NORTH DOME PROJECT

Detailed Flora Basic Fauna Assessment

Prepared for Essential Metals Ltd January 2024





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Document Information

Prepared for: Essential Metals Ltd.
Project Name: North Dome Project
Tenements: M15/1896, E15/1515

Job Reference: Detailed Flora and Basic Fauna Assessment

 Job Number:
 2023/070

 Date:
 04/01/2024

 Version:
 Final

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Cover Photo: Vegetation within the North Dome project area September 2023

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EXECUTIVE SUMMARY

Botanica Consulting Pty Ltd (Botanica) was commissioned by Essential Metals Ltd. to undertake a detailed flora/ vegetation survey and basic fauna survey of their North Dome project (referred to as the 'survey area'). The survey area is approximately 2,743 ha in extent and is located approximately 52 km north of Norseman, Western Australia.

The survey area lies within the Eastern Goldfield (COO3) subregion of the Coolgardie Bioregion, as defined by the Interim Biogeographic Regionalisation of Australia (IBRA). The subregion is considered a centre of endemism for Eucalypts in the Goldfields Woodlands region and is also noted for the diversity of *Acacia* spp. and ephemeral flora communities of the tertiary sandplain shrublands and the valley floors of woodland areas.

The main land tenure in the survey area is Unallocated Crown Land (UCL). The survey area is not located within a pastoral station. There are no proposed nor gazetted conservation reserves.

Botanica conducted a detailed flora/ vegetation and basic fauna survey on the 22nd - 23rd November 2021. The area was traversed on foot and by 4WD vehicle by Jim Williams (Director/Principal Botanist, Diploma of Horticulture) and Jennifer Jackson (Senior Botanist, BSc (Honours) Environmental Management). A total of 28 quadrats (20 m x 20 m) were installed and assessed during the survey effort. The area was revisited, and quadrats reassessed on the 18th–19th September 2023 by Jennifer Jackson. A further six quadrats were installed and assessed along the proposed haul road on the 26th October 2023 by Aidan Williams (Botanist, BSc Botany and Conservation Biology).

A total of seven broad-scale vegetation communities were identified within the survey area with the most widespread community being Eucalypt open woodland (CLP-EW3). The field survey identified 110 vascular flora taxa within the survey area. These taxa represented 48 genera across 24 families. The most diverse families in the survey area were (Myrtaceae (16 species), followed by Fabaceae (14 species) and Chenopodiaceae (18 species). Dominant genera include *Eremophila* (15 species), *Eucalyptus* (12 species) and *Acacia* (nine species). Based on the vegetation condition rating vegetation condition within the survey area was categorised as 'very good' to 'good.' Disturbances within the survey area included access tracks, low levels of grazing and historical impacts.

No Threatened flora species as listed under the Western Australian *Biodiversity Conservation (BC)* Act 2016 or Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act 1999 were recorded within the survey area. The Priority 3 species Eremophila acutifolia was recorded within eight quadrats of the survey area.



A total of six introduced (weed) species were recorded within the survey area. None of these species are listed as a Weed of National Significance or a Declared Pest in Western Australia.

Four broad scale terrestrial fauna habitats were identified as occurring within the survey area and two significant fauna species, the Malleefowl and Grey Falcon, both Vulnerable (VU) taxa, were identified as potentially occurring in the survey area.

No evidence for the presence of Malleefowl, including nesting mounds, tracks, or other signs, were recorded within the survey area. No other evidence of significant fauna species were observed during the survey.

No Environmentally Sensitive Areas, wetlands of international importance (Ramsar Wetlands) or national importance (Australian Nature Conservation Agency Wetlands) were identified in the survey area. No Threatened, Priority or otherwise significant ecological communities were identified within the survey area. None of the vegetation types are representative of Groundwater Dependent Ecosystems (GDEs).

Based on the outcomes from the survey undertaken, Botanica assessed the results of the desktop and field survey with regards to the native vegetation clearing principles listed under Schedule 5 of the EP Act. The assessment found that the proposed vegetation clearing activities may be at variance with clearing principle (f); is growing, in, or in association with, an environment associated with a watercourse or wetland. There are no permanent or ephemeral water bodies within the survey area. There are also no perennial drainage lines within the survey area, however multiple minor ephemeral drainage lines intersect with the survey area. These minor ephemeral drainage lines were mostly associated with vegetation community *Eucalyptus salmonophloia* and *Eremophila interstans* subsp. *interstans* woodland over *Exocarpos aphyllus*, *Eremophila dempsteri* and *Grevillea acuaria* shrubland over *Eremophila acutifolia*, *Atriplex vesicaria and Rhagodia eremaea* low shrubland (CLP-EW1) which represents 15.8% of the total survey area.



1 INTRODUCTION

Botanica Consulting Pty Ltd (Botanica) was commissioned by Essential Metals Ltd. to undertake a detailed flora/ vegetation survey and basic fauna survey of their North Dome project (referred to as the 'survey area'). The survey area is approximately 2,743 ha in extent and is located approximately 52 km north of Norseman, Western Australia (Figure 1-1). This assessment is intended to support a Native Vegetation Clearing Permit (NVCP) application for the North Dome project.

1.1 Objectives

1.1.1 Detailed Flora Survey

The flora/vegetation assessment was conducted in accordance with the requirements of a detailed survey as defined in *Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment – December 2016* (EPA, 2016a). The objectives of the assessment were to:

- Gather background information on flora and vegetation in the desktop study area (literature review, database, and map-based searches);
- Conduct a field survey to verify / ground truth the desktop study findings through reconnaissance survey;
- Define and map vegetation communities of the survey area to a scale appropriate for the Bioregion and described according to the National Vegetation Information System (NVIS) classification (NVIS Level V – Association);
- Record the species composition (abundance and diversity) of each vegetation community within the survey area and compile a species list for the survey area by vegetation type;
- Provide quadrat-based data from plots representative of each vegetation type (minimum of three quadrats per vegetation type) according to Environmental Protection Authority (EPA) guidelines;
- · Assess the species composition of each quadrat;
- Determine the local and regional conservation significance of flora and vegetation within the survey area;
- Identify and record the locations of any conservation significant flora/vegetation within the survey area;
- Identify and record the locations of any introduced flora species (including Declared Pests) within the survey area;
- Provide a map showing the distribution of conservation significant flora/vegetation within the survey area; and
- Define and map the condition of vegetation within the survey area in accordance with the vegetation condition rating scale specified in the Environmental Protection Authority (EPA)
 Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment – December 2016 (EPA, 2016a).



1.1.2 Basic Fauna Survey

The fauna assessment was conducted in accordance with the requirements of a basic terrestrial fauna survey as defined in *Technical Guidance - Terrestrial Fauna Surveys for Environmental Impact Assessment – June 2020* (EPA, 2020). The objectives of the assessment were to:

- Undertake a literature review, including map-based information searches of all current and relevant literature sources and databases relating to the survey area;
- Undertake a desktop investigation to identify any previously recorded occurrences of or potentially occurring Threatened and Priority listed fauna within the survey area;
- Undertake searches on available databases for details relating to any Threatened and Priority listed fauna previously identified as occurring or potentially occurring within the survey area;
- Conduct fauna habitat mapping and identify habitat types which are suitable for each significant fauna considered likely or possible to occur, or fauna recorded in the survey area;
- Compile an inventory of fauna species occurrences within the survey area;
- · Undertake opportunistic, low intensity sampling of fauna; and
- Report on the conservation status of species present using the Western Australian Museum and
 Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) databases for
 presence of Threatened and Priority listed fauna species within the survey area.



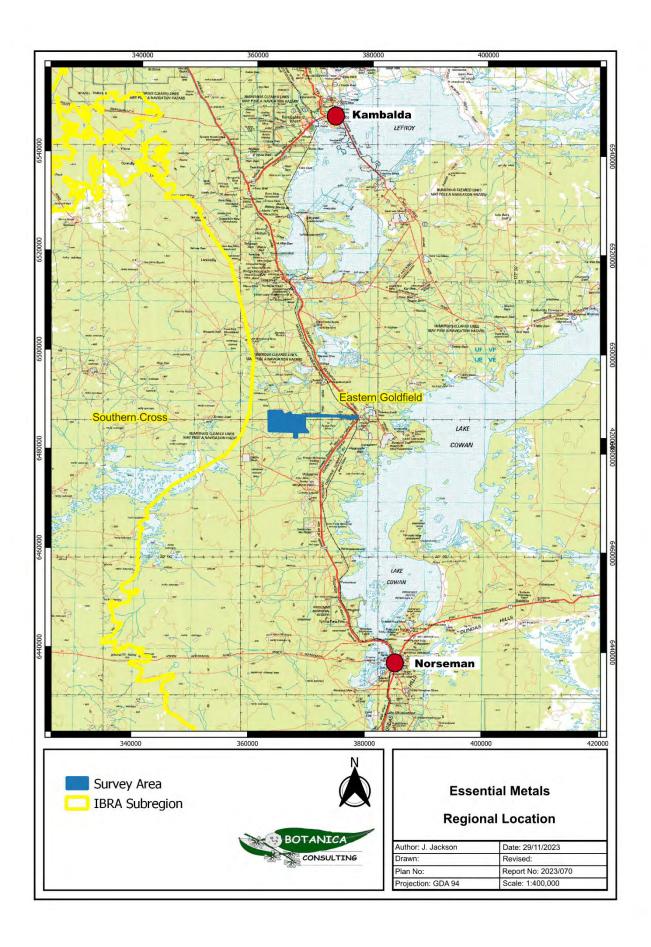


Figure 1-1: Regional map of the survey area



2 BIOPHYSICAL ENVIRONMENT

2.1 Regional Environment

The survey area lies within the Eastern Goldfield (COO3) subregion of the Coolgardie Bioregion, as defined by the Interim Biogeographic Regionalisation of Australia (IBRA).

The Eastern Goldfield subregion (5,102,428 ha) lies on the Yilgarn Craton's Eastern Goldfields Terrain, which is described as gently undulating plains with a subdued relief, interrupted in the west with low hills and ridges of Archaean greenstones and in the east by a horst of Proterozoic basic granulite. The underlying geology is of gneisses and granites eroded into a flat plane covered with tertiary soils and with scattered exposures of bedrock. Calcareous earths are the dominant soil group and cover much of the plains and greenstone areas. A series of large playa lakes in the western half are the remnants of an ancient major drainage line (Cowan 2001).

The vegetation consists of Mallees, Acacia thickets and shrub-heaths on sandplains, with diverse *Eucalyptus* woodlands occurring around salt lakes, on ranges, and in valleys. Salt lakes support dwarf shrublands of samphire. Woodlands and *Dodonaea* shrubland occur on basic granulite of the Fraser Range, and the area is rich in endemic Acacias.

In accordance with Beard (1990) the survey area is located in the Coolgardie Botanical District of the Southwestern Interzone Province. The landscape is described as gently undulating with occasional ranges of low hills, with sandplains in the western part and some large playa lakes. Soils are principally brown calcareous earths, which overlays the Proterozoic granite and gneiss of the Fraser Range block and Archaean granite, with infolded volcanics and meta-sediments, of the Yilgarn block. Vegetation is predominately *Eucalyptus* woodlands, with slopes and flats containing *E. longicornis* alongside *E. salubris* and *E. salmonophloia*. Woodland understories range from tall sclerophyll shrubland dominated by *Melaleuca pauperiflora* to soft-leaved saltbush shrubland of *Atriplex vesicaria* and *A. nummularia*. Some hill slopes contain mallees of *E. livida* or *E. loxophleba*, while ironstone ridges are covered in thickets of *Acacia quadrimarginea*, *Allocasuarina acutivalvis* and *A. campestris*. Other vegetation assemblages include species-rich scrub-heaths and *Allocasuarina* thickets on sandplains, merging into *Acacia* thickets and Kwongan vegetation to the north.

2.2 Land Use

The dominant land uses of the Eastern Goldfield subregion includes Unallocated Crown Land (UCL) and Crown reserves and pastoral grazing, with conservation areas and mining leases also present (Cowan, 2001). The survey area is not located within a pastoral station.



2.3 Soil Landscape Systems

The survey area lies within the Kalgoorlie Province, located in the southern Goldfields between Paynes Find, Menzies, Southern Cross, and Balladonia. The landscape consists of undulating plains (with some sandplains, hills, and salt lakes) on the granitic rocks and greenstone of the Yilgarn Craton. Soils range from calcareous loamy earths and red loamy earths with some salt lake soils to red deep sands, yellow sandy earths, shallow loams, and loamy duplexes. Vegetation communities are predominately Eucalypt woodlands with some acacia-casuarina thickets, mulga shrublands, halophytic shrublands and spinifex grasslands.

The Kalgoorlie Province is further divided into six soil-landscape zones, with the survey area located in the Kambalda Zone.

The Kambalda zone is located in the south-eastern Goldfields between Menzies, Norseman and the Fraser Range and contains flat to undulating plains (with hills, ranges and some salt lakes and stony plains) on greenstone and granitic rocks of the Yilgarn Craton. Soils consist of calcareous loamy earths and red loamy earths with salt lakes soils and some redbrown hardpan shallow loams and red sandy duplexes. Vegetation includes red mallee, blackbutt-salmon gum-gimlet woodlands with mulga and halophytic shrublands (and some spinifex grasslands).

In accordance with soil landscape system mapping data (Government of Western Australia, 2019), the soil landscape zones are divided into soil landscape systems, with the survey areas located within six soil landscape systems, as described in Table 2-1 and shown in Figure 2-1.

Table 2-1: Soil landscape systems within the survey area

Soil Landscape System	Description	Extent within Survey Area
AC1	Gently sloping to gently undulating plateau areas, or uplands, on granites, gneisses, and allied rocks, with long gentle slopes and, in places, abrupt erosional scarps	1471.1 ha (53.5%)
Graves System	Basalt and greenstone rises and low hills supporting eucalypt woodlands with prominent saltbush and bluebush understoreys.	141.3 ha (5.1%)
Gumland System	Extensive pedeplains supporting eucalypt woodlands with halophytic and non-halophytic shrub understoreys.	504.6 ha (18.4%)
Moriarty System	Low greenstone rises and stony plains supporting chenopod shrublands with patchy eucalypt overstoreys.	0.1 ha (0.0%)
Nc2	Gently undulating plains with some gilgai areas, and irregularly broken by small remnants of sand plain, unit AC1, and granitic bosses and tors	274 ha (10%)
Sedgeman System	Gritty surfaced plains with granite outcrop and low granite domes and hills supporting acacia tall shrublands.	356.7 ha (13%)



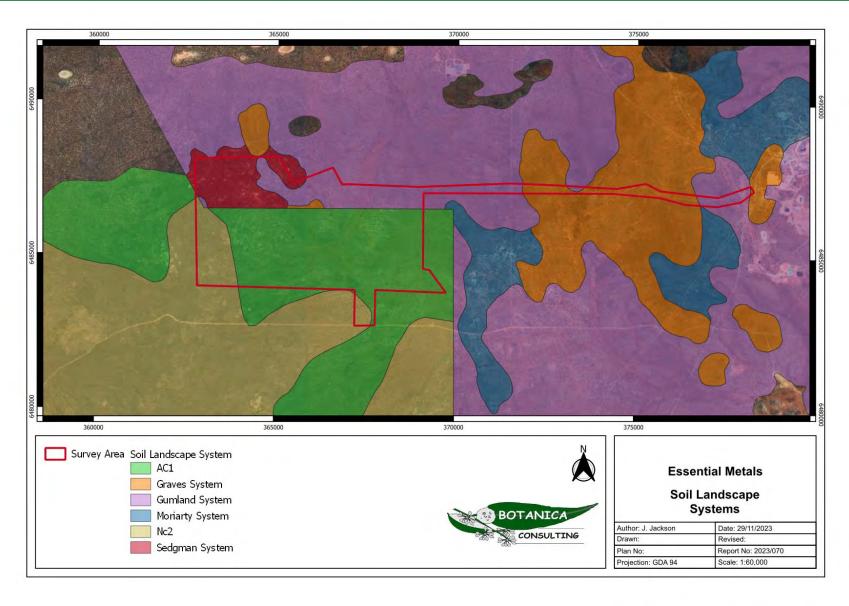


Figure 2-1: Map of soil landscape systems within the survey area

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2.4 Regional Vegetation

In accordance with Tille (2006), the vegetation of the Kambalda Zone is typified by the preponderance of stony plains with acacia shrublands and halophytic shrublands, low hills with eucalypt or acacia woodlands with halophytic undershrubs, stony plains with acacia shrublands and alluvial plains with eucalypt woodlands and halophytic undershrubs rangeland.

More broadly, the vegetation of the Kalgoorlie Province is described by Tille (2006) as woodlands of redwood (*Eucalyptus transcontinentalis*), red mallee (*E. oleosa*), Dundas blackbutt (*E. dundasii*), merrit (E. flocktoniae) and salmon gum (E. salmonophloia), found on undulating plains over granite. There are also some hummock grasslands with red mallee over spinifex (Triodia scariosa) and thickets of Acacia, Casuarina and Melaleuca spp. Plains on greenstone have woodlands of York gum (E. loxophleba), salmon gum and gimlet (E. salubris). The valley plains have woodlands of salmon gum, red mallee, Goldfields blackbutt (E. lesouefii), gimlet, York gum and morrel (E. longicornis). These sometimes have an understorey of saltbush (Atriplex spp.), pearl bluebush (Maireana sedifolia), sago bluebush (M. pyramidata) and Eremophila spp. There are areas of spinifex grasslands with red mallee, mallees (e.g., E. youngiana) and marble gum (E. gongylocarpa). Low woodlands of mulga (Acacia aneura) and black sheoak (Casuarina pauper) over bluebush and saltbush are also present. Apart from the bare salt lake surfaces, saline valley floors have shrublands of samphire (Tecticornia spp.) and Frankenia spp. in lower areas, shrublands of saltbush and bluebush on red deep sandy duplexes, and woodlands of salmon gum, merrit, red mallee, gimlet, and York gum. Acacia neurophylla, A. beauverdiana and A. resinimarginea thickets grow on gently sloping uplands on granite, with thickets of acacia, casuarina, and melaleuca. There are also scrub-heaths and York gum-salmon gum-gimlet woodlands on these uplands. The hilly terrain on greenstone supports woodlands of salmon gum, Goldfields blackbutt, coral gum (E. torquata), York gum, gimlet, morrel, Dundas blackbutt and black sheoak. Thickets of granite wattle (Acacia quadrimarginea) are also present. The stony plains support scattered woodlands of Goldfields blackbutt, gimlet and salmon gum, along with shrublands of saltbush and bluebush. Sandplains in the west have acacia (A. coolgardiensis, A. ramulosa, A. aneura, A. burkittii and A. tetragonophylla) shrublands, commonly with patchy native pine (Callitris glaucophylla, C. preissii) and mallees (E. leptopoda, E. longicornis and E. loxophleba). Native box (Bursaria occidentalis), Melaleuca uncinata and Hakea recurva may also be present. Hard spinifex (*T. basedowii*) grasslands with mulga, marble gum and mallees (e.g., E. kingsmillii) are found on sandplains to the east. The sandy-surfaced plains support acacia, casuarina, and melaleuca thickets; woodlands of York gum, cypress pine (Callitris columellaris), salmon gum, gimlet and mulga; and shrublands of bowgada (A. ramulosa).



2.5 Conservation Values

The Eastern Goldfield subregion contains 16 vegetation associations, predominately open *Eucalyptus* woodlands, that have at least 85 per cent of their total extent in the bioregion (Cowan 2001). The subregion is considered a centre of endemism for Eucalypts in the Goldfields Woodlands region and is also noted for the diversity of *Acacia* spp. and ephemeral flora communities of the tertiary sandplain shrublands and the valley floors of woodland areas.

The subregion contains one wetland of national importance: Rowles Lagoon System, located approximately 160 km north-west of the survey area. In addition, there are seven wetlands of subregional importance (Cowan, 2001). The closest of these wetlands (Lake Cowan) is located approximately 8 km east of the survey area. Other significant assemblages in the region include plant assemblages of the Fraser Range and the Woodline Hills located approximately 130 km east and 75 km east of the survey area respectively.

No ecosystems listed as threatened under WA State legislation occur within the subregion, but 18 communities and vegetation associations within the subregion are thought to be at risk for a variety of reasons. Grazing from livestock, goats and rabbits and impacts from mining are the main threatening processes in the region, with changed fire regimes, erosion and sedimentation also causing significant impacts.

2.5.1 Great Western Woodlands

The survey area lies within the Great Western Woodlands, considered by The Wilderness Society of WA to be of global biological and conservation importance as one of the largest and healthiest temperate woodlands on Earth, containing many endemic taxa. The region covers almost 16 million hectares (160,000 square kilometres), from the southern edge of the Western Australian Wheatbelt to the pastoral lands of the Mulga country in the north, the inland deserts to the northeast, and the treeless Nullarbor Plain to the east.

The Great Western Woodlands provides a connection between southwest forests and inland deserts (Gondwana Link) as well as linking the north-west passage to Shark Bay. Most of the Great Western Woodlands is unallocated crown land (61.1%) with other interests including pastoral leases (20.4%), conservation reserves (15.4%) unallocated crown land, ex pastoral (2%) managed by the Department of Biodiversity, Conservation and Attractions (DBCA) and private land (approximately 1%).

No specific management strategy or formal conservation status applies to the Great Western Woodlands. The Great Western Woodlands currently includes towns, highways, roads, railways, private property, Crown Reserves, agricultural activities, and mining tenements.



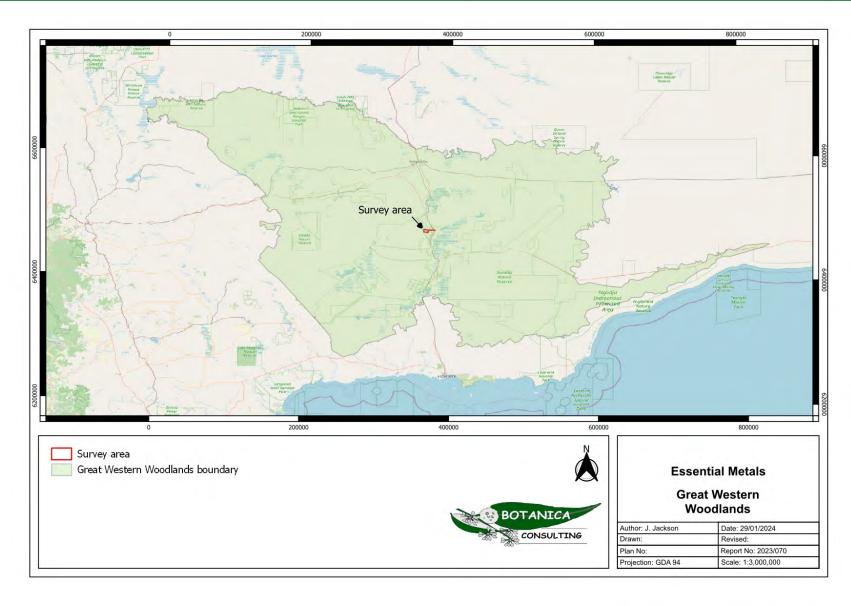


Figure 2-2: Location of survey area within the Great Western Woodlands

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2.6 Climate

The climate of the Eastern Goldfield subregion is characterised as arid to semi-arid with 200-300 mm of rainfall, sometimes in summer but usually in winter (Cowan, 2001). Rainfall data for the Norseman Aero (#12009) weather station, located approximately 52 km south of the survey area, is shown in Figure 2-3. Rainfall prior to the initial survey (August-October 2021) was below the average. Rainfall in August 2023 prior to the subsequent surveys was above average but below average in September and October. Climate conditions may represent a survey constraint, with potentially below-average presence of flowering material and ephemeral species.

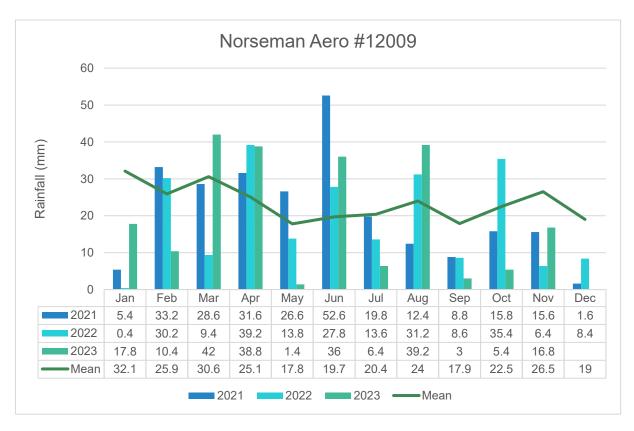


Figure 2-3: Climate data for Norseman Aero (BoM, 2023)

2.7 Hydrology

According to the Geoscience Australia database (2015), there are no permanent or ephemeral water bodies within the survey area. There are no perennial drainage lines within the survey area, however multiple minor ephemeral drainage lines intersect with the survey area (Figure 2-4).

Groundwater Dependent Ecosystems (GDE) includes biological assemblages of species such as wetlands or woodlands that use groundwater either opportunistically or as their primary water source. For the purposes of this report, a GDE is defined as any vegetation community that derives part of its water budget from groundwater and must be assumed to have some degree of groundwater dependency. In accordance with the BoM *Atlas of Groundwater Dependent Ecosystems* (BoM, 2020b) database, there are three potential terrestrial GDE's within the survey area (Figure 2-4,



Table 2-2). There are no potential aquatic GDE's within the survey area.

Table 2-2: Potential GDE's within the survey area

Geomorphology	Potential	Vegetation Description	Area (ha)	Area (%)
Undulating plains with some	Low	Medium woodland; redwood (<i>Eucalyptus transcontinentalis</i>) & merrit (<i>E. flocktoniae</i>)	1,824.2	66.5
sandplains, ferruginous breakaways; ridges of metamorphic rocks and granitic hills and rises; calcretes,	Moderate	Shrublands; acacia, casuarina & melaleuca thicket	602.3	21.9
large salt lakes and dunes along valleys.	Moderate	Medium woodland; salmon gum & gimlet	2.8	0.1
		Total	2,429.3	88.5



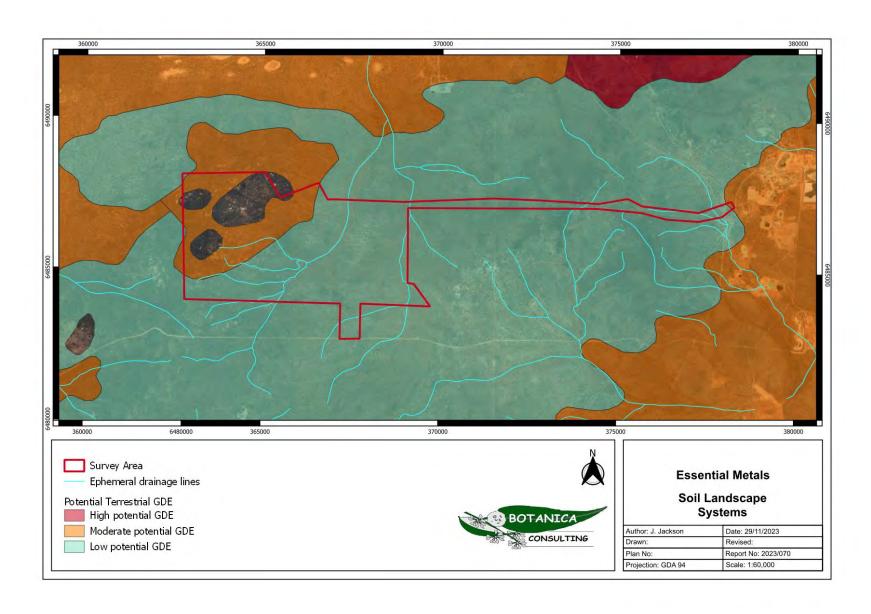


Figure 2-4: Regional hydrology of the survey area

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3 SURVEY METHODOLOGY

3.1 Desktop Assessment

Prior to the field assessment a literature review was undertaken of previous flora and fauna assessments conducted within the local region. Documents reviewed included:

- Botanica Consulting (2021). Mt. Edwards Project: Flora, Fauna and Vegetation Assessment.
 Unpublished report prepared on behalf of Widgie Nickel Ltd., December 2021.
- Botanica Consulting (2021b). Reconnaissance Flora/ Vegetation Survey and Basic Fauna Survey Lake Lefroy/ Lake Fore. Unpublished report prepared on behalf of Mincor Resources NL, August 2020.
- Botanica Consulting (2022). *Baker Project: Detailed Flora and Basic Fauna Assessment*. Unpublished report prepared on behalf of Lunnon Metals Ltd., November 2022.
- Botanica Consulting (2022b). North Dome Project-Detailed Flora and Basic Fauna Assessment. Unpublished report prepared on behalf of Essential Metals Ltd., December 2021.
- Newbey, K. R., Dell, J., How, R. A. and Hnatiuk, R. J. (1984). The Biological Survey of the Eastern Goldfields of Western Australia. Part 2: Widgiemooltha -Zanthus Study Area. WA Museum, Perth.

In addition to the literature review, searches of the following databases were undertaken to aid in the compilation of a list of significant flora within the survey area:

- DBCA Threatened/ Priority Flora spatial data (DBCA, 2022a).
- Atlas of Living Australia (ALA) database (ALA, 2023); and
- EPBC Protected Matters search tool (DCCEEW, 2023).

The ALA spatial portal search and EPBC Protected Matters search were conducted with a 40 km buffer from the survey area.

Significant flora species identified by the desktop review were assessed with regards to their population extent and distribution and preferred habitat to determine their likelihood of occurrence within the survey area.

The assessment categorised flora species as follows:

- Unlikely- Suitable habitat is not expected to occur and/or the survey area is outside the known range of the species.
- Possible- Suitable habitat may be present, and the area is within the known range of the species. This option is also used when there is insufficient information to determine the preferred habitat of a species.



- Likely- Suitable habitat is expected to occur and there are records within 10 km of the survey area.
- Previously Recorded- A record for this species is located within the survey area. Field survey will ground truth currently occurring individuals and populations.

It should be noted that these lists are based on observations from a broader area than the assessment area (40 km radius) and therefore may include taxa not present. The databases also often include old records that may be incorrect or in some cases the taxa in question have become locally or regionally extinct. Information from these sources should therefore be taken as indicative only and local knowledge and information also needs to be taken into consideration when determining what actual species may be present within the specific area being investigated.

The conservation significance of flora taxa was assessed using data from the following sources:

- Environment Protection and Biodiversity and Conservation (EPBC) Act 1999. Administered by the Australian Government (DCCEEW);
- Biodiversity Conservation (BC) Act 2016. Administered by the WA Government (DBCA);
- Red List produced by the Species Survival Commission (SSC) of the World Conservation
 Union (also known as the IUCN Red List the acronym derived from its former name of the
 International Union for Conservation of Nature and Natural Resources). The Red List has no
 legislative power in Australia but is used as a framework for State and Commonwealth
 categories and criteria; and
- Priority Flora/ Fauna list. A non-legislative list maintained by DBCA for management purposes (fauna list released 7th October 2022; flora list released 6th October 2022).

