vascular	Grasses etc.	26.1		< 5 cm	m			This size class records tree regeneration			size class with notlows tindude dead sterro/tes			
plants by	Forbs	\$513	3	Length of log							total			
growth form group	Ferns	0.1		(≥10 cm diamete in length)	er, >50 cm									
	Other	0	-	Each size cons								NATION.		
U.b. Thurst	Weed cover	0	7	Depending on 6								WS		

BAM Attribute (1 x 1 m plots)	Litter cover (%)	and a state of the	
Subplot score (% in each)	25 35 20 40 50	00000	00000
Average of the 5 subplots	35		

Acromotogical VDV Municipy		Landform Emment Bot Surface Tenture		Monthesial Sell Theory
ópu		(Viprec)	Sant Champe	Diction to research
Not Disturbance	Severity	Age	Free Text Section	for brief site description
Cleaning (Inc. logging)			0 9	
Cultivation (mc. pasture)			moderal gros	1-9.
Soil erasion				
Firewood / CWO removal				
Grazing no.	1	Sheep		
Fire damage				
Storm damage				
Weedness				
Other			7	

Printed 23 November 2017

other native and istide how istide how istudes yet of 10/10 to giterion of istides with interior intion the intion and intion pit intion in inguistry inguistry inguistry inguistry inguistry	Syester Muecays 2  sin each growth form group, exotic species: Full species  themis  matty  browning  programs  programs  programs  Sicho Sieb,  Scabra  lacan as ia  radin Mynric  Latinny  lamatus  Repens  c. Tundwhalleya  79 2 Traggi  sp. 2 Digitar  walls  hyun  gracilanta  O 2 daftachyan	Jegalana		EOT 11TE 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Cover 20 0.2 3 1 0.5 0.1 1 0.4 6.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	50 10 5 10 5 10 3 1 50 20	999999999999	vouch er
other native and istide bour istide i	exotic species: Full species  Thami  funcadi  funcadi  funcadi  funcadi  browni  gracio diffusa  pignaen  pigna	I regulary		22222222222222222222222222222222222222	20 0.2 3 1 0.3 0.1 1 0.4 6.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0	1000 1000 500 500 100 500 100 100 500 100 50 100 50 100 50 100 50 100 50 100 50 100 50 50 100 50 50 50 50 50 50 50 50 50 50 50 50 5	- 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	585- 589-
anaesyce of 1010/5 to giterion ?  giterion ?  potilodiscus in the surting assimptes aus.  compression aus.  compression aus.  comments in the aus.  igitaria in piri.	brownis  mcata  brownis  brownis  pygmaen  pygmaen  pultheri  giclo: sieb:  scabora  lacumaria  ratus  Mynrec  latinguy  lanatus  repens  c. Twalwhalleya  sp. 2 Digitar  walus  houn  gracilanta  gracilanta	Sub Arophile		222222222222222222222222222222222222222	0.2	(00 1000 500 500 10 500 500 100 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 50 50 50 50 50 50 50 50 50 50 50 5	566666666666666666666666666666666666666	5 <b>8</b> 5-
nors for giterian of interesting washing washing washing washing washing and a contraction of interesting in the agreeting in th	bierris diffuso pygnaens pygnaens multheri Gielo Siels, Scolora lacan avia radus Mynris hatinguy lanatus repens c. Twalwhalleya 30 2 Iragis ratus Mynris Latinguy 1 anatus Repens c. Twalwhalleya 30 2 Digitar malus Mynris Mynris Latinguy 1 anatus Repens c. Twalwhalleya sp. 2 Digitar malus Mynris Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Latinguy Mynris Mynri	Sub Arophile		222222222222222222222222222222222222222	3 0.5 0.1 1 0.4 6-1 0.1 0.1 0.2 0.1 0.1 0.1	1000 500 500 10 500 500 100 100	9999999999999	5 <b>8</b> 5-
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GF Code: see Growth Form definitions in Appendix 4

N: native, E: exotic, HTE: high threat exotic

GF - circle code if 'top 3'.

