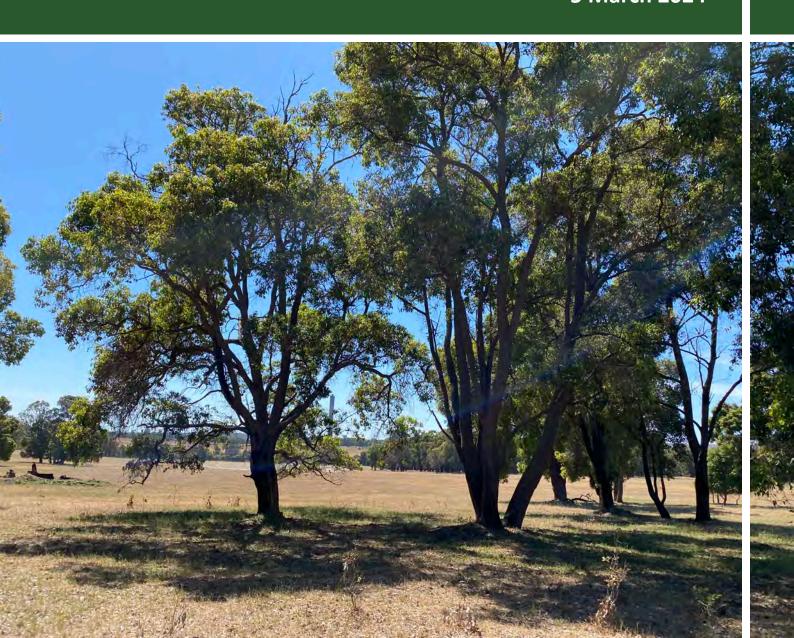


Detailed Flora and Vegetation Survey Collie Green Steel Recycling Mill

Prepared for Green Steel of WA Pty Ltd 5 March 2024



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EXECUTIVE SUMMARY

Green Steel of WA (GSWA) is proposing to develop the Collie Green Steel Recycling Mill on land situated south of the Collie townsite in south-west Western Australia. The project area covers approximately 148.9 hectares (ha), including 77 ha of largely disturbed ground and cleared annual pasture, and the remaining 71 ha supporting native vegetation. GSWA is proposing to clear remnant native vegetation within the project area to allow for infrastructure development.

Onshore Environmental Consultants Pty Ltd (Onshore Environmental) was commissioned by GSWA to undertake a single season detailed flora and vegetation survey of native vegetation remnant within the project area, herein referred to as the study area.

The field survey was completed by two Principal Botanists working over six field days between the 11th and 14th of September, 8th of November 2023 and 22nd of February 2024. The field survey included assessment of 24 quadrats along with targeted searches for conservation significant flora.

A total number of 189 plant taxa from 44 families and 123 genera were recorded from the study area. Species representation was greatest among the Fabaceae, Orchidaceae, Asteraceae, Proteaceae, Cyperaceae, Dilleniaceae, Asparagaceae, Myrtaceae and Stylidiaceae families. The most speciose genera were *Hibbertia*, *Stylidium*, *Gompholobium*, *Drosera*, *Styphelia*, *Lomandra*, *Acacia* and *Banksia*.

None of the plant taxa recorded from the study area were listed as Threatened Flora under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) or the Western Australian *Biodiversity Conservation Act 2016* (BC Act), or as Priority flora taxa by the Department of Biodiversity, Conservation and Attractions (DBCA).

A total of 16 introduced species were recorded from the study area. None of the weed taxa were listed as a Declared Pest under the *Biosecurity and Agriculture Management Act 2007* (BAM Act).

A total of nine vegetation types occurring on four broad landforms were described and mapped from the study area. The broad landforms included lateritic hill crests, upper mid and lower hill slopes, and seasonally wet (swampy) flats. None of the vegetation types were aligned with Commonwealth or Western Australian listed Threatened Ecological Communities (TECs) or DBCA listed Priority Ecological Communities (PECs), and all were well represented regionally.

Freehold land forming the northern half of the study area and including the water pipeline corridor, site access (road) corridor, and the recycling mill has been historically cleared predominantly for annual pasture, with retained remnant stands of native vegetation parkland cleared. Vegetation condition for this block was rated as degraded or completely degraded. Native vegetation condition within the southern sector of the study area where the rail line extension will be constructed was generally rated as very good or good. Disturbances recorded during the field survey included historical logging of hardwood timber, clearing for access tracks, infrastructure corridors such as the transmission line, rail line and haul road, and mine exploration activities, siltation and dusting from adjacent coal mining operations, ground disturbance from feral pigs, and minor weed ingress.

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1.0 INTRODUCTION

1.1 Preamble

GSWA is proposing to develop Western Australia's first steel mill and Australia's first green steel mill. The Collie green steel recycling mill will convert Western Australian scrap steel into rebar for both local, domestic, and international consumption. The mill will be located adjacent to Griffin Coal's operating Ewington Coal Mine and the Bluewaters Power Station, approximately 7 km east from the town of Collie in south-west Western Australia (Figure 1). The mill will be constructed within a ~50 ha privately owned farmland lot, with a 1 km extension to the existing rail line constructed within adjacent state forest to the south. The site will be accessed via the Collie-Williams Road to the north-west along an existing cleared corridor, with a water pipeline constructed along a powerline corridor also to the north-west of the mill site.

Onshore Environmental was commissioned to undertake a single season detailed flora and vegetation survey in Spring 2023. The field survey was completed by Principal Botanists working over five field days in mid September and early November 2023 and included assessment of 24 quadrats along with targeted searches for conservation significant flora. A targeted flora survey of the site access and water pipeline corridors was conducted on the 22nd of February 2024.

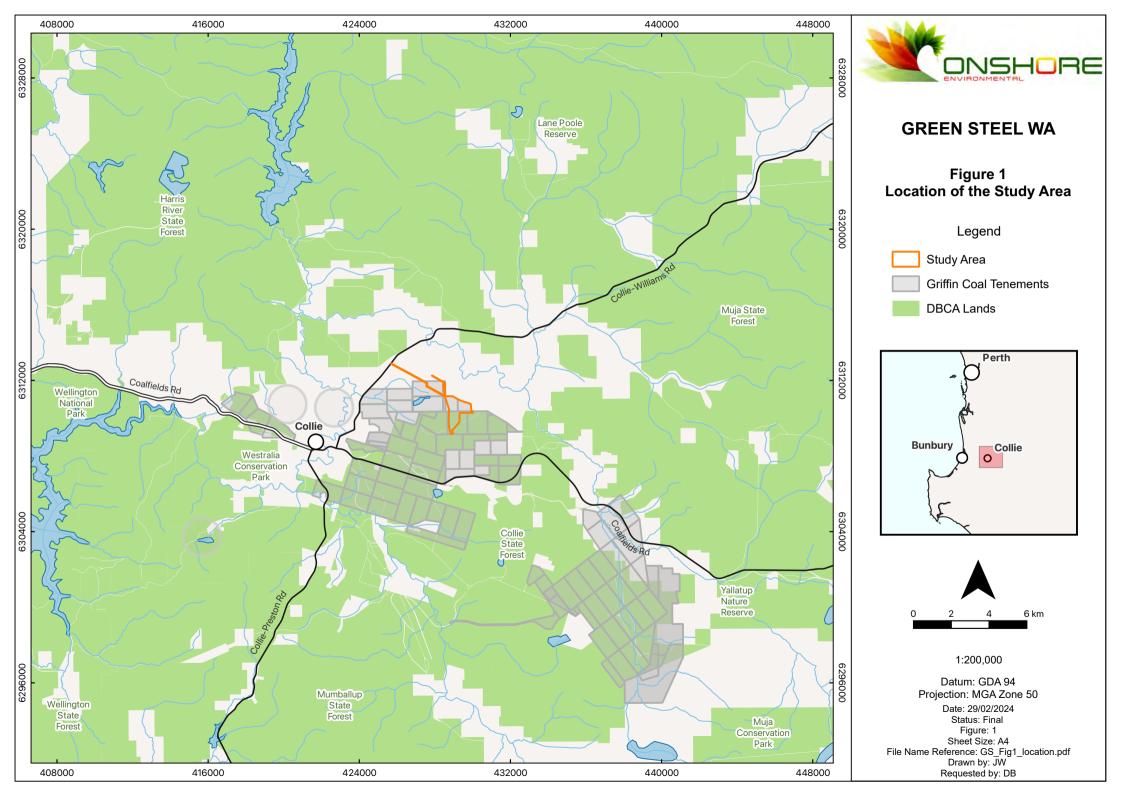
1.2 Biogeographic Regions

The latest version of the Interim Biogeographic Regionalisation for Australia (IBRA7) divides Australia into 89 bioregions based on climate, geology, landform, native vegetation and species information, and includes 419 sub-regions (Department of the Environment and Energy [DoEE] 2018). The bioregions and sub-regions are the reporting unit for assessing the status of native ecosystems and their level of protection in the National Reserve System.

The study area is located on the border of the Northern and Southern Jarrah Forest (JF1 and JF2) sub-regions of the IBRA7. Both subregions occur on the duricrusted plateau of the Yilgarn Craton with vegetation comprised of Jarrah-Marri forest on laterite gravels grading to Wandoo woodlands on clayey soils in the east. The climate of the sub-regions is Warm Mediterranean (Hearn *et al.* 2002).

The vegetation of the Southern Jarrah forest is described as "Jarrah-Marri forest in the west grading to Marri and Wandoo woodlands in the east. There are extensive areas of swamp vegetation in the south-east, dominated by Paperbarks and Swamp Yate. The understorey component of the forest and woodland reflects the more mesic nature of this area.

The Northern Jarrah forest also supports Jarrah-Marri forest in the west with vegetation in valleys including Bullish and Blackbutt. Wandoo and Marri woodlands occur to the east with breakaways of Powder-bark Wandoo. The subregion also contains low *Banksia* woodland on extensive sand sheets (Williams and Mitchel 2001).