Descriptions of conservation significant species and communities are provided in Appendix A.

3.2 Flora and Vegetation Field Assessment

Botanica conducted a detailed flora/ vegetation and basic fauna survey on the 22nd to 23rd November 2021. The area was traversed, on foot and by 4WD and ATV vehicles, by Jim Williams (Director/Principal Botanist, Diploma of Horticulture) and Jennifer Jackson (Senior Botanist, BSc (Honours) Environmental Management). A total of 28 quadrats (20 m x 20 m) were installed and assessed during this survey effort. These quadrats were revisited and rescored on the 18th to 19th September 2023 by Jennifer Jackson.

A further six quadrats (20m x 20m) were installed and assessed on the 26th of October 2023 by Aidan Williams (Botanist, BSc Botany and Conservation Biology). Quadrat locations and the GPS track log of the survey effort are shown in Figure 3-1.



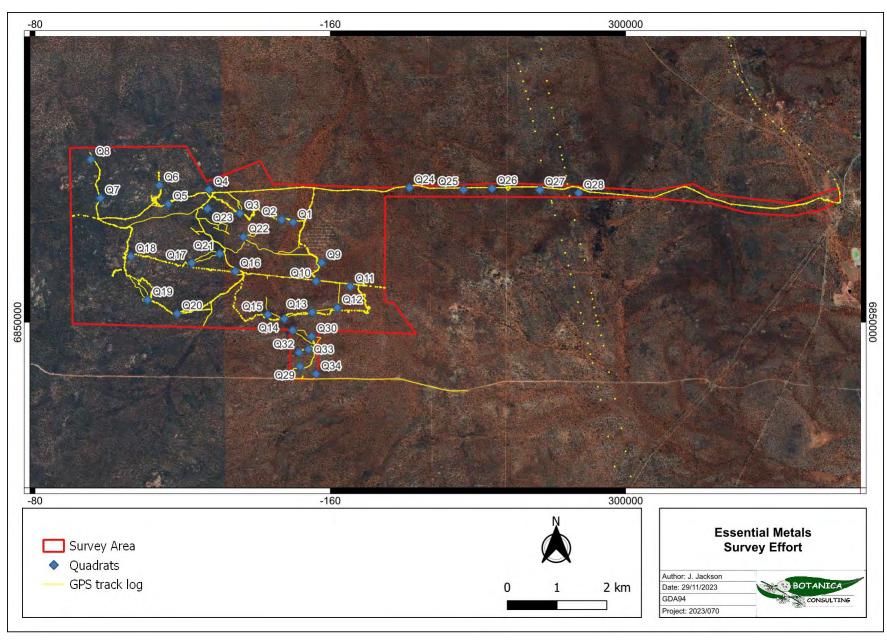


Figure 3-1: Quadrat locations and GPS track log of the survey effort

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3.2.1 Flora Assessment

Prior to the commencement of field work, aerial photography was inspected and obvious differences in the vegetation assemblages were identified. The different vegetation communities identified were then inspected during the field survey to assess their validity. A handheld GPS unit was used to record the coordinates of the boundaries between existing vegetation communities. At each sample point, the following information was recorded:

- GPS location;
- Photograph of vegetation;
- · Dominant taxa for each stratum;
- All vascular taxa (including annual taxa);
- Landform classification;
- Vegetation condition rating;
- Collection and documentation of unknown plant specimens; and
- GPS location, photograph, and collection of flora of conservation significance if encountered.

Unknown specimens collected during the survey were identified with the aid of samples housed at the Botanica Herbarium and Western Australian Herbarium. Vegetation was classified in accordance with NVIS classifications.

3.3 Data Analysis Tools

Following field assessments, vegetation types and condition were mapped using the GIS program QGIS, and the hectare area/ percentage area of each vegetation type and condition within the survey area was calculated. Spatial maps illustrating the location of vegetation types and any significant flora/ vegetation and fauna were generated using QGIS.

3.3.1 PATN Analysis

The PATN software package was used to assess the similarities/ dissimilarities between quadrats based on presence/absence of species. A total of 41 species were excluded from the analysis; 11 annuals and 30 singleton species. A total of 71 taxa recorded within the quadrats were included in the analysis.

The analysis produced a quantitative estimate of the relationship between species composition of each quadrat. The classifications were based upon a Bray-Curtis association matrix using a flexible Unweighted Pair Group Arithmetic Mean (UPGMA) method (with a beta value of -0.1) which standardises the data enabling the analysis to be completed. Semi-strong hybrid (SSH) ordination of the quadrat is then undertaken to show spatial relationships between groups and to elucidate possible environmental correlates with the classification.



The analysis also produced a stress value which is a measure of the 'strength' of the analysis (i.e., how well the quadrats are grouped together into the appropriate floristic groups). The lower the stress value the greater the strength of the analysis with a value of less than 0.3 showing that the analysis appropriately grouped quadrats. A stress value greater than 0.3 suggests that the analysis was unable to group quadrats appropriately due to extraneous variables (i.e., other factors influencing differences in floristic groups other than species composition e.g., fire, clearing disturbance etc.).

3.3.2 EstimateS

EstimateS software was used to estimate species richness present using the Chao2 richness estimator. For any number of samples, the estimator uses the existing pattern of species accumulation to estimate the true number of species at a site. The estimators tend to under-estimate species number when sample size is small, hence the estimated number of true species can be seen to increase with sample size. This software was also used to compute Coleman rarefaction curves estimates which were used to calculate species accumulation curves.

3.4 Terrestrial Fauna Field Assessment

Fauna habitat types were identified across the survey area based on broad major vegetation groups and associated landform. A handheld GPS unit was used to record the coordinates of the boundaries between fauna habitats and each habitat was photographed.

The main aim of the fauna habitat assessment was to determine the likelihood of a species of conservation significance utilising habitat within the survey area. The habitat information obtained was also used to aid in finalising the overall potential fauna list.

Available information on the habitat requirements of the species of conservation significance listed as possibly occurring in the area (determined from the desktop assessment) was researched. During the field survey, the habitats within the survey area were assessed and specific elements identified, if present, to determine the likelihood of listed Threatened and Priority species utilising habitat within the survey area.

Opportunistic observations of fauna species were made during all field survey work.

Fauna of conservation significance identified during the literature review and database searches as previously being recorded in the general area were assessed and ranked for their likelihood of occurrence within the survey area. The rankings and criteria used were:

Would Not Occur: There is no suitable habitat for the species in the survey area and/or there
is no documented record of the species in the general area since records have been kept
and/or the species is generally accepted as being locally/regionally extinct (supported by a
lack of recent records).



- Locally Extinct: Populations no longer occur within a small part of the species natural range, in this case within 10 or 20 km of the survey area. Populations do however persist outside of this area.
- Regionally Extinct: Populations no longer occur in a large part of the species natural range, in this case within the Eastern Goldfields subregion. Populations do however persist outside of this area.
- Unlikely to Occur: The survey area is outside of the currently documented distribution for the
 species in question, or no suitable habitat (type, quality, and extent) was identified as being
 present during the field assessment. Individuals of some species may occur occasionally as
 vagrants/transients especially if suitable habitat is located nearby but the site itself would not
 support a population or part population of the species.
- Possibly Occurs: Survey area is within the known distribution of the species in question and habitat of at least marginal quality was identified as likely to be present during the field survey and literature review, supported in some cases by recent records being documented in literature from within or near the survey area. In some cases, while a species may be classified as possibly being present at times, habitat may be marginal (e.g., poor quality, fragmented, limited in extent) and therefore the frequency of occurrence and/or population levels may be low.
- Known to Occur: The species in question has been positively identified as being present (for sedentary species) or as using the survey area as habitat for some other purpose (for non-sedentary/mobile species) during field surveys within or near the survey area. This information may have been obtained by direct observation of individuals or by way of secondary evidence (e.g., tracks, foraging debris, scats). In some cases, while a species may be classified as known to occur, habitat may be marginal (e.g., poor quality, fragmented, limited in extent) and therefore the frequency of occurrence and/or population levels may be low.

3.5 Scientific Licences

Table 3-1: Scientific Licenses of Botanica Staff coordinating the survey.

Licensed Staff Permit Number		Date of Expiry
Jim Williams FB62000457(licence to take flora for scientific purposes)		04/08/2025
Jennifer Jackson	FB62000309 (Licence to take flora for scientific purposes)	11/01/2024
Aidan Willians	FB62000457(licence to take flora for scientific purposes)	04/08/2025

3.5.1 Survey Limitations and Constraints

It is important to note that flora surveys will entail limitations notwithstanding careful planning and design. Potential limitations are listed in Table 3-2.



The conclusions presented in this report are based upon field data and environmental assessments and/or testing carried out over a limited period of time and are therefore merely indicative of the environmental condition of the site at the time of the field assessments. Also, it should be recognised that site conditions can change with time. Information not available at the time of this assessment which may subsequently become available may alter the conclusions presented.

Some species are reported as potentially occurring based on there being suitable habitat (quality and extent) within the survey area or immediately adjacent. The habitat requirements and ecology of many of the species known to occur in the wider area are however often not well understood or documented. It can therefore be difficult to exclude species from the potential list based on a lack of a specific habitats or microhabitats within the survey area. Because of this limitation, the potential species list produced is most likely an overestimation of those species that actually utilise the survey area for some purpose.

In recognition of survey limitations, a precautionary approach has been adopted for this assessment. Any flora species that would occur within the survey area (or immediately adjacent), as identified through ecological databases, publications, discussions with local experts/residents and the habitat knowledge of the author, has been listed as having the potential to occur.

Table 3-2: Limitations and constraints associated with the flora/ vegetation and fauna survey.

Variable	Potential Impact on Survey	Details	
Access problems	Not a constraint	The survey was conducted via 4WD, ATV and on foot. Numerous access tracks were present within the survey area providing ease of access.	
Competency/ Experience	Not a constraint	The Botanica personnel that conducted the survey were regarded as suitably qualified and experienced.	
		Coordinating Staff : Jim Williams (Botanist), Jennifer Jackson (Botanist) Aidan Williams (Botanist)	
		Data Interpretation : Jim Williams, Jennifer Jackson, and Kelby Jennings (Senior Environmental Consultant).	
Timing of survey, weather & season	Minor constraint	Fieldwork was undertaken within the EPA's recommended survey period (September - November) for the South-West and Interzone Province. However, unfavourable climate conditions may impact the presence of flowering material and ephemeral species.	
Area disturbance	Not a constraint	Most of the survey area was in very good condition and comprised of native vegetation.	
Survey Effort/ Extent	Not a constraint	Survey intensity was appropriate for the size/significance of the area with a detailed flora survey and basic fauna survey completed to identify vegetation types/ fauna habitats and significant flora, fauna, and vegetation.	
Availability of contextual information at a regional and local	Not a constraint	BoM, DWER, DPIRD, DBCA and DCCEEW databases were reviewed to obtain appropriate regional desktop information on the biophysical environment of the local region.	
scale		Botanica has conducted numerous surveys within the Coolgardie bioregion and was also able to obtain information about the area from previous research conducted within the area. Results of previous assessments in the local area were reviewed to provide context on the local environment.	



Variable	Potential Impact on Survey	Details
Completeness	Not a constraint	In the opinion of Botanica, the survey area was covered sufficiently to identify vegetation assemblages. All observed flora individuals were able to be identified to species level. Fieldwork was undertaken within the EPA's recommended survey period (September - November) for the South-West and Interzone Province. The vegetation associations for this study were based on visual descriptions of locations in the field. The distribution of these vegetation associations outside the survey area is not known, however vegetation associations identified were categorised via comparison to vegetation distributions throughout WA given on NVIS (DotEE, 2017).



4 RESULTS

4.1 Desktop Assessment

4.1.1 Flora

The ALA desktop search identified 707 vascular flora species as occurring within 40 km of the survey area, representing 229 genera from 68 families. The most diverse families were Myrtaceae (135 species), Fabaceae (84 species) and Asteraceae (74 species). The most dominant genera were *Acacia* (46 species), *Eucalyptus* (79 species) and *Eremophila* (36 species).

4.1.2 Introduced Flora

The desktop review identified 15 introduced flora (weed) species, representing six families, as potentially occurring in the vicinity of the survey area. None of these species are listed as a Declared Pest on the Western Australian Organism List (WAOL) under the *Biosecurity and Agriculture Management* (BAM) *Act 2007*. One species, *Tamarix aphylla*, is listed as a Weed of National Significance.

The full list of potential weed species is contained in Appendix B.

Table 4-1: Potentially occurring significant weed species.

Family	Taxon	Common Name	WAOL Status	Control Category	WONS
Tamaricaceae	Tamarix aphylla	Athel Tamarix	Exempt	No Control Category	Yes

4.1.3 Significant Flora

The assessment of the DBCA Priority/ Threatened flora database records (DBCA, 2022a), ALA (ALA, 2022) and Protected Matters searches (DCCEEW, 2023) and previous relevant literature identified 48 significant flora species recorded within a 40 km radius of the survey area or within similar habitat. These consist of three Threatened, 16 Priority 1, seven Priority 2, 18 Priority 3 and four Priority 4 taxa (Appendix D).

These taxa were assessed for distribution and known habitat to determine their likelihood of occurrence within the survey area. The assessment did not identify any taxa as likely to occur in the survey area. The assessment identified the Priority 3 species Eremophila acutifolia as being previously recorded within the survey area, and this had been identified in the 2021 survey (Botanica Consulting 2022b). In addition, 11 taxa were identified as possibly occurring in the survey area; consisting of three Priority 1, one Priority two and seven Priority 3 taxa (Table 4-2). The full flora likelihood assessment is listed in Appendix D. The locations of the DBCA database records are illustrated spatially in Figure 4-1.



Table 4-2: Significant flora potentially occurring within the survey area.

Status Taxon Habita		Habitat (WA Herbarium, 1998-)	Assessment	Likelihood
	Acacia dorsenna	Rocky sandy loam or clay loam. Low rocky hills.	Within known range of species, habitat may be present	Possible
P1	Bossiaea aurantiaca	Red sand, red clay loam. Low-lying, winter-damp sites.	At extreme of known range, habitat may be present	Possible
	Senecio microbasis	Schist soils. Low hills, disturbed areas in woodlands.	Very little known, previously recorded in local area	Possible
P2	Acacia kerryana	Granitic loamy sand, stony clayey loam, or clayey sand. Low stony ridges, undulating plains.	At extreme of known range, habitat may be present	Possible
	Allocasuarina eriochlamys subsp. grossa	Stony loam, laterite clay. Granite outcrops.	Within known range, habitat may be present	Possible
	Austrostipa turbinata	South south-west facing gently inclined crest of basalt and minor quartz with red-brown shallow sandy clay loam soils.	Widespread range, habitat may be present	Possible
	Chrysocephalum apiculatum subsp. norsemanense	Well-drained, aeolian loamy sand. Moderately exposed, almost flat, broad valley floor.	Within known range, habitat may be present.	Possible
P3	Eremophila acutifolia	Broad flat bottom of wide valley. Red brown powdery clay loam.	Previously recorded within survey area	Previously Recorded
	Melaleuca coccinea	Sandy loam over granite. Granite outcrops, sandplain, river valleys.	Within known range, habitat may be present	Possible
	Phlegmatospermum eremaeum	Stony loam.	Within known range of species, habitat may be present	Possible
	Stylidium choreanthum	White/yellow or red sand. Plains.	At extreme of known range, habitat may be present	Possible



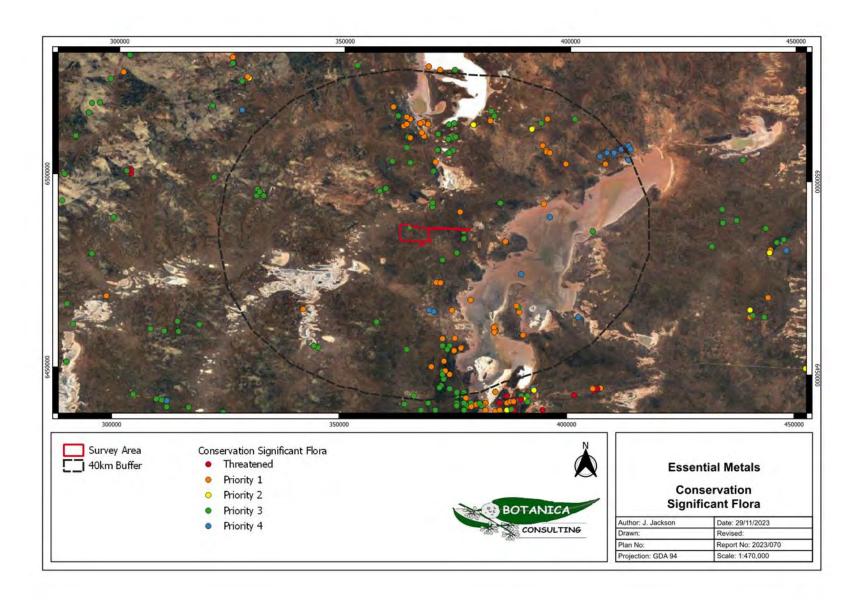


Figure 4-1: Significant flora within the desktop search area

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4.1.4 Vegetation and Ecological Communities

4.1.4.1 Vegetation Associations

The Pre-European vegetation association spatial mapping dataset (DPIRD, 2018) identified four vegetation associations as occurring within the survey area (Figure 4-2). The association descriptions and their remaining extent, as specified in the 2018 Statewide Vegetation Statistics (DBCA, 2019b) are provided in Table 4-3. Areas retaining less than 30% of their pre-European vegetation extent generally experience exponentially accelerated species loss, while areas with less than 10% are considered "endangered" (EPA, 2000). All vegetation associations retain >96% of their pre-European extent, and development within the survey area will not significantly reduce the current extent of these vegetation associations.

Table 4-3: Pre-European vegetation associations within the survey area

Vegetation Association	Current Extent (ha)	Pre-European extent remaining	% Protected for Conservation	Floristic Description	Extent within Survey Area
Binneringe 8	29,804	96.94	0.93	Medium woodland; salmon gum & gimlet	2.8 ha (0.1%)
Binneringe 128	10,827	100	2.39	Bare areas; rock outcrops	317.6 ha (11.5%)
Binneringe 522	166,395	99.87	0.34	Medium woodland; redwood (Eucalyptus transcontinentalis) & merrit (E. flocktoniae)	1824.2 ha (66.5%)
Binneringe 1413	59,850	99.97	-	Shrublands; acacia, casuarina & melaleuca thicket	602.3 ha (21.9%)

4.1.4.2 Significant Ecological Communities

The Protected Matters search (DCCEEW 2023) did not identify any Threatened Ecological Community as recorded within 40 km of the survey area. Analysis of the Priority Ecological Communities within the Goldfields region (DBCA 2022a) did not identify any additional significant vegetation assemblages as likely or possibly occurring within the survey area.



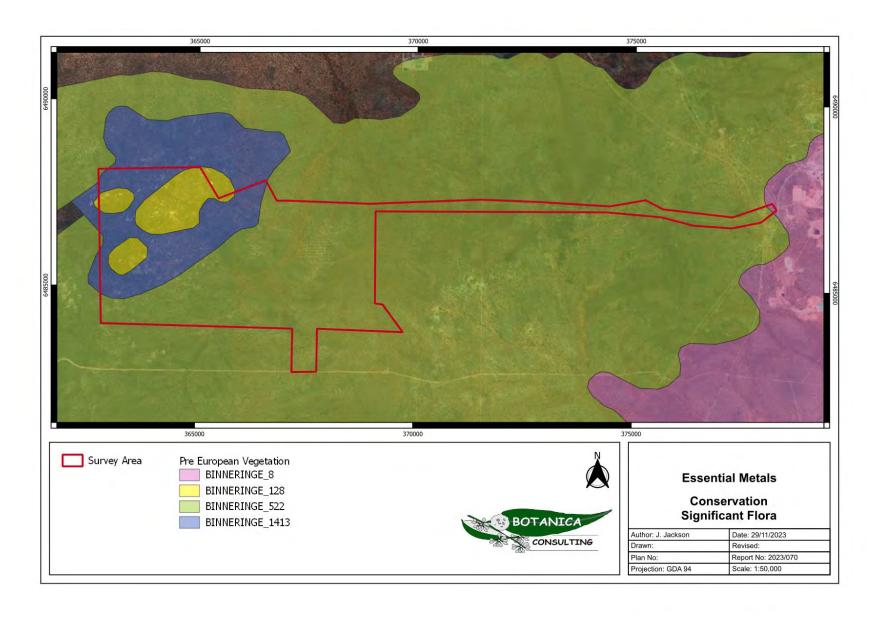


Figure 4-2: Pre-European vegetation systems within the survey area

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4.1.5 Fauna

According to the results of the ALA database search (ALA, 2022), a total of 229 terrestrial vertebrate fauna taxa have been recorded within 40 km of the survey area, consisting of 149 birds, 10 mammal, 66 reptile and four amphibian taxa.

4.1.5.1 Introduced (Feral) Fauna

The ALA and EPBC database searches identified 13 feral fauna species, representing nine families, as potentially occurring in the survey area (Table 4-4).

Table 4-4: Potentially occurring introduced (feral) fauna.

Family	Taxon	Common Name
Bovidae	Capra hircus	Goat
Camelidae	Camelus dromedarius	Dromedary, Camel
Canidae	Canis lupus familiaris	Domestic Dog
Canidae	Vulpus vulpus	Red Fox
	Columba livia	Domestic Pigeon
Columbidae	Streptopelia senegalensis	Laughing Turtle-dove
Equiidae	Equus asinus	Donkey
Equildae	Equus caballus	Horse
Felidae	Felis catus	Domestic Cat
Leporidae	Oryctolagus cuniculus	European Rabbit
Municipa	Mus musculus	House Mouse
Muridae	Rattus rattus	Black Rat
Sturnidae Sturnus vulgaris		Common Starling

4.1.5.2 Conservation Significant Fauna

The desktop review identified six terrestrial vertebrate fauna species of conservation significance as previously being recorded in the regional area, consisting of four Threatened and two migratory or otherwise protected species. In addition, six migratory wading/shorebird species were assessed collectively due to their similar habitat requirements. The full fauna likelihood assessment is listed in Appendix E.

Habitat and distribution data was used to determine the likelihood of occurrence within the survey area. The assessment identified two significant fauna species, consisting of two Vulnerable (VU) taxa, as potentially occurring in the survey area (Table 4-5).



Table 4-5: Potentially occurring significant fauna.

Species	Status	Habitat Description	Assessment	Likelihood
Grey Falcon Falco hypoleucos	VU-	Occurs at low densities across inland Australia. The species frequents timbered lowland plains, particularly acacia shrublands that are crossed by tree-lined water courses. Observed hunting in treeless areas and frequents tussock grassland and open woodland, especially in winter. Prey species are predominately birds, including doves, pigeons, small parrots and cockatoos and finches, but also small mammals and lizards.	Survey area may form part of larger home range.	Possible
Malleefowl Leipoa ocellata	VU	Scrublands and woodlands dominated by mallee and wattle species (DCCEEW, 2023b).	Few regional records, suitable habitat may be present.	Possible

4.2 Field Assessment

4.2.1 Flora

The field survey identified 110 vascular flora taxa within the survey area. These taxa represented 48 genera across 24 families. The number of flora recorded in the survey area was higher (an increase of seven species) than the previous 2021 survey, most likely due to the increase in survey area which incorporated an additional vegetation community.

The most diverse families in the survey area are (Myrtaceae (16 species), followed by Fabaceae (14 species) and Chenopodiaceae (18 species). Dominant genera include *Eremophila* (15 species), *Eucalyptus* (12 species) and *Acacia* (nine species). A total of six introduced (weed) species were recorded within the survey area. The full field species inventory is listed in Appendix F.

4.2.1.1 Introduced Flora

A total of six species of introduced flora, representing four families, was recorded within the survey area (Table 4-6). None of these species are listed as a Weed of National Significance or a Declared Pest in Western Australia. These were not recorded in quadrats but were recorded in various locations on tracks, their locations were not recorded.

Table 4-6: Introduced flora species within the survey area.

Family	Taxon	Common Name
Aizoaceae	Mesembryanthemum nodiflorum	Slender Ice-plant
Asphodelaceae	Asphodelus fistulosus	Onion Weed
	Centaurea melitensis	Maltese Cockspur
Asteraceae	Erigeron bonariensis	Fleabane
	Symphyotrichum squamatum	Bushy Starwort
Brassicaceae	Carrichtera annua	Ward's Weed



4.2.1.2 Significant Flora

According to the EPA Environmental Factor Guideline for Flora and Vegetation (EPA, 2016b) significant flora includes:

- flora being identified as threatened or priority species;
- locally endemic flora or flora associated with a restricted habitat type (e.g., surface water or groundwater dependent ecosystems);
- new species or anomalous features that indicate a potential new species;
- flora representative of the range of a species (particularly, at the extremes of range, recently discovered range extensions, or isolated outliers of the main range);
- unusual species, including restricted subspecies, varieties or naturally occurring hybrids; and
- flora with relictual status, being representative of taxonomic groups that no longer occur widely in the broader landscape.

No Threatened flora species were recorded within the survey area.

The Priority 3 species *Eremophila acutifolia* was recorded within eight quadrats, specifically Q1, Q4, Q11, Q12, Q18, Q19, Q25 and Q26 (Figure 1-1). These quadrats were associated with vegetation community CLP-EW3, with some being located in communities CLP-EW1 and RH-EW2.

No other Priority or otherwise significant flora species were recorded within the survey area.

4.2.1.2.1 Eremophila acutifolia (P3)

The Priority 3 taxon, *Eremophila acutifolia*, (Plate 1) from the Scrophulariaceae family, is a little-known species that mainly occurs in a restricted region between Lake Lefroy and Lake Cowan (Figure 4-3). Within the local area, it has been recorded as occurring in red clay-loam soils in valley floors and on flat to undulating plains. It is restricted to the Shire of Coolgardie.



Plate 1: Eremophila acutifolia (P3) within the survey area



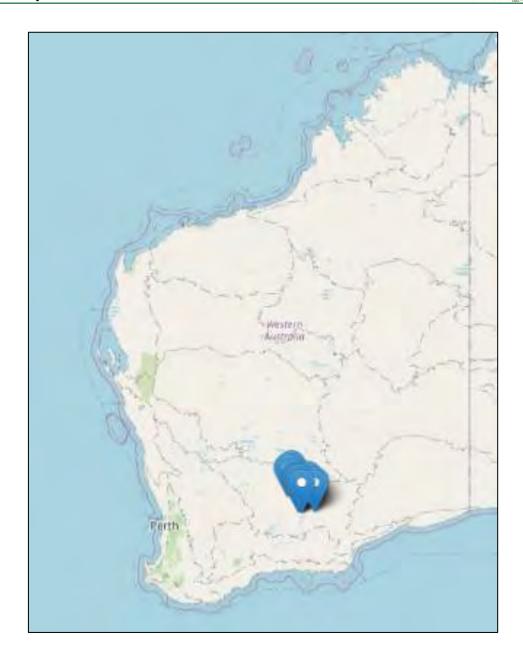


Figure 4-3: Known distribution of *Eremophila acutifolia* (WA Herbarium, 1998-)



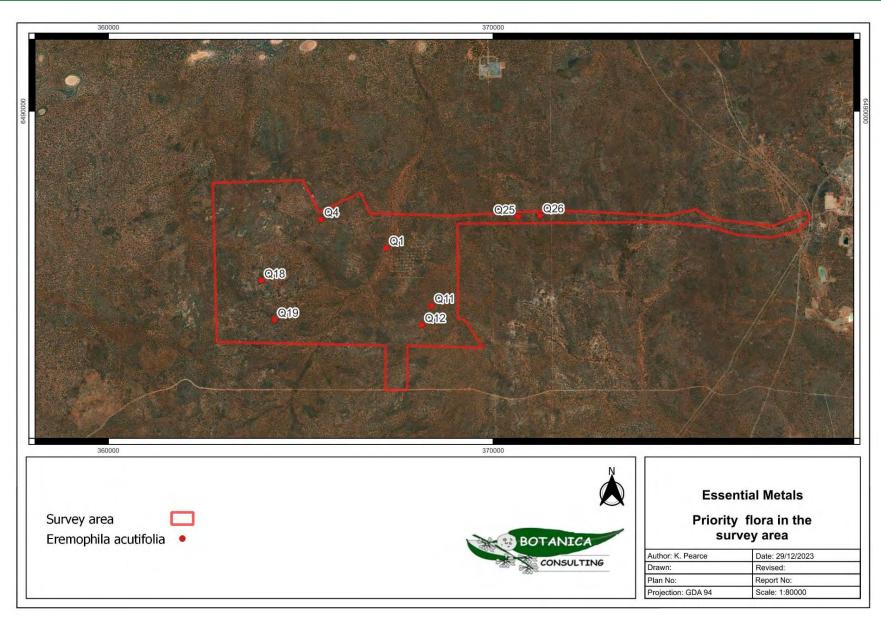


Figure 4-4: Priority flora recorded within the survey area



4.2.2 Vegetation Communities

A total of seven broad-scale vegetation communities were identified within the survey area. Vegetation community descriptions and extent are listed below in Table 4-7 and illustrated spatially in Figure 4-5. Vegetation community descriptions and extents were determined from field survey results, aerial imagery interpretation and extrapolation of the communities.

The survey found CLP-EW3 was the most widespread community in the survey area, occupying 1,341 ha (48.8%). The most restricted community and found on the edge of the survey area was SCLP-AS1, occupying 3 ha (1.0%). The community with the most flora species was CLP-EW1 with 50 species (35.4%), while the least diverse was SCLP-AS1 with 5 species (3.5%).