Cover: 0.1, 0.2, 0.3, ..., 1, 2, 3, ..., 10, 15, 20, 25, ..., 100% (foliage cover); Note: 0.1% cover represents an area of approximately 63 x 63 cm or a circle about 71 cm across, 0.5% cover represents an area of approximately 1.4 x 1.4 m, and 1% = 2.0 x 2.0 m, 5% = 4 x 5 m, 25% = 10 x 10 m

Abundance: 1, 2, 3, ..., 10, 20, 30, ... 100, 200, ..., 1000, ...

Stratum: not for entry to calculator, to assist with PCT identification.

Print more copies of this sheet to allow for higher species counts at a plot. All species at a plot need to be recorded.

Form virial designed September 2017 Printed 23 November 2017

Clean TeQ Sunrise Project Accommodation Camp Modification - Biodiversity Development Assessment Report
ATTACHMENT C
VEGETATION INTEGRITY (SITE CONDITION) DATA (AMBS, 2017a)

Table C1
Vegetation Integrity (Site Condition) Data

Plot	РСТ	Condition Class	Zone	Easting	Northing	Bearing	Composition Tree	Composition Shrub	Composition Grass	Composition Forbs	Composition Ferns	Composition Other	Strucutre Tree	Strucutre Shrub	Strucutre Grass	Strucutre Forbs	Strucutre Ferns	Strucutre Other	Function Large Trees	Function Hollow Trees	Function Litter Cover	Function Length Fallen Logs	Function Tree Stem 5 to 10	Function Tree Stem 10 to 20	Function Tree Stem 20 to 30	Function Tree Stem 30 to 50	Function Tree Stem 50 to 80	Function Tree Regen	Function High Threat Exotic
SB01	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537392	6371200	0	0	0	7	11	0	1	0	0	15.9	4.7	0	0.1	0	0	18	0	0	0	0	0	0	0	0
SB02	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537650	6371481	0	0	0	9	10	1	1	0	0	3.4	2.3	0.1	35	0	0	28	0	0	0	0	0	0	0	0
SB05	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	537673	6371166	0	0	0	5	14	0	1	0	0	10.9	4.9	0	0.3	0	0	25	0	0	0	0	0	0	0	0
SB09	217	Derived native grass land (Previously cleared land with regrowth of predominantly native grasses, herbs and low shrubs (PCT 217))	55	538000	6371757	0	0	0	11	5	1	0	0	0	26.1	1.3	0.1	0	0	0	35	0	0	0	0	0	0	0	0

Source: AMBS (2017a)

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Clean TeQ Sunrise Project Accommodation Camp Modification - Biodiversity Development Asses	ssment Report
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ATTACHMENT D REVIEW OF MATTERS OF NATIONAL ENVIRONMENTAL SIGN	IFICANCE
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Table D1
Review of Matters of National Environmental Significance

O al au diffic Nome	0 N	Conserva	ation Status¹	01	Table in the	Protected Matters	Determination in a set
Scientific Name	Common Name	BC Act	EPBC Act	Class of Credit	Main Text	Search	Potential impact
Ecological Community			•				
Grey Box (Eucalyptus mic Woodlands and Derived N South-Eastern Australia		Е	E	Ecosystem	-	•	Derived Native Grassland (PCT 82) (Vegetation Community 2) is a degraded example of this community (Attachment B). The Modification would not impact this community.
Birds							
Leipoa ocellata	Malleefowl	E	V	Ecosystem	Table 3	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint (AMBS, 2017)
Anthochaera phrygia	Regent Honeyeater	CE	CE	Species / Ecosystem	-	•	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.
Calidris ferruginea	Curlew Sandpiper	E	CE	Species / Ecosystem	-	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint (AMBS, 2017)
Numenius madagascariensis	Eastern Curlew	-	CE	Species / Ecosystem	-	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint (AMBS, 2017)
Lathamus discolor	Swift Parrot	E	CE	Species / Ecosystem	Tables 3 and 4	-	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.