1.3 Climate

The climate of south-west Western Australia is Mediterranean, with hot, dry summers and mild, wet winters. The Collie weather station is located nearby to the study area and has a long-term rainfall average of 920.9 mm (1899 to 2023), with the highest monthly rainfall received during June (172 mm) and July (175 mm). Average maximum summer temperatures range between 28.3°C and 30.5°C with average winter minimum temperatures ranging from 4.2°C to 5.0°C (Figure 2).

The mid Spring 2023 field survey followed a winter period where monthly rainfall totals were below the long term average, with 400 mm received for the three months preceeding the survey compared to the long term average of 487 mm (Figure 2). Seasonal conditions in early spring 2023 were rated as very good.

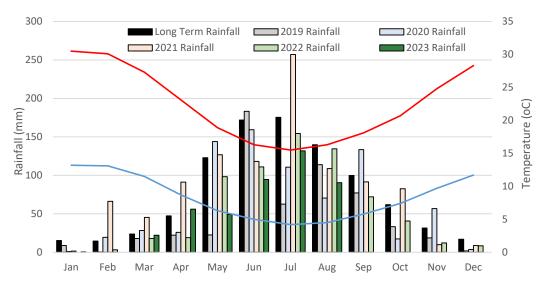


Figure 2 Monthly rainfall data from the Collie weather station from January 2019 to August 2023, with long term averages (Bureau of Meteorology [BOM] 2023).

1.4 Geology

The geology of the study area and the wider Collie region has been described by Wild and Walker (1982). The study area lies within the Collie Basin on the Darling Plateau. Permian sedimentary rocks occur in north north-west trending depressions on the Darling Plateau and are completely covered by Tertiary sediments. The largest, the Collie Basin, contains 1,300 m of strata, whilst the smaller Wilga Basin contains 360 m of sediments. Both depressions contain similar sedimentary sequences and are believed to have resulted from glacial scouring into the Archaean basement rocks.

The Collie Basin is approximately 26 km long by 13 km wide and stretches south-east from Allanson (to the west of Collie). There are three sub-basins: Cardiff, Shotts and Muja. These sub-basins are comprised of the lower Permian unit, the Stockton Formation and the overlying Collie Coal Measures. The Stockton Formation rests on a glacially striated granite pavement, and consists of a basal tillite, which is overlain by sandstone, siltstone and mudstone. The Collie Coal Measures are composed of a conglomerate, sandstone, siltstone, shale and intercalated seams of sub-bituminous coal.

1.5 Flora and Vegetation

1.5.1 Beard (1981) Vegetation Associations

The study area occurs in the Menzies Sub-district of the Darling Botanical District, in the South-West Botanical Province (Beard 1981). The Menzies Sub-district (southern jarrah forest) covers a total area of 26,572 km², of which 18,715 km² (70 percent) originally supported jarrah and jarrah-marri forest (Beard 1981).

The study area is dissected by the West Darling (northern extent) and Bridgetown (southern extent) Vegetation Systems as recognised by Beard (1981) (Figure 3). Within these systems, there is one vegetation association that intersects the study area:

Vegetation Association 3 - Medium Forest; Jarrah-Marri.

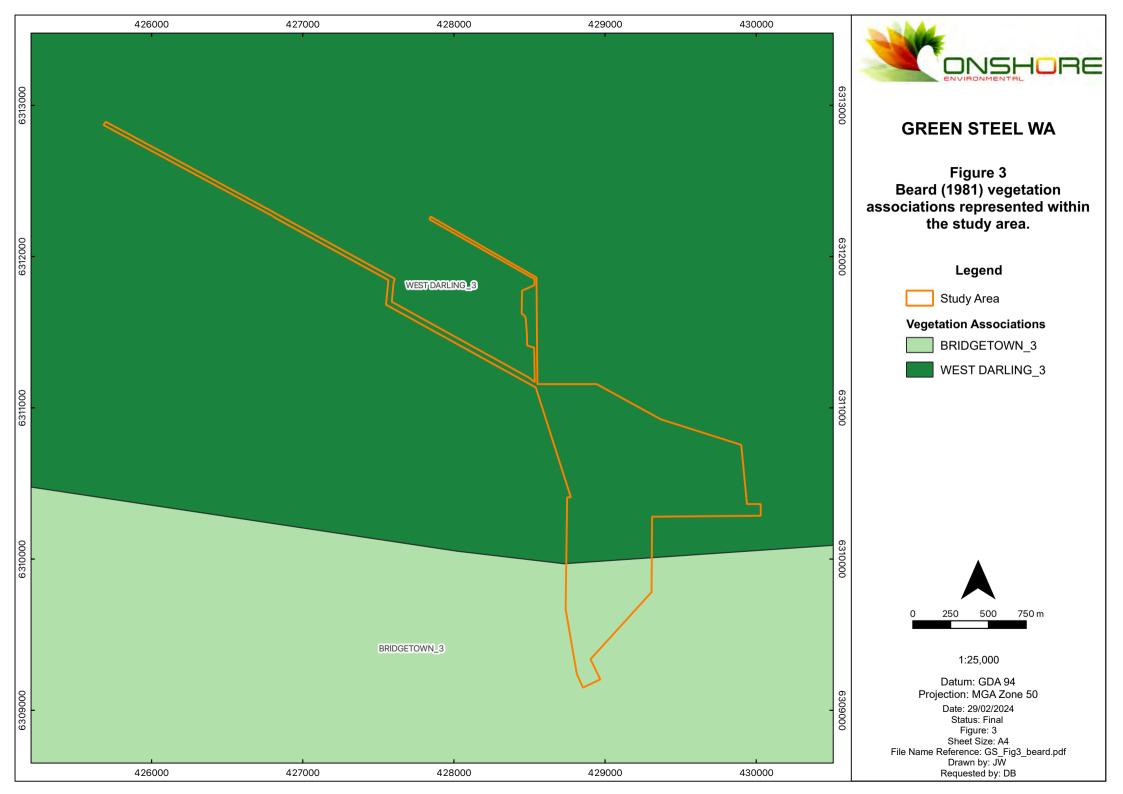
When determining representation and reservation of remaining vegetation, Vegetation Association 3 was determined to be well represented at all levels (statewide, bioregional [IBRA and IBRA sub-region], and local government authority), with more than 56% of the pre-European extent remaining. Vegetation Association 3 was also determined to be well reserved, with more than 15% of the current extent protected for conservation within the Southern Jarrah Forest sub-region.

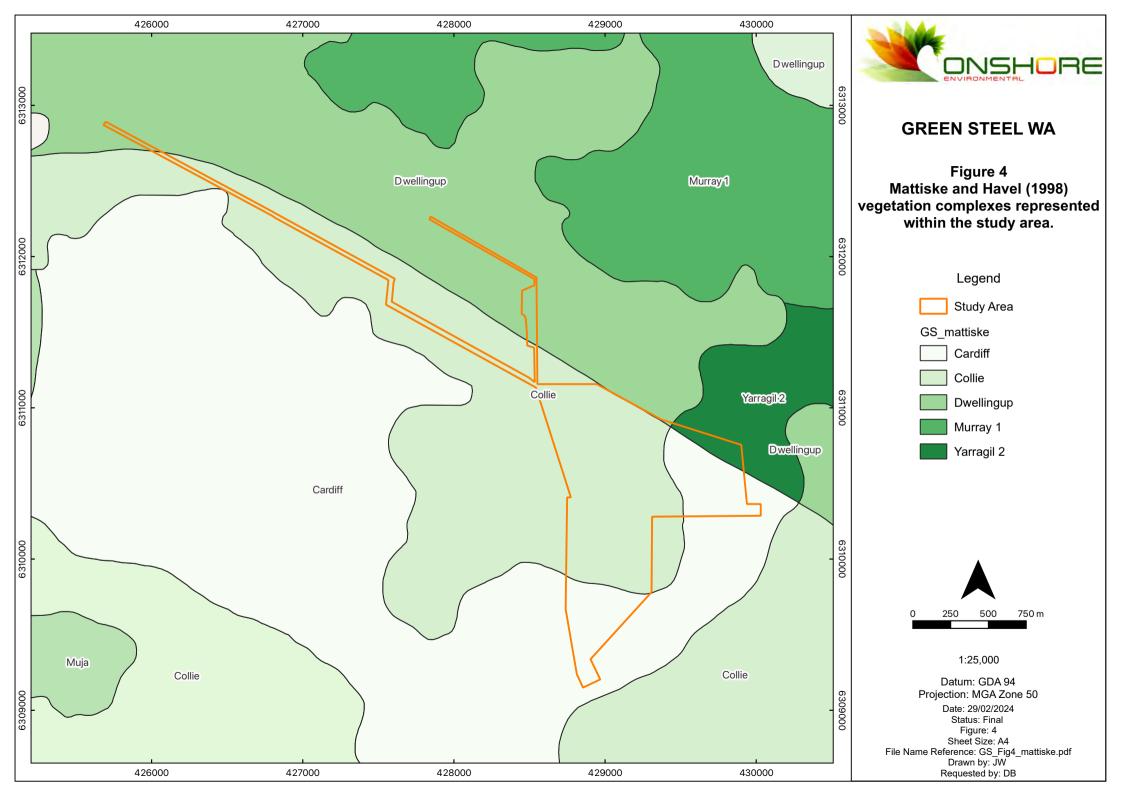
1.5.2 Mattiske and Havel (1998) Vegetation Complexes

The pre-1750 distribution of vegetation complexes of the south-west forest region of Western Australia has been mapped at 1:50,000 scale by Mattiske and Havel (1998) as part of the biodiversity assessment for the comprehensive regional assessment for the south-west forest region. This database has been used to assess flora and vegetation values as part of the 1999 Regional Forest Agreement (RFA). Interrogation of this database confirmed there were four vegetation complexes (as described and mapped by Mattiske and Havel 1998) intersecting the study area (Table 1, Figure 4).