Table 4-7: Summary of vegetation types within the survey area

Vegetation Code	NVIS Major Vegetation Group	Vegetation Type	Landform	Image
CLP-EW1 436 ha (15.8%)	Eucalyptus open woodland (MVG 5)	Eucalyptus salmonophloia and Eremophila interstans subsp. interstans woodland over Exocarpos aphyllus, Eremophila dempsteri and Grevillea acuaria shrubland over Eremophila acutifolia, Atriplex vesicaria and Rhagodia eremaea low shrubland	Clay-loam plain	
SCLP-EW2 135 ha (4.9%)	Eucalyptus open woodland (MVG 5)	Eucalyptus urna and Santalum acuminatum woodland over Melaleuca sheathiana, Exocarpos aphyllus and Scaevola spinescens open shrubland over Eremophila caerulea and Olearia muelleri low open shrubland	Sandy clay-loam plain	
CLP-EW3 1341 ha (48.8%)	Eucalyptus open woodland (MVG 5)	Eucalyptus ravida and Santalum acuminatum open woodland over Exocarpos aphyllus and Alyxia buxifolia open shrubland over Eremophila acutifolia, Ptilotus holosericeus and Wilsonia humilis low shrubland	Clay-loam plain	



Vegetation Code	NVIS Major Vegetation Group	Vegetation Type	Landform	Image
GR-MW1 309.0 ha (11.2%)	Eucalyptus mallee woodland (MVG 14)	Eucalyptus loxophleba subsp. lissophloia, Acacia acuminata and Santalum acuminatum mallee woodland over Senna artemisioides subsp. filifolia, Eremophila alternifolia and Dodonaea adenophora shrubland over Ptilotus obovatus, Olearia pimelioides and Austrostipa elegantissima low open shrubland/ tussock grassland	Granite Outcrop	
RH-EW1 267 ha (9.7%)	Eucalyptus open woodland (MVG 11)	Eucalyptus torquata and Santalum acuminatum woodland over Dodonaea lobulata, Alyxia buxifolia and Trymalium myrtillus subsp. myrtillus open shrubland over Westringia rigida and Olearia muelleri low open shrubland	Rocky hillslope	
RH-EW2 256 ha (9.3%)	Eucalyptus open woodland (MVG 11)	Eucalyptus lesouefii, Eucalyptus stricklandii and Melaleuca pauperiflora woodland over Eremophila psilocalyx, Alyxia buxifolia and Acacia erinacea shrubland over Westringia rigida, Eremophila caerulea and Olearia muelleri low open shrubland	Rocky hillslope	



Vegetation Code	NVIS Major Vegetation Group	Vegetation Type	Landform	Image
SCLP-AS1 3 ha (1%)	Acacia shrubland (MVG 16)	Tall Acacia yorkrakinensis shrubland over low Olearia muelleri open shrubland over low Triodia rigidissima hummock grassland on sandy clay loam plain.	Sandy clay loam plain	



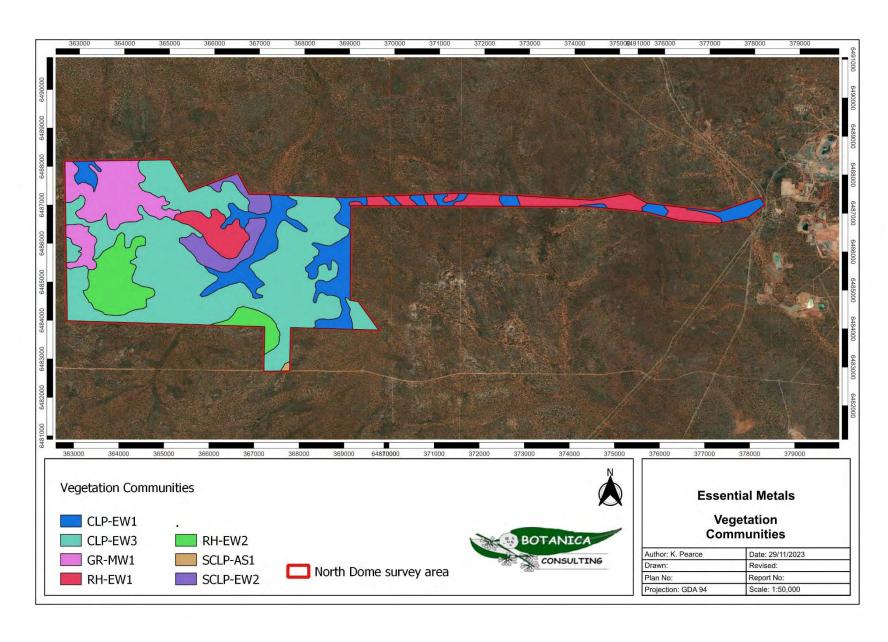


Figure 4-5: Vegetation types within the survey area



4.2.3 Floristic Composition

Statistical analysis was conducted on quadrat data obtained from the survey to determine the similarities or differences in floristic composition between vegetation associations. The dendrogram, two-way table and ordination graph generated from the PATN statistical analysis is provided in Appendix G. A list of the 34 quadrats and their respective vegetation associations are provided in Table 4-8. The PATN analysis produced a stress value of 0.2166.

Table 4-8: Vegetation communities with corresponding quadrats

Vegetation Community	Vegetation Code	Quadrats
Eucalyptus salmonophloia and Eremophila interstans subsp. interstans woodland over Exocarpos aphyllus, Eremophila dempsteri and Grevillea acuaria shrubland over Eremophila acutifolia, Atriplex vesicaria and Rhagodia eremaea low shrubland	CLP-EW1	Q1, Q8, Q11, Q16, Q25
Eucalyptus urna and Santalum acuminatum woodland over Melaleuca sheathiana, Exocarpos aphyllus and Scaevola spinescens open shrubland over Eremophila caerulea and Olearia muelleri low open shrubland	SCLP-EW2	Q2, Q21
Eucalyptus ravida and Santalum acuminatum open woodland over Exocarpos aphyllus and Alyxia buxifolia open shrubland over Eremophila acutifolia, Ptilotus holosericeus and Wilsonia humilis low shrubland	CLP-EW3	Q4, Q9, Q10, Q12, Q13, Q17, Q20, Q29, Q30, Q33
Eucalyptus loxophleba subsp. lissophloia, Acacia acuminata and Santalum acuminatum mallee woodland over Senna artemisioides subsp. filifolia, Eremophila alternifolia and Dodonaea adenophora shrubland over Ptilotus obovatus, Olearia pimelioides and Austrostipa elegantissima low open shrubland/ tussock grassland	GR-MW1	Q5, Q6, Q7
Eucalyptus torquata and Santalum acuminatum woodland over Dodonaea lobulata, Alyxia buxifolia and Trymalium myrtillus subsp. myrtillus open shrubland over Westringia rigida and Olearia muelleri low open shrubland	RH-EW1	Q3, Q22, Q23, Q24, Q26, Q27, Q28
Eucalyptus lesouefii, Eucalyptus stricklandii and Melaleuca pauperiflora woodland over Eremophila psilocalyx, Alyxia buxifolia and Acacia erinacea shrubland over Westringia rigida, Eremophila caerulea and Olearia muelleri low open shrubland	RH-EW2	Q14, Q15, Q18, Q19, Q31, Q32
Tall Acacia yorkrakinensis shrubland over low Olearia muelleri open shrubland over low Triodia rigidissima hummock grassland on sandy clay loam plain.	SCLP-AS1	Q34

A total of six species groups were identified in the analysis (species group A to F) as shown in the two-way table (Appendix G).

The first floristic group comprised of three of the five CLP-EW1 quadrats and all three GR-MW1 quadrats. This floristic group was characterised by species group A and F, with an average species richness of 18 taxa per quadrat (ranged from 13 to 23 taxa per quadrat).

The second floristic group included the two remaining CLP-EW1 quadrats, two of the ten CLP-EW3 quadrats and a single quadrat from RH-EW1 and RH-EW2. This floristic group was similar in composition to the first, being mostly characterised by species A. This floristic group had an average species richness of 10 taxa per quadrat (ranged from five to 14 taxa per quadrat).



The third floristic group comprised of three CLP-EW3 quadrats, both SCLP-EW2 quadrats and one RH-EW1 quadrat. This floristic group was mostly characterised by species group C with an average species richness of 10 taxa per quadrat (ranged from six to 15 taxa per quadrat).

The fourth floristic group comprised of all remaining RH-EW1 quadrats, three of the six RH-EW2 quadrats and three CLP-EW3 quadrats. This floristic group was also characterised by species group C and D, with an average species richness of 16 taxa per quadrat (ranged from 13 to 19 taxa per quadrat).

The fifth floristic group comprised of two remaining CLP-EW3 quadrats and two remaining RH-EW2 quadrats and was also characterised by species group C, with an average species richness of eight taxa per quadrat (ranged from five to ten taxa per quadrat).

The sixth floristic group was represented by a single quadrat (Q34) of the SCLP-AS1 vegetation community.

Results of the PATN analysis indicate a high degree of heterogeneity and intermixing of vegetation types despite differences in landform however field based observations of vegetation type delineations were mostly supported by the results of the PATN analysis.

4.2.4 Species Richness and Accumulation Estimates

A total of 110 species were recorded within the 34 quadrats. The Chao 2 richness estimator provided an estimated species richness of 112 species in 34 sample sites (quadrats). A species accumulation curve was created to display the rate of species accumulation. The R² value (0.98) suggests that the data "fits" the species accumulation curve shown in Figure 4-6. Species accumulation ranged from ten to three species per quadrat from 1-15 sample sites, and two or one species per quadrat between 16-34 sample sites. Botanica has determined that according to this data enough quadrats were established in the survey area to adequately assess the floristic composition of the area.



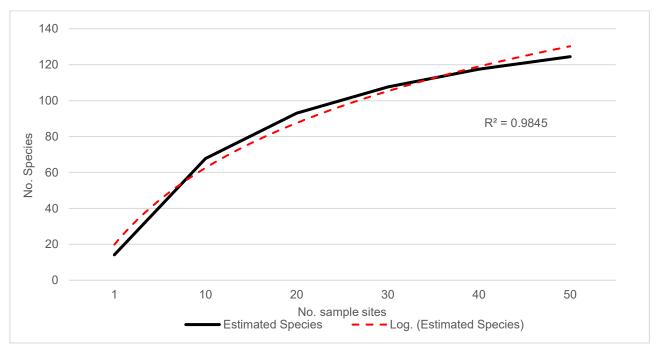


Figure 4-6: Species accumulation curve

4.2.5 Vegetation Condition

Based on the vegetation condition rating scale adapted from Keighery (1994) and Trudgen, (1988), native vegetation within the survey area was categorized as 'very good' to 'good'. (Table 4-9, Figure 4-7). Vegetation condition rating descriptions are listed in Appendix H. Disturbances within the survey area included access tracks, low levels of grazing and historical impacts. Of note was a large area in the western section of the survey area where crown decline was observed, this was considered to be due to drought.

Table 4-9: Vegetation condition rating within the survey area

Condition rating	Description	Area (ha)	Area (%)	
Very Good	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.	2591	94.44	
Good	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.	150	5.46	
Completely Degraded	Areas that are completely or almost completely without native species in the structure of their vegetation, i.e., areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.	3	0.1	
	TOTAL			



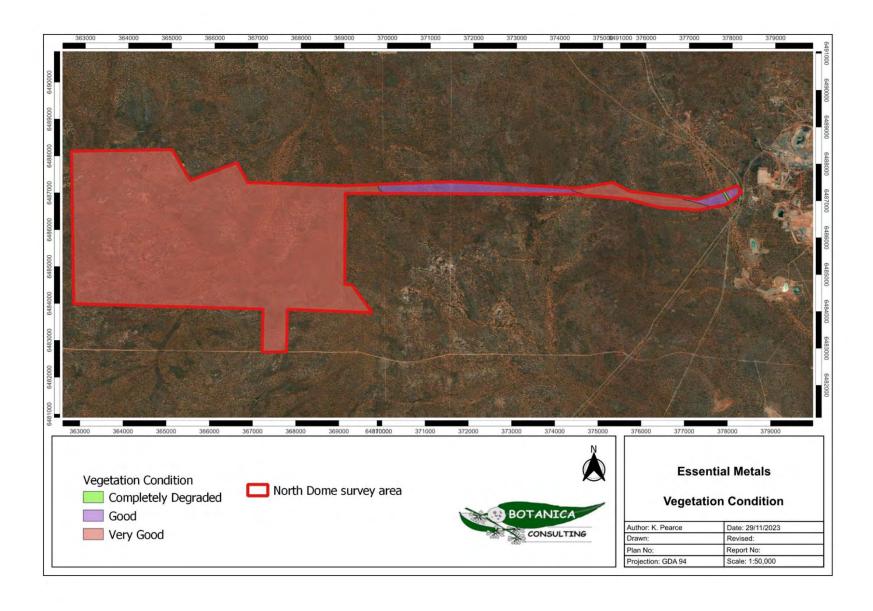


Figure 4-7: Vegetation condition within the survey area



4.2.6 Significant Vegetation

According to the EPA *Environmental Factor Guideline for Flora and Vegetation* (EPA, 2016b) significant vegetation includes:

- vegetation being identified as threatened or priority ecological communities;
- vegetation with restricted distribution;
- vegetation subject to a high degree of historical impact from threatening processes;
- vegetation which provides a role as a refuge; and
- vegetation providing an important function required to maintain ecological integrity of a significant ecosystem.

No Threatened, Priority or otherwise significant ecological communities were identified within the survey area.

4.2.7 Fauna Habitat

Based on vegetation and associated landforms identified during the flora and vegetation assessment, four broad-scale terrestrial fauna habitats were identified as occurring within the survey area. Table 4-11 provides the area and a visual representation of fauna habitat types, and the extent of fauna habitats is shown spatially in Figure 4-8.

4.2.7.1 Opportunistic Fauna Observations

During the field survey opportunistic observations of fauna species were made with eight fauna species observed (including one introduced fauna*) (Table 4-10).

Table 4-10: Fauna species observed during the field survey

Taxon	Common Name	Comments
Birds		
Dromaius novahollandiae	Emu	Tracks observed
Rhipidura leucophrys	Willie wagtail	Observed
Strepera versicolor	Grey currawong	Heard
Barnardius zonarius	Ringneck parrot	Observed
Reptiles		
Ctenophorus caudicinctus	Bicycle dragon	Observed
Tiliqua rugosa	Bobtail lizard	Observed
Mammals		
Macropus sp	Kangaroo	Tracks observed
Oryctolagus cuniculus *	Rabbit	Scats observed



Table 4-11: Main terrestrial fauna habitats within the survey area

Fauna Habitat	Description	Representative Fauna Attributes	Possibly Occurring Conservation Significant Species	Example Image
Eucalyptus woodland on clay-loam plain Area= 1912 ha (69.60%)	Eucalyptus woodland over Eremophila, Exocarpos and Grevillea shrubland	Ground moderately suited to burrowing species. Low to moderate diversity vegetation strata supporting avifauna assemblage. Moderate vegetation density and moderate leaf litter.	Malleefowl Leipoa ocellata Grey Falcon Falco hypoleucos	
Eucalyptus low mallee woodland on granite outcrop Area= 309.0 ha (11.24%)	Eucalyptus, Acacia and Santalum mallee woodland over Senna and Dodonaea shrubland	 Ground not suited to burrowing species. Low diversity vegetation strata. Multiple rocky crevices provide fauna refuge. Low vegetation density and leaf litter. 	Malleefowl Leipoa ocellata	



Fauna Habitat	Description	Representative Fauna Attributes	Possibly Occurring Conservation Significant Species	Example Image
Eucalyptus woodland on rocky hillslope Area= 523 ha (19.03%)	Eucalyptus open woodland over Eremophila, Acacia and Dodonaea shrubland	 Ground not particularly to burrowing species. Low diversity vegetation strata Low vegetation density and low to moderate leaf litter 	Malleefowl Leipoa ocellata	
Acacia shrubland on sandy clay loam plain Area = 3 ha (0.109%)	Tall Acacia yorkrakinensis shrubs over low isolated shrubs with some hummock grass.	 Ground moderately suited to burrowing species. Low diversity vegetation strata Low vegetation density and with moderate to high levels of leaf litter Hummock grass provide good habitat for reptiles and small mammals 	Malleefowl Leipoa ocellata	



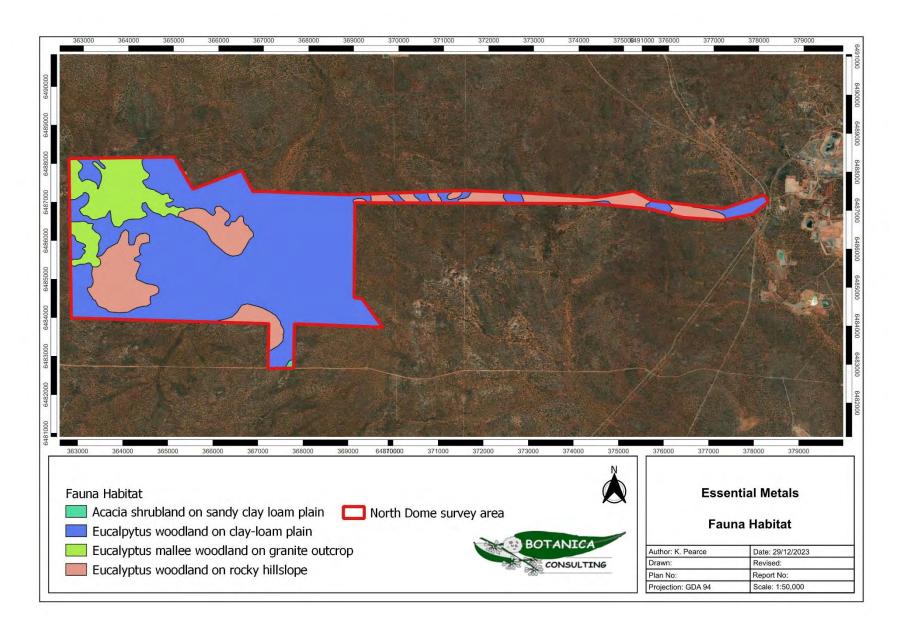


Figure 4-8: Fauna habitats within the survey area



4.2.8 Significant Fauna

According to the EPA *Environmental Factor Guideline for Terrestrial Fauna* (EPA, 2016c) significant fauna includes:

- Fauna being identified as a Threatened or Priority species;
- Fauna species with restricted distribution;
- Fauna subject to a high degree of historical impact from threatening processes; and
- Fauna providing an important function required to maintain the ecological integrity of a significant ecosystem.

No evidence for the presence of Malleefowl, including nesting mounds, tracks, or other signs, were recorded within the survey area. No other evidence of significant fauna species was observed during the survey.

The current status of some species on site and/or in the general area is difficult to determine, however, based on the habitats present and, in some cases, direct observations or recent nearby records, the following species of conservation significance can be regarded as possibly utilising the survey area for some purpose at times, these being:

- Malleefowl (*Leipoa ocellata*) Vulnerable (EPBC Act and BC Act)
 This species is occasionally recorded in the Eastern Goldfield subregion. The majority of habitat within the survey area appears suitable breeding due to the moderate density of the vegetation and leaf litter. However, no evidence of this species occurring within the survey area was recorded. Significant impact unlikely.
- Grey Falcon (Falco hypoleucos) Vulnerable (EPBC Act and BC Act)
 This species is sparsely recorded throughout inland Australia. The survey area likely represents the southern extreme of the range of this species. Suitable habitat may be present but is unlikely to represent critical habitat. Significant impact unlikely.

It should be noted that while habitats onsite for one or more of the species listed above are considered possibly suitable, some or all may be marginal in extent/quality and therefore the fauna species considered as possibly occurring may in fact only visit the area for short periods as infrequent vagrants.



4.3 Matters of National Environmental Significance

4.3.1 Environment Protection and Biodiversity Conservation Act 1999

The EPBC Act protects matters of national environmental significance and is used by the Commonwealth DCCEEW to list threatened taxa and ecological communities into categories based on the criteria set out in the Act (www.environment.gov.au/epbc/index.html). The Act provides a national environmental assessment and approval system for proposed developments and enforces strict penalties for unauthorised actions that may affect matters of national environmental significance. Matters of national environmental significance as defined by the Commonwealth EPBC Act include:

- Nationally threatened flora and fauna species;
- · World heritage properties;
- National heritage places;
- Wetlands of international importance (often called 'Ramsar' wetlands after the international treaty under which such wetlands are listed);
- Nationally threatened ecological communities;
- Commonwealth marine area;
- The Great Barrier Reef Marine Park; and
- Nuclear actions (including uranium mining) a water resource, in relation to coal seam gas development and large coal mining development.

No Matters of National Environmental Significance were identified within the survey area.

4.4 Matters of State Environmental Significance.

4.4.1 Environmental Protection Act WA 1986

The EP Act provides for the prevention, control and abatement of pollution and environmental harm, for the conservation, preservation, protection, enhancement, and management of the environment. The Act is administered by The Department of Water and Environment Regulation (DWER), which is the State Government's environmental regulatory agency.

Under Section 51C of the EP Act and the *Environmental Protection (Clearing of Native Vegetation)* Regulations (Regulations) WA 2004 any clearing of native vegetation in Western Australia that is not eligible for exemption under Schedule 6 of the EP Act 1986 or under the Regulations 2004 requires a clearing permit from the DWER or DMIRS. Under Section 51A of the EP Act 1986 native vegetation includes aquatic and terrestrial vegetation indigenous to Western Australia, and intentionally planted vegetation declared by regulation to be native vegetation, but not vegetation planted in a plantation or planted with commercial intent. Section 51A of the EP Act 1986 defines clearing as "the killing or destruction of; the removal of; the severing or ringbarking of trunks or stems of; or the doing of



substantial damage to some or all of the native vegetation in an area, including the flooding of land, the burning of vegetation, the grazing of stock or an act or activity that results in the above". Exemptions under Schedule 6 of the EP Act and the EP Regulations do not apply in ESAs as declared under Section 51B of the EP Act or TEC listed under State and Commonwealth legislation.

No Matters of State Environmental Significance were identified within the survey area.

4.4.2 Biodiversity Conservation Act 2016

This Act is used by the Western Australian DBCA for the conservation and protection of biodiversity and biodiversity components in Western Australia and to promote the ecologically sustainable use of biodiversity components in the State. Taxa are classified as 'Threatened" when their populations are geographically restricted or are threatened by local processes (see following sections for Threatened definitions). Under this Act all native flora and fauna are protected throughout the State. Financial penalties are enforced under this Act if threatened species are collected without an appropriate license.

Under Section 54(1) of the BC Act, habitat is eligible for listing as critical habitat if:

- a) it is critical to the survival of a threatened species or a threatened ecological community; and
- b) its listing is otherwise in accordance with the ministerial guidelines.

No threatened species or critical habitat listed under the BC Act were recorded within the survey area.

4.5 Other Areas of Conservation Significance

The DBCA lists 'Priority' species and communities which are under consideration for declaration as 'Threatened' under the BC Act. These Priority species/ communities have no formal legal protection until they are endorsed by the Minister as being Threatened.

No Priority species or PEC as listed DBCA were identified within the survey area.

No Environmentally Sensitive Areas were identified within the survey area.

There are no wetlands of international importance (Ramsar Wetlands) or national importance (Australian Nature Conservation Agency Wetlands) within the survey area.

There are no proposed nor gazetted conservation reserves within the survey area.

The closest conservation reserve is Binaronca Nature Reserve vested with the Conservation Commission of WA for the conservation of flora and fauna, located approximately 4 km north of the survey area. Activities within the survey area are unlikely to impact this reserve.



Both proposed and gazetted conservation reserves are managed by DBCA, with gazetted conservation reserves vested with the Conservation and Parks Commission of Western Australia. The Conservation and Parks Commission is an independent statutory authority that was established under the Conservation and Land Management (CALM) Act 1984 in November 2000 and is the controlling body in which the State's conservation estate, including national parks, conservation parks, nature reserves, state forests and timber reserves, are vested. The Conservation and Parks Commission develops policies and provides independent advice to the Minister for Environment with respect to conservation, the management of ecological biodiversity and the application of ecologically sustainable forest management. The DBCA manages land on behalf of the Conservation and Parks Commission.

The location of proposed and gazetted conservation reserves, ESAs, and Nationally Important Wetlands in relation to the survey area is provided in Figure 4-9.



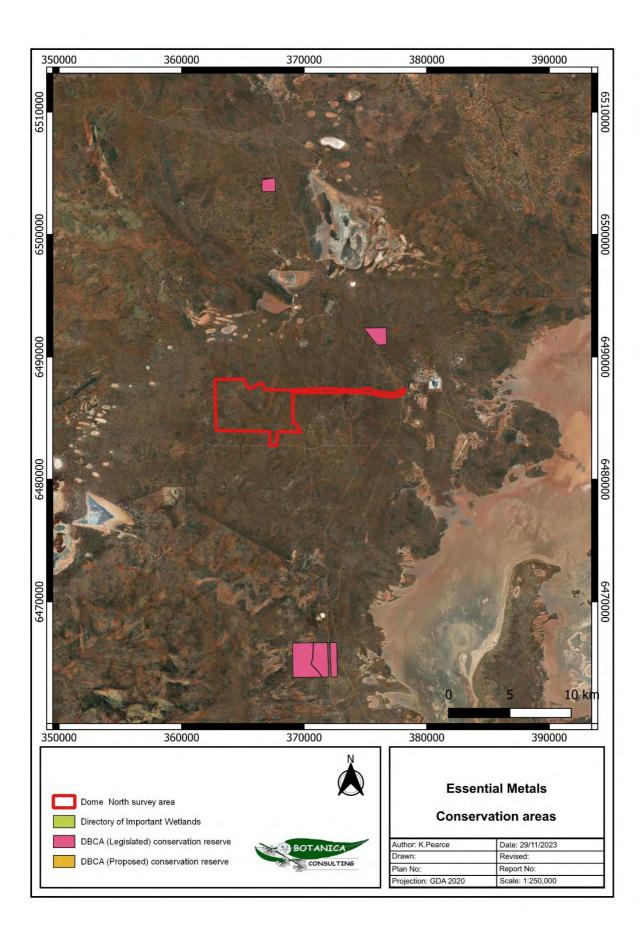


Figure 4-9: Areas of conservation significance



4.6 Native Vegetation Clearing Principles

Based on the outcomes from the survey undertaken, Botanica assessed the results of the desktop and field survey with regards to the native vegetation clearing principles listed under Schedule 5 of the EP Act (Table 4-12). The assessment found that the proposed vegetation clearing activities may be at variance with clearing principle (f).

Table 4-12: Assessment against native vegetation clearing principles.

Letter	Principle			
	regetation should not be cleared if	Assessment	Outcome	
(a)	comprises a high level of biological diversity.	Vegetation within the survey area is considered to be of low biological diversity and is well represented outside the survey area.	Clearing is unlikely to be at variance with this principle	
(b)	comprises the whole or part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to WA.	The basic fauna search did not record any evidence for the presence of significant fauna or habitat within the survey area.	Clearing is unlikely to be at variance with this principle	
(c)	includes, or is necessary for the continued existence of rare flora.	No Threatened Flora taxa, pursuant to the BC Act and the EPBC Act were identified within the survey area.	Clearing is unlikely to be at variance with this principle	
(d)	comprises the whole or part of or is necessary for the maintenance of a threatened ecological community (TEC).	No Threatened Ecological Communities were identified as potentially occurring within the survey area.	Clearing is unlikely to be at variance with this principle	
(e)	is significant as a remnant of native vegetation in an area that has been extensively cleared	All vegetation associations retain over 96% of their pre-European extent.	Clearing is unlikely to be at variance with this principle	
(f)	is growing, in, or in association with, an environment associated with a watercourse or wetland	There are no permanent or ephemeral water bodies within the survey area. There are also no perennial drainage lines within the survey area, however multiple minor ephemeral drainage lines intersect with the survey area. These minor ephemeral drainage lines were mostly associated with vegetation community CLP-EW1 which represents 15.8% of the total survey area.	Clearing may be at variance with this principle	
(g)	Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.	The survey area and surrounding region has not been extensively cleared. Clearing within the survey area is not considered likely to lead to land degradation issues such as salinity, water logging or acidic soils.	Clearing is unlikely to be at variance with this principle	
(h)	Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.	There are no conservation reserves within or adjacent to the survey area. The nearest Reserve is the Binaronca Nature Reserve located approximately 4 km north of the survey area.	Clearing is unlikely to be at variance with this principle	
(i)	Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.	There are no permanent or ephemeral water bodies within the survey area. There are also no perennial drainage lines within the survey area, however multiple minor ephemeral drainage lines intersect with the survey area. These minor ephemeral drainage lines were mostly associated with vegetation community CLP-EW1 which represents 15.8% of the total survey area. Clearing activities are unlikely to impact hydrological systems.	Clearing is unlikely to be at variance with this principle	



Letter Native v	Principle regetation should not be cleared if	Assessment	Outcome
it:			
(j)	Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence of flooding	Rainfall in the Eastern Goldfields subregion has an average rainfall of 200-300mm and an evaporation rate of 2400 mm. Rainfall data for Kalgoorlie-Boulder indicates that rainfall is spread throughout the year and rainfall events are unlikely to result in localised flooding. Clearing within the survey area is not likely to increase the incidence or intensity of flooding within the survey area or surrounds.	Clearing is unlikely to be at variance with this principle



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APPENDIX A: CONSERVATION RATINGS BC ACT AND EPBC ACT

Definitions of Conservation Significant Species

Code	Category			
State categorie	State categories of Threatened and Priority species			
under section 19	ecies (T) of the Minister as Threatened in the category of critically endangered, endangered, or vulnerable $\Theta(1)$, or is a rediscovered species to be regarded as Threatened species under section 26(2) of Conservation Act 2016 (BC Act).			
	Critically Endangered			
CR	Threatened species considered to be "facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with criteria set out in the ministerial guidelines". Listed as critically endangered under section 19(1)(a) of the BC Act in accordance with the criteria set out in section 20 and the ministerial guidelines. Published under schedule 1 of the			
	Wildlife Conservation (Specially Protected Fauna) Notice 2018 for critically endangered fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for critically endangered flora.			
	Endangered Threatened species considered to be "facing a very high risk of extinction in the wild in the near future, as determined in accordance with criteria set out in the ministerial guidelines".			
EN	Listed as endangered under section 19(1)(b) of the BC Act in accordance with the criteria set out in section 21 and the ministerial guidelines. Published under schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for endangered fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for endangered flora.			
	Vulnerable			
	Threatened species considered to be "facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with criteria set out in the ministerial guidelines".			
VU	Listed as vulnerable under section 19(1)(c) of the BC Act in accordance with the criteria set out in section 22 and the ministerial guidelines. Published under schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for vulnerable fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for vulnerable flora.			
Extinct species Listed by order	of the Minister as extinct under section 23(1) of the BC Act as extinct or extinct in the wild.			
EX	Extinct Species where "there is no reasonable doubt that the last member of the species has died", and listing is otherwise in accordance with the ministerial guidelines (section 24 of the BC Act).			
	Published as presumed extinct under schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018 for extinct fauna or the Wildlife Conservation (Rare Flora) Notice 2018 for extinct flora.			
EW	Extinct in the Wild Species that "is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; and it has not been recorded in its known habitat or expected habitat, at appropriate seasons, anywhere in its past range, despite surveys over a time frame appropriate to its life cycle and form", and listing is otherwise in accordance with the ministerial guidelines (section 25 of the BC Act). Currently there are no Threatened fauna or Threatened flora species listed as extinct in the			
	wild. If listing of a species as extinct in the wild occurs, then a schedule will be added to the applicable notice.			
Specially protected species Listed by order of the Minister as specially protected under section 13(1) of the BC Act. Meeting one or more of				
the following cat to international a	egories: species of special conservation interest; migratory species; cetaceans; species subject agreement; or species otherwise in need of special protection.			
	e listed as Threatened species (critically endangered, endangered, or vulnerable) or extinct ne BC Act cannot also be listed as Specially Protected species.			
IA	International Agreement/ Migratory Fauna that periodically or occasionally visit Australia or an external Territory or the exclusive economic zone; or the species is subject of an international agreement that relates to the protection of migratory species and that binds the Commonwealth; and listing is otherwise in accordance with the ministerial guidelines (section 15 of the BC Act).			