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# Table D1 (Continued) Review of Matters of National Environmental Significance

		Conserv	ation Status <sup>1</sup>		Table in the	Protected Matters	
Scientific Name	Common Name	BC Act	EPBC Act	Class of Credit	Main Text	Search	Potential impact
Polytelis swainsonii	Superb Parrot	V	V	Species / Ecosystem	Tables 3 and 4	•	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.
Grantiella picta	Painted Honeyeater	V	V	Ecosystem	Table 3	•	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.
Pedionomus torquatus	Plains-wanderer	E	CE	Species / Ecosystem	-	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint (AMBS, 2017)
Rostratula australis	Australian Painted Snipe	E	E	Ecosystem	-	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint (AMBS, 2017)
Mammals							
Dasyurus maculatus maculatus (south-eastern mainland population)	Spotted-tailed Quoll	V	E	Ecosystem	Table 3	•	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint
Phascolarctos cinereus	Koala	V	V	Species / Ecosystem	Tables 3 and 4	•	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.
Nyctophilus corbeni	^Corben's Long- eared Bat	V	V	Ecosystem	Table 5	-	No significant impact expected to occur due to the lack of potential habitat in the Development Site Footprint.

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# Table D1 (Continued) Review of Matters of National Environmental Significance

Scientific Name	Common Name	Conserva BC Act	etion Status	Class of Credit	Table in the Main Text	Protected Matters Search	Potential impact
Chalinolobus dwyeri	^Large-eared Pied Bat	V	V	Species	Table 5	-	No significant impact expected to occur. Suitable habitat for this species is not present within the Development Site Footprint
Pteropus poliocephalus	Grey-headed Flying- fox	V	V	Species / Ecosystem	-	•	No significant impact expected to occur. Any trees with potential roosting habitat for this species were avoided and no camps have been identified within the Development Site Footprint (AMBS, 2017).

<sup>&</sup>lt;sup>1</sup> Threatened fauna species status under the BC Act and/or EPBC Act (current as at December 2017).

#### References:

AMBS Ecology and Heritage (2017a) Clean TeQ Sunrise Project Accommodation Camp - Ecological Surveys.

DEE (2017c) EPBC Protected Matters Report for Search Area: -32.7133 147.2862,-32.6858 147.5002,-32.8647 147.5285,-32.8897 147.3194,-32.7133 147.2862.Date received: November 2017.

00896321 D-3

V = Vulnerable; E = Endangered, CE = Critically Endangered

<sup>^</sup> unconfirmed calls possibly recorded via bat recording devices.

Clean TeQ Sunrise Project Accommodation C	Camp Modification - B	Biodiversity Development Assessment Report	
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### **BAM Biodiversity Credit Report (Like for like)**

#### **Proposal Details**

Assessment Id

00009503/BAAS17080/17/00009504

Assessor Name

Jamie Gleeson

**Proponent Names** 

Candidate Serious and Irreversible Impacts

No Data

No Data

**Additional Information for Approval** 

PCTs With Customized Benchmarks

No Changes

Proposal Name

Clean TeQ Sunrise Project Accommodation Camp

Assessor Number

0

Report Created 22/12/2017



# **BAM Biodiversity Credit Report (Like for like)**

Predicted Threatened Species Not On Site No Changes

#### **Ecosystem Credit Summary**

PCT	TEC	Area	Credits	
217-Mugga Ironbark - Western Grey Box - cypress pine tall woodland on footslopes of low hills in the NSW South	Not a TEC	27.5	200.00	
Western Slopes Bioregion				

<b>Credit classes for</b>	Like-for-like options					
217	Any PCT in the below Class	And in any of below trading groups	Containing HBT	In the below IBRA subregions		
	Western Slopes Dry Sclerophyll Forests (including PCT's 54, 110, 217, 255, 273, 287, 330, 333, 341, 343, 346, 348, 358, 403, 455, 456, 472, 577, 581, 592, 617, 673, 676, 713, 940, 956, 1277, 1279, 1313, 1316, 1381, 1610, 1661, 1668, 1709)	Western Slopes Dry Sclerophyll Forests - $\geq$ 50% - < 70% cleared group (including Tier 6 or higher).	No	Nymagee,Barnato Downs, Bogan-Macquarie, Canbelego Downs, Darling Depression, Lachlan Plains and Lower Slopes.  or Any IBRA subregion that is within 100 kilometers of the outer edge of the impacted site.		



# **BAM Biodiversity Credit Report (Like for like)**

**Species Credit Summary** 

No Species Credit Data