Table 1 Vegetation complexes, as mapped by Mattiske and Havel (1998), represented within the study area.

| Vegetation Complex | Vegetation Description |
|-----------------------|---|
| Collie Plain | |
| Cardiff CF | Uplands: Open Woodland of <i>Allocasuarina fraseriana - Banksia</i> species - <i>Xylomelum occidentale - Nuytsia floribunda</i> on sandy soils on valley slopes in the subhumid zone. |
| Collie Cl | Uplands: Open Forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia</i> calophylla - <i>Allocasuarina fraseriana</i> on gravelly sandy upland soils in the subhumid zone. |
| Darling Plate | au |
| Dwellingup D1 | Open forest of Eucalyptus marginata subsp. marginata-Corymbia calophylla on lateritic uplands in mainly humid and subhumid zones. |
| Yarragil 2 Yg2 | Open forest of Eucalyptus marginata subsp. thalassica-Corymbia calophylla on slopes, woodland of Eucalyptus patens-Eucalyptus rudis with Hakea prostrata and Melaleuca viminea on valley floors in subhumid and semiarid zones. |





2.0 METHODOLOGY

2.1 Legislation and Guidance Statements

The single season detailed flora and vegetation survey was carried out in a manner that is compliant with Environmental Protection Authority (EPA) requirements for the environmental surveying and reporting of flora and vegetation in Western Australia:

- Technical Guidance Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016a);
- Environmental Factor Guideline: Flora and Vegetation (EPA 2016b); and
- Statement of Environmental Principles, Factors and Objectives (EPA 2020).

2.2 Desktop Assessment

2.2.1 Literature Review

Regional scale reports relevant to the study area locality were reviewed, including:

- Beard (1981) Vegetation Survey of Western Australia Swan, 1:1000 000 Vegetation Series;
- Smith (1974) in the Collie area (1:250,000);
- Heddle, Havel and Loneragan (1980) in the System 6 area; Perth, Pinjarra and Collie areas (1:250,000);
- Mattiske and Havel (1998) in the vegetation mapping for the Regional Forest Agreement; and
- Hearn *et al* (2003) Management of Significant Flora Values in South-west Forests and Associated Ecosystems.

At the local scale numerous previous flora and vegetation surveys have been completed within close proximity to the study area. The following surveys were reviewed as part of the desktop assessment and are summarised in more detail in Section 3.1:

- Onshore Environmental (2022) Detailed Flora and Vegetation Survey Pit 2 Exploration Area;
- Onshore Environmental (2018a) Ewington Targeted Flora Survey;
- Onshore Environmental (2018b) West Ewington and Muja South Tenements Expenditure Detailed Flora and Vegetation Survey;
- Bennett Environmental Consulting (2008a) Flora and Vegetation Proposed Expansion at Ewington Mine Site;
- Onshore Environmental (2016a) Ewington Northern Extension Level 2 Flora and Vegetation Survey;
- Onshore Environmental (2016b) Groundwater Dependent Vegetation, Ewington Creek:
- Onshore Environmental (2015) Level 2 Flora and Vegetation Survey of the Muja South tenement;

- Wildy (2015) Report on a Flora and Vegetation Survey of the Premier Coal Mine 2015 Clearing Area, Collie;
- Onshore Environmental (2014) Regional Targeted Flora Survey Caladenia sp. Collie (E. Bennett s.n. PERTH 08396051);
- Onshore Environmental (2013a) Level 2 Flora and Vegetation Survey Proposed Muja South Conveyor Corridor;
- Onshore Environmental (2013b) Level 2 Flora and Vegetation Survey Muja South Rail Loop and Product Handling Facilities;
- Onshore Environmental (2012) Targeted Flora Survey Caladenia sp. Collie (E. Bennett s.n. PERTH 08396051);
- Ekologica (2010) Level 2 Flora and Vegetation Assessment of Crown Land in Buckingham Way, Collie;
- Bennett Environmental Consulting (2009) Flora and Vegetation of West Ewington and Stockton Leases;
- Bennett Environmental Consulting (2008b) Flora and Vegetation of Proposed Development at Griffin Coal Mine Muja South Collie;
- Bennett Environmental Consulting (2006a) Vegetation and Flora of Proposed Rail Loop and Product Handling Facilities Muja South Project;
- Bennett Environmental Consulting (2006b) Flora and Vegetation of Boyup Basin,
 Wilga; and
- Mattiske Consulting (2006) Flora and Vegetation Survey of the Proposed Waste Dump Expansion Area, Ewington II.

The surveys identified above were reviewed to provide regional context for the survey, and to identify vegetation types and species of conservation significance with the potential to occur within the study area.

2.2.2 Database Searches

Desktop searches included databases relating to significant flora, TECs and PECs previously collected or described within, or nearby the study area. The search was extended beyond the study area to place flora values into a local and regional context. The following databases were searched around the study area:

- Naturemap (Dandjoo): This database represents the most comprehensive source
 of information on the distribution of Western Australia's flora, comprising records
 from the DBCA database and the Western Australian Herbarium Specimen
 Database (20 km radial search) (DBCA 2023a);
- DBCA's Threatened and Priority flora database was searched to confirm the Naturemap results (25 km radial search) (DBCA 2023a);
- DBCA's TEC, PEC and Environmentally Sensitive Areas (ESAs) database was searched to identify significant communities (10 km radial search) (DBCA 2023b);
- Environmental Protection and Biodiversity Conservation (EPBC) Act Protected Matters Database (25 km radial search) (DCCEEW 2023);
- Atlas of Living Australia (ALA) spatial database search of the study area boundary (ALA 2023); and
- International Union for Conservation of Nature (IUCN) database (IUCN 2023).

2.2.3 Assessment of Conservation Significance

The conservation significance of flora and ecological communities are classified at a Commonwealth, State and Local level based on various Acts and Agreements, including:

International Level:

• IUCN: The IUCN 'Red List' lists species at risk under nine categories (status codes) (Appendix 1).

Commonwealth Level:

 EPBC Act: The DCCEEW lists Threatened flora and ecological communities, which are determined by the Threatened Species Scientific Committee according to criteria set out in the Act. The Act lists flora that are of conservation significance under one of six categories (Appendix 1).

State Level:

- BC Act: At a state level, native flora species are protected under the BC Act –
 Wildlife Conservation Notice. Several species are assigned an additional level of
 conservation significance based on a limited number of known populations and
 the perceived threats to these locations (Appendix 1); and
- DBCA Priority list: DBCA produces a list of Priority species and ecological communities that have not been assigned statutory protection under the WC Act. Possibly threatened species that do not meet survey criteria, or are otherwise data deficient, are added under Priorities 1, 2 or 3. Species that are adequately known, are rare but not threatened, or meet criteria for near threatened, or that have been removed from the threatened species list for other taxonomic reasons, are placed in Priority 4. These species require regular monitoring (see Appendix 1). The list of PECs identifies those that need further investigation before nomination for TEC status at a state level.

Local Level:

 Species may be considered of local conservation significance because of their patterns of distribution and abundance. Although not formally protected by legislation, such species are acknowledged to be in decline because of threatening processes, primarily habitat loss through land clearing.

2.2.4 Assessment of Likelihood of Occurrence in the Study Area

A list of conservation significant flora species occurring in the vicinity of the study area was compiled during the literature review and database searches. The likelihood of each taxon occurring within the study area was assessed using a set of rankings and criteria (as described in Table 2). The criteria are based on presence of suitable landform (inferred from aerial imagery with contours overlayed, and from knowledge of the adjacent areas) and distance to known records.

Table 2 Ranking system used to assign the likelihood that a species would occur in the study area.

| Rank | Criteria |
|-------------------|---|
| Recorded | The species has been recorded in the study area. |
| Likely to occur | The species has previously been recorded from a landform which is present within the study area, and there are previous records within a 5 km radius of the study area. |
| Possible to occur | The species has previously been recorded from a landform which is present within the study area, and there are previous records within a 10 km radius of the study area. |
| Unlikely to occur | The landform from which the species has previously been recorded is absent within the study area, and/or there are no previous records within a 10 km radius of the study area. |

2.3 Baseline Survey Methodology

2.3.1 Timing and Personnel

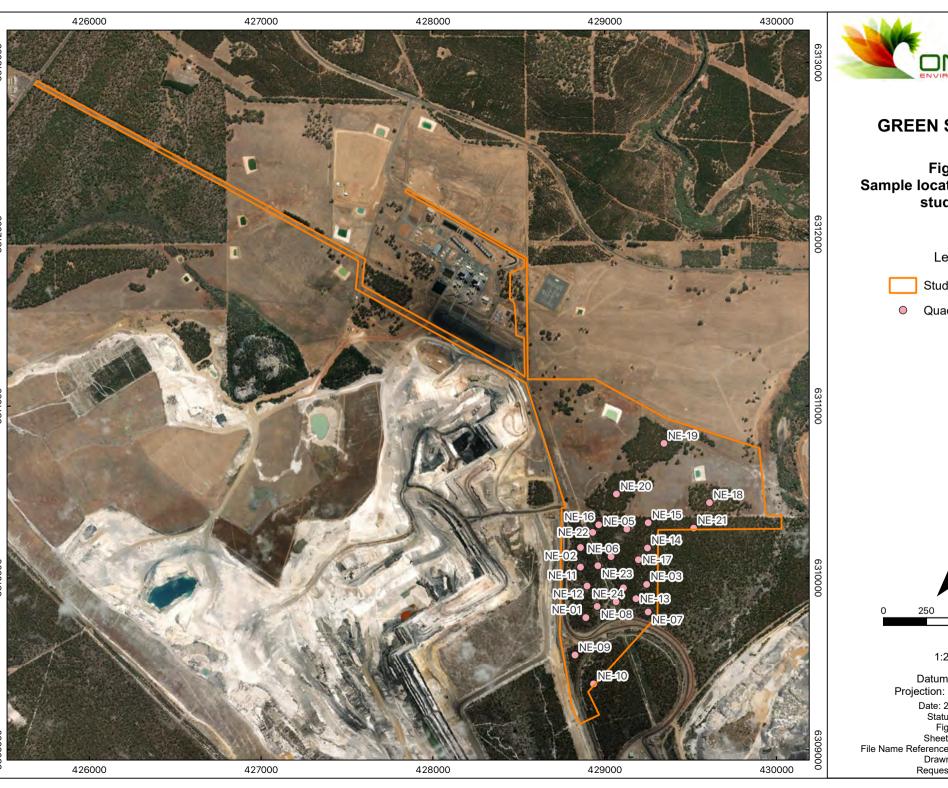
The field survey was completed by Principal Botanists Dr Jerome Bull and Dr Darren Brearley working over six field days between the 11th and 14th of September, 8th of November 2023, and 22nd of February 2024. Each of the Principal Botanists have over 25 years experience undertaking surveys in the South-West and have completed numerous surveys within the Collie Basin over this period.