Code	Category
	Includes birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and fauna subject to the <i>Convention on the Conservation of Migratory Species of Wild Animals</i> (Bonn Convention), an environmental treaty under the United Nations Environment Program. Migratory species listed under the BC Act are a subset of the migratory animals, that are known to visit Western Australia, protected under the international agreements or treaties, excluding species that are listed as Threatened species.
	Published as migratory birds protected under an international agreement under schedule 5 of the <i>Wildlife Conservation (Specially Protected Fauna) Notice 2018.</i>
CD	Species of special conservation interest Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as Threatened, and listing is otherwise in accordance with the ministerial guidelines (section 14 of the BC Act). Published as conservation dependent fauna under schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018.
OS	Other specially protected species Fauna otherwise in need of special protection to ensure their conservation, and listing is otherwise in accordance with the ministerial guidelines (section 18 of the BC Act). Published as other specially protected fauna under schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice 2018.

Priority species

Possibly Threatened species that do not meet survey criteria, or are otherwise data deficient, are added to the Priority Fauna or Priority Flora Lists under Priorities 1, 2 or 3. These three categories are ranked in order of Priority for survey and evaluation of conservation status so that consideration can be given to their declaration as Threatened Fauna or Flora.

Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been recently removed from the threatened species or other specially protected fauna lists for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring.

Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

spread of location	ns.
	Priority 1: Poorly-known species
P1	Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.
	Priority 2: Poorly-known species
P2	Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.
	Priority 3: Poorly-known species
P3	Species that are known from several locations, and the species does not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.
P4	Priority 4: Rare, Near Threatened and other species in need of monitoring (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection but could be if present circumstances change. These species are usually represented on conservation lands. (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for vulnerable but are not listed as Conservation Dependent. (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.
Commonwealth	categories of Threatened species



Code	Category
EX	Extinct
	Taxa where there is no reasonable doubt that the last member of the species has died.
	Extinct in the Wild
EW	Taxa where it is known only to survive in cultivation, in captivity or as a naturalised population well outside its past range; or it has not been recorded in its known and/or expected habitat, at appropriate seasons, anywhere in its past range, despite exhaustive surveys over a time frame appropriate to its life cycle and form.
	Critically Endangered
CR	Taxa that are facing an extremely high risk of extinction in the wild in the immediate future, as determined in accordance with the prescribed criteria.
	Endangered
EN	Taxa which are not critically endangered and is facing a very high risk of extinction in the wild in the near future, as determined in accordance with the prescribed criteria.
	Vulnerable
VU	Taxa which are not critically endangered or endangered and is facing a high risk of extinction in the wild in the medium-term future, as determined in accordance with the prescribed criteria.
	Conservation Dependent
	Taxa which are the focus of a specific conservation program the cessation of which would result in the species becoming vulnerable, endangered or critically endangered; or (b) the following subparagraphs are satisfied:
	(i) the species is a species of fish;
CD	(ii) the species is the focus of a plan of management that provides for actions necessary to stop the decline of, and support the recovery of, the species so that its chances of long term survival in nature are maximised;
	(iii) the plan of management is in force under a law of the Commonwealth or of a State or Territory;
	(iv) cessation of the plan of management would adversely affect the conservation status of the species.

Definitions of conservation significant communities

Category Code	Category
State categor	ies of Threatened Ecological Communities (TEC)
	Presumed Totally Destroyed
PD	An ecological community will be listed as Presumed Totally Destroyed if there are no recent records of the community being extant and either of the following applies:
PD	 records within the last 50 years have not been confirmed despite thorough searches or known likely habitats or;
	all occurrences recorded within the last 50 years have since been destroyed.
	Critically Endangered
	An ecological community will be listed as Critically Endangered when it has been adequately surveyed and is found to be facing an extremely high risk of total destruction in the immediate future, meeting any one of the following criteria:
CR	The estimated geographic range and distribution has been reduced by at least 90% and is either continuing to decline with total destruction imminent, or is unlikely to be substantially rehabilitated in the immediate future due to modification:
	The current distribution is limited i.e. highly restricted, having very few small or isolated occurrences, or covering a small area;
	The ecological community is highly modified with potential of being rehabilitated in the immediate future.
	Endangered
EN	An ecological community will be listed as Endangered when it has been adequately surveyed and is not Critically Endangered but is facing a very high risk of total destruction in the near future. The ecological community must meet any one of the following criteria:
	The estimated geographic range and distribution has been reduced by at least 70% and is either continuing to decline with total destruction imminent in the short-term future, or is unlikely to be substantially rehabilitated in the short-term future due to modification;



Catagory	
Category Code	Category
	The current distribution is limited i.e. highly restricted, having very few small or isolated occurrences, or covering a small area;
	The ecological community is highly modified with potential of being rehabilitated in the short-term future.
	Vulnerable
	An ecological community will be listed as Vulnerable when it has been adequately surveyed and is not Critically Endangered or Endangered but is facing high risk of total destruction in the medium to long term future. The ecological community must meet any one of the following criteria:
VU	The ecological community exists largely as modified occurrences that are likely to be able to be substantially restored or rehabilitated;
	The ecological community may already be modified and would be vulnerable to threatening process, and restricted in range or distribution;
	The ecological community may be widespread but has potential to move to a higher threat category due to existing or impending threatening processes.
Commonwea	Ith categories of Threatened Ecological Communities (TEC)
CE	Critically Endangered If, at that time, an ecological community is facing an extremely high risk of extinction in the wild in the immediate future (indicative timeframe being the next 10 years).
EN	Endangered If, at that time, an ecological community is not critically endangered but is facing a very high risk of extinction in the wild in the near future (indicative timeframe being the next 20 years).
VU	Vulnerable If, at that time, an ecological community is not critically endangered or endangered, but is facing a high risk of extinction in the wild in the medium–term future (indicative timeframe being the next 50 years).
Priority Ecolo	gical Communities
	Poorly-known ecological communities
P1	Ecological communities with apparently few, small occurrences, all or most not actively managed for conservation (e.g. within agricultural or pastoral lands, urban areas, active mineral leases) and for which current threats exist.
	Poorly-known ecological communities
P2	Communities that are known from few small occurrences, all, or most of which are actively managed for conservation (e.g. within national parks, conservation parks, nature reserves, State forest, un-allocated Crown land, water reserves, etc.) and not under imminent threat of destruction or degradation.
	Poorly known ecological communities
	Communities that are known from several to many occurrences, a significant number or area of which are not under threat of habitat destruction or degradation or:
P3	Communities known from a few widespread occurrences, which are either large or within significant remaining areas of habitat in which other occurrences may occur, much of it not under imminent threat, or;
	Communities made up of large, and/or widespread occurrences, that may or not be represented in the reserve system, but are under threat of modification across much of their range from processes such as grazing and inappropriate fire regimes.
P4	Ecological communities that are adequately known, rare but not threatened or meet criteria for near threatened, or that have been recently removed from the threatened list. These communities require regular monitoring.
	Conservation Dependent ecological communities
P5	Ecological communities that are not threatened but are subject to a specific conservation program, the cessation of which would result in the community becoming threatened within five years.



APPENDIX B: POTENTIALLY OCCURRING INTRODUCED (WEED) FLORA SPECIES

Family	Taxon	Common Name	WAOL Status	Control Category	WONS
	Centaurea melitensis	Maltese Cockspur	Permitted - s11	No Control Category	No
	Hypochaeris glabra	Smooth Cats-Ear	Permitted - s11	No Control Category	No
Asteraceae	Monoculus monstrosus		Permitted - s11	No Control Category	No
	Oncosiphon suffruticosum	Calomba Daisy	Permitted - s11	No Control Category	No
	Sonchus oleraceus	Common Sowthistle	Permitted - s11	No Control Category	No
Pressiones	Brassica rapa	-	Permitted - s11	No Control Category	No
Brassicaceae	Carrichtera annua	Ward's Weed	Permitted - s11	No Control Category	No
Geraniaceae	Erodium cicutarium	Common Storksbill	Permitted - s11	No Control Category	No
	Aira cupaniana	Silvery Airgrass	Permitted - s11	No Control Category	No
	Briza minor	Shivery Grass	Permitted - s11	No Control Category	No
Poaceae	Bromus rubens	Red Brome	Permitted - s11	No Control Category	No
	Rostraria pumila	-	Permitted - s11	No Control Category	No
	Schismus arabicus	Araby Grass	Permitted - s11	No Control Category	No
Primulaceae	Lysimachia arvensis	Pimpernel	Permitted - s11	No Control Category	No
Tamaricaceae	Tamarix aphylla	Athel Tamarix	Exempt	No Control Category	Yes



APPENDIX C: QUADRAT LOCATIONS (NW CORNER) (GDA 2020, ZONE 51J)

Quadrat	Easting	Northing
Q1	367226	6486444
Q2	366994	6486503
Q3	366155	6486640
Q4	365525	6487189
Q5	364708	6486840
Q6	364524	6487279
Q7	363341	6486963
Q8	363137	6487870
Q9	367812	6485498
Q10	367705	6485062
Q11	368397	6484947
Q12	368142	6484441
Q13	367638	6484330
Q14	367077	6484167
Q15	366742	6484263
Q16	366077	6485277
Q17	365201	6485456
Q18	363973	6485598
Q19	364322	6484578
Q20	364922	6484261
Q21	365759	6485682
Q22	366233	6486087
Q23	365502	6486741
Q24	369557	6487289
Q25	370645	6487255
Q26	371220	6487289
Q27	372182	6487269
Q28	372963	6487206
Q29	367411	6483057
Q30	367637	6483760
Q31	367249	6483898
Q31 Q32	367383	6483378
Q32 Q33	367575	6483456
Q34	367734	6482877
QJ 4	301134	0402011



APPENDIX D: SIGNIFICANT FLORA LIKELIHOOD ASSESSMENT

	Rank		Tauan Habitat Accessment			
ЕРВС	BC Act	DBCA	Taxon	Habitat	Assessment	Likelihood
EN	EN	-	Daviesia microcarpa	Weathered gravel.	Outside known range of species	Unlikely
VU	VU	-	Eucalyptus platydisca	Granitic soils, clay. Stony hills.	Outside known range of species	Unlikely
VU	VU	-	Gastrolobium graniticum	Margins of large granite rock outcrops.	Outside known range of species	Unlikely
-	-	P1	Acacia dorsenna	Rocky sandy loam or clay loam. Low rocky hills.	Within known range of species, habitat may be present	Possible
-	-	P1	Bossiaea aurantiaca	Red sand, red clay loam. Low- lying, winter-damp sites.	At extreme of known range, habitat may be present	Possible
-	-	P1	Bossiaea saxosa	Stony, red soil. Woodlands.	Outside known range of species	Unlikely
-	-	P1	Calandrinia Extensive saline flats. Brown silty lefroyensis loam with some scattered quartz. Within known range, habitat unlikely to be present		Unlikely	
-	-	P1	Eremophila lucida	Clay loam, sandy loam. Adjacent to samphire flats & granite outcrops.	Outside known range of species	Unlikely
-	-	P1	Eremophila perglandulosa	-	Outside known range of species	Unlikely
-	-	P1	Eucalyptus distuberosa subsp. aerata Outside known range of species		Unlikely	
-	-	P1	Eucalyptus jimberlanica	Loam. Valley edges.	Outside known range of species	Unlikely
-	-	P1	Grevillea phillipsiana	Red sand, stony loam. Granite hills.	Outside known range of species	Unlikely
-	-	P1	Lepidosperma lyonsii	Pale orange skeletal sandy loam with banded ironstone gravel & rock, well-drained shallow stony loamy with quartz. Gentle hill slopes, upper slopes of large hill.	Outside known range of species	Unlikely
-	-	P1	Philotheca apiculata	Stony clay loam. Rocky outcrops, hillsides.	Outside known range of species	Unlikely
-	-	P1	Prostanthera splendens	Stony loam, shallow soils with ironstone pebbles. Breakaways.	Outside known range of species	Unlikely
		P1	Pterostylis xerampelina			
-	-	P1	Ptilotus rigidus	Quartz hills. Near salt lakes.	At extreme of known ranmge, little known	Unlikely
-	-	P1	Senecio microbasis	Schist soils. Low hills, disturbed areas in woodlands.	Very little known, previously recorded in local area	Possible
-	-	P1	Tecticornia flabelliformis	Within known range, habita		Unlikely
-	-	P2	Apatelantha insignis	-	Outside known range of species	Unlikely
-	-	P2	Bossiaea laxa	Brown loam over deep granite. Sheltered positions around outcrops.	Outside known range of species	Unlikely



	Rank					
EPBC	вс	DBCA	Taxon	Habitat	Assessment	Likelihood
-	Act -	P2	Acacia kerryana	Granitic loamy sand, stony clayey loam, or clayey sand. Low stony ridges, undulating plains.	At extreme of known range, habitat may be	Possible
-	-	P2	Eremophila praecox	Red/brown sandy loam. Undulating plains.	Outside known range of species	Unlikely
-	ı	P2	Goodenia corralina	Brown loam, granite. Near large outcrop.	Outside known range of species	Unlikely
-	-	P2	Phebalium clavatum	Sandy soils. Sandplains.	Outside known range of species	Unlikely
-	-	P2	Trachymene pyrophila	Yellow or orange sand.		Unlikely
-	1	P3	Acacia dissona var. Indoloria Sand, sandy loam. Undulating plains. At extreme of known range, habitat unlikely to be present		Unlikely	
-	-	P3	Allocasuarina eriochlamys subsp. grossa	Allocasuarina eriochlamys subsp. Stony loam, laterite clay. Granite range, habitat may		Possible
-	-	P3	Austrostipa blackii	-	Outside known range of species	Unlikely
-	-	P3	Austrostipa turbinata	South south-west facing gently inclined crest of basalt and minor quartz with red-brown shallow sandy clay loam soils.	Widespread range, habitat may be present	Possible
-	-	P3	Chrysocephalum apiculatum subsp. norsemanense	Well-drained, aeolian loamy sand. Moderately exposed, almost flat, broad valley floor.	Within known range, habitat may be present.	Possible
		P3	Cyathostemon sp. Salmon Gums (B. Archer 769)	Orange sand, white sand or sandy clay over granite, light brown clay with gypsum, saline soils. Flats, dry riverbeds, near claypans.	At extreme of known range, habitat unlikely to be present	Unlikely
-	-	P3	Eremophila acutifolia	Red clay-loams, valley floors and flat to undulating plains	Previously recorded within survey area	Previously Recorded
-	-	P3	Eremophila annosocaulis	Stoney loams, hill slopes and crests	Outside known range of species	Unlikely
-	-	P3	Eremophila veronica	Stony clay, clay loam. Lateritic breakaways.	Outside known range of species	Unlikely
-	-	P3	Eucalyptus brockwayi	Gravelly sandy loam. Low rocky hills & slopes.	Outside known range of species	Unlikely
-	-	P3	Eucalyptus pterocarpa	Red-brown sandy loam, yellow- brown silty loam. Creek edges, rocky slopes.	Outside known range of species	Unlikely
-	-	P3	Grevillea petrophiloides subsp. remota	Loamy sand, granite. Base of outcrops, crevices.	Outside known range of species	Unlikely
-	-	P3	Melaleuca coccinea	Sandy loam over granite. Granite outcrops, sandplain, river valleys.	Within known range, habitat may be present	Possible
-	-	P3	Melaleuca macronychia subsp. trygonoides	Sandy soils. Granite outcrops.	At extreme of known range, habitat unlikely to be present	Unlikely
-	-	P3	Phlegmatospermum eremaeum	Stony loam.	Within known range of species, habitat may be present	Possible
-	-	P3	Pityrodia scabra subsp. dendrotricha	Yellow sand, lake edges	At extreme of known range, habitat unlikely to be present	Unlikely



	Rank					
ЕРВС	BC Act	DBCA	Taxon	Habitat	Assessment	Likelihood
-	-	P3	Stylidium choreanthum	White/yellow or red sand. Plains.	At extreme of known range, habitat may be present	Possible
ı	ı	P3	Stylidium pulviniforme	White sand. Winter-wet areas.	At extreme of known range, habitat unlikely to be present	Unlikely
ı	-	P4	Eucalyptus kruseana	Sandy loam. Granite outcrops & hills.	At extreme of known range, habitat unlikely to be present	Unlikely
-	-	P4	Eucalyptus x brachyphylla	Sandy loam. Granite outcrops.	Outside known range of species	Unlikely
-	-	P4	Frankenia glomerata	White sand.	At extreme of known range, habitat unlikely to be present	Unlikely
-	-	P4	Myriophyllum petraeum	Strictly confined to ephemeral rock pools on granite outcrops.	Within known range, habitat unlikely to be present	Unlikely



APPENDIX E: SIGNIFICANT FAUNA LIKELIHOOD ASSESSMENT

	Conservation Status					
		EPBC BC DBCA Act Act Priorit		Habitat Description	Comments	Likelihood
Night Parrot Pezoporus occidentalis	EN	CR	-	Most habitat records are of Triodia (Spinifex) grasslands and/or chenopod shrublands in the arid and semi-arid zones, or <i>Astrebla</i> spp. (Mitchell grass), shrubby samphire and chenopod associations, scattered trees and shrubs, <i>Acacia aneura</i> (Mulga) woodland, treeless areas and bare gibber are associated with sightings of the species. Roosting and nesting sites are consistently reported as within clumps of dense vegetation, primarily old and large Spinifex (<i>Triodia</i>) clumps, but sometimes other vegetation types (DCCEEW 2023b).	Outside known range, no suitable habitat expected to occur.	Unlikely
Grey Falcon Falco hypoleucos	VU	VU		The Grey Falcon occurs at low densities across inland Australia. The species frequents timbered lowland plains, particularly acacia shrublands that are crossed by tree-lined water courses. The species has been observed hunting in treeless areas and frequents tussock grassland and open woodland, especially in winter. Prey species include small birds including doves, pigeons, small parrots, and finches. Non-avian prey includes small mammals and lizards.	Survey area may form part of larger home range but unlikely to breed in area	Possible
Malleefowl Leipoa ocellata	VU	VU	-	Scrublands and woodlands dominated by mallee and wattle species (DCCEEW 2023b).	Habitat likely marginal and unsuitable for breeding. Occasional transients only.	Possible
Fork-tailed Swift Apus pacificus	МІ	-	-	Low to very high airspace over varied habitat from rainforest to semi desert (Birdlife Australia, 2019).	Very occasional transients only.	Unlikely
Grey Wagtail Motacilla cinerea	МІ	-	-	Running water in disused quarries, sandy, rocky streams in escarpments and rainforest, sewerage ponds, ploughed fields and airfields (Morecombe 2004).	No suitable habitat.	Would Not Occur
Migratory Shorebirds (Various species)	IA/MI	IA/MI	P4	Prefer muddy edges of shallow fresh or brackish wetlands, with inundated or emergent sedges, grass, saltmarsh, or other low vegetation. This includes lagoons, swamps, lakes and pools near the coast, and dams, waterholes, soaks, bore drains and bore swamps, saltpans, and hypersaline salt lakes inland (DCCEEW 2023b).	No suitable habitat.	Would Not Occur
Chuditch Dasyurus geoffroii	VU	VU	-	Previously occurred throughout arid and semi-arid Australia but is now restricted to south-west Western Australia. (DCCEEW 2023b).	Considered to be regionally extinct	Unlikely

Prepared by Botanica Consulting

APPENDICES



APPENDIX F: LIST OF SPECIES IDENTIFIED WITHIN THE SURVEY AREA

(VV) denotes intr	oduced (weed) species; (A) denotes epher							
Family	Taxon	AS1	EW1	EW2	EW3	MW1	EW2	RH- EW1
Aizoaceae	Mesembryanthemum nodiflorum (W)		*					
	Ptilotus aervoides (A)		*					
Amaranthaceae	Ptilotus exaltatus (A)							
7 tillararitilaceae	Ptilotus holosericeus	SCLP- CLP- SCLP- EW3 MW1 EW2 EW3						
	Ptilotus obovatus				*	*	* * * * * * * * * * * * * * * * * * *	*
Apocynaceae	Alyxia buxifolia		*	*	*		*	*
7 (pooynaooao	Leichhardtia australis							
Asparagaceae	Thysanotus manglesianus					*		*
Asphodelaceae	Asphodelus fistulosus (W)							
	Asteridea athrixioides (A)				*			
	Cephalipterum drummondii (A)							
	Centaurea melitensis (W)							
	Cratystylis conocephala		*	*	*		*	
Asteraceae	Erigeron bonariensis (W)		*					
Asieraceae	Olearia muelleri	*	*	*	*	*	R- RH- EW2 E	*
	Olearia pimeleoides					*		
	Schoenia cassiniana					*		
	Symphyotrichum squamatum (W)		*					
	Waitzia acuminata (A)					*		
Brassicaceae	Carrichtera annua (W)		*					
Casuarinaceae	Casuarina pauper						*	
	Atriplex nummularia		*					*
	Atriplex vesicaria		*	*	*			*
	Enchylaena tomentosa		*					
	Eriochiton sclerolaenoides				*			*
	Maireana georgei				*	*	* * * * * * * * * * * * * * * * * * * *	
	Maireana lobiflora		*					
	Maireana pentatropis			*				
	Maireana sedifolia				*			
	Maireana tomentosa		*					
Chenopodiaceae	Maireana trichoptera				*			*
	Maireana triptera		*	*				
	Rhagodia drummondii		*					
	Rhagodia eremaea		*			*		*
	Sclerolaena cuneata				*			
	Sclerolaena diacantha		*		*		*	
	Sclerolaena parviflora			*	*			
	Sclerolaena uniflora				*			
	Tecticornia disarticulata			*	*			
Convolvulaceae	Wilsonia humilis				*		*	
231170174140040	Acacia acuminata					*	*	
	Acacia assimilis		*			*		
	Acacia chrysella					*		
	Acacia colletioides		*	*	*			
Fabaceae	Acacia duriuscula			*				
. abaccac	Acacia erinacea		*		*		*	
	Acacia hemiteles		*		*			
	Acacia merrallii		*	1			* * * * * * * * * * * * * * * *	*
							*	
	Acacia nyssophylla						* * * * * * * *	



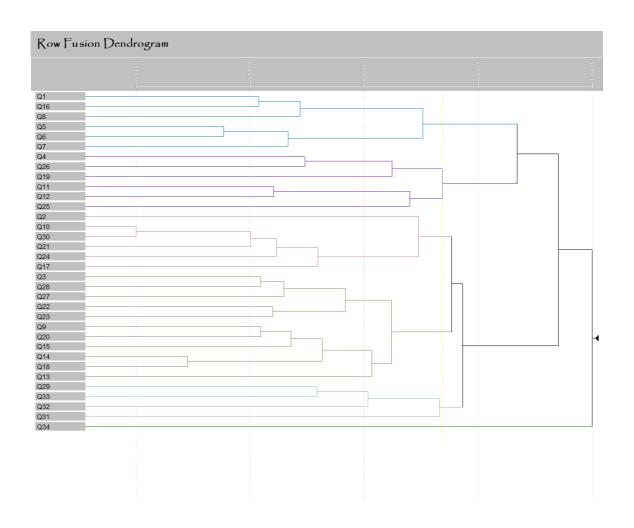
Family	Tayon	SCLP-	CLP-	SCLP-	CLP-	GR-	RH-	RH-
Family	Taxon	AS1	EW1	EW2	EW3	MW1	EW2	EW1
	Acacia yorkrakinensis	*						
	Daviesia benthamii			*				
	Dillwynia acerosa		*					
	Mirbelia microphylla					*		
	Senna artemisioides subsp. filifolia		*		*	*	*	*
	Swainsona canescens			*				
	Templetonia ceracea				*			
Goodeniaceae	Scaevola spinescens		*	*	*	*	*	*
Hemerocallidaceae						*		
	Prostanthera grylloana					*		
Lamiaceae	Westringia cephalantha	*					1 EW2 EV	
	Westringia rigida			*			*	*
	Eucalyptus celastroides				*			
	Eucalyptus gracilis		*					
	Eucalyptus lesouefii			*			*	*
	Eucalyptus loxophleba subsp. lissophloia					*	/1 EW2 E	
	Eucalyptus oleosa						*	
	Eucalyptus prolixa		*					
	Eucalyptus ravida		*		*		*	
	Eucalyptus salmonophloia		*				*	*
Myrtaceae	Eucalyptus salubris		*		*			
мупасеае	Eucalyptus stricklandii						*	*
	Eucalyptus torquata							*
	Eucalyptus urna			*	*			
	Leptospermum erubescens							*
	Melaleuca acuminata					*		
	Melaleuca hamata		*		*			
	Melaleuca laxiflora				*			
	Melaleuca pauperiflora				*		*	
	Melaleuca sheathiana			*	*			*
	Aristida contorta (A)					*		
	Austrostipa elegantissima		*	*	*	*	*	*
Poaceae	Austrostipa nitida					*	* * * * * * * * * * * * *	*
Myrtaceae Poaceae Proteaceae	Neurachne alopecuroidea					*	*	
	Triodia rigidissima	*						
	Grevillea acuaria		*		*	*	*	*
Proteaceae	Grevillea huegelii						*	
	Grevillea nematophylla							*
Pteridaceae	Cheilanthes sieberi					*		
Dhamasaaa	Cryptandra graniticola	*						
Knamnaceae	Trymalium myrtillus subsp. myrtillus					*	*	*
Rutaceae	Philotheca tomentella						*	
	Exocarpos aphyllus		*	*	*		*	*
Santalaceae	Santalum acuminatum		*	*	*		*	*
	Santalum spicatum					*	*	*
	Dodonaea adenophora					*		*
	Dodonaea bursariifolia							*
Sapindaceae	Dodonaea lobulata						* * * * * * * * * * * * *	*
	Dodonaea stenozyga							*
	Eremophila acutifolia (P3)		*		*		*	
	Eremophila alternifolia			1		*		
	Eremophila caerulea			*	*		* * * * * * * * * * * * *	*
Scrophulariaceae	Eremophila decipiens		*					
	Eremophila dempsteri		*	*	*	*	*	
	Eremophila gibbosa					*		
		1	l .	1	L	l .	* * * * * * * * * * * * *	



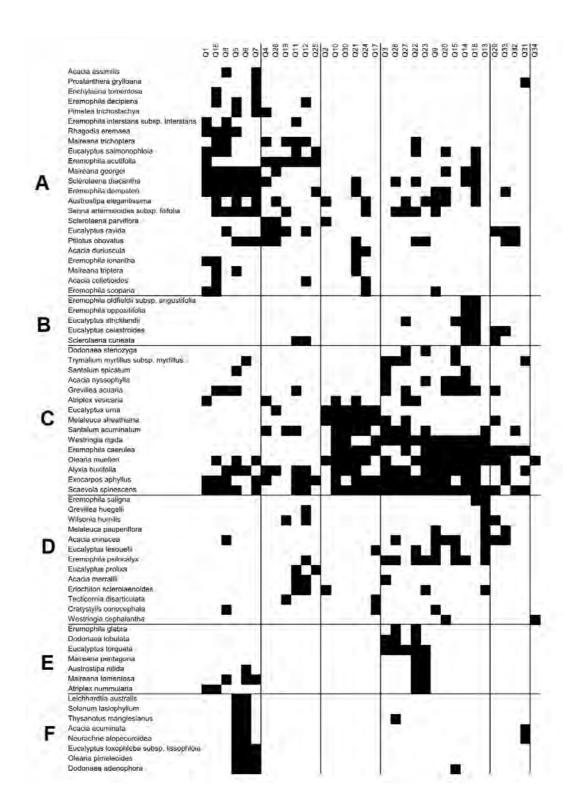
Family	Taxon	SCLP- AS1	CLP- EW1	SCLP- EW2		GR- MW1	RH- EW2	RH- EW1
	Eremophila glabra							*
	Eremophila granitica					*	*	
	Eremophila interstans subsp. interstans		*					
	Eremophila ionantha		*					
	Eremophila oldfieldii subsp. angustifolium						*	
	Eremophila oppositifolia						*	
	Eremophila psilocalyx						*	*
	Eremophila saligna						*	
	Eremophila scoparia		*	*			*	
Solanaceae	Solanum lasiophyllum					*		
	Solanum nummularium		*			*		
Thymelaeaceae	Pimelea microcephala		*					
	Pimelea trichostachya		*		*	*		
Violaceae	Pigea floribunda						*	*
Zygophyllaceae	Roepera eremaea (A)						*	
	Roepera glauca(A)							*
Total		5	49	23	41	36	41	37



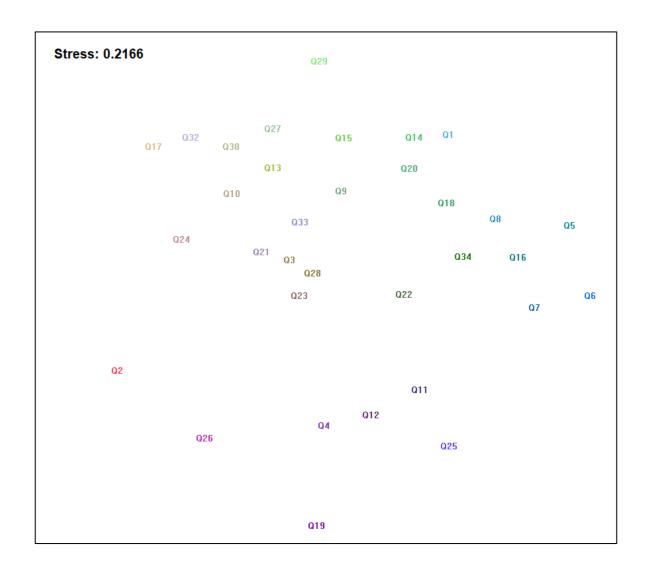
APPENDIX G: PATN ANALYSIS













APPENDIX H: VEGETATION CONDITION RATING

Vegetation Condition Rating	South West and Interzone Botanical Provinces	Eremaean and Northern Botanical Provinces
Pristine	Pristine or nearly so, no obvious signs of disturbance or damage caused by human activities since European settlement.	
Excellent	Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. Damage to trees caused by fire, the presence of non-aggressive weeds and occasional vehicle tracks.	Pristine or nearly so, no obvious signs of damage caused by human activities since European settlement.
Very Good	Vegetation structure altered, obvious signs of disturbance. Disturbance to vegetation structure caused by repeated fires, the presence of some more aggressive weeds, dieback, logging, and grazing.	Some relatively slight signs of damage caused by human activities since European settlement. For example, some signs of damage to tree trunks caused by repeated fire, the presence of some relatively non-aggressive weeds, or occasional vehicle tracks.
Good	Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds, partial clearing, dieback, and grazing.	More obvious signs of damage caused by human activity since European settlement, including some obvious impact on the vegetation structure such as that caused by low levels of grazing or slightly aggressive weeds.
Poor		Still retains basic vegetation structure or ability to regenerate it after very obvious impacts of human activities since European settlement, such as grazing, partial clearing, frequent fires, or aggressive weeds.
Degraded	Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. Disturbance to vegetation structure caused by very frequent fires, the presence of very aggressive weeds at high density, partial clearing, dieback, and grazing.	Severely impacted by grazing, very frequent fires, clearing or a combination of these activities. Scope for some regeneration but not to a state approaching good condition without intensive management. Usually with a number of weed species present including very aggressive species.
Completely Degraded	The structure of the vegetation is no longer intact, and the area is completely or almost completely without native species. These areas are often described as 'parkland cleared' with the flora comprising weed or crop species with isolated native trees and shrubs.	Areas that are completely or almost completely without native species in the structure of their vegetation, i.e., areas that are cleared or 'parkland cleared' with their flora comprising weed or crop species with isolated native trees or shrubs.



APPENDIX I: QUADRAT DATA SHEETS

Project Name: Dome North			
Date: 19/09/2023	Botanist: JJ	Photo number (NW corner): 666-668	
Quadrat No: Q1 Quadrat size/shape: 20m x 20m		Elevation (m):	
Coordinates (GDA2020): 51 J 367226E, 6486444N		Accuracy: 2m	
Aspect: South East Fire (yrs): +5		Condition rating: Very Good	

Landform: Flat

Coarse fragments on the surface: Quartz, ironstone/ <2%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow

Soil (profile/field texture/soil surface): Red-Brown/ Clay loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: <1m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus salmonophloia	Exocarpos aphyllus	Eremophila acutifolia

ALL TAXA
Atriplex nummularia
Atriplex vesicaria
Eremophila acutifolia
Eremophila dempsteri
Eremophila interstans subsp. interstans
Eremophila ionantha
Eremophila scoparia
Eucalyptus gracilis
Eucalyptus salmonophloia
Exocarpos aphyllus
Maireana georgei
Maireana laxiflora
Rhagodia eremaea
Scaevola spinescens
Sclerolaena diacantha



Project Name: Dome North			
		Photo number (NW corner): 669-	
Date: 19/09/2023	Botanist: JJ	671	
Quadrat No: Q2	Quadrat size/shape: 20m x 20m	Elevation (m):	
Coordinates (GDA2020): 51 J 366994E, 6486503N		Accuracy: 2m	
Aspect: South East	Fire (yrs): +5	Condition rating: Very Good	

Coarse fragments on the surface: Sandstone, ironstone, greenstone/ 2-10%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow

Soil (profile/field texture/soil surface): Brown/ Sandy Clay Loam

Cover leaf litter: 50%

Cover bare ground: 40%	Cover	bare	around:	40%
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Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 3-5 m	Height: <1m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: <1%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus urna	Melaleuca sheathiana	Olearia muelleri

ALL TAXA	
Austrostipa elegantissima	
Eriochiton sclerolaenoides	
Eucalyptus urna	
Melaleuca sheathiana	
Olearia muelleri	
Sclerolaena parviflora	



Project Name: Dome North			
		Photo number (NW corner): 693-	
Date: 19/09/2023 Botanist: JJ		695	
Quadrat size/shape: 20m x			
Quadrat No: Q3 20m		Elevation (m):	
Coordinates (GDA2020): 51 J 366155E, 6484640N		Accuracy: 2m	
Aspect: South East Fire (yrs): +5		Condition rating: Very Good	

Landform: Upper slope

Coarse fragments on the surface: Greenstone, limestone/ 10-20%/ 20-60 mm

Rock outcrop (abundance/runoff):

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 30-70%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus torquata	Trymalium myrtillus subsp. myrtillus	Westringia rigida

ALL TAXA	
Acacia merrallii	
Acacia nyssophylla	
Alyxia buxifolia	
Dodonaea bursariifolia	
Dodonaea lobulata	
Eremophila psilocalyx	
Eucalyptus torquata	
Exocarpos aphyllus	
Grevillea acuaria	
Grevillea nematophylla	
Melaleuca sheathiana	
Olearia muelleri	
Santalum acuminatum	
Santalum spicatum	
Scaevola spinescens	
Trymalium myrtillus subsp. myrtillu	ıs
Westringia rigida	



Project Name: Dome North			
		Photo number (NW corner): 623-	
Date: 18/09/2023	Botanist: JJ	625	
	Quadrat size/shape: 20m x		
Quadrat No: Q4	20m	Elevation (m):	
Coordinates (GDA2020): 51 J 365525E, 6487189N		Accuracy: 2m	
Aspect: North East	Fire (yrs): +5	Condition rating: Very Good	

Coarse fragments on the surface: Ironstone, limestone/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very good

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Exocarpos aphyllus	Eremophila acutifolia

ALL TAXA
Alyxia buxifolia
Atriplex vesicaria
Eremophila acutifolia
Eucalyptus celastroides
Eucalyptus ravida
Exocarpos aphyllus
Maireana trichoptera
Pimelea trichostachya
Ptilotus exaltatus
Ptilotus obovatus
Santalum acuminatum
Sclerolaena diacantha
Sclerolaena parviflora



	Photo number (NW corner): 620-
Botanist: JJ	622
Quadrat size/shape: 20m x	
20m	Elevation (m):
Coordinates (GDA2020): 51 J 364708E, 6486840N	
Fire (yrs) : +5	Condition rating: Very Good
	Quadrat size/shape: 20m x 20m 364708E, 6486840N

Coarse fragments on the surface: Granite/ 2-10%/ 2-6 mm

Rock outcrop (abundance/runoff): 20-50%/ Moderate

Soil (profile/field texture/soil surface): Light Brown/ Sandy Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: <10m	Height: 1-3m	Height: <0.5m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus loxophleba subsp. lissophloia	Eremophila dempsteri	Ptilotus obovatus

ALL TAXA		
Acacia acuminata		
Alyxia buxifolia		
Aristida contorta		
Asteridea athrixioides (A)		
Austrostipa elegantissima		
Cephalipterum drummondii (A)		
Dianella revoluta		
Dodonaea adenophora		
Eremophila alternifolia		
Eremophila decipiens		
Eremophila dempsteri		
Eucalyptus loxophleba subsp. lissophloia		
Grevillea acuaria		
Leichhardtia australis		
Maireana georgei		
Maireana triptera		
Neurachne alopecuroidea		
Olearia muelleri		
Olearia pimeleoides		
Pimelea trichostachya		
Ptilotus obovatus		
Rhagodia eremaea		
Roepera aurantiaca (A)		
Santalum spicatum		
Scaevola spinescens		
Schoenia cassiniana (A)		



Sclerolaena diacantha	
Senna artemisioides subsp. filifolia	
Solanum lasiophyllum	
Thysanotus manglesianus (A)	
Waitzia acuminata (A)	



Project Name: Dome N	orth	
Date: 18/09/2023	Botanist: JJ	Photo number (NW corner): 617-619
	Quadrat size/shape: 20m x	
Quadrat No: Q6	20m	Elevation (m):
Coordinates (GDA2020): 51 J 354524E, 6487279N	Accuracy: 2m
Aspect: North	Fire (yrs): +5	Condition rating: Very Good
Law of a man Elek		

Landform: Flat

Coarse fragments on the surface: Granite/ 2-10%/ 2-6 mm

Rock outcrop (abundance/runoff): 20-50%/ Moderate

Soil (profile/field texture/soil surface): Light Brown/ Sandy Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height:	Height:	Height:
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover:
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus loxophleba subsp. lissophloia	Dodonaea adenophora	Ptilotus obovatus

ALL TAXA
Acacia acuminata
Alyxia buxifolia
Austrostipa nitida
Cephalipterum drummondii (A)
Cheilanthes sieberi
Dodonaea adenophora
Eremophila dempsteri
Eremophila gibbosa
Eucalyptus loxophleba subsp. lissophloia
Leichhardtii australis
Maireana georgei
Maireana tomentosa
Mirbelia microphylla
Neurachne alopecuroidea
Olearia pimeleoides
Ptilotus obovatus
Sclerolaena diacantha
Senna artemisioides subsp. filifolia
Solanum lasiophyllum
Thysanotus manglesianus (A)
Trymalium myrtillus subsp. myrtillus
Waitzia acuminata (A)



Project Name: Dome North		
		Photo number (NW corner): 614-
Date: 18/09/2023	Botanist: JJ	616
Quadrat No: Q7	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51	J 363341E, 6486963N	Accuracy: 2m
Aspect: South East	Fire (yrs): +5	Condition rating: Very Good
	·	·

Landform: Flat

Coarse fragments on the surface: Granite/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Slow

Soil (profile/field texture/soil surface): Brown/ Sandy Clay Loam

Cover bare ground. 50 70		
Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus loxophleba subsp. lissophloia	Dodonaea adenophora	Ptilotus obovatus

ALL TAXA
Acacia assimilis
Acacia chrysophylla
Austrostipa elegantissima
Dodonaea adenophora
Enchylaena tomentosa
Eremophila decipiens
Eremophila dempsteri
Eucalyptus loxophleba subsp. lissophloia
Exocarpos aphyllus
Maireana georgei
Maireana tomentosa
Melaleuca acuminata
Olearia muelleri
Olearia pimeleoides
Pimelea trichostachya
Prostanthera grylloana
Ptilotus obovatus
Rhagodia drummondii
Scaevola spinescens
Schoenia cassiniana (A)
Sclerolaena diacantha
Senna artemisioides subsp. filifolia



Project Name: Dome Noi	rth	
Date: 18/09/2023	Botanist: JJ	Photo number (NW corner): 611-613
Quadrat No: Q8	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 363137E, 6487870N		Accuracy: 2m
Aspect: South	Fire (yrs): +5	Condition rating:
Landform: Flat		
Coarse fragments on the	e surface:	
Rock outcrop (abundance	ce/runoff):	

Soil (profile/field texture/soil surface):
Cover leaf litter: 70%

Cover bare ground: 20%

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 15m	Height: <3 m	Height: <0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Exocarpos aphyllus	Sclerolaena diacantha

ALL TAXA		
Acacia assimilis		
Acacia erinacea		
Alyxia buxifolia		
Cratystylis conocephala		
Dillwynia acerosa		
Eremophila dempsteri		
Eremophila interstans subsp. interstans		
Eucalyptus ravida		
Eucalyptus salmonophloia		
Exocarpos aphyllus		
Grevillea acuaria		
Maireana georgei		
Maireana tomentosa		
Maireana trichoptera		
Pimelea microcephala		
Ptilotus aervoides		
Ptilotus exaltatus		
Rhagodia eremaea		
Scaevola spinescens		
Sclerolaena diacantha		
Senna artemisioides subsp. filifolia		
Solanum nummularium		



Project Name: Dome North		
		Photo number (NW corner): 641-
Date: 18/09/2023	Botanist: JJ	643
	Quadrat size/shape: 20m x	
Quadrat No: Q9	20m	Elevation (m):
Coordinates (GDA2020): 51 J 367812E, 6485498N		Accuracy: 2m
Aspect: South East	Fire (yrs): +5	Condition rating: Very good

Landform: Simple slope

Coarse fragments on the surface: Quartz, Laterite, Sandstone/ 2-10%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus lesouefii	Exocarpos aphyllus	Eremophila caerulea

	ALL TAXA		
Acacia erinacea			
	Alyxia buxifolia		
	Austrostipa elegantissima		
	Cratystylis conocephala		
	Eremophila caerulea		
	Eremophila dempsteri		
Eremophila psilocalyx			
	Eremophila scoparia		
	Eucalyptus lesouefii		
	Eucalyptus oleosa		
	Exocarpos aphyllus		
	Melaleuca pauperiflora		
Olearia muelleri			
Scaevola spinescens			
Senna artemisioides subsp. filifolia			
	Westringia rigida		



Project Name: Dome North		
		Photo number (NW corner): 635-
Date: 18/09/2023	Botanist: JJ	637
Quadrat No: Q10	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51	J 367705E, 6485062N	Accuracy: 2m
Aspect: North	Fire (yrs): +5	Condition rating: Very good

Landform: Simple slope

Coarse fragments on the surface: Laterite, Limestone/ 50-90%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 3-5 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus urna	Melaleuca sheathiana	Olearia muelleri

ALL TAXA			
Alyxia buxifolia			
	Atriplex vesicaria		
	Eremophila caerulea		
Eucalyptus urna			
Exocarpos aphyllus			
Melaleuca sheathiana			
Olearia muelleri			
Santalum acuminatum			
Scaevola spinescens			
	Westringia rigida		



Project Name: Dome North		
Date: 18/09/2023	Botanist: JJ	Photo number (NW corner): 638-640
Quadrat No: Q11	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 368397E, 6484947N		Accuracy: 2m
Aspect: East	Fire (yrs): +5	Condition rating: Very good

Coarse fragments on the surface: Quartz, Laterite, Ironstone/ 2-10%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Cover leaf litter: 40%

Cover	bare	ground:	40%
00101	Duic	grouna.	4070

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m Height: <1m	
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus salmonophloia	Santalum acuminatum	Eremophila acutifolia

	ALL TAXA		
	Acacia merrallii		
	Alyxia buxifolia		
	Asteridea athrixioides (A)		
	Eremophila acutifolia		
	Eremophila interstans subsp. interst	tans	
	Eriochiton sclerolaenoides		
	Eucalyptus prolixa		
	Eucalyptus salmonophloia		
	Exocarpos aphyllus		
	Grevillea acuaria		
	Maireana trichoptera		
	Ptilotus exaltatus (A)		
Santalum acuminatum			
	Scaevola spinescens		
	Sclerolaena cuneata		



Project Name: Dome North		
		Photo number (NW corner): 672-
Date: 19/09/2023	Botanist: JJ	674
	Quadrat size/shape: 20m x	
Quadrat No: Q12	20m	Elevation (m):
Coordinates (GDA2020): 51 J 3	368142E, 6484441N	Accuracy: 2m
Aspect: North East	Fire (yrs): +5	Condition rating: Very good

Coarse fragments on the surface: Quartz, Ironstone/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 0.5-1 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: <10%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Exocarpos aphyllus	Eremophila acutifolia

ALL TAXA	
Acacia colletioides	
Acacia merrallii	
Alyxia buxifolia	
Eremophila acutifolia	
Eremophila decipiens	
Eremophila psilocalyx	
Eriochiton sclerolaenoides	
Eucalyptus ravida	
Exocarpos aphyllus	
Grevillea huegelii	
Maireana trichoptera	
Melaleuca laxiflora	
Ptilotus exaltatus	
Scaevola spinescens	
Sclerolaena cuneata	
Wilsonia humilis	



	Photo number (NW corner): 675-
Botanist: JJ	677
Quadrat size/shape: 20m x	
20m	Elevation (m):
67638E, 6484330N	Accuracy: 2m
Fire (yrs): +5	Condition rating: Very good
	Quadrat size/shape: 20m x 20m 67638E, 6484330N

Landform: Crest

Coarse fragments on the surface: Quartz, Laterite/ 50-90%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil

Soil (profile/field texture/soil surface): Brown

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-5 m	Height: <1m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus lesouefii	Scaevola spinescens	Westringia rigida

ALL TAXA	
Acacia erinacea	
Eremophila caerulea	
Eremophila psilocalyx	
Eremophila saligna	
Eriochiton sclerolaenoides	
Eucalyptus lesouefii	
Grevillea huegelii	
Melaleuca pauperiflora	
Olearia muelleri	
Santalum acuminatum	
Scaevola spinescens	
Westringia rigida	
Wilsonia humilis	



Project Name: Dome North		
		Photo number (NW corner): 678-
Date: 19/09/2023	Botanist: JJ	680
	Quadrat size/shape: 20m x	
Quadrat No: Q14	20m	Elevation (m):
Coordinates (GDA2020): 51 J 36	67077E, 6484167N	Accuracy: 2m
Aspect: South West	Fire (yrs): +5	Condition rating: Very good
1 16 0 1	_	

Landform: Crest

Coarse fragments on the surface: Laterite/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Moderate

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 3-5 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus stricklandii	Eremophila oppositifolia	Olearia muelleri

ALL TAXA	
Acacia nyssophylla	
Alyxia buxifolia	
Eremophila caerulea	
Eremophila oldfieldii subsp. angustifolia	
Eremophila oppositifolia	
Eremophila psilocalyx	
Eucalyptus celastroides	
Eucalyptus stricklandii	
Exocarpos aphyllus	
Grevillea acuaria	
Maireana georgei	
Olearia muelleri	
Philotheca tomentella	
Pigea floribunda	
Santalum spicatum	
Scaevola spinescens	
Sclerolaena cuneata	
Sclerolaena diacantha	
Trymalium myrtillus subsp. myrtillus	
Westringia rigida	



Project Name: Dome North		
		Photo number (NW corner): 684-
Date: 19/09/2023	Botanist: JJ	686
Quadrat No: Q15	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J	366742E, 6484263N	Accuracy: 2m
Aspect: South East	Fire (yrs): +5	Condition rating: Very good

Landform: Upper slope - Some crown decline occuring

Coarse fragments on the surface: Laterite, ironstone/ 50-90%/ 6-20 mm

Rock outcrop (abundance/runoff): 2%/ Moderate
Soil (profile/field texture/soil surface): - / Clay Loam

Cover leaf litter:

Cover bare ground:		
Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: <1m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus stricklandii	Alyxia buxifolia	Westringia rigida
	ALL TAXA	
	Acacia erinacea	
	Acacia nyssophylla	
	Alyxia buxifolia	

ALL TAXA		
Acacia erinacea		
Acacia nyssophylla		
Alyxia buxifolia		
Dodonaea adenophora		
Dodonaea stenozyga		
Eremophila caerulea		
Eremophila psilocalyx		
Eucalyptus lesouefii		
Eucalyptus stricklandii		
Grevillea acuaria		
Pigea floribunda		
Olearia muelleri		
Scaevola spinescens		
Trymalium myrtillus subsp. myrtillus		
Westringia rigida		



Project Name: Dome North		
D 4 40/00/0000	-	Photo number (NW corner): 632-
Date: 18/09/2023	Botanist: JJ	634
Quadrat No: Q16	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 366077E, 6485277N		Accuracy: 2m
Aspect: East	Fire (yrs): +5	Condition rating: Very good

Coarse fragments on the surface: Quartz, sandstone/ <2%/ 2-6 mm

Rock outcrop (abundance/runoff): Nil/ -

Soil (profile/field texture/soil surface): Red brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus salmonophloia	Eremophila scoparia	Olearia muelleri

ALL TAXA			
	Acacia colletioides		
	Atriplex nummularia		
	Austrostipa elegantissima		
	Enchylaena tomentosa		
	Eremophila decipiens		
	Eremophila dempsteri		
	Eremophila ionantha		
	Eremophila scoparia		
Eucalyptus salmonophloia			
Exocarpos aphyllus			
Grevillea acuaria			
Maireana georgei			
Maireana trichoptera			
	Maireana triptera		
	Olearia muelleri		
Rhagodia eremaea			
	Scaevola spinescens		
	Sclerolaena diacantha		
Senna artemisioides subsp. filifolia			



Project Name: Dome North		
		Photo number (NW corner): 690-
Date: 19/09/2023	Botanist: JJ	692
	Quadrat size/shape: 20m x	
Quadrat No: Q17	20m	Elevation (m):
Coordinates (GDA2020): 51 J 365021E, 6485456N		Accuracy: 2m
Aspect: East	Fire (yrs): +5	Condition rating: Very good
1		

Coarse fragments on the surface: Greenstone, sandstone/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Very slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus lesouefii	Melaleuca sheathiana	Westringia rigida

ALL TAXA		
Cratystylis conocephala		
Eremophila caerulea		
Eucalyptus lesouefii		
Eucalyptus urna		
Exocarpos aphyllus		
Melaleuca sheathiana		
Scaevola spinescens		
Tecticornia disarticulata		
Westringia rigida		



Project Name: Dome North		
		Photo number (NW corner): 648-
Date: 18/09/2023	Botanist: JJ	650
Quadrat No: Q18	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 363973E, 6485598N		Accuracy: 2m
Aspect: East	Fire (yrs): +5	Condition rating: Very good

Coarse fragments on the surface: Quartz, greenstone/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus stricklandii	Eremophila oppositifolia	Olearia muelleri

ALL TAXA		
Alyxia buxifolia		
Austrostipa elegantissima		
Eremophila acutifolia		
Eremophila caerulea		
Eremophila dempsteri		
Eremophila oldfieldii susbp. angustifolia		
Eremophila oppositifolia		
Eremophila saligna		
Eucalyptus celastroides		
Eucalyptus salmonophloia		
Eucalyptus stricklandii		
Exocarpos aphyllus		
Grevillea acuaria		
Maireana georgei		
Olearia muelleri		
Scaevola spinescens		
Sclerolaena cuneata		
Sclerolaena diacantha		
Westringia rigida		



Project Name: Dome North		
		Photo number (NW corner): 654-
Date: 18/09/2023	Botanist: JJ	656
	Quadrat size/shape: 20m x	
Quadrat No: Q19	20m	Elevation (m):
Coordinates (GDA2020): 51 J 364322E, 6484578N		Accuracy: 2m
Aspect: East	Fire (yrs): +5	Condition rating: Very good

Coarse fragments on the surface: Quartz, Ironstone/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): -

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Tecticornia disarticulata	Eremophila acutifolia

	ALL TAXA	
	Eremophila acutifolia	
	Eucalyptus ravida	
	Maireana trichoptera	
	Ptilotus holosericeus	
	Santalum acuminatum	
Seni	na artemisioides subsp. filif	olia
	Tecticornia disarticulata	
	Wilsonia humilis	



Project Name: Dome North		
	Photo number (NW corner): 687-	
Botanist: JJ	689	
Quadrat size/shape: 20m x 20m	Elevation (m):	
Coordinates (GDA2020): 51 J 364922E, 6484261N		
Fire (yrs): +5	Condition rating: Good	
	Quadrat size/shape: 20m x 20m 364922E, 6484261N	

Landform:

Coarse fragments on the surface: Ironstone pebbles/ 10-20%/ 6-20 mm

Rock outcrop (abundance/runoff): -

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus salmonophloia	Alyxia buxifolia	Westringia rigida

ALL TAXA			
	Acacia nyssophylla		
	Acacia erinacea		
	Alyxia buxifolia		
	Austrostipa elegantissima		
	Eremophila caerulea		
	Eremophila dempsteri		
Eucalyptus salmonophloia			
	Exocarpos aphyllus		
	Grevillea acuaria		
	Maireana georgei		
Olearia muelleri			
Scaevola spinescens			
	Westringia cephalantha		
	Westringia rigida		



Project Name: Dome No	rth	
		Photo number (NW corner): 629-
Date: 18/09/2023	Botanist: JJ	631
	Quadrat size/shape: 20m x	
Quadrat No: Q21	20m	Elevation (m):
Coordinates (GDA2020): 51 J 365759E, 6485682N		Accuracy: 2m
Aspect: South	Fire (yrs): +5	Condition rating: Very Good

Coarse fragments on the surface: Ironstone, limestone/ 10-20%/ 2-6 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 3-5 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: <1%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus urna	Melaleuca sheathiana	Ptilotus obovatus

ALL TAXA
Acacia duriuscula
Alyxia buxifolia
Atriplex vesicaria
Eremophila caerulea
Eremophila dempsteri
Eremophila ionantha
Eucalyptus urna
Exocarpos aphyllus
Maireana pentatropis
Maireana triptera
Melaleuca sheathiana
Olearia muelleri
Ptilotus obovatus
Santalum acuminatum
Scaevola spinescens
Sclerolaena diacantha



Project Name: Dome North		
Date: 18/09/2023	Botanist: JJ	Photo number (NW corner):
Quadrat No: Q22	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 366233E, 6486087N		
Aspect: East	Fire (yrs): +5	Condition rating: Very Good
	•	•

Coarse fragments on the surface: Greenstone/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Moderately

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus torquata	Eremophila psilocalyx	Ptilotus obovatus

ALL TAXA	
Atriplex nummularia	
Atriplex vesicaria	
Austrostipa nitida	
Dodonaea lobulata	
Eremophila glabra	
Eremophila psilocalyx	
Eucalyptus lesouefii	
Eucalyptus salmonophloia	
Eucalyptus torquata	
Exocarpos aphyllus	
Maireana pentatropis	
Maireana tomentosa	
Maireana trichoptera	
Olearia muelleri	
Ptilotus obovatus	
Roepera glauca	
Scaevola spinescens	
Sclerolaena diacantha	
Senna artemisioides subsp. filifolia	
Westringia rigida	



Project Name: Dome North		
		Photo number (NW corner):
Date : 18/09/2023	Botanist: JJ	626-628
Quadrat No: Q23	Quadrat size/shape: 20m x 20m	Elevation (m):
Coordinates (GDA2020): 51 J 365502E, 6486741N		Accuracy: 2m
Aspect: North	Fire (yrs): +5	Condition rating: Very Good

Coarse fragments on the surface: Greenstone/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Moderately

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus torquata	Alyxia buxifolia	Westringia rigida

ALL TAXA
Acacia nyssophylla
Alyxia buxifolia
Atriplex nummularia
Austrostipa elegantissima
Austrostipa nitida
Dodonaea stenozyga
Eremophila caerulea
Eremophila psilocalyx
Eriochiton sclerolaenoides
Eucalyptus torquata
Exocarpos aphyllus
Maireana pentatropis
Maireana tomentosa
Olearia muelleri
Ptilotus obovatus
Santalum acuminatum
Scaevola spinescens
Westringia rigida



Project Name: Dome North			
		Photo number (NW corner): 654-	
Date: 18/09/2023	Botanist: JJ	656	
	Quadrat size/shape: 20m x		
Quadrat No: Q24	20m	Elevation (m):	
Coordinates (GDA2020): 51 J 369557E, 6487289N		Accuracy: 2m	
Aspect: North East	Fire (yrs): +5	Condition rating: Very Good	

Coarse fragments on the surface: Ironstone pebbles, limestone/ 2-10%/ 2-6 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow

Soil (profile/field texture/soil surface): Brown/ Sandy Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 3-5 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus urna	Melaleuca sheathiana	Eremophila caerulea

ALL TAXA		
Acacia colletioides		
Acacia duriuscula		
Austrostipa elegantissima		
Daviesia benthamii		
Eremophila caerulea		
Eremophila scoparia		
Eucalyptus salubris		
Eucalyptus urna		
Exocarpos aphyllus		
Melaleuca sheathiana		
Olearia muelleri		
Roepera glauca (A)		
Santalum acuminatum		
Scaevola spinescens		
Senna artemisioides subsp. filifolia		



Project Name: Dome North		
		Photo number (NW corner): 657-
Date: 18/09/2023	Botanist: JJ	659
	Quadrat size/shape: 20m x	
Quadrat No: Q25	20m	Elevation (m):
Coordinates (GDA2020): 51 J 370645E, 6487255N		Accuracy: 2m
Aspect: North	Fire (yrs): +5	Condition rating: Very Good
Aspect: North	Fire (yrs): +5	Condition rating: very Good

Coarse fragments on the surface: Quartz, Ironstone/ 20-50%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow

Soil (profile/field texture/soil surface): Red-brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height:	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus prolixa	Eremophila dempsteri	Eremophila acutifolia

ALL TAXA	
Eremophila acutifolia	
Eremophila dempsteri	
Eucalyptus prolixa	
Eucalyptus salmonophloia	
Exocarpos aphyllus	



Project Name: Dome North		
		Photo number (NW corner): 660-
Date: 18/09/2023	Botanist: JJ	662
	Quadrat size/shape: 20m x	
Quadrat No: Q26	20m	Elevation (m):
Coordinates (GDA2020): 51 J	371220E, 6487289N	Accuracy: 2m
Aspect: North East	Fire (yrs): +5	Condition rating: Very Good
	·	

Coarse fragments on the surface: Limestone/ 2-10%/ 6-20 mm

Rock outcrop (abundance/runoff): Nil/ Very Slow
Soil (profile/field texture/soil surface): - / Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: -	Growth form: Shrub
Height: 5-12 m	Height: -	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: -	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Nothing dominant	Eremophila acutifolia

ALL TAXA
Alyxia buxifolia
Austrostipa elegantissima
Eremophila acutifolia
Eucalyptus ravida
Eucalyptus urna
Maireana georgei
Maireana sedifolia
Ptilotus holosericeus
Ptilotus obovatus
Sclerolaena parviflora
Templetonia ceracea



Project Name: Dome North			
		Photo number (NW corner):	
Date: 18/09/2023	Botanist: JJ	663-665	
	Quadrat size/shape: 20m x		
Quadrat No: Q27	20m	Elevation (m):	
Coordinates (GDA2020): 51 J 6487269N		Accuracy: 2m	
Aspect: South East	Fire (yrs): +5	Condition rating: Good	
Landform: Upper slope	•		

Coarse fragments on the surface: Laterite/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Moderate

Soil (profile/field texture/soil surface): Red-Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: -
Height: 5-12 m	Height: 1-3 m	Height: -
Crown cover: 30-70%	Crown cover: 30-70%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus stricklandii	Trymalium myrtillus subsp. myrtillus	Westringia rigida

ALLTAVA		
ALL TAXA		
Alyxia buxifolia		
Atriplex vesicaria		
Austrostipa elegantissima		
Dodonaea stenozyga		
Eremophila caerulea		
Eucalyptus stricklandii		
Eucalyptus torquata		
Exocarpos aphyllus		
Grevillea acuaria		
Melaleuca sheathiana		
Santalum acuminatum		
Scaevola spinescens		
Senna artemisioides subsp. filifolia		
Trymalium myrtillus subsp. myrtillus		
Westringia rigida		



Project Name: Dome North		
		Photo number (NW corner):
Date: 19/09/2023	Botanist: JJ	696-698
	Quadrat size/shape: 20m x	
Quadrat No: Q28	20m	Elevation (m):
Coordinates (GDA2020): 51 J 372963E, 6487206N		Accuracy: 2m
Aspect: South East	Fire (yrs): +5	Condition rating: Good

Landform: Upper slope

Coarse fragments on the surface: Quartz, laterite/ 50-90%/ 20-60 mm

Rock outcrop (abundance/runoff): Nil/ Moderate

Soil (profile/field texture/soil surface): Brown/ Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 5-12 m	Height: 1-3 m	Height: 0.25-0.5 m
Crown cover: 30-70%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus torquata	Trymalium myrtillus subsp. myrtillus	Westringia rigida

ALL TAXA			
	Acacia erinacea		
	Alyxia buxifolia		
	Dodonaea lobulata		
	Eremophila glabra		
	Eremophila psilocalyx		
	Eucalyptus torquata		
	Exocarpos aphyllus		
Roepera glauca			
Roepera eremaea			
Santalum acuminatum			
Scaevola spinescens			
Sclerolaena diacantha			
Senna artemisioides subsp. filifolia			
Thysanotus manglesianus			
Trymalium myrtillus subsp. myrtillus			
Westringia rigida			