2.3.2 Sampling of Study Sites

The field survey involved systematic sampling using quadrats (referred to as study sites). The study sites were 10 metres by 10 metres in size, which is standard for the Jarrah Forest bioregion. A total of 24 quadrats were formally assessed (Figure 5). Study site locations were chosen based on consideration of the following requirements as per the technical guidelines for flora and vegetation surveys (EPA 2016a):

- A minimum of three quadrats in each vegetation type observed within the study area;
- Vegetation within the quadrat was representative of the typical vegetation occurring within a vegetation type (i.e., quadrats were not placed within an area of transition between vegetation types or in close proximity to tracks or other significant disturbance);
- Quadrats were positioned to provide adequate spatial coverage across the study area; and
- Quadrats were positioned to capture the typical range of variability in landforms, geology, soils, vegetation, and other physical characteristics that were present across a vegetation type.

In addition to quadrats, relevé vegetation descriptions were made to increase the accuracy of vegetation mapping and capture additional information on the flora and vegetation of the study area. Relevé vegetation descriptions were utilised to target unusual areas or specific features of geology, soil, landforms, or vegetation. They were also conducted in areas where conservation significant flora or previously unrecorded species were observed outside formal quadrats.





GREEN STEEL WA

Figure 5
Sample locations within the study area

Legend

Study Area

Quadrat Locations



1:22,000

Datum: GDA 94
Projection: MGA Zone 50
Date: 29/02/2024
Status: Final
Figure: 5
Sheet Size: A4
File Name Reference: GS_Fig5_quadrats.pdf
Drawn by: JW
Requested by: DB

The quadrats were assessed to provide a list of the total flora occurring within the study area and a description of the vegetation structure. Data recorded covered a range of environmental parameters including:

- Landform and habitat;
- · Aspect;
- Soil colour and soil type;
- · Rock type;
- Slope (angle);
- Vegetation condition;
- Disturbance (caused by fire, clearing, grazing etc.);
- Age since fire;
- Broad floristic formation;
- Vegetation type description; and
- Height and percentage ground cover provided by individual plant taxa.

Other parameters recorded for each study site were:

- Study site number and date of assessment;
- · Names of the botanists undertaking the assessment;
- Location description a waypoint GPS coordinate (GDA94) using a handheld GPS; and
- Photograph number (taken from north-west corner).

Vegetation condition for each of the study sites was determined using a recognised rating scale (based on Keighery 1994, see Appendix 2).

2.3.3 Targeted Surveys for Conservation Significant Species

Targeted searches for species of conservation significance were completed within the study area. Targeted searches were completed in habitats where it was anticipated that significant flora might occur based on habitat preferences (according to the database searches) and from previous knowledge of the species. Ground truthing conducted across the study area provided an opportunity to record opportunistic locations for conservation significant flora and to undertake closer examination of specific landforms where conservation significant flora would be expected to occur. Targeted searches were also undertaken opportunistically when traversing the study area between quadrat sites.

2.3.4 Weed Survey and Mapping

Introduced species were recorded from the quadrats formally assessed within the study area. Opportunistic collections were also made while moving throughout the study area, with targeted weed searches completed in high moisture habitats such as seasonally wet flats.

2.3.5 Floristic Analysis

A multivariate statistical analysis of the floristic quadrat data (24 quadrats) was completed to assist in understanding the vegetation-habitat relationships within the study

area. Statistical analysis of quadrat data can support delineation of vegetation types within the study area and provide comparison against locally significant communities (TECs and PECs) where quadrat data is available.

A two-way classification (Agglomerative Hierarchical Fusion) of the presence/absence quadrat data was carried out on the 165^1 taxa x 24 quadrat dataset using the program PATN (Belbin 2003). The flexible unweighted pair group method with arithmetic mean (UPGMA) classification strategy was used (β = -0.1), together with the Bray-Curtis site similarity measure. The number of groups to be determined was set at seven. The primary output of the classification was in the form of a dendrogram (Appendix 3).

The results from the statistical analysis need to be appropriately analysed by an experienced botanist, and effects such as fire disturbance, ephemeral taxa, and spatial distribution of quadrats taken into consideration when interpreting the results. Plant taxa that occupy a range of vegetation types can obscure vegetation patterning and influence statistical outputs. It must be acknowledged that the results of multivariate statistical analysis may not always align with the delineated vegetation types.

2.3.6 Vegetation Type Mapping

The classification of vegetation types within the study area follows the height, life form and density classes of Muir (1997) (see Appendix 4). This is largely a structural classification suitable for broader scale mapping but taking all ecologically significant strata into account.

The description of vegetation type leads with the most dominant strata (based on percent foliar cover) and flora species listed start with the most dominant (Table 3). Table 4 further describes and categorises these strata and gives examples of potential growth forms for each, e.g., over-storey (U), mid-storey (M) and under-storey (G) vegetation strata.

Vegetation types recorded within the study area are grouped according to 'broad floristic formation' (refer to Table 3). A broad floristic formation describes the dominant growth form, cover, and height as well as the dominant land cover genus for the dominant stratum (Department of Environment and Heritage (DEH) 2003).

The vegetation mapping utilised high-resolution aerial photography of the entire study area at a scale of 1:5,000, with definition of vegetation polygons based on contrasting shading patterns. Ground-truthing of the study area was completed during the survey with vegetation descriptions made within selected vegetation polygons to confirm dominant structural layers and associated plant taxa. The 24 study sites were overlaid on the aerial photography, and associated flora and vegetation data was used to provide vegetation type descriptions for individual polygons defined.

2.3.7 Vegetation Type Coding

A vegetation code was applied to each vegetation type. This code is comprised of the dominant landform on which the vegetation type occurs and the dominant plant taxa in each vegetation stratum.

¹ The number of taxa recorded within quadrats.

2.3.8 Vouchering

At least one voucher specimen was taken for each species collected to verify identification. Taxonomy was completed by Dr Jerome Bull at the Western Australian Herbarium (WAH) with use made of the WAH for confirmation of species identification.

Table 3 Vegetation type descriptions (based on the methods used under the National Vegetation Information System, Department of the Environment 2003).

| Description | Species | Cover | Soils | Landscape Position |
|--|--|--|--|--|
| Broad Floristic Formation | The one dominant genus name for the dominant stratum, e.g., Acacia | One cover class for the dominant stratum, e.g., Low Woodland. If two strata have the same cover range, the taller stratum is listed | Not relevant | Not relevant |
| Vegetation Type (describe three strata - refer Table 4) | Up to three dominant species listed for each stratum | One cover class code for each stratum, e.g., Low Open Woodland, Open Shrubland, Low Open Shrubland | State soil colour and type, e.g., red sandy loam | Include the landscape position, e.g., stony plain |

Table 4 Vegetation stratum levels (modified from Department of the Environment 2003).

| Stratum Description | Example Growth Forms | | |
|---|--|--|--|
| Over-storey (U) | | | |
| Tallest tree sub-stratum: for forests and woodlands this will generally be the dominant stratum | Trees, tree mallee, and vines (mallee shrubs) | | |
| Sub-canopy layer; second tree layer | | | |
| Sub-canopy layer; third tree layer | | | |
| Mid-storey (M) | | | |
| Tallest shrub layer | Shrubs, low trees, mallee shrubs, grass-trees, | | |
| Second shrub layer | tree-ferns, cycads, palms, and vines (low shrubs, | | |
| Third shrub layer | tall grasses, tall forbs, tall sedges) | | |
| Under-storey (U) | | | |
| Tallest ground species | Grasses, forbs, sedges, rushes, lichens, | | |
| Other ground species | epiphytes, low shrubs, ferns, bryophytes, cycads, grass-trees, and vines | | |

2.3.9 Field Survey Constraints

The EPA Technical Guidance for Flora and Vegetation Surveys for Environmental Impact Assessment in Western Australia (EPA 2016a) list seven potential limitations that field surveys may encounter. These limitations are addressed in Table 5.

Table 5 Relevance of limitations, as identified by EPA (2016a), to the flora and vegetation survey.

| Constraint | Relevance |
|---|---|
| Availability of contextual information at a regional and local scale | NOT A LIMITATION A detailed flora and vegetation survey had previously been completed within the study area (Onshore Environmental 2018) and at least 16 flora and vegetation surveys have also been undertaken within the Collie Coal Basin, providing excellent contextual information on the study area. |
| Proportion of flora recorded and/or collected, any identification issues | NOT A LIMITATION It is likely that a large proportion of the total flora occurring within the study area was recorded given the high intensity sampling completed during peak flowering period in 2023. The seasonal condition at the time of the early Spring survey was rated as very good. |
| Survey timing, rainfall, season of survey | NOT A LIMITATION The field survey followed a winter period where monthly rainfall totals were below the long term average, with 400 mm received for the three months preceeding the survey compared to the long term average of 487 mm. However, rainfall was not a limiting factor and seasonal conditions were rated as very good. |
| Disturbance that may have affected the results of the survey such as fire, flood or clearing | NOT A LIMITATION There were no disturbances recorded within the study area that influenced survey outcomes. Disturbances within the study area included clearing for annual pasture on private farmland in the northern half of the study area, and logging, access tracks, historical exploration and perimeter edge effects related to adjacent mining operations in the southern half. Disturbances did not impact on the ability to complete the field survey. |
| Was the appropriate area fully surveyed (effort and extent) | NOT A LIMITATION A Principal Botanist assessed the study area during a four day survey completed in mid Spring 2023 and one additional day in Autumn 2024, with a previous detailed flora and vegetation survey undertaken in September 2018. A total of 24 quadrats were assessed throughout the study area, and targeted significant flora searches were also completed. This represented an extensive survey effort. |
| Access restrictions within the survey area | NOT A LIMITATION The study area was accessed by vehicle and on foot, noting that vegetation mapping was facilitated by high-resolution aerial photography. |
| Competency/experience of the team carrying out the survey, including experience in the bioregion surveyed | NOT A LIMITATION The Principal Botanist working on the survey, Dr Jerome Bull, has over 25 years' experience working in the region and has completed numerous surveys within the Collie Basin. |

3.0 RESULTS

3.1 Desktop Review

3.1.1 Previous Baseline Flora Surveys

The study area lies within the Darling Botanical District of the South-Western Botanical Province as recognised by Diels (1906) and later developed by Gardner (1942) and Beard (1979, 1980). The first broad scale mapping of vegetation types within the Jarrah Forest Bioregion was completed by Havel (1975). A total of 26 site vegetation types were recorded based on the presence and absence of characteristic species.

Historical broad scale vegetation mapping in the Collie area has been completed by:

- Smith (1974) in the Collie area (1:250,000);
- Heddle *et al.* (1980) in the System 6 area; Perth, Pinjarra and Collie areas (1:250,000); and
- Mattiske and Havel (1998) in the vegetation mapping for the Regional Forest Agreement.

Mattiske and Havel (1998) mapped vegetation complexes of the south-west region at a scale of 1:50,000. Four vegetation complexes were identified within the study area as described in Section 1.5.2.

As a result of mining in the Collie area several more intensive baseline flora and vegetation surveys have been completed in the region (Table 6).

Table 6 Summary of background information and results for previous flora and vegetation surveys completed near the study area.

| Survey Name | Survey Timing | Vegetation types | Taxon Summary | Conservation Significant Flora Recorded |
|--|--|--|---|--|
| Detailed Flora and Vegetation Survey Pit 2 (Onshore Environmental 2022) | 15-18 September 2020, 18-22 May 2022 | 11 vegetation types None aligned with TECs or PECs | 378 plant taxa from 60 families and 188 genera | Leucopogon extremus (P2), Daviesia mesophylla (P2), Schoenus pennisetis (P3), Synaphea decumbens (P3), Grevillea prominens (P3), Cyathochaeta teretifolia (3) |
| Ewington Targeted Flora Survey (Onshore Environmental 2018a) | 13-14 September 2018 | N/A | N/A | Cyathochaeta teretifolia (P3) |
| West Ewington and Muja South Tenements Expenditure Detailed Flora and Vegetation Survey (Onshore Environmental 2018b) | 31 November-2 December 2017 | 12 vegetation types None aligned with TECs or PECs | 303 plant taxa from 54 families and 158 genera | Logania sylvicola (P2), Acacia semitrullata (P4) |
| Ewington Northern Extension Level 2 Flora and Vegetation Survey (Onshore Environmental 2016a) | 29 and 30 September 2015 15 and 16 June 2016 | 10 vegetation types None aligned with TECs or PECs | 178 taxa from 43 families and 110 genera | None recorded |
| Groundwater Dependent Vegetation, Ewington Creek (Onshore Environmental 2016b) | 29-31 March 2016 | 38 vegetation types None aligned with TECs or PECs | Not collated | Grevillea ripicola (P4) |
| Report on a Flora and Vegetation Survey of the Premier Coal Mine 2015 Clearing Area, Collie, Western Australia (Wildy 2015) | 3-6, 28-29 October, 17, 26 November 2011 | 9 vegetation types None aligned with TECs or PECs | 240 taxa from 50 families and 141 genera 43 weeds | None recorded |
| Level 2 Flora and Vegetation Survey, Muja South (Onshore Environmental 2015) | 20-27 October 2014 | 19 vegetation types None aligned with TECs or PECs | 553 taxa from 72 families and253 genera 70 weeds | Caladenia leucochila (T), Hemigenia rigida (P1), Leucopogon extremus (P2), Synaphea decumbens (P3), Synaphea petiolaris subsp. simplex (P2), Schoenus pennisetis (P3), Eucalyptus rudis subsp. cratyantha (P4), Pultenaea skinneri (P4), Rumex drummondii (P4), Acacia semitrullata (P4) |
| Regional Targeted Flora Survey Caladenia sp. Collie (E. Bennett s.n. PERTH 08396051) (Onshore Environmental 2014) | 11 th -18 th September, 23- 24 th September 2014 | - | - | Caladenia leucochila (T) |

| Survey Name | Survey Timing | Vegetation types | Taxon Summary | Conservation Significant Flora Recorded |
|---|--|--|--|--|
| Level 2 Flora and Vegetation Survey Proposed Muja South Conveyor Corridor (Onshore Environmental 2013a) | 20 th October 2012, 21 st March 2013 | 13 vegetation types None aligned with TECs or PECs | 144 taxa from 33 families and 90 genera 9 weeds | Synaphea hians (P3) |
| Level 2 Flora and Vegetation Survey Muja South Rail Loop and Product Handling Facilities (Onshore Environmental 2013b) | 27 th November 2008, 19 th October 2012 | 9 vegetation types None aligned with TECs or PECs | 221 taxa from 43 families and 121 genera 22 weeds | Dillwynia sp. Capel (P.A. Jurjevich 1771) (P1), Acacia semitrullata (P4) |
| Targeted Flora Survey <i>Caladenia</i> sp. Collie (E. Bennett s.n. PERTH 08396051) (Onshore Environmental 2012) | 12 th September -9 th October 2012 | - | - | Caladenia leucochila (T) |
| Level 2 Flora and Vegetation Assessment of Crown Land in Buckingham Way, Collie (Ekologica 2010) | 23 rd July, 15 th September, 5 th October 2010 | 2 vegetation types None aligned with TECs or PECs | 119 taxa | None |
| Flora and Vegetation of West Ewington and Stockton Leases (Bennett Environmental Consulting 2009) | 21 September, 10-18 November 2008 | 34 vegetation types None aligned with TECs or PECs | 478 taxa from 59 families and 207 genera 33 weed species | Hemigenia rigida (P1), Leucopogon extremus² (P2), Calytrix pulchella (P3), Synaphea decumbens (P3), Synaphea hians (P3), Grevillea ripicola (P4), Pultenaea skinneri (P4) |
| Flora and Vegetation Proposed Expansion at Ewington Mine Site (Bennett Environmental Consulting 2008a) | 10-14 October, 25 October, 10-12 December | 25 vegetation types None aligned with TECs or PECs | 431 taxa from 64 families and 217 genera 43 weeds | Synaphea petiolaris subsp. simplex (P2), Pultenaea skinneri (P4) |
| Flora and Vegetation of Proposed Development at Griffin Coal Mine Muja South Collie (Bennett Environmental Consulting 2008b) | 1 st -10 th September 2005, 26 th -29 th October 2006 | 28 vegetation types None aligned with TECs or PECs | 553 taxa from 72 families and 254 genera 78 weeds | Caladenia leucochila ³ , Leucopogon extremus (P2) ⁴ , Synaphea petiolaris subsp. simplex (P2), Acacia semitrullata (P4), Synaphea decumbens (P3), Eucalyptus rudis subsp. cratyantha (P4), Pultenaea skinneri (P4) |

Previously known as *Leucopogon* sp. Collie E.M. Bennett BUC063
 Originally recorded at *Caladenia* sp. nov, then *Caladenia lodgeana*, then *Caladenia sp*. Collie (E. Bennett s.n. PERTH 08396051)
 Previously known as *Leucopogon* sp. Collie (E.M. Bennett BUC 063)

| Survey Name | Survey Timing | Vegetation types | Taxon Summary | Conservation Significant Flora Recorded |
|---|--------------------------------|---|---|--|
| Flora and Vegetation Survey of the Proposed Waste Dump Expansion Area, Ewington II (Mattiske Consulting 2006) | December 2005 | 5 vegetation types None aligned with TECs or PECs | 151 taxa from 38 families and 96 genera 6 weeds | None recorded |
| Vegetation and Flora of Proposed Rail Loop and Product Handling Facilities Muja South Project (Bennett Environmental Consulting 2006a) | 27 th November 2008 | 3 vegetation types None aligned with TECs or PECs | 192 taxa from 46 families and 117 genera 18 weeds | Acacia semitrullata (P4) |
| Flora and Vegetation of Boyup Basin, Wilga (Bennett Environmental Consulting 2006b) | 1st-8th September 2005 | 13 vegetation types None aligned with TECs or PECs | 191 taxa from 42 families and 107 genera 13 weeds | Melaleuca incana subsp. Gingilup (N. Gibson & M. Lyons 593) (P2) |

3.1.2 Threatened Flora listed under the EPBC Act

A search of the EPBC Act Protected Matters database (DCCEEW 2023) recorded four Threatened Flora taxa listed under the EPBC Act potentially occurring within a 10 km radius of the study area: *Caladenia leucochila, Caladenia lodgeana, Diuris micrantha* and *Jacksonia velveta*. An additional four Threatened Flora taxa were recorded when the search radius was increased to 25 km around the study area: *Commersonia erythrogyna, Drakaea confluens, Eleocharis keigheryi* and *Grevillea rara*.

3.1.3 Threatened Flora listed under the IUCN Red List

A search of the International Union for Conservation of Nature (IUCN) database (IUCN 2023) identified one Threatened Flora taxon listed from the region: *Caladenia leucochila* (Endangered).

3.1.4 Threatened Flora listed under the BC Act

Six Threatened Flora taxa were identified from the DBCA rare flora database search for a 25 km radius around the study area (DBCA 2023a): Caladenia leucochila, Commersonia erythrogyna, Drakaea confluens, Eleocharis keigheryi, Grevillea rara and Jacksonia velveta.

3.1.5 Priority Flora recognised by the DBCA

The DBCA rare flora database search (DBCA 2023a) identified 38 Priority flora taxa from a 25 km radius around the study area, including two Priority 1 flora, five Priority 2 flora, 19 Priority 3 flora and 12 Priority 4 flora (Table 7).