Project Name: Dome North		
Date: 26/10/23	Botanist: AW	Photo (NW corner): 624, 623, 626
Quadrat: Q29	Quadrat size: 20m x 20m	Waypoint (NW corner): 142
Coordinates (GDA2020): 367411E 6483057N		
Aspect: Flat	Fire (yrs):	Condition rating: Very good
Landforms Creat Elet		

Landform: Crest, Flat

Coarse fragments on the surface: No coarse fragments

Rock outcrop (abundance/runoff): No bedrock exposed, No runoff

Soil (profile/field texture/soil surface): Clay Loam

Cover leaf litter: 30%

Cover leaf litter: 30%		
Cover bare ground:		
Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 20-25 m	Height: 3-6 m	Height: 0.5-1 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 10-30%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus celastroides	Melaleuca sheathiana	Scaevola spinescens
ALL TAXA		
	Acacia erinacea	
Cratystylis conocephala		
Eremophila caerulea subsp. caerulea		
Eucalyptus celastroides		
Eucalyptus ravida		
Grevillea acuaria		
Melaleuca sheathiana		

Olearia muelleri Sclerolaena cuneata Scaevola spinescens Templetonia ceracea Wilsonia humilis



Project Name: Dome North		
Date: 26/10/23	Botanist: AW	Photo (NW corner): phone photos 10:39am x3
Quadrat: Q30	Quadrat size: 20m x 20m	Waypoint (NW corner): 143
Coordinates (GDA2020): 36763	37E 6483760N	

Aspect: Flat Fire (yrs): 20+ Condition rating: Very good

Landform: Flat, plain

Coarse fragments on the surface: No coarse fragments, no effective disturbance

Rock outcrop (abundance/runoff): No bedrock exposed

Soil (profile/field texture/soil surface): Clay Loam

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub mallee (<8m)	Growth form: Shrub
Height: 12-20 m	Height: 6-12 m	Height: 0.5-1 m
Crown cover: 10-30%	Crown cover: 30-70%	Crown cover: Isolated plants <1
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus urna	Melaleuca sheathiana	

ALL TAXA		
Alyxia buxifolia		
Eucalyptus urna		
Eremophila caerulea subsp. caerulea		
Melaleuca sheathiana		
Olearia muelleri		
Santalum acuminatum		
Scaevola spinescens		
Westringia rigida		



Project Name: Dome North		
Date: 26/10/23	Botanist: AW	Photo (NW corner): phone photos 11:19am
Quadrat: Q31	Quadrat size: 20m x 20m	Waypoint (NW corner): 144
Coordinates (GDA2020): 367249E 6483898N		
Aspect: SE	Fire (yrs):	Condition rating: Very good
Landform, Cimple clane Hill clane		

Landform: Simple slope, Hill slope

Coarse fragments on the surface: Extremely; very abundant, medium gravelly; medium pebbles,

subrounded

Rock outcrop (abundance/runoff): No bedrock exposed

Soil (profile/field texture/soil surface): Clay Loam, lowslope, gravelly hill

Cover leaf litter: 40%

Cover	pare ground:
	Upper stratum

Upper stratum	Mid-stratum	Lower stratum
Growth form: Shrub	Growth form: Shrub	Growth form: Shrub
Height: 3-6 m	Height: 3-6 m	Height: 0.5-1 m
Crown cover:	Crown cover: >70%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
	Casuarina pauper	
	ΔΙΙ ΤΔΥΔ	

ALL TAXA
Acacia acuminata
Alyxia buxifolia
Casuarina pauper
Eremophila caerulea subsp. caerulea
Eremophila granitica
Neurachne alopecuroidea
Prostanthera grylloana
Scaevola spinescens
Trymalium myrtillus subsp. myrtillus



Project Name: Dome N	orth		
Date : 26/10/23	Botanist: AW	Photo (NW corner): phone photos 12:18	
Quadrat: Q32	Quadrat size: 20m x 20m	Waypoint (NW corner): 146	
Coordinates (GDA2020	Coordinates (GDA2020): 367383E 6483378N		
Aspect: Flat	Fire (yrs):	Condition rating:	
Landform: Plain	·		
Coarse fragments on the	ne surface: No coarse fragments, No eff	ective disturbance	
D 4 / -	/ ff \- \ \ -		

Rock outcrop (abundance/runoff): No bedrock exposed Soil (profile/field texture/soil surface): Clay Loam

Cover leaf litter: 60%

Cover bare ground:

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 12-20 m	Height: 1-3 m	Height: 0.5-1 m
Crown cover: 30-70%	Crown cover: <10%	Crown cover: <10%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus ravida	Santalum acuminatum	Eremophila caerulea subsp. caerulea

ALL TAXA
Eucalyptus ravida
Eremophila caerulea subsp. caerulea
Ptilotus obovatus
Santalum acuminatum
Scaevola spinescens



Project Name: Dome North		
Date: 26/10/23	Botanist: AW	Photo (NW corner):
Quadrat: Q33	Quadrat size: 20m x 20m	Waypoint (NW corner): 147
Coordinates (GDA2020): 367575	5E 6483456N	
Aspect: Flat	Fire (yrs):	Condition rating: Very good

Landform: Flat, plain

Coarse fragments on the surface: No coarse fragments, no effective disturbance

Rock outcrop (abundance/runoff):

Soil (profile/field texture/soil surface): Clay Loam

Cover leaf litter: 30% Cover bare ground:

Upper stratum	Mid-stratum	Lower stratum
Growth form: Tree	Growth form: Shrub	Growth form: Shrub
Height: 12-20m	Height: 3-6 m	Height: 0.5-1 m
Crown cover: 10-30%	Crown cover: 10-30%	Crown cover: 30-70%
Dominant taxa:	Dominant taxa:	Dominant taxa:
Eucalyptus celastroides		Scaevola spinescens

Eucalyptus celastroides		Scaevola spinescens	
	ALL TAXA		
	Acacia erinacea		
	Alyxia buxifolia		
	Eremophila dempsteri		
	Eucalyptus celastroides		
	Eucalyptus ravida		
	Eremophila caerulea subsp. caerulea		
	Exocarpos aphyllus		
Melaleuca pauperiflora subsp. pauperiflora			
	Olearia muelleri		
Ptilotus obovatus			
	Sclerolaena uniflora		
Scaevola spinescens			



Project Name: Dome N	lorth		
Date: 26/10/23	Botanist: AW	Photo (NW corner): 267, 268, 269	
Quadrat: Q34	Quadrat size: 20m x 20m	Waypoint (NW corner): 149	
Coordinates (GDA2020	Coordinates (GDA2020): 367734E 6482877N		
Aspect: Flat	Fire (yrs):	Condition rating:	
Landform: Flat, plain			

Coarse fragments on the surface: No coarse fragments, no effective disturbance

Rock outcrop (abundance/runoff): slightly rocky (2-10%) granite exposed

Soil (profile/field texture/soil surface): Sand

Cover leaf litter: 80%

Cover bare ground:		
Upper stratum	Mid-stratum	Lower stratum
Growth form: shrub	Growth form: Shrub	Growth form: Hummock grass
Height: 3-6 m	Height: 0.5-1 m	Height:
Crown cover:	Crown cover:	Crown cover:
Dominant taxa:	Dominant taxa:	Dominant taxa:
Acacia yorkrakinensis	Olearia muelleri	Triodia rigidissima
	ALL TAXA	
Acacia yorkrakinensis		
Cryptandra graniticola		
Olearia muelleri		
Triodia rigidissima		
Westringia cephalantha		



APPENDIX J: ATLAS OF LIVING AUSTRALIA DESKTOP SEARCH (40KM)

VASCULAR FLORA

Family	Taxon
Aizoaceae	Gunniopsis glabra
Aizoaceae	Gunniopsis intermedia
Aizoaceae	Gunniopsis rodwayi
Amaranthaceae	Ptilotus carlsonii
Amaranthaceae	Ptilotus exiliflorus
Amaranthaceae	Ptilotus gaudichaudii
Amaranthaceae	Ptilotus helichrysoides
Amaranthaceae	Ptilotus holosericeus
Amaranthaceae	Ptilotus nobilis subsp. nobilis
Amaranthaceae	Ptilotus obovatus
Amaranthaceae	Ptilotus rigidus
Amaranthaceae	Surreya diandra
Apiaceae	Daucus glochidiatus
Apocynaceae	Alyxia buxifolia
Apocynaceae	Marsdenia australis
Apocynaceae	Vincetoxicum lineare
Araliaceae	Hydrocotyle rugulosa
Araliaceae	Trachymene cyanopetala
Araliaceae	Trachymene ornata
Araliaceae	Trachymene pyrophila
Asparagaceae	Chamaexeros fimbriata
Asparagaceae	Lomandra effusa
Asparagaceae	Thysanotus manglesianus
Asparagaceae	Thysanotus speckii
Aspleniaceae	Pleurosorus rutifolius
Asteraceae	Actinobole uliginosum
Asteraceae	Angianthus preissianus
Asteraceae	Angianthus tomentosus
Asteraceae	Asteridea athrixioides
Asteraceae	Blennospora drummondii
Asteraceae	Brachyscome ciliaris
Asteraceae	Brachyscome iberidifolia
Asteraceae	Brachyscome perpusilla
Asteraceae	Calotis hispidula
Asteraceae	Centaurea melitensis
Asteraceae	Cephalipterum drummondii
Asteraceae	Chrysocephalum apiculatum subsp. norsemanense
Asteraceae	Chrysocephalum puteale
Asteraceae	Chthonocephalus pseudevax
Asteraceae	Cratystylis conocephala
Asteraceae	Cratystylis microphylla
Asteraceae	Cratystylis subspinescens
Asteraceae	Erymophyllum ramosum subsp. ramosum
	Gnephosis angianthoides
Asteraceae Asteraceae	Gnephosis tenuissima
Asteraceae	Gnephosis tridens Hyalosperma demissum
Asteraceae	
Asteraceae	Hyalosperma glutinosum
Asteraceae	Hyalosperma glutinosum subsp. glutinosum
Asteraceae	Hypochaeris glabra
Asteraceae	Isoetopsis graminifolia
Asteraceae	Leiocarpa semicalva
Asteraceae	Leucochrysum fitzgibbonii Milatia mugaatidikalia
Asteraceae	Millotia myosotidifolia



Family	Taxon
Family	
Asteraceae	Minuria cunninghamii
Asteraceae	Minuria gardneri
Asteraceae	Monoculus monstrosus
Asteraceae	Myriocephalus pygmaeus
Asteraceae	Notisia intonsa
Asteraceae	Olearia exiguifolia
Asteraceae	Olearia muelleri
Asteraceae	Olearia pimeleoides
Asteraceae	Olearia sp. Eremicola (Diels & Pritzel s.n. PERTH 00449628)
Asteraceae	Olearia trifurcata
Asteraceae	Oligocarpus calendulaceus
Asteraceae	Oncosiphon suffruticosum
Asteraceae	Podolepis aristata subsp. affinis
Asteraceae	Podolepis capillaris
Asteraceae	Podolepis lessonii
Asteraceae	Podolepis rugata subsp. rugata
Asteraceae	Podolepis tepperi
Asteraceae	Podotheca wilsonii
Asteraceae	Quinetia urvillei
Asteraceae	Rhodanthe battii
Asteraceae	Rhodanthe chlorocephala
Asteraceae	Rhodanthe chlorocephala subsp. rosea
Asteraceae	Rhodanthe floribunda
Asteraceae	Rhodanthe haigii
Asteraceae	Rhodanthe laevis
Asteraceae	Rhodanthe oppositifolia subsp. oppositifolia
Asteraceae	Rhodanthe pygmaea
Asteraceae	Rhodanthe rubella
Asteraceae	Rhodanthe stricta
Asteraceae	Schoenia cassiniana
Asteraceae	Senecio glossanthus
Asteraceae	Senecio lacustrinus
Asteraceae	Senecio microbasis
Asteraceae	Senecio pinnatifolius
Asteraceae	Senecio spanomerus
Asteraceae	Sonchus oleraceus
Asteraceae	Streptoglossa liatroides
Asteraceae	Trichanthodium skirrophorum
Asteraceae	Triptilodiscus pygmaeus
Asteraceae	Vittadinia dissecta var. hirta
Asteraceae	Waitzia acuminata
Asteraceae	Waitzia acuminata var. acuminata
Asteraceae	Waitzia fitzgibbonii
Asteraceae	Waitzia suaveolens var. flava
Boraginaceae	Halgania andromedifolia
Boraginaceae	Halgania cyanea
Boraginaceae	Halgania cyanea var. Charleville (R.W.Purdie+ 111)
Boraginaceae	Halgania cyanea var. cyanea
Boraginaceae	Halgania integerrima
Boraginaceae	Halgania lavandulacea
Boraginaceae	Plagiobothrys australasicus
Boryaceae	Borya constricta
Brassicaceae	Arabidella chrysodema
Brassicaceae	Brassica rapa
Brassicaceae	Carrichtera annua
Brassicaceae	Lepidium oxytrichum
Brassicaceae	Lepidium platypetalum
Brassicaceae	Phlegmatospermum eremaeum
Brassicaceae	Sisymbrium erysimoides
	C.cy



Family	Tauca
Family	Taxon Characteristic and tractions
Brassicaceae	Stenopetalum anfractum
Brassicaceae	Stenopetalum filifolium
Brassicaceae	Stenopetalum lineare var. lineare
Campanulaceae	Lobelia cleistogamoides
Caryophyllaceae	Stellaria filiformis
Casuarinaceae	Allocasuarina acutivalvis subsp. acutivalvis
Casuarinaceae	Allocasuarina campestris
Casuarinaceae	Allocasuarina corniculata
Casuarinaceae	Allocasuarina eriochlamys subsp. grossa
Casuarinaceae	Allocasuarina helmsii
Casuarinaceae	Allocasuarina huegeliana
Casuarinaceae	Casuarina obesa
Celastraceae	Stackhousia monogyna
Celastraceae	Stackhousia sp. Mt Keith (G.Cockerton & G.O'Keefe 11017)
Celastraceae	Stackhousia sp. Swollen gynophore (W.R.Barker 2041)
Centrolepidaceae	Centrolepis cephaloformis subsp. cephaloformis
Centrolepidaceae	Centrolepis polygyna
Chenopodiaceae	Atriplex acutibractea subsp. karoniensis
Chenopodiaceae	Atriplex bunburyana
Chenopodiaceae	Atriplex codonocarpa
Chenopodiaceae	Atriplex eardleyae
Chenopodiaceae	Atriplex nana
Chenopodiaceae	Atriplex nummularia
Chenopodiaceae	Atriplex nummularia subsp. spathulata
Chenopodiaceae	Atriplex quadrivalvata var. quadrivalvata
Chenopodiaceae	Atriplex vesicaria
Chenopodiaceae	Dissocarpus paradoxus
Chenopodiaceae	Enchylaena tomentosa
Chenopodiaceae	Eriochiton sclerolaenoides
Chenopodiaceae	Maireana amoena
Chenopodiaceae	Maireana appressa
Chenopodiaceae	Maireana eriosphaera
Chenopodiaceae	Maireana georgei
Chenopodiaceae	Maireana marginata
Chenopodiaceae	Maireana oppositifolia
Chenopodiaceae	Maireana pentatropis
Chenopodiaceae	Maireana pyramidata
Chenopodiaceae	Maireana radiata
Chenopodiaceae	Maireana suaedifolia
Chenopodiaceae	Maireana tomentosa
Chenopodiaceae	Maireana tomentosa subsp. tomentosa
Chenopodiaceae	Maireana trichoptera
Chenopodiaceae	Rhagodia crassifolia
Chenopodiaceae	Rhagodia drummondii
Chenopodiaceae	Salsola australis
Chenopodiaceae	Sclerolaena articulata
Chenopodiaceae	Sclerolaena cuneata
Chenopodiaceae	Sclerolaena diacantha
Chenopodiaceae	Sclerolaena drummondii
Chenopodiaceae	Sclerolaena eurotioides
Chenopodiaceae	Sclerolaena obliquicuspis
Chenopodiaceae	Sclerolaena parviflora
Chenopodiaceae	Tecticornia disarticulata
Chenopodiaceae	Tecticornia flabelliformis
Chenopodiaceae	Tecticornia halocnemoides
Chenopodiaceae	Tecticornia halocnemoides subsp. halocnemoides
Chenopodiaceae	Tecticornia indica subsp. leiostachya
Chenopodiaceae	Tecticornia Indica subsp. leiostachya Tecticornia lepidosperma
Chenopodiaceae	Tecticornia lepidosperma Tecticornia loriae
onenopoulaceae	reductina tonae



Family	Tayon
Family	Taxon
Chenopodiaceae	Tecticornia lylei
Chenopodiaceae	Tecticornia mellarium
Chenopodiaceae	Tecticornia moniliformis
Chenopodiaceae	Tecticornia peltata
Chenopodiaceae	Tecticornia pergranulata subsp. pergranulata
Chenopodiaceae	Tecticornia pruinosa
Chenopodiaceae	Tecticornia syncarpa
Colchicaceae	Wurmbea tenella
Convolvulaceae	Wilsonia humilis
Crassulaceae	Crassula colorata
Crassulaceae	Crassula exserta
Crassulaceae	Crassula extrorsa
Cupressaceae	Callitris glaucophylla
Cupressaceae	Callitris preissii
Cupressaceae	Callitris tuberculata
Cyperaceae	Lepidosperma lyonsii
Cyperaceae	Lepidosperma sanguinolentum
Cyperaceae	Schoenus nanus
Dilleniaceae	Hibbertia exasperata
Dilleniaceae	Hibbertia pungens
Dilleniaceae	Hibbertia sp.
Droseraceae	Drosera yilgarnensis
Ericaceae	Conostephium preissii
Ericaceae	Conostephium roei
Ericaceae	Leucopogon sp.
Ericaceae	Leucopogon sp. Boorabbin (K.R.Newbey 8374)
Ericaceae	Leucopogon sp. Clyde Hill (M.A.Burgman 1207)
Ericaceae	Leucopogon sp. Coolgardie (M.Hislop & F.Hort MH3197)
Ericaceae	Styphelia hamulosa
Ericaceae	Lysinema ciliatum
Euphorbiaceae	Bertya dimerostigma
Euphorbiaceae	
Euphorbiaceae	Bertya virgata Beyeria lechenaultii
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Euphorbiaceae	Beyeria sulcata var. truncata Euphorbia multifaria
Euphorbiaceae	· ·
Euphorbiaceae	Euphorbia tannensis subsp. eremophila
Euphorbiaceae	Ricinocarpos muricatus
Euphorbiaceae	Ricinocarpos stylosus
Fabaceae	Acacia acanthoclada subsp. acanthoclada
Fabaceae	Acacia acuminata
Fabaceae	Acacia blaxellii
Fabaceae	Acacia brachyclada
Fabaceae	Acacia camptoclada
Fabaceae	Acacia castanostegia
Fabaceae	Acacia chrysella
Fabaceae	Acacia collegialis
Fabaceae	Acacia cylindrica
Fabaceae	Acacia deficiens
Fabaceae	Acacia dempsteri
Fabaceae	Acacia dissona var. indoloria
Fabaceae	Acacia donaldsonii
Fabaceae	Acacia dorsenna
Fabaceae	Acacia duriuscula
Fabaceae	Acacia enervia subsp. enervia
Fabaceae	Acacia eremophila var. eremophila
Fabaceae	Acacia erinacea
Fabaceae	Acacia fraternalis
Fabaceae	Acacia hadrophylla
Fabaceae	Acacia harveyi
i	



Familia	T
Family	Taxon
Fabaceae	Acacia hemiteles
Fabaceae	Acacia inamabilis
Fabaceae	Acacia intricata
Fabaceae	Acacia jennerae
Fabaceae	Acacia kerryana
Fabaceae	Acacia lasiocalyx
Fabaceae	Acacia ligulata
Fabaceae	Acacia longispinea
Fabaceae	Acacia merrallii
Fabaceae	Acacia multispicata
Fabaceae	Acacia murrayana
Fabaceae	Acacia neurophylla subsp. neurophylla
Fabaceae	Acacia nyssophylla
Fabaceae	Acacia pachypoda
Fabaceae	Acacia poliochroa
Fabaceae	Acacia prainii
Fabaceae	Acacia pritzeliana
Fabaceae	Acacia quadrimarginea
Fabaceae	Acacia resinimarginea
Fabaceae	Acacia resinistipulea
Fabaceae	Acacia sessilispica
Fabaceae	Acacia tetragonophylla
Fabaceae	Acacia triptycha
Fabaceae	Acacia uncinella
Fabaceae	Acacia warramaba
Fabaceae	Bossiaea aurantiaca
Fabaceae	Bossiaea cucullata
Fabaceae	Bossiaea laxa
Fabaceae	Bossiaea leptacantha
Fabaceae	Bossiaea saxosa
Fabaceae	Bossiaea walkeri
Fabaceae	Daviesia argillacea
Fabaceae	Daviesia benthamii subsp. acanthoclona
Fabaceae	Daviesia pachyloma
Fabaceae	Daviesia rubiginosa
Fabaceae	Eutaxia leptophylla
Fabaceae	Gastrolobium discolor
Fabaceae	Gastrolobium parviflorum
Fabaceae	Gastrolobium spinosum
Fabaceae	Glycine peratosa
Fabaceae	Glycyrrhiza acanthocarpa
Fabaceae	Gompholobium gompholobioides
Fabaceae	Goodia medicaginea
Fabaceae	Goodia stenocarpa
Fabaceae	Indigofera australis subsp. hesperia
Fabaceae	Jacksonia arida
Fabaceae	Kennedia prorepens
Fabaceae	Leptosema cervicome
Fabaceae	Mirbelia depressa
Fabaceae	Mirbelia depressa Mirbelia microphylla
Fabaceae	Mirbelia multicaulis
Fabaceae	Petalostylis cassioides
Fabaceae	Senna artemisioides
Fabaceae	Senna artemisioides Senna artemisioides subsp. filifolia
Fabaceae	Senna artemisioides subsp. x coriacea
Fabaceae	Senna manicula
Fabaceae	Senna sp. Pallinup River (J.W.Green 4847)
Fabaceae	Senna stowardii
Fabaceae	Swainsona beasleyana



Family	T
Family	Taxon
Fabaceae	Swainsona canescens
Fabaceae	Swainsona colutoides
Fabaceae	Swainsona oligophylla
Fabaceae	Templetonia ceracea
Frankeniaceae	Frankenia cinerea
Frankeniaceae	Frankenia desertorum
Frankeniaceae	Frankenia glomerata
Frankeniaceae	Frankenia interioris
Frankeniaceae	Frankenia interioris var. interioris
Frankeniaceae	Frankenia irregularis
Frankeniaceae	Frankenia pauciflora var. pauciflora
Frankeniaceae	Frankenia setosa
Geraniaceae	Erodium cicutarium
Geraniaceae	Erodium crinitum
Goodeniaceae	Brunonia australis
Goodeniaceae	Dampiera fasciculata
Goodeniaceae	Dampiera latealata
Goodeniaceae	Dampiera lavandulacea
Goodeniaceae	Dampiera luteiflora
Goodeniaceae Goodeniaceae	Dampiera tenuicaulis var. tenuicaulis Goodenia berardiana
Goodeniaceae	Goodenia coerulea
Goodeniaceae	Goodenia concinna
Goodeniaceae	Goodenia corralina
Goodeniaceae	Goodenia elderi
Goodeniaceae	Goodenia havilandii
Goodeniaceae	Goodenia helmsii
Goodeniaceae	Goodenia mimuloides
Goodeniaceae	Goodenia occidentalis
Goodeniaceae	Scaevola bursariifolia
Goodeniaceae	Scaevola oxyclona
Goodeniaceae	Scaevola restiacea subsp. divaricata
Goodeniaceae	Scaevola spinescens
Goodeniaceae	Scaevola thesioides subsp. filifolia
Goodeniaceae	Verreauxia dyeri
Gyrostemonaceae	Codonocarpus cotinifolius
Haloragaceae	Haloragis dura
Haloragaceae	Haloragis gossei
Haloragaceae	Haloragis trigonocarpa
Haloragaceae	Myriophyllum petraeum
Hemerocallidaceae	Agrostocrinum scabrum subsp. scabrum
Hemerocallidaceae	Dianella revoluta
Hemerocallidaceae	Dianella revoluta 'DR5000'
Hemerocallidaceae	Stypandra glauca
Hypericaceae	Hypericum gramineum
Isoetaceae	Isoetes australis
Isoetaceae	Isoetes australis Isoetes brevicula
	Isoetes previcuia Isoetes inflata
Isoetaceae	
Lamiaceae	Cyanostegia angustifolia
Lamiaceae	Cyanostegia microphylla
Lamiaceae	Dicrastylis parvifolia
Lamiaceae	Hemiphora elderi
Lamiaceae	Lachnostachys verbascifolia var. paniculata
Lamiaceae	Newcastelia insignis
Lamiaceae	Pityrodia chrysocalyx
Lamiaceae	Pityrodia scabra subsp. dendrotricha
Lamiaceae	Prostanthera althoferi
Lamiaceae	Prostanthera althoferi subsp. althoferi
Lamiaceae	Prostanthera baxteri



Familia	T
Family	Taxon
Lamiaceae	Prostanthera campbellii
Lamiaceae	Prostanthera grylloana
Lamiaceae	Prostanthera incurvata
Lamiaceae	Prostanthera laricoides
Lamiaceae	Prostanthera splendens
Lamiaceae	Prostanthera wilkieana
Lamiaceae	Salvia verbenaca
Lamiaceae	Salvia verbenaca var. vernalis
Lamiaceae	Teucrium sessiliflorum
Lamiaceae	Teucrium sp. Norseman (T.E.H.Aplin 1851)
Lamiaceae	Westringia cephalantha
Lamiaceae	Westringia rigida
Lauraceae	Cassytha glabella f. dispar
Lauraceae	Cassytha melantha
Loganiaceae	Orianthera judithiana
Loranthaceae	Amyema benthamii
Loranthaceae	Amyema miquelii
Malvaceae	Alyogyne hakeifolia
Malvaceae	Androcalva luteiflora
Malvaceae	Brachychiton gregorii
Malvaceae	Commersonia craurophylla
Malvaceae	Hannafordia bissillii subsp. latifolia
Malvaceae	Lasiopetalum compactum
Malvaceae	Lawrencia repens
Malvaceae	Lawrencia squamata
Malvaceae	Malva preissiana
Malvaceae	Malva weinmanniana
Malvaceae	Radyera farragei
Malvaceae	Sida calyxhymenia
Marsileaceae	Marsilea drummondii
Myrtaceae	Aluta appressa
Myrtaceae	Astus subroseus
Myrtaceae	Astus tetragonus
Myrtaceae	Balaustion pulcherrimum
Myrtaceae	Calothamnus gilesii
Myrtaceae	Calothamnus tuberosus
Myrtaceae	Calytrix amethystina
Myrtaceae	Calytrix sp.
Myrtaceae	Calytrix strigosa
Myrtaceae	Calytrix tetragona
Myrtaceae	Calytrix watsonii
Myrtaceae	Chamelaucium ciliatum
Myrtaceae	Cyathostemon sp. Salmon Gums (B.Archer 769)
Myrtaceae	Darwinia diosmoides
Myrtaceae	Darwinia sp. Karonie (K.Newbey 8503)
Myrtaceae	Ericomyrtus serpyllifolia
Myrtaceae	Eucalyptus angustissima
Myrtaceae	Eucalyptus aspratilis
Myrtaceae	Eucalyptus brockwayi
Myrtaceae	Eucalyptus calycogona
Myrtaceae	Eucalyptus calycogona subsp. calycogona
Myrtaceae	Eucalyptus campaspe
Myrtaceae	Eucalyptus celastroides
Myrtaceae	Eucalyptus celastroides subsp. celastroides
Myrtaceae	Eucalyptus clelandiorum
Myrtaceae	Eucalyptus comitae-vallis
Myrtaceae	Eucalyptus concinna
Myrtaceae	Eucalyptus corrugata
Myrtaceae	Eucalyptus cylindriflora



Family	Tavan
•	Taxon
Myrtaceae	Eucalyptus cylindrocarpa
Myrtaceae	Eucalyptus delicata
Myrtaceae	Eucalyptus diptera
Myrtaceae	Eucalyptus distuberosa subsp. aerata
Myrtaceae	Eucalyptus distuberosa subsp. distuberosa
Myrtaceae	Eucalyptus dundasii
Myrtaceae	Eucalyptus eremophila
Myrtaceae	Eucalyptus flocktoniae
Myrtaceae	Eucalyptus flocktoniae subsp. flocktoniae
Myrtaceae	Eucalyptus gracilis
Myrtaceae	Eucalyptus griffithsii
Myrtaceae	Eucalyptus grossa
Myrtaceae	Eucalyptus horistes
Myrtaceae	Eucalyptus jimberlanica
Myrtaceae	Eucalyptus kochii subsp. borealis
Myrtaceae	Eucalyptus kruseana
Myrtaceae	Eucalyptus laevis
Myrtaceae	Eucalyptus leptophylla
Myrtaceae	Eucalyptus leptopoda subsp. subluta
Myrtaceae	Eucalyptus lesouefii
Myrtaceae	Eucalyptus litorea
Myrtaceae	Eucalyptus livida
Myrtaceae	Eucalyptus longicornis
Myrtaceae	Eucalyptus longissima
Myrtaceae	Eucalyptus loxophleba subsp. lissophloia
Myrtaceae	Eucalyptus melanoxylon
Myrtaceae	Eucalyptus neutra
Myrtaceae	Eucalyptus oleosa
Myrtaceae	Eucalyptus oleosa subsp. oleosa
Myrtaceae	Eucalyptus olivina
Myrtaceae	Eucalyptus ovularis
Myrtaceae	Eucalyptus petraea
Myrtaceae	Eucalyptus pileata
Myrtaceae	Eucalyptus planipes
Myrtaceae	Eucalyptus platycorys
Myrtaceae	Eucalyptus platydisca
Myrtaceae	Eucalyptus prolixa
Myrtaceae	Eucalyptus protensa
Myrtaceae	Eucalyptus pterocarpa
Myrtaceae	Eucalyptus quadrans
Myrtaceae	Eucalyptus ravida
Myrtaceae	Eucalyptus rigidula
Myrtaceae	Eucalyptus salicola
Myrtaceae	Eucalyptus salmonophloia
Myrtaceae	Eucalyptus salubris
Myrtaceae	Eucalyptus sheathiana
Myrtaceae	Eucalyptus sp. Fraser Range (D.Nicolle 2157)
Myrtaceae	Eucalyptus sp. Nouthern smooth-bark (D.Nicolle & M.French DN 6916)
Myrtaceae	Eucalyptus spreta
Myrtaceae	Eucalyptus stricklandii
Myrtaceae	Eucalyptus tenera
Myrtaceae	Eucalyptus tenuis
Myrtaceae	Eucalyptus terebra
Myrtaceae	Eucalyptus terebia Eucalyptus torquata
Myrtaceae	Eucalyptus tortilis
Myrtaceae	Eucalyptus tottiis Eucalyptus transcontinentalis
Myrtaceae	Eucalyptus transcontinentalis Eucalyptus urna
-	
Myrtaceae	Eucalyptus vittata Eucalyptus vittata - Eucalyptus spreta
Myrtaceae	Ευσαιγρίος νικαία - Ευσαιγρίος ορισία