3.1.6 Likelihood of Occurrence

The combined database searches resulted in a list of 47 species of conservation significance occurring within a 25 km radius of the study area (Table 7). Ten taxa were considered 'likely' to occur within the study area (as per criteria set out in Table 7) based on occurrence of habitat and proximity of previous records (Table 7). Nine taxa were considered 'possible' to occur within the study area, and the remaining 28 taxa were determined as 'unlikely' to occur within the study area.

3.1.7 TECs listed under State and Federal Legislation

A search of the EPBC Act Protected Matters database (DCCEEW 2023) confirmed there were no Commonwealth listed TECs previously recorded within a 10 km radius of the study area, with one TEC that may occur within a 25 km radius of the study area: Empodisma peatlands of southwestern Australia (Endangered).

A search of the DBCA ecological community database (DBCA 2023b) confirmed there were no Western Australian listed TEC records occurring within a 10 km radius of the study.

3.1.8 PECs recognised by DBCA

A search of DBCA's ecological community database (DBCA 2023b) confirmed there were no PECs occurring within a 10 km radius of the study area, with one PEC occurring approximately 16 km south-east of the study area:

- Seasonal rainfall filled wetlands with impeding substrate of the Swan Coastal Plain and Jarrah Forest in transitional rainfall zones (previously 'Claypans of the Swan Coastal Plain'). This listing encompasses Claypan Group 1, 2 and 3 (as defined by Gibson et.al. 2005), with Claypan Group 3 occurring south-east of Collie:
 - Group 1: Claypans of the Swan Coastal Plain and plateau with a damp terrestrial phase of the pool cycle. Common overstorey taxa include Casuarina obesa, Melaleuca viminea and Melaleuca cuticularis. Taxa of this group often reflect a higher salinity of the claypan substrate;
 - Group 2: Seasonally inundated flats largely confined to the Swan Coastal Plain in high rainfall areas. Generally characterised by Hypocalymma angustifolium, Kunzea micrantha, Kunzea recurva and Viminaria juncea; and
 - o Group 3: Predominantly claypans of deeper basins of the Swan Coastal Plain and Jarrah Forest Bioregion (plateau). Generally dominated by *Melaleuca lateritia* and characterised by aquatic and amphibious taxa (e.g. *Hydrocotyle lemnoides*, *Glossostigma diandrum*, *Liparophyllum capitatum*, and *Eleocharis keigheryi*).

Table 7 Significant flora species recorded in or around the survey area from the federal and state database searches, literature, and local knowledge. SCC - State Conservation Code, FCC - Federal Conservation Code

| Taxon | scc | FCC | Habitat | Likelihood |
|--|-----|-----|--|------------|
| Acacia semitrullata | P4 | | White/grey sand, sometimes over laterite, clay. Sandplains, swamps. | Likely |
| Adenanthos cygnorum subsp. chamaephyton | P3 | | Grey sand, lateritic gravel. | Possible |
| Angianthus drummondii | P3 | | Grey or brown clay soils, seasonally wet flats. | Unlikely |
| Blennospora doliiformis | P3 | | Grey or red clay soils, seasonally wet flats. | Likely |
| Caladenia leucochila | Т | Е | Sand amongst laterite slightly upslope of seasonally damp areas, elevation between 330-345m. | Possible |
| Caladenia lodgeana | Т | CE | Seasonal swamps. | Unlikely |
| Caladenia validinervia | P1 | | Sandy gravelly soil in Jarrah/Marri Forest. | Unlikely |
| Calothamnus graniticus subsp. leptophyllus | P4 | | Clay over granite, lateritic soils on hillsides | Possible |
| Calytrix pulchella | P3 | | Grey or white sand over laterite on ridges, flats. | Likely |
| Commersonia erythrogyna | Т | Е | Lateritic ridge supporting open low jarrah and marri woodland. | Unlikely |
| Cyathochaeta teretifolia | P3 | | Grey sand, sandy clay. Swamps, creek edges | Likely |
| Daviesia mesophylla | P2 | | Peaty or white sand. Rocky slopes. | Likely |
| Dillwynia sp. Capel (P.A. Jurjevich 1771) | P3 | | Littered grey loamy sand, rocky soils. Valleys, rangelands. | Likely |
| Diuris micrantha | Т | V | Brown loamy clay. Winter-wet swamps, in shallow water. | Unlikely |
| Drakaea confluens | Т | Е | White-grey sand. | Possible |
| Drakaea micrantha | Т | V | White-grey sand | Unlikely |
| Drosera occidentalis | P4 | | Wetlands | Unlikely |
| Eleocharis keigheryi | Т | V | Sandy loam. Emergent in freshwater: creeks, claypans. | Unlikely |
| Eryngium sp. Ferox (G.J. Keighery 16034) | P3 | | Winter-wet flats. | Unlikely |
| Eucalyptus rudis subsp. cratyantha | P4 | | Loamy soils on flats and hillsides. | Possible |
| Grevillea prominens | P3 | | Gravelly loam along creek lines. | Likely |
| Grevillea rara | Т | Е | Lateritic loam on creek lines. | Unlikely |
| Grevillea ripicola | P4 | | Sandy clay, clay, or gravelly loam. Swampy flats, granite outcrops and along watercourses. | Possible |
| Hydrocotyle lemnoides | P4 | | Swamps | Unlikely |
| Hypolaena robusta | P4 | | White sand on sandplains. | Unlikely |

| Taxon | SCC | FCC | Habitat | Likelihood |
|---|-----|-----|---|------------|
| Isopogon sp. Canning Reservoir (M.D. Tindale 121 & B.R. Maslin) | P1 | | Brown, yellow or grey sand over laterite. Flats and low plains. | Likely |
| Jacksonia velveta | Т | Е | Brown gravelly loam, dry grey sand, ironstone. Slight hillslopes, ridges. | Unlikely |
| Juncus meianthus | P3 | | Black sand and sandy clay on creeks and in seepage areas. | Unlikely |
| Lasiopetalum cardiophyllum | P4 | | Lateritic gravelly soils and sandy clay soils on flats and hillslopes. | Unlikely |
| Leucopogon extremus | P2 | | Low-lying, seasonally wet sites on sandy loam or sandy clay substrates, probably with clay at depth. | Likely |
| Logania sylvicola | P2 | | Woodland to open forest vegetation on the mid-slope of laterite rises associated with brown clay to clayey sand | Possible |
| Lomandra whicherensis | P3 | | Gravelly lateritic soils, high in the landscape. | Unlikely |
| Meionectes tenuifolia | P3 | | Ephemeral wetlands at margins of deep depressions, standing water. | Unlikely |
| Ornduffia submersa | P4 | | Heavy clay soils in wetlands. | Unlikely |
| Pultenaea skinneri | P4 | | Sandy or clayey soils in winter-wet depressions. | Likely |
| Schoenus natans | P4 | | Winter-wet depressions. | Unlikely |
| Senecio leucoglossus | P4 | | Gravelly lateritic or granitic soils with granite outcrops and slopes. | Unlikely |
| Sphaerolobium benetectum | P2 | | White gravelly sandy clay, sandy loam, with granite and laterite. Occurs on ridges, swamps, and undulating rises. | Unlikely |
| Stylidium acuminatum subsp. acuminatum | P2 | | Hillslope in red-brown loam over laterite. | Unlikely |
| Stylidium lepidum | P3 | | Gravelly sand or loam, clay on winter-wet depressions. | Unlikely |
| Stylidium rhipidium | P3 | | Sandy soils on wet creek flats, swamps, and granite outcrops | Unlikely |
| Stylidium squamellosum | P3 | | Brown to red-brown clay loam on winter-wet habitats and depressions with open woodlands and shrublands. | Unlikely |
| Synaphea decumbens | P3 | | Sand over laterite. | Possible |
| Synaphea hians | P3 | | Sandy soils on rises. | Possible |
| Synaphea petiolaris subsp. simplex | P3 | | Sandy soils on flats and in winter-wet areas. | Unlikely |
| Tetratheca parvifolia | P3 | | Near riverbanks on heavy alluvial soil. | Unlikely |
| Thysanotus unicupensis | P3 | | Dry lateritic and grey sandy soils in moderately sunny places within Jarrah/Marri forests | Unlikely |

3.2 Flora Species

A total number of 189 plant taxa (including varieties and subspecies) from 44 families and 123 genera were recorded from the study area (Table 8, Appendix 5). Species representation was greatest among the Fabaceae, Orchidaceae, Asteraceae, Proteaceae, Cyperaceae, Dilleniaceae, Asparagaceae, Myrtaceae and Stylidiaceae families. The most speciose genera were *Hibbertia, Stylidium, Gompholobium, Drosera, Styphelia, Lomandra, Acacia* and *Banksia*.

Table 8 Statistics for total flora recorded from the study area.

| Overview | No. Taxa | | | |
|---------------------------------------|----------|--|--|--|
| Families | 44 | | | |
| Genera | 123 | | | |
| Taxa (species, subspecies, varieties) | 189 | | | |
| Native Taxa | 173 | | | |
| Introduced Taxa | 16 | | | |
| Threatened Flora | 0 | | | |
| Priority Flora | 0 | | | |
| Range Extensions | 1 | | | |
| Speciose Families | No. Taxa | | | |
| Fabaceae | 24 | | | |
| Orchidaceae | 14 | | | |
| Asteraceae | 13 | | | |
| Proteaceae | 13 | | | |
| Cypeaceae | 10 | | | |
| Dilleniaceae | 10 | | | |
| Asparagaceae | 9 | | | |
| Myrtaceae | 9 | | | |
| Stylidiaceae | 9 | | | |
| Apiaceae | 7 | | | |
| Ericaceae | 7 | | | |
| Speciose Genera | No. Taxa | | | |
| Hibbertia | 10 | | | |
| Stylidium | 8 | | | |
| Gompholobium | 7 | | | |
| Drosera | 6 | | | |
| Styphelia | 6 | | | |
| Lomandra | 5 | | | |
| Acacia | 4 | | | |
| Banksia | 4 | | | |
| Xanthosia | 4 | | | |

The species accumulation curve demonstrates a decline in the number of new species recorded approaching the total sample area of 2,000 m², with a 10% increase in the final quadrats assessed yielding <3% new taxa (Figure 6). A total of 172 species were recorded from the quadrats with an additional 17 species recorded from relevés and opportunistic observations outside the quadrats. All vegetation types occurring within the study area were considered to have been adequately sampled based on the heterogeneity and geographic distribution of these associations.

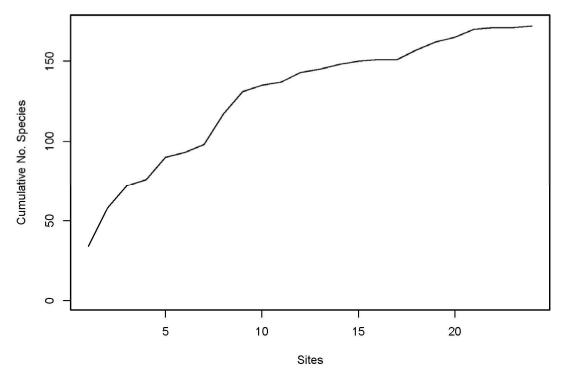


Figure 6 Species accumulation curve for the 24 quadrats formally assessed within the study area.

3.3 Significant Flora

3.3.1 Threatened Flora listed under the BC Act and EPBC Act

None of the plant taxa recorded from the study area were listed as Threatened Flora under the Commonwealth EPBC Act or the Western Australian BC Act.

3.3.2 Priority Flora

None of the plant taxa recorded from the study area were listed as Priority flora by the DBCA.

3.3.3 Range Extensions

None of the plant taxa recorded from the study area represented range extensions outside of their current known distribution.

3.4 Introduced Flora

There were 16 introduced species recorded from the study area (Appendix 6). None of the weed species were listed as Declared Pests under the BAM Act.

3.5 Vegetation

A total of nine vegetation types classified as six broad floristic formations and occurring on four broad landforms were described and mapped from the study area (Figure 7, Table 9). A species by site matrix and raw data for the 24 study sites is presented in Appendices 7 and 8 respectively.

The latest EPA technical guidelines (EPA 2016a) recommend a minimum of three quadrats to sample each vegetation type, noting that this is dependent on the size of the vegetation units mapped and the size of the survey area. Seven of the eight vegetation types were sampled by three quadrats replicated across multiple vegetation polygons. The eighth vegetation type occurred as a localised area of regrowth along the cleared powerline corridor which will also serve as the alignment for the proposed water pipeline. This was assessed by relevé sampling method noting that targeted searches were completed throughout.

Vegetation was characterised by Jarrah (Eucalyptus marginata) and Sheoak (Allocasuarina fraseriana) Forest on lateritic hill crests and slopes, with four vegetation types differentiated by subtle changes in understorey structure and composition related primarily to depth of sand overlying the base laterite geology and associated surface hydrology. The canopy became more open on lower slopes and footslopes with Candlestick Banksia (Banksia attenuata) characteristic in the deep grey sandy profile. At the lowest point in the landscape Moonah (Melaleuca preissiana) occurred as Open Scrub in grey clayey sand on swampy flats. Native vegetation had been cleared along the length of infrastructure corridors present within the study area including transmission lines, haul road and rail line (balloon loop). The tall shrub Kunzea glabrescens had regenerated to for thicket with otherwise low species diversity in the southern half of the study area, with a localised area of Melaleuca incana subsp. cf. tenella and Hakea prostrata scrub occurring along the northern transmission line (Figure 7).

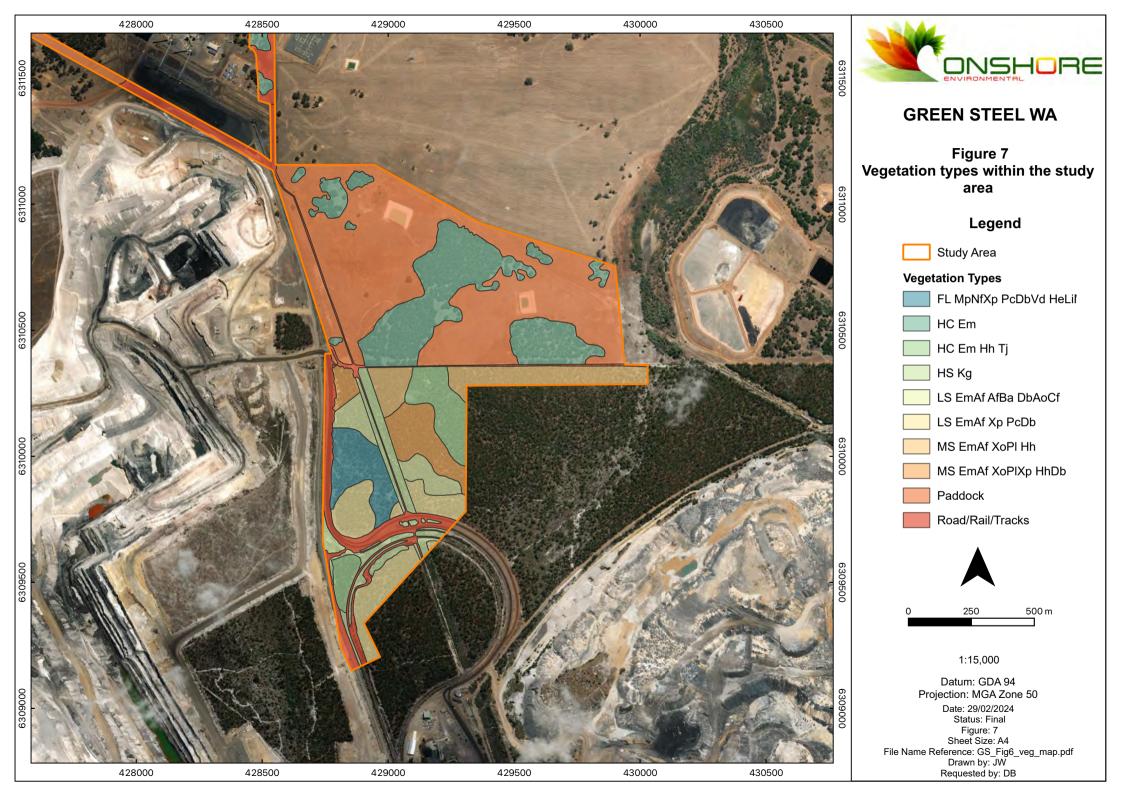
Vegetation mapping completed within the study area classified vegetation types based on the dominant species occurring within each vegetation type. The mapping included consideration of quadrat and relevé data with an emphasis on mapping boundaries and spatial changes in vegetation occurring across the study area. In contrast the dendrogram was based on presence/absence data from quadrats with no consideration of the relative dominance of species. Hence the groupings produced by the dendrogram may be inconsistent with the grouping of quadrats from the vegetation types.

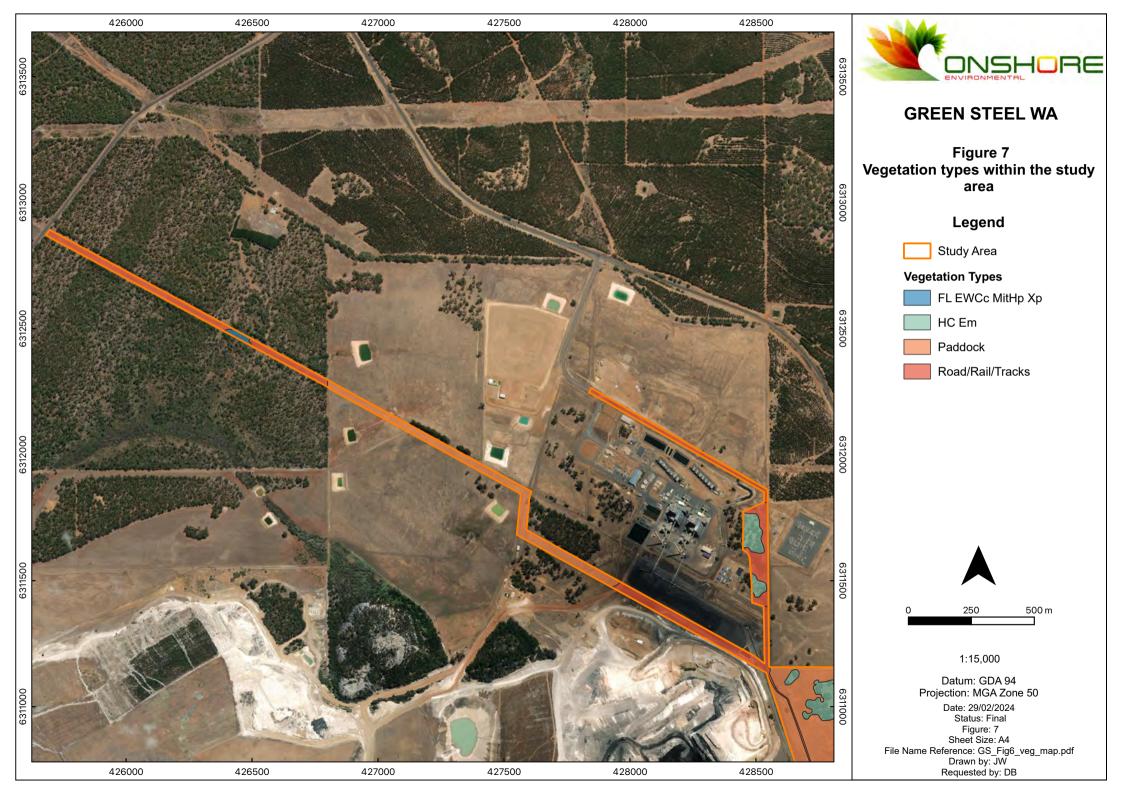
None of the nine vegetation types described and mapped within the study area were found to be aligned with any TECs or PECs documented from the Jarrah Forest bioregion.