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Family	Taxon
Myrtaceae	Eucalyptus websteriana
Myrtaceae	Eucalyptus websteriana subsp. norsemanica
Myrtaceae	Eucalyptus websteriana subsp. websteriana
Myrtaceae	Eucalyptus woodwardii
Myrtaceae	Eucalyptus x brachyphylla
Myrtaceae	Eucalyptus yilgarnensis
Myrtaceae	Euryomyrtus leptospermoides
Myrtaceae	Homalocalyx thryptomenoides
Myrtaceae	Kunzea affinis
Myrtaceae	Kunzea pulchella
Myrtaceae	Leptospermum erubescens
Myrtaceae	Leptospermum fastigiatum
Myrtaceae	Leptospermum incanum
Myrtaceae	Leptospermum roei
Myrtaceae	Leptospermum subtenue
Myrtaceae	Melaleuca acuminata subsp. acuminata
Myrtaceae	Melaleuca atroviridis
Myrtaceae	Melaleuca cliffortioides
Myrtaceae	Melaleuca coccinea
Myrtaceae	Melaleuca elliptica
Myrtaceae	Melaleuca exuvia
Myrtaceae	Melaleuca fulgens subsp. fulgens
Myrtaceae	Melaleuca hamata
Myrtaceae	Melaleuca johnsonii
Myrtaceae	Melaleuca lanceolata
Myrtaceae	Melaleuca macronychia subsp. trygonoides
Myrtaceae	Melaleuca pauperiflora
Myrtaceae	Melaleuca pauperiflora subsp. fastigiata
Myrtaceae	Melaleuca pauperiflora subsp. pauperiflora
Myrtaceae	Melaleuca radula Melaleuca rigidifelia
Myrtaceae	Melaleuca rigidifolia
Myrtaceae	Melaleuca sheathiana Melaleuca substanta
Myrtaceae	Melaleuca subalaris
Myrtaceae	Melaleuca teuthidoides
Myrtaceae	Melaleuca thyoides
Myrtaceae	Melaleuca uncinata
Myrtaceae	Micromyrtus papillosa
Myrtaceae	Taxandria spathulata
Myrtaceae	Thryptomene australis
Myrtaceae	Thryptomene australis subsp. australis
Myrtaceae	Thryptomene australis subsp. brachyandra
Myrtaceae	Thryptomene kochii
Myrtaceae	Verticordia eriocephala
Myrtaceae	Verticordia helmsii
Myrtaceae	Verticordia insignis subsp. compta
Myrtaceae	Verticordia picta
Nitrariaceae	Nitraria billardierei
Ophioglossaceae	Ophioglossum lusitanicum
Orchidaceae	Caladenia microchila
Orchidaceae	Caladenia roei
Orchidaceae	Caladenia sigmoidea
Orchidaceae	Cyanicula amplexans
Orchidaceae	Diuris hazeliae
Orchidaceae	Ericksonella saccharata
Orchidaceae	Microtis eremaea
Orchidaceae	Microtis media subsp. media
Orchidaceae	Oligochaetochilus ciliatus
Orchidaceae	Oligochaetochilus elegantissimus
Orchidaceae	Oligochaetochilus insectifer
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Family	Taxon Olivesheeteehilus vasasis
Orchidaceae	Oligochaetochilus roensis
Orchidaceae	Pterostylis allantoidea
Orchidaceae	Pterostylis insectifera
Orchidaceae	Pterostylis mutica
Orchidaceae	Pterostylis nana
Orchidaceae	Pterostylis roensis
Orchidaceae	Pterostylis sargentii
Orchidaceae	Pterostylis tryphera
Orchidaceae	Pterostylis xerampelina
Phrymaceae	Glossostigma drummondii
Pittosporaceae	Billardiera coriacea
Pittosporaceae	Cheiranthera filifolia
Pittosporaceae	Pittosporum angustifolium
Pittosporaceae	Pittosporum phillyreoides
Plantaginaceae	Plantago debilis
Plantaginaceae	Plantago drummondii
Poaceae	Aira cupaniana
Poaceae	Austrostipa acrociliata
Poaceae	Austrostipa blackii
Poaceae	Austrostipa elegantissima
Poaceae	Austrostipa eremophila
Poaceae	Austrostipa hemipogon
Poaceae	Austrostipa nitida
Poaceae	Austrostipa platychaeta
Poaceae	Austrostipa scabra
Poaceae	Austrostipa trichophylla
Poaceae	Austrostipa variabilis
Poaceae	Briza minor
Poaceae	Bromus arenarius
Poaceae	Bromus rubens
Poaceae	Cymbopogon obtectus
Poaceae	Eragrostis dielsii
Poaceae	Eriachne ovata
Poaceae	Monachather paradoxus
Poaceae	Rostraria pumila
Poaceae	Rytidosperma caespitosum
Poaceae	Schismus arabicus
Poaceae	Spartochloa scirpoidea
Poaceae	Triodia desertorum
Poaceae	Triodia irritans
Poaceae	Triodia rigidissima
Poaceae	Triodia scariosa
Polygalaceae	Comesperma drummondii
Polygalaceae	Comesperma scoparium
Polygalaceae	Comesperma volubile
Polygonaceae	Duma florulenta
Polygonaceae	Muehlenbeckia adpressa
Portulacaceae	Calandrinia baccata
Portulacaceae	Calandrinia lefroyensis
Portulacaceae	Calandrinia polyandra
Portulacaceae	Calandrinia sp. Gypsum (F.Obbens & L.Hancock FO 10/14)
Portulacaceae	Calandrinia sp. Needilup (K.R.Newbey 4892)
Portulacaceae	Calandrinia translucens
Primulaceae	Lysimachia arvensis
Proteaceae	Grevillea acuaria
Proteaceae	Grevillea anethifolia
Proteaceae	Grevillea cagiana
Proteaceae	Grevillea didymobotrya subsp. didymobotrya
Proteaceae	Grevillea excelsior
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Scrophulariaceae Eremophila caperata		,
Scrophulariaceae Eremophila clavata		, ,
	Scrophulariaceae	Eremophila clavata



Family	Taxon
Scrophulariaceae	Eremophila decipiens
Scrophulariaceae	Eremophila decipiens subsp. decipiens
Scrophulariaceae	Eremophila decipiens sausp. decipiens Eremophila dempsteri
Scrophulariaceae	Eremophila deserti
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Scrophulariaceae	Eremophila gibbosa
Scrophulariaceae	Eremophila glabra
Scrophulariaceae	Eremophila glabra subsp. glabra
Scrophulariaceae	Eremophila granitica
Scrophulariaceae	Eremophila interstans
Scrophulariaceae	Eremophila interstans subsp. interstans
Scrophulariaceae	Eremophila interstans subsp. virgata
Scrophulariaceae	Eremophila ionantha
Scrophulariaceae	Eremophila lucida
Scrophulariaceae	Eremophila maculata
Scrophulariaceae	Eremophila maculata subsp. brevifolia
Scrophulariaceae	Eremophila oldfieldii subsp. angustifolia
Scrophulariaceae	Eremophila oppositifolia subsp. angustifolia
Scrophulariaceae	Eremophila parvifolia
Scrophulariaceae	Eremophila parvifolia subsp. auricampa
Scrophulariaceae	Eremophila perglandulosa
Scrophulariaceae	Eremophila praecox
Scrophulariaceae	Eremophila psilocalyx
Scrophulariaceae	Eremophila purpurascens
Scrophulariaceae	Eremophila rugosa
Scrophulariaceae	Eremophila saligna
Scrophulariaceae	Eremophila scoparia
Scrophulariaceae	Eremophila serrulata
	Eremophila subfloccosa subsp. glandulosa
Scrophulariaceae	
Scrophulariaceae	Eremophila subfloccosa subsp. lanata
Scrophulariaceae	Eremophila veronica
Scrophulariaceae	Myoporum platycarpum subsp. platycarpum
Solanaceae	Duboisia hopwoodii
Solanaceae	Lycium australe
Solanaceae	Nicotiana goodspeedii
Solanaceae	Nicotiana rotundifolia
Solanaceae	Solanum hoplopetalum
Solanaceae	Solanum lasiophyllum
Solanaceae	Solanum nummularium
Solanaceae	Solanum orbiculatum
Solanaceae	Solanum petrophilum
Solanaceae	Solanum plicatile
Stylidiaceae	Stylidium arenicola
Stylidiaceae	Stylidium choreanthum
Stylidiaceae	Stylidium dielsianum
Stylidiaceae	Stylidium ecorne
Stylidiaceae	Stylidium limbatum
Stylidiaceae	Stylidium sp. Mt Bayly (J.A.Wege & C.Wilkins JAW 1986)
Thymelaeaceae	Pimelea argentea
Thymelaeaceae	Pimelea microcephala
Thymelaeaceae	Pimelea microcephala subsp. microcephala
Thymelaeaceae	Pimelea spiculigera var. thesioides
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Thymelaeaceae	Pimelea subvillifera
Urticaceae	Parietaria debilis
Violaceae	Hybanthus cymulosus
Violaceae	Hybanthus floribundus subsp. curvifolius
Zygophyllaceae	Roepera apiculata
Zygophyllaceae	Roepera aurantiaca
Zygophyllaceae	Roepera glauca
Zygophyllaceae	Roepera halophila



Family	Taxon
Zygophyllaceae	Roepera ovata
Zygophyllaceae	Roepera reticulata
Zygophyllaceae	Zygophyllum aurantiacum subsp. aurantiacum



TERRESTRIAL VERTEBRATE FAUNA

FERRESTRIAL VERTEBRATE FAUNA		
Class	Taxon	
Amphibia	Pseudophryne occidentalis	
Amphibia	Neobatrachus sutor	
Amphibia	Neobatrachus kunapalari	
Amphibia	Neobatrachus albipes	
Aves	Zosterops lateralis	
Aves	Turnix (Austroturnix) varius	
Aves	Tribonyx ventralis	
Aves	Todiramphus (Todiramphus) sanctus	
Aves	Todiramphus (Cyanalcyon) pyrrhopygius	
Aves	Tadorna (Casarca) tadornoides	
Aves	Tachybaptus novaehollandiae	
Aves	Streptopelia (Spilopelia) senegalensis	
Aves	Strepera (Neostrepera) versicolor	
Aves	Smicrornis brevirostris	
Aves	Smicrornis brevirostris occidentalis	
Aves	Sericornis (Sericornis) frontalis	
Aves	Rhipidura (Sauloprocta) leucophrys	
Aves	Rhipidura (Rhipidura) albiscapa	
Aves	Pyrrholaemus brunneus	
Aves	Purnella albifrons	
Aves	Ptilotula plumula	
Aves	Ptilotula penicillata	
Aves	Ptilotula ornata	
Aves	Psephotus (Psephotus) varius	
Aves	Pomatostomus (Morganornis) superciliosus	
Aves	Polytelis anthopeplus	
Aves	Poliocephalus poliocephalus	
Aves	Platycercus (Violania) icterotis	
Aves	Platycercus (Violania) icterotis xanthogenys	
Aves	Phylidonyris	
Aves	Phylidonyris (Meliornis) novaehollandiae	
Aves	Phaps (Phaps) elegans	
Aves	Phaps (Phaps) chalcoptera	
Aves	Phalacrocorax (Phalacrocorax) sulcirostris	
Aves	Phalacrocorax (Phalacrocorax) carbo	
Aves	Petroica (Petroica) goodenovii	
Aves	Petrochelidon (Petrochelidon) ariel	
Aves	Petrochelidon (Hylochelidon) nigricans	
Aves	Parvipsitta porphyrocephala	
Aves	Pardalotus (Pardalotus) punctatus	
Aves	Pardalotus (Pardalotus) punctatus punctatus	
Aves	Pardalotus (Pardalotinus) striatus	
Aves	Pachycephala (Timixos) inornata	
Aves	Pachycephala (Pachycephala) pectoralis	
Aves	Pachycephala (Pachycephala) pectoralis fuliginosa	
Aves	Pachycephala (Pachycephala) occidentalis	
Aves	Pachycephala (Alisterornis) rufiventris	
Aves	Oreoica gutturalis	
Aves	Oreoica gutturalis gutturalis	
Aves	Ocyphaps lophotes	
Aves	Ninox (Ninox) novaeseelandiae	
Aves	Ninox (Ninox) novaeseelandiae boobook	
Aves	Nesoptilotis leucotis	
Aves	Neophema (Neophema) splendida	
Aves	Myiagra (Seisura) inquieta	
Aves	Microeca (Microeca) fascinans	
Aves	Microcarbo melanoleucos	
Aves	Merops (Merops) ornatus	
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Class	Tayon
Aves	Taxon Melonsittacus undulatus
Aves	Melithrentus (Fidonsarus) brovinostris
Aves	Melithreptus (Eidopsarus) brevirostris Melanodryas (Melanodryas) cucullata
Aves	
	Manorina (Myzantha) flavigula
Aves	Malurus (Musciparus) leucopterus
Aves	Malurus (Malurus) splendens
Aves	Malurus (Leggeornis) pulcherrimus
Aves	Malurus (Leggeornis) assimilis
Aves	Lichmera (Lichmera) indistincta
Aves	Lichmera (Lichmera) indistincta indistincta
Aves	Lichenostomus cratitius
Aves	Leipoa ocellata
Aves	Lalage (Lalage) sueurii
Aves	Hirundo (Hirundo) neoxena
Aves	Hieraaetus (Hieraaetus) morphnoides
Aves	Hieraaetus (Hieraaetus) morphnoides morphnoides
Aves	Haliastur sphenurus
Aves	Gymnorhina tibicen
Aves	Grallina cyanoleuca
Aves	Gliciphila melanops
Aves	Gerygone fusca
Aves	Gavicalis virescens
Aves	Falco (Tinnunculus) cenchroides
Aves	Falco (leracidea) berigora
Aves	Falco (Hierofalco) peregrinus macropus
Aves	Falco (Hierofalco) hypoleucos
Aves	Falco (Falco) longipennis
Aves	Eurostopodus (Eurostopodus) argus
Aves	Epthianura (Epthianura) albifrons
Aves	Eopsaltria (Eopsaltria) griseogularis
Aves	Eopsaltria (Eopsaltria) griseogularis Eopsaltria (Eopsaltria) griseogularis griseogularis
Aves	Eopsaltria (Eopsaltria) griscogularis griscogularis Eopsaltria (Eopsaltria) australis
Aves	
	Eolophus roseicapilla
Aves	Elseyornis melanops
Aves	Egretta novaehollandiae
Aves	Drymodes brunneopygia
Aves	Dromaius novaehollandiae
Aves	Dicaeum (Dicaeum) hirundinaceum
Aves	Daphoenositta (Neositta) chrysoptera
Aves	Cracticus torquatus
Aves	Cracticus torquatus leucopterus
Aves	Cracticus nigrogularis
Aves	Coturnix (Coturnix) pectoralis
Aves	Corvus orru
Aves	Corvus coronoides
Aves	Corvus bennetti
Aves	Coracina (Pteropodocys) maxima
Aves	Coracina (Coracina) novaehollandiae
Aves	Columba (Columba) livia
Aves	Colluricincla (Colluricincla) harmonica
Aves	Colluricincla (Colluricincla) harmonica rufiventris
Aves	Colluricincla (Colluricincla) harmonica brunnea
Aves	Climacteris (Climacterobates) affinis
Aves	Climacteris (Climacteris) rufa
Aves	Climacteris (Climacteris) picumnus
Aves	Cladorhynchus leucocephalus
Aves	Circus assimilis
Aves	Cinclosoma (Malleeavis) clarum
Aves	Cinclosoma (Malleeavis) clarum Cinclosoma (Malleeavis) castanotum
, 1703	Sinoissonia (manosavio) sastanstani



Class	Tauca
Class	Taxon
Aves	Cincloramphus (Cincloramphus) cruralis
Aves	Chenonetta jubata
Aves	Charadrius (Charadrius) ruficapillus
Aves	Chalcites
Aves	Chalcites osculans
Aves	Chalcites lucidus
Aves	Chalcites basalis
Aves	Calamanthus cautus
Aves	Calamanthus campestris montanellus
Aves	Cacomantis (Vidgenia) pallidus
Aves	Cacomantis (Vidgenia) flabelliformis
Aves	Barnardius zonarius
Aves	Barnardius zonarius
Aves	AVES
Aves	Artamus (Campbellornis) personatus
Aves	Artamus (Angroyan) minor
Aves	Artamus (Angroyan) cyanopterus
Aves	Artamus (Angroyan) cinereus
Aves	Ardea (Bubulcus) ibis
Aves	Aquila (Uroaetus) audax
Aves	Aphelocephala leucopsis
Aves	Anthus (Anthus) novaeseelandiae
Aves	Anthochaera (Anthochaera) carunculata
Aves	Anthochaera (Anthochaera) carunculata woodwardi
Aves	Anas (Nettion) gracilis
Aves	Anas (Anas) superciliosa
Aves	Aegotheles (Aegotheles) cristatus
Aves	Accipiter (Paraspizias) cirrocephalus
Aves	Accipiter (Leucospiza) fasciatus
Aves	Acanthiza (Geobasileus) uropygialis
Aves	Acanthiza (Geobasileus) iredalei
Aves	Acanthiza (Geobasileus) chrysorrhoa
Aves	Acanthiza (Acanthiza) apicalis
Aves	Acanthiza (Acanthiza) apicalis whitlocki
Aves	Acanthiza (Acanthiza) apicalis apicalis
Aves	Acanthagenys rufogularis
Mammalia	Sminthopsis ooldea
Mammalia	Sminthopsis fuliginosus
Mammalia	Sminthopsis dolichura
Mammalia	Pseudomys hermannsburgensis
Mammalia	Pseudomys bolami
Mammalia	Notomys mitchellii
Mammalia	Ningaui yvonneae
Mammalia	Mus musculus
Mammalia	Macropus fuliginosus
Mammalia	Cercartetus concinnus
Reptilia	Varanus gouldii
Reptilia	Varanus gouldii gouldii
Reptilia	Underwoodisaurus milii
Reptilia	Tympanocryptis pseudopsephos
Reptilia	Tympanocryptis cephalus
Reptilia	Tiliqua rugosa
Reptilia	Suta
Reptilia	Suta fasciata
Reptilia	Strophurus strophurus
Reptilia	Strophurus assimilis
Reptilia	Simoselaps
Reptilia	Simoselaps bertholdi Pygopus lenidopodus
Reptilia	Pygopus lepidopodus



Reptilia Pseudonaja modesta Reptilia Pseudonaja mengdeni Reptilia Pseudonaja afinis afinis Reptilia Pseudonaja afinis afinis Reptilia Pseudonaja afinis afinis Reptilia Parasuta nigriceps Reptilia Parasuta gouldi Reptilia Nephrurus laevissimus Reptilia Morethia obscura Reptilia Morethia obscura Reptilia Morethia butleri Reptilia Morethia butleri Reptilia Morethia spilota imbricata Reptilia Morethia spilota imbricata Reptilia Morethia spilota imbricata Reptilia Morelia spilota imbricata Reptilia Morelia spilota imbricata Reptilia Lucasium maini Reptilia Lucasium maini Reptilia Lucasium maini Reptilia Lialis burtonis Reptilia Lialis burtonis Reptilia Lierista tiridactyla Reptilia Lerista tiridactyla Reptilia Lerista tiridactyla Reptilia Lerista tiridat Reptilia Hesperoedura reticulata Reptilia Hesperoedura reticulata Reptilia Hemiergis initialis initalis Reptilia Gerhyra veriegata Reptilia Eremiascincus richardsonii Reptilia Egemia formosa Reptilia Diplodactylus granariensis granariensis Reptilia Demansia psammophis psammophis Reptilia Delma fraseri Reptilia Delma fraseri Reptilia Delma fraseri Reptilia Cenotus atlas Reptilia Cenotus atlas Reptilia Cenotus sutlas Reptilia Cenotus sutlas Reptilia Cenotus atlas Reptilia Cenotus sutlas Reptilia Cenotus sutlas Reptilia Cenotous sutlas Reptilia Cenotous sutlas Reptilia Cenotous atlas Reptilia Cenotous sutlas Reptilia Cenophorus scutulatus Reptilia Cenophorus seliculatus Reptilia Cenophorus scutulatus Reptilia Canilios bituberculatus Reptilia Anilios bituberculatus Reptilia Anilios bitube	Class	Taxon
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Reptilia Pseudechis australis Reptilia Pseudechis australis Reptilia Parasuta nigriceps Reptilia Parasuta nigriceps Reptilia Parasuta nigriceps Reptilia Parasuta gouldi Reptilia Morethia obscura Reptilia Morethia butleri Reptilia Morethia delaidensis Reptilia Morethia adelaidensis Reptilia Morethia adelaidensis Reptilia Moloch horridus Reptilia Moloch horridus Reptilia Lucasium maini Reptilia Lialis burtonis Reptilia Lialis burtonis Reptilia Lialis burtonis Reptilia Lerista tridactyla Reptilia Lerista tirida Reptilia Lerista tirida Reptilia Lerista taeniata Reptilia Lerista taeniata Reptilia Heteronotia binoei Reptilia Hesperoedura reticulata Reptilia Hemiergis initialis initialis Reptilia Egemia formosa Reptilia Diplodactylus pulcher Reptilia Diplodactylus granariensis granariensis Reptilia Delma fraseri Reptilia Delma australis Reptilia Delma australis Reptilia Ctenotus uber uber Reptilia Ctenotus uber uber Reptilia Ctenotus usus reticulatus Reptilia Ctenotus usus reticulatus Reptilia Delma australis Reptilia Ctenotus usus reticulatus Reptilia Ctenotus usus reticulatus Reptilia Ctenotus usus reticulatus Reptilia Ctenotus usus reticulatus Reptilia Ctenophorus cutulatus Reptilia Ctenophorus seutulatus Reptilia Ctenophorus reticulatus Reptilia Crenadactylus ccellatus Reptilia Crenadactylus ccellatus Reptilia Anilios bituberculatus Reptilia Anilios bicolor	· ·	,
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	Reptilia	Anilios australis

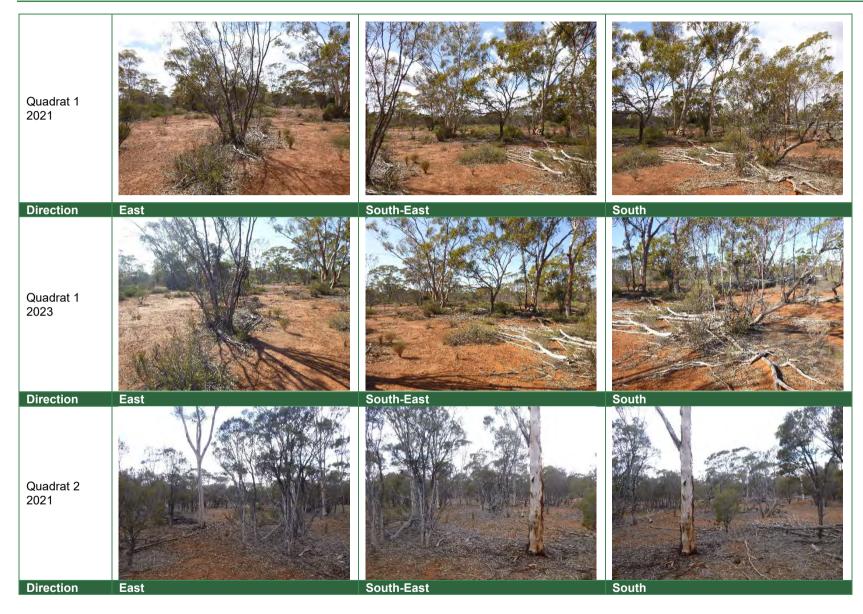


APPENDIX K: EPBC PROTECTED MATTERS SEARCH (40KM BUFFER)

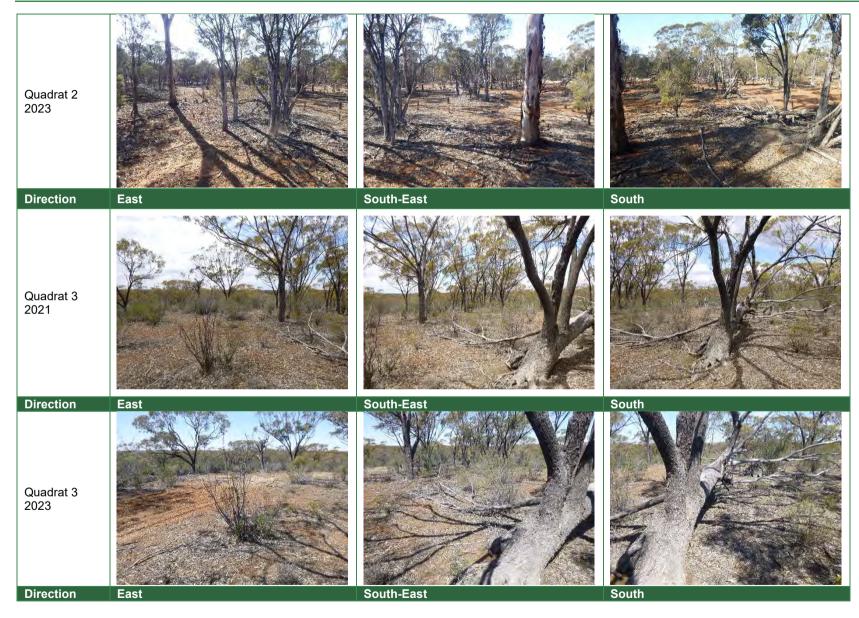


APPENDIX L: QUADRAT PHOTOS

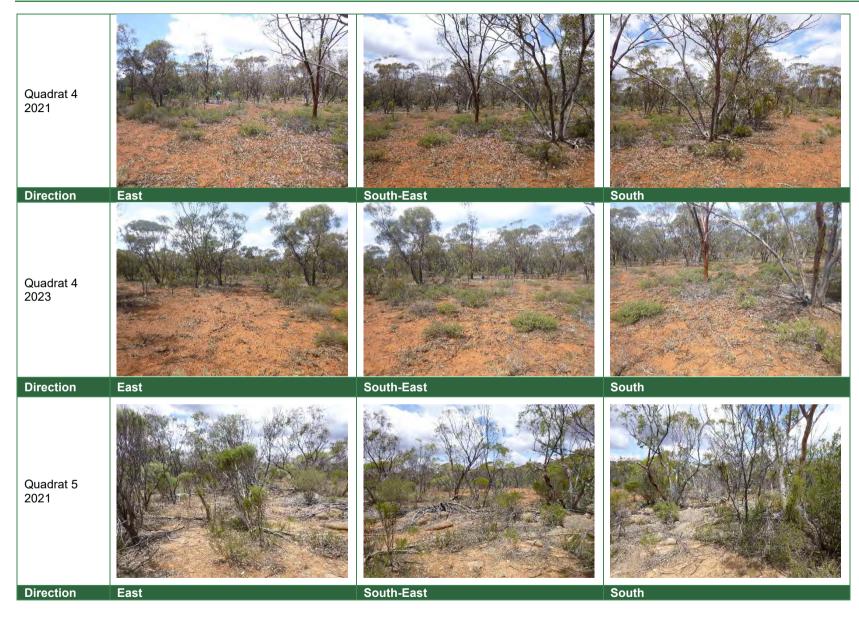




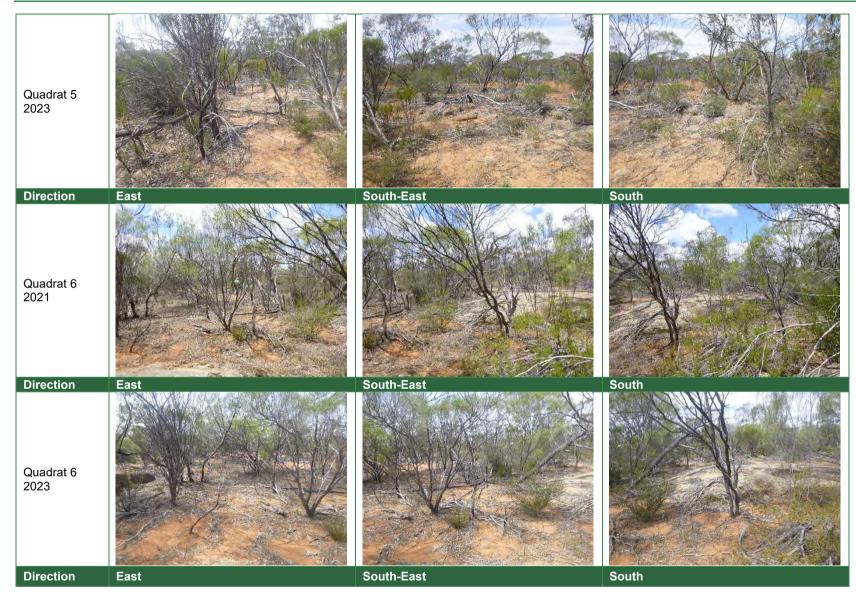




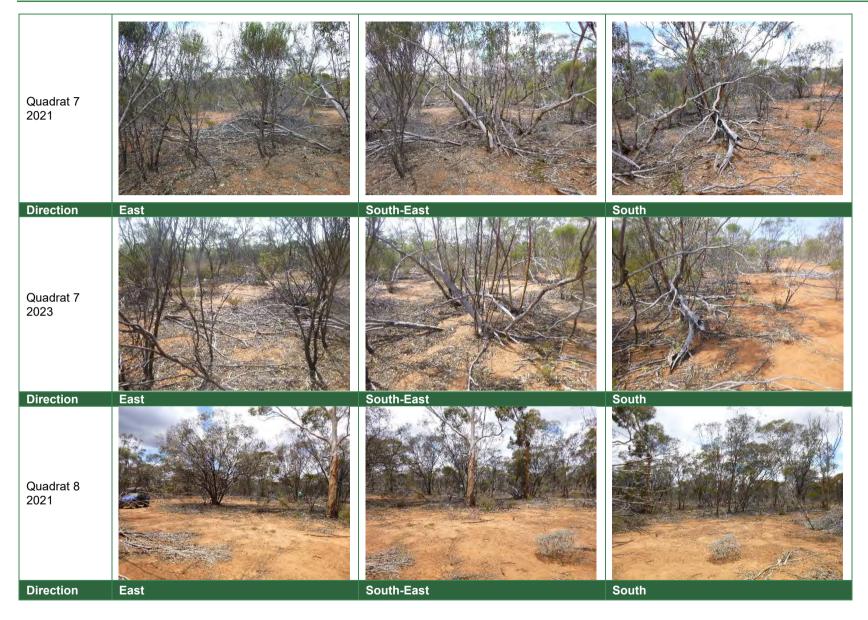




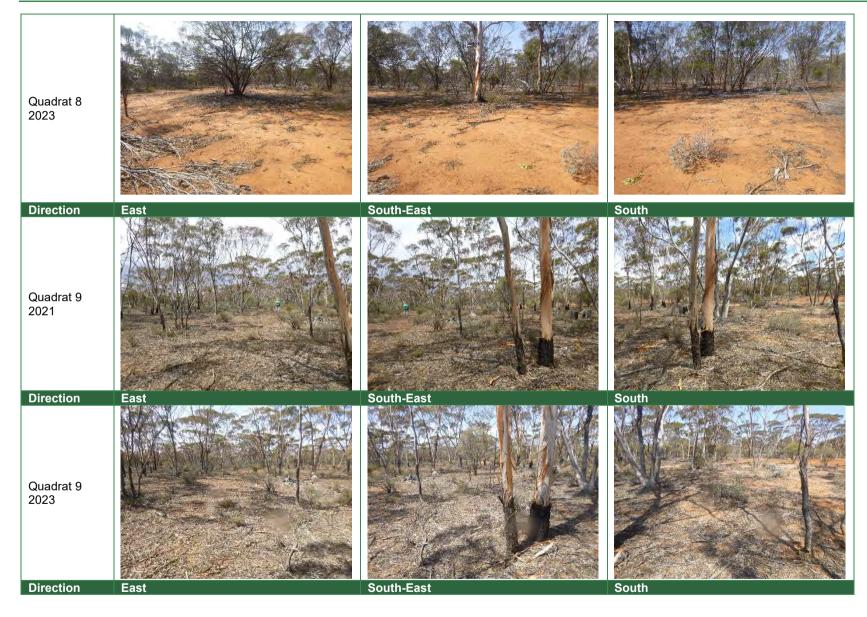




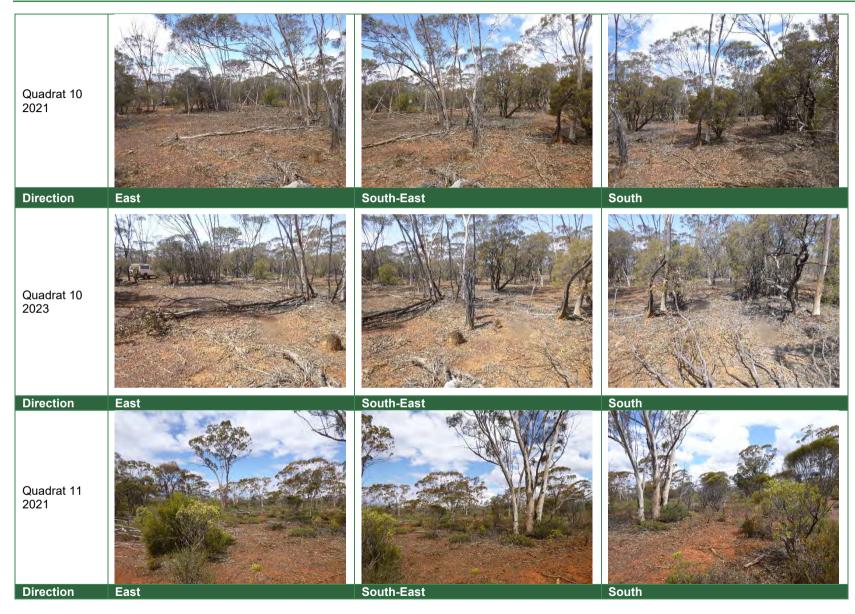




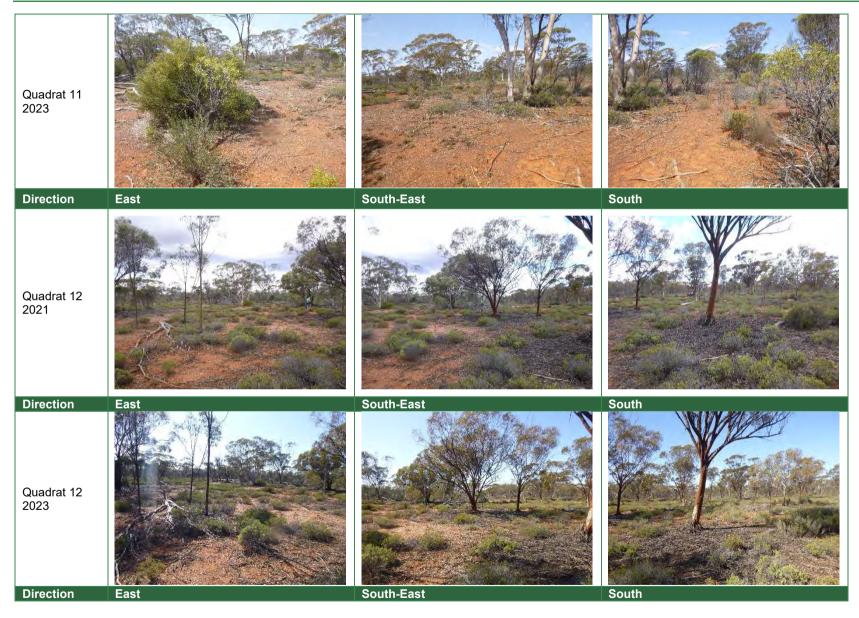




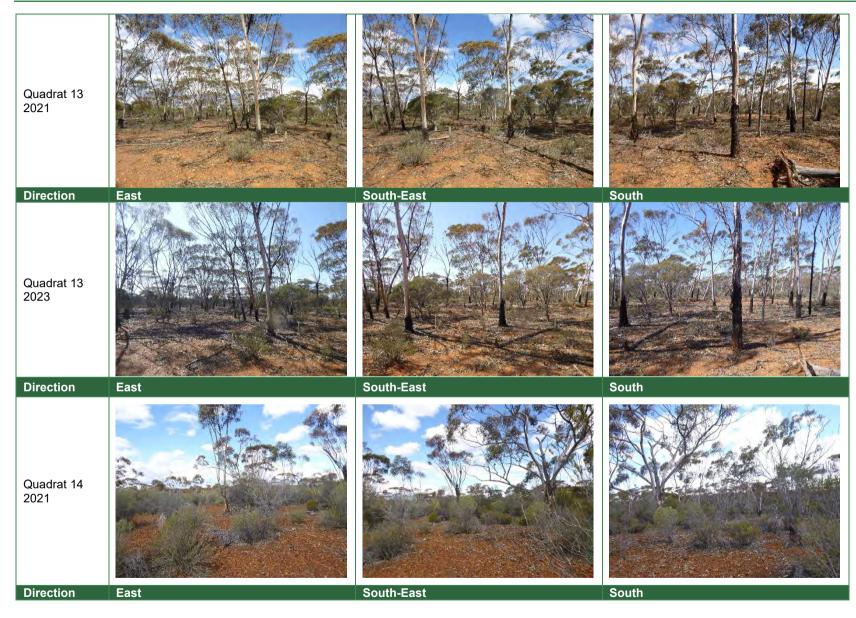




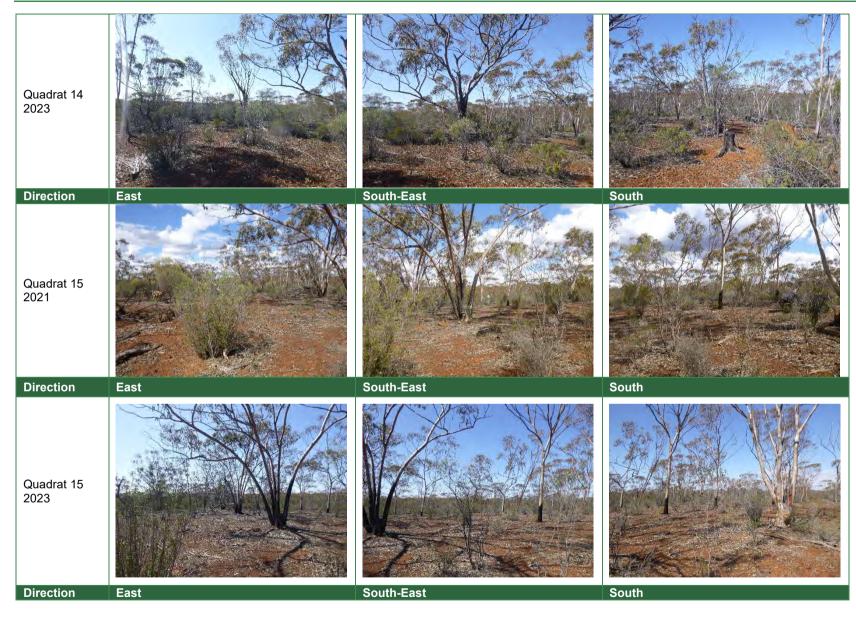








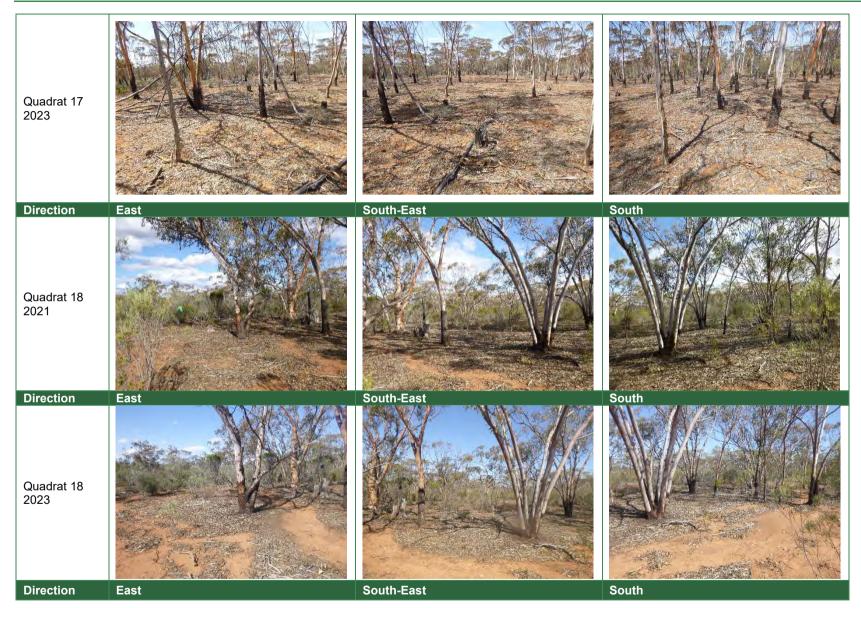








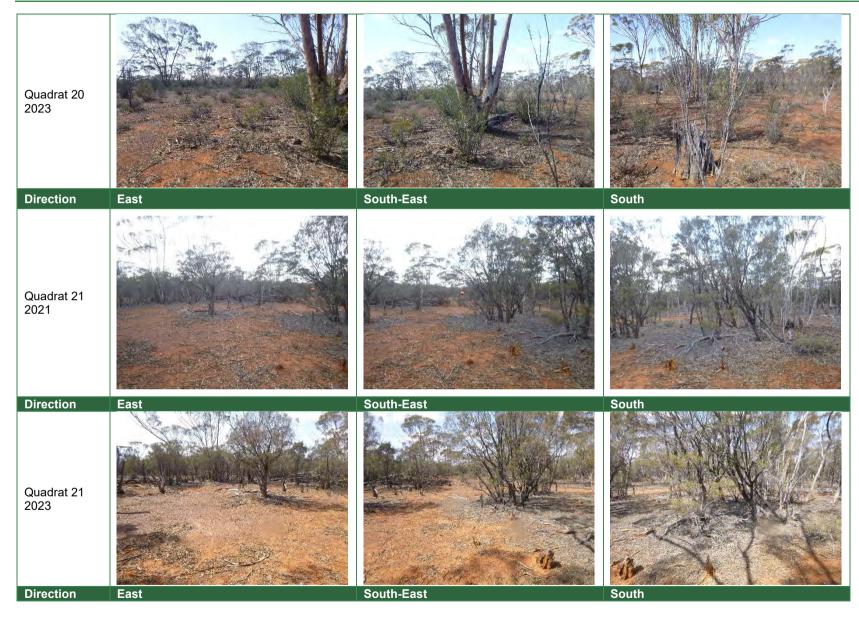




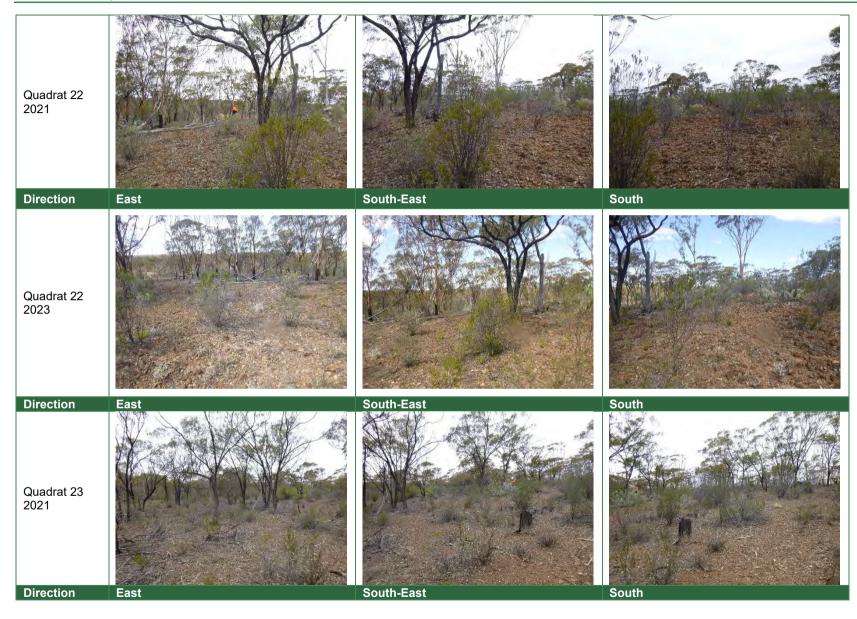








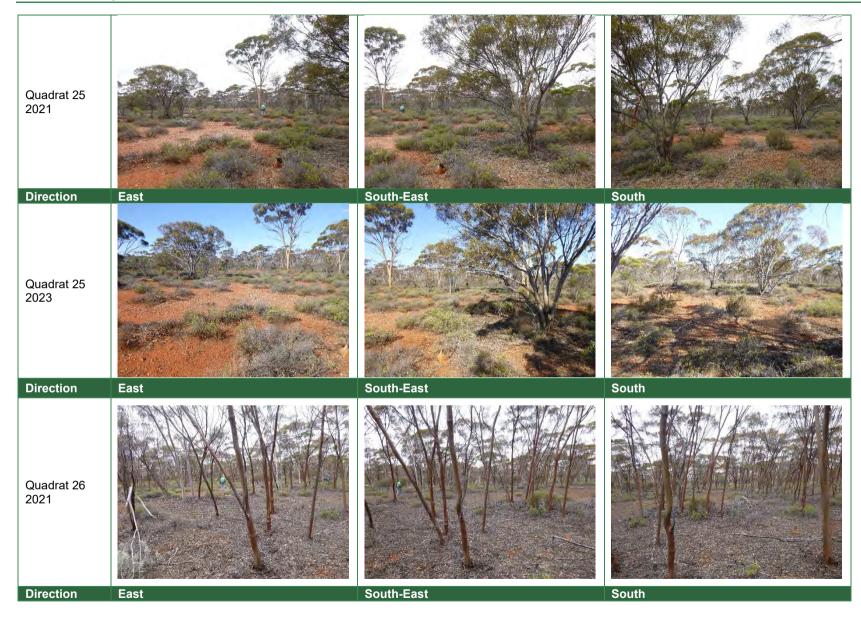




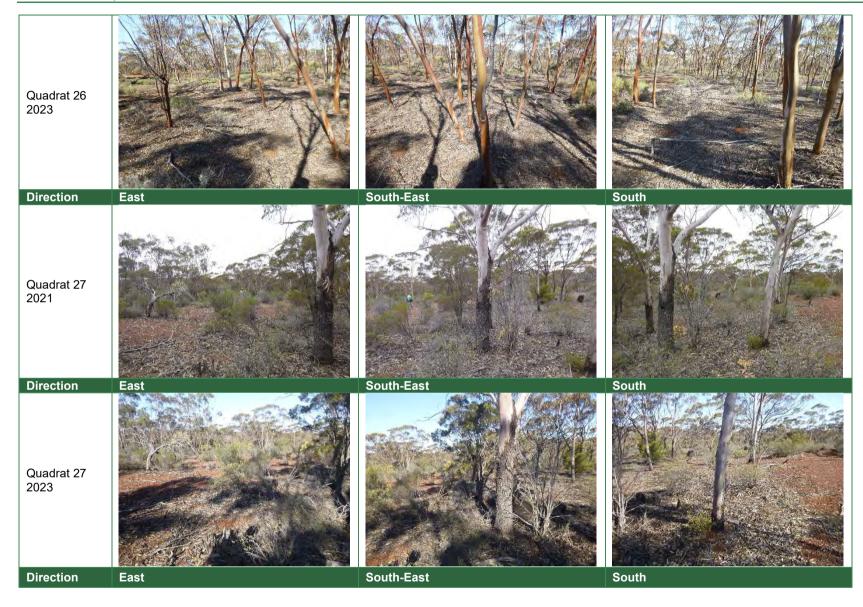




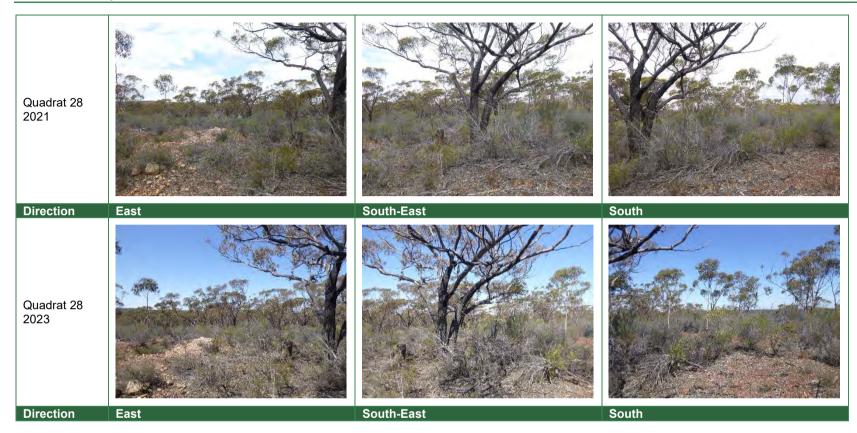




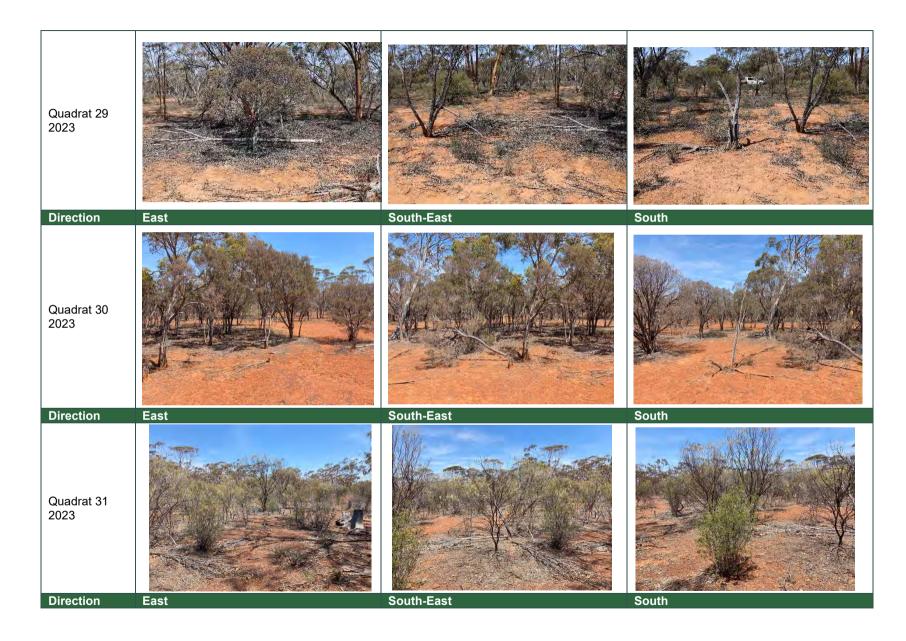
















Attachment 5: Priority Flora Impact Assessment

PRIORITY FLORA IMPACT ASSESSMENT

The Pioneer Dome Lithium Project (the Project) is a proposed open-cut lithium mining operation located approximately 52km north of Norseman in the Eastern Goldfields Region of Western Australia (Attachment 1). The Project tenements include: L15/473 and M15/1896.

The proposed mining activities will involve the development of three open pits and three waste rock landforms (WRLs), a ROM pad, workshop/fuel storage, explosives magazine, administration office, camp, access roads, solar farm, and haul roads. Future mining operations may include an onsite processing plant and tailings storage facility.

The TOTAL area of clearing proposed is 314ha within a 1418ha footprint (the Clearing Permit Area is shown in Attachment 2).

Botanica Consulting conducted a detailed flora/vegetation and basic fauna survey on the 22nd - 23rd of November 2021. A total of 28 quadrats (20m x 20m) were installed and assessed during the survey effort. The area was revisited, and quadrats were reassessed on the 18th and 19th of September 2023. A further six quadrats were installed and assessed along the proposed haul road (L15/473) on the 26th of October 2023.

The assessment of the DBCA Priority / Threatened flora database records (DBCA, 2022) identified the Priority 3 (P3) species *Eremophila acutifolia* as previously recorded within the survey area.

During the field assessments, the species was recorded within eight of the 34 quadrats within the survey area; approximately 96 plants were identified in total in groups of ~12 plants. Four of these quadrats (Q1, Q11, Q12, and Q18) are within the proposed Clearing Permit Area. Noting that *E. acutifolia* was absent from ten other quadrats within the proposed Clearing Permit Area.

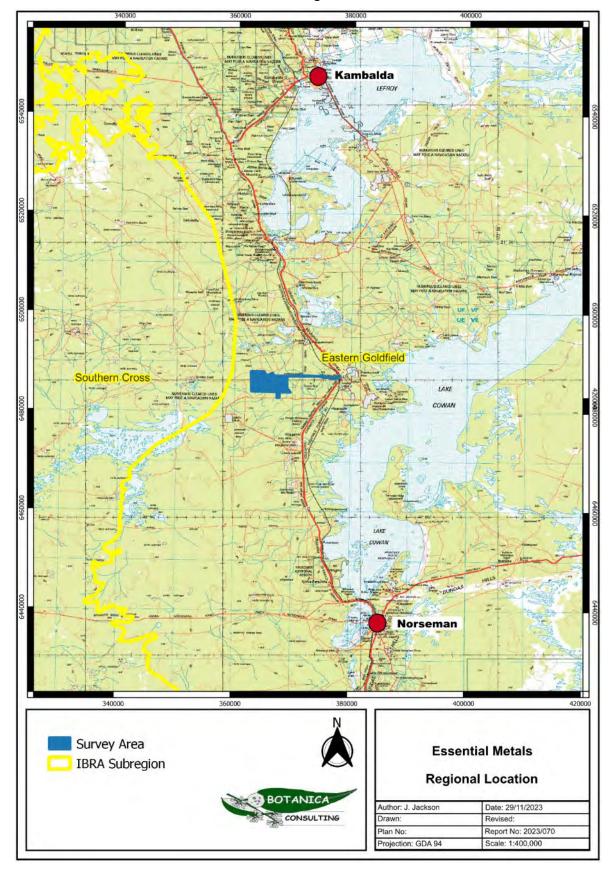
The Clearing Permit Area was initially going to represent the whole tenement area but has since been reduced to mitigate impacts to priority flora where possible.

The preliminary site layout plan directly intersected four quadrats where *E. acutifolia* (P3) had been recorded (Attachment 3). Consequently, the site layout plan was modified to avoid quadrats containing E. acutifolia (P3) where possible. In the current site layout, the quadrats containing *E. acutifolia* (P3) at risk of being intersected have been reduced to two (Attachment 4). Locations of *E. acutifolia* (P3) recorded by Botanica Consulting are presented in Attachment 3 and 4.

Based on the current site layout, the impact assessment (Attachment 5) indicates that the proposed clearing will impact approximately 24 *E. acutifolia* (P3) plants, equating to a 25% impact on the local population, noting that the species is regionally abundant, with numerous populations identified in

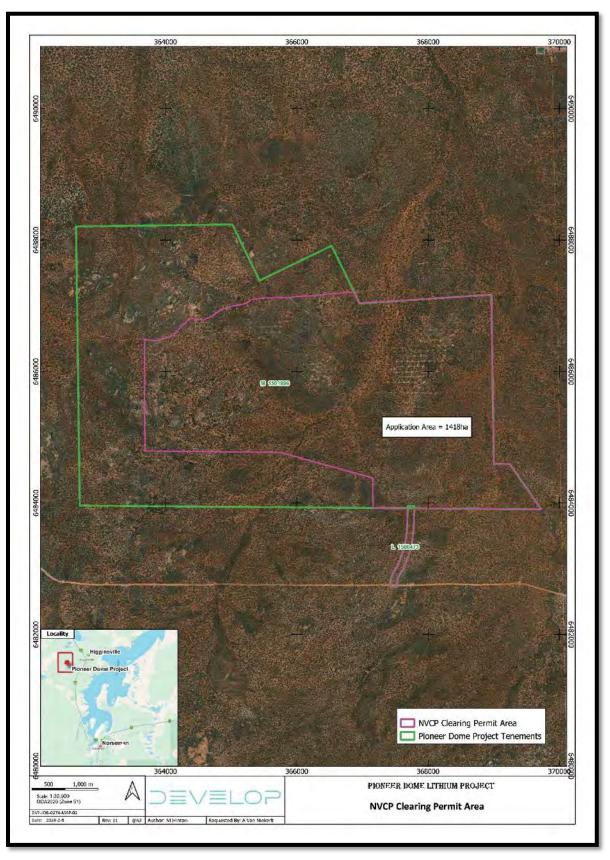
nearby tenements owned by Karora Resources. Regional locations of *E. acutifolia* (P3) recorded by the Herbarium of WA (ALA, 2024) are presented in Attachment 6.

Thus the proposed clearing at North Dome is unlikely to significantly impact this Priority Flora.



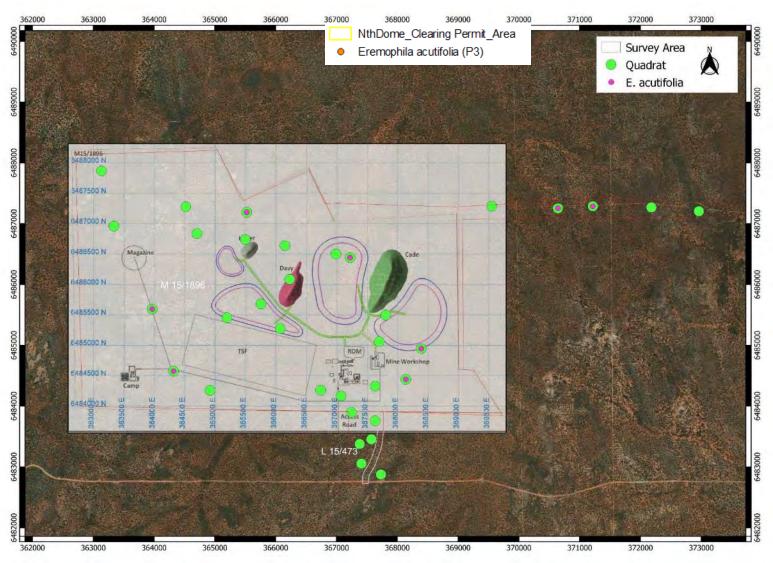
Attachment 1: Regional Location

Attachment 2: Clearing Permit Area



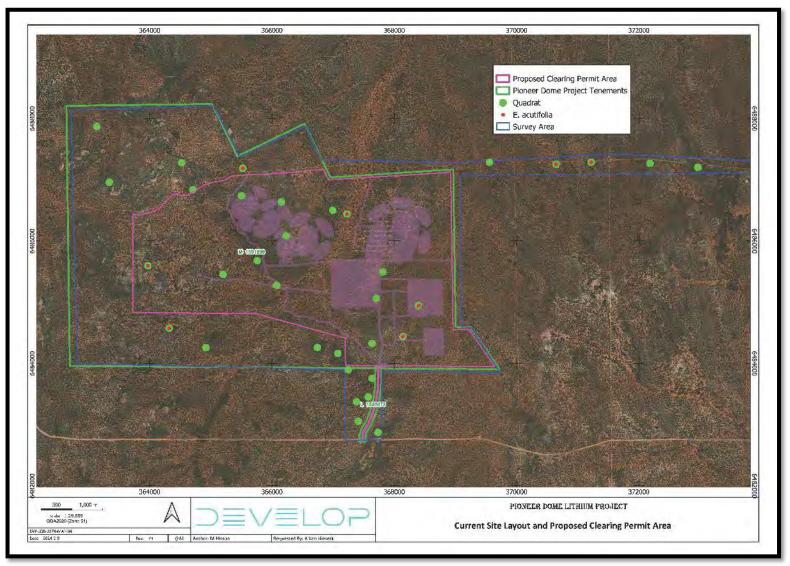
Attachment 3: Locations of *Eremophila acutifolia* (P3) within the Proposed Clearing Area

- Preliminary Site Plan Layout



Attachment 4: Locations of *Eremophila acutifolia* (P3) within the Proposed Clearing Area

- Current Site Plan Layout



Attachment 5: Priority Flora (Eremophila acutifolia) Impact Assessment

Quadrat [Botanica Consulting, 2024]	GPS Location [Botanica Consulting, 2024]	Location of plants pertaining to proposed clearing area (Inside/ Outside Clearing Permit Area)	Plants impacted by Current Site Plan Layout	Approx total no. of mature plants in population OR total area of community at that location	No. of plants and parts of plants likely to be taken OR area of community likely to be cleared (noting if this is buffer or actual community)	% of local population impacted
Q1	51J 367226 6486444	Inside	Avoided	12	0	0%
Q4	51J 365525 6487189	Outside	Avoided	12	0	0%
Q11	51J 368397 6484947	Inside	Impacted	12	12	100%
Q12	51J 368142 6484441	Inside	Possible Impact	12	12	100%
Q18	51J 363973 6485598	Inside	Avoided	12	0	0%
Q19	51J 364322 6484578	Outside	Avoided	12	0	0%
Q25	51J 370645 6487255	Outside	Avoided	12	0	0%
Q26	51J 371220 6487289	Outside	Avoided	12	0	0%
TOTAL				96	24	25%

Attachment 6: Regional Priority Flora (Eremophila acutifolia) Impact Assessment