Table 9 Vegetation types mapped within the study area.

| Code | Broad Floristic Formation | Vegetation Type | Condition | Quadrats | Area (ha) | % Study Area |
|----------------------------|-------------------------------|--|----------------------|------------|-----------|-----------------|
| | | Hill Crests | | | | |
| HC Em Hh Tj | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata (Allocasuarina fraseriana) over Low Heath D of Hibbertia hypericoides (Bossiaea ornata) over Open Low Sedges of Netrostylis sp. Jarrah Forest (R. Davis 7391) on brown sandy loam on hill crests and upper hill slopes | Very Good to Good | 5, 9, 14 | 6.64 | 4.46 |
| HC Em | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata (Allocasuarina fraseriana) over parkland cleared ground cover on brown sandy loam on hill crests | Degraded | 18, 19, 20 | 24.45 | 16.42 |
| | | Mid Hill Slopes | | | | |
| MS EmAf XoPIXp HhDb | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Scrub (to Scrub) of Xylomelum occidentale, Persoonia longifolia and Xanthorrhoea preissii over Low Heath C of Hibbertia hypericoides and Dasypogon bromeliifolius on grey sand on mid hill slopes | Very Good | 3, 6, 17 | 6.36 | 4.27 |
| MS EmAf XoPl Hh | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana (Corymbia calophylla) over Open Scrub of Xylomelum occidentale and Persoonia longifolia over Low Heath D of Hibbertia hypericoides on brown sandy loam on mid hill slopes | Very Good | 15, 16 | 8.53 | 5.73 |
| | | Lower Hill Slopes | | | | |
| LS EmAf AfBa DbAoCf | Allocasuarina Low Forest A | Open Woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Low Forest A of Allocasuarina fraseriana and Banksia attenuata over Dwarf Scrub D of Dasypogon bromeliifolius, Adenanthos obovatus and Calytrix flavescens on grey sand on lower hill slopes | Very Good to Good | 2, 4, 13 | 3.79 | 2.55 |
| LS EmAf Xp PcDb | Phlebocarya Low Heath D | Low Woodland A of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Low Scrub A of Xanthorrhoea preissii over Low Heath D of Phlebocarya ciliata and Dasypogon bromeliifolius on grey sand on lower hill slopes | Very Good to Good | 1, 7, 10 | 9.49 | 6.37 |
| | | Drainage Flats | | | | |
| FL MpNfXp PcDbVd HeLiMt | Phlebocarya Low Heath C | Open Scrub of Melaleuca preissiana, Nuytsia floribunda and Xanthorrhoea preissii over Low Heath C of Phlebocarya ciliata, Dasypogon bromellifolius and Verticordia densiflora subsp. densiflora over Open Tall Sedges of Hypolaena exsulca, Lyginia imberbis and Mesomelaena tetragona on grey clayey sand on swampy flats | Good to Degraded | 8, 11, 12 | 5.73 | 3.85 |

| Code | Broad Floristic Formation | Vegetation Type | Condition | Quadrats | Area (ha) | % Study Area |
|------------------|------------------------------|---|------------------------|----------------|-----------|-----------------|
| | | Disturbed / Cleared | | | | |
| HS Kg | Kunzea Thicket | Thicket of Kunzea glabrescens on grey sand along cleared infrastructure corridors | Completely Degraded | 22, 23, 24 | 6.56 | 4.40 |
| FL EWCc MitHp Xp | Melaleuca Scrub | Open Low Woodland A of Eucalyptus wandoo and Corymbia calophylla over Scrub of Melaleuca incana subsp. cf. tenella and Hakea prostrata over Low Scrub A of Melaleuca incana subsp. cf. tenella (Astartea scoparia) over Open Low Scrub B of Xanthorrhoea preissii over Dwarf Scrub D of Hypocalymma angustifolium and Acacia stenoptera over Open Low Sedges of Cyathochaeta avenacea and Desmocladus asper on grey silty clay loam on drainage area/ floodplains | Good | Releve 6950 | 0.25 | 0.17 |
| | | Rail, Road and Tracks | | | 18.65 | 12.53 |
| | | Paddock (cleared annual pasture) | | | 58.43 | 39.24 |

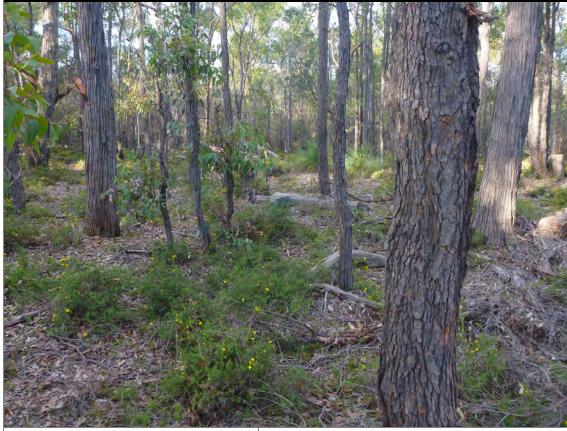




Code Broad Floristic Formation Vegetation Type

HC Em Hh Tj Eucalyptus Forest

Forest of Eucalyptus marginata subsp. marginata (Allocasuarina fraseriana) over Low Heath D of Hibbertia hypericoides (Bossiaea ornata) over Open Low Sedges of Netrostylis sp. Jarrah Forest (R. Davis 7391) on brown sandy loam on hill crests and upper hill slopes



| Quadrats Sampled | NE05, NE09, NE14 |
|--------------------------------|---|
| Area | 6.64 ha or 4.46% of the study area |
| Soils and Geology | Grey sandy (to loamy sand) over laterite |
| Landform | Laterised hill crests and upper hill slopes with moderate outcropping |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Good (to Very Good) |
| Disturbances | Historical logging of hardwood, access tracks, weeds |
| Average Fire Age | Old (>6 years) |

Code HC Em

Broad Floristic Formation Eucalyptus Forest

Vegetation Type Forest of Eucalyptus marginata subsp. marginata (Allocasuarina fraseriana) over parkland cleared ground cover on brown sandy loam on hill crests



| Quadrats Sampled | NE18, NE19, NE20 |
|--------------------------------|--|
| Area | 24.45 ha or 16.42% of the study area |
| Soils and Geology | Grey (brown) loamy sandy (to sand) over laterite |
| Landform | Laterised hill crests and upper hill slopes with major outcropping |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Degraded (parkland cleared remnants amongst cleared annual pasture being actively grazed by cattle) |
| Disturbances | Historical selective logging of larger trees, actively grazed by cattle resulting in complete removal of all understorey strata, weeds |
| Average Fire Age | Old (>6 years) |

Code MS EmAf XoPIXp HhDb
Broad Floristic Formation Eucalyptus Forest

Vegetation Type Forest of Eucalyptus man

Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Scrub (to Scrub) of Xylomelum occidentale, Persoonia longifolia and Xanthorrhoea preissii over Low Heath C of Hibbertia hypericoides and Dasypogon bromeliifolius on grey sand on mid hill slopes



| Quadrats Sampled | NE03, NE06, NE17 |
|--------------------------------|---|
| Area | 6.36 ha or 4.27% of the study area |
| Soils and Geology | Grey sand |
| Landform | Lateritic hill slope (negligible to limited outcropping) |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Very Good |
| Disturbances | Historical logging, access tracks, weeds, historical mining exploration |
| Average Fire Age | Old (>6 years) |

CodeMS EmAf XoPI HhBroad Floristic FormationEucalyptus Forest

Vegetation Type

Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana (Corymbia calophylla) over Open Scrub of Xylomelum occidentale and Persoonia longifolia over Low Heath D of Hibbertia hypericoides on brown sandy loam on mid hill slopes



| Quadrats Sampled | NE15, NE16, NE21 |
|--------------------------------|---|
| Area | 8.53 ha or 5.73% of the study area |
| Soils and Geology | Grey loamy sand |
| Landform | Laterised hill crests and upper hill slopes with moderate outcropping |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Very Good |
| Disturbances | Historical logging, access tracks, weeds, historical mining exploration |
| Average Fire Age | Old(>6 years) |

CodeLS EmAf AfBa DbAoCfBroad Floristic FormationAllocasuarina Low Forest AVegetation TypeOpen Woodland of Eucalypt

Open Woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Low Forest A of Allocasuarina fraseriana and Banksia attenuata over Dwarf Scrub D of Dasypogon bromeliifolius, Adenanthos obovatus and Calytrix flavescens on grey sand on lower hill slopes



| Quadrats Sampled | NE02, NE04, NE13 |
|--------------------------------|---|
| Area | 3.79 ha or 2.55% of the study area |
| Soils and Geology | Grey sand (to loamy sand) |
| Landform | Lower hill slope (laterite at depth, no outcropping evident) |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Good (to Very Good) |
| Disturbances | Historical logging, access tracks, weeds, historical mining exploration, dust (from adjacent mining activities), pigs |
| Average Fire Age | Old (>6 years) |

Code LS EmAf Xp PcDb Broad Floristic Formation Phlebocarya Low Heath D

Vegetation Type

Low Woodland A of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Low Scrub A of Xanthorrhoea preissii over Low Heath D of Phlebocarya ciliata and Dasypogon bromeliifolius on grey sand on lower hill slopes



| Quadrats Sampled | NE01, NE07, NE10 |
|--------------------------------|---|
| Area | 9.49 ha or 6.37% of the study area |
| Soils and Geology | Grey sand |
| Landform | Footslope grading into sand plain |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Good (to Very Good) |
| Disturbances | Historical logging, access tracks, weeds, historical mining exploration, dust (from adjacent mining activities), pigs |
| Average Fire Age | Old (>6 years) |

Code Broad Floristic Formation Vegetation Type

FL MpNfXp PcDbVd HeLiMt Phlebocarya Low Heath C

Open Scrub of Melaleuca preissiana, Nuytsia floribunda and Xanthorrhoea preissii over Low Heath C of Phlebocarya ciliata, Dasypogon bromellifolius and Verticordia densiflora subsp. densiflora over Open Tall Sedges of Hypolaena exsulca, Lyginia imberbis and Mesomelaena tetragona on grey clayey sand on swampy flats



| Quadrats Sampled | NE08, NE11, NE12 | |
|--------------------------------|---|--|
| Area | 5.73 ha or 3.85% of the study area | |
| Soils and Geology | Variable: grey loamy sand, sandy loam, light clay | |
| Landform | Footslopes grading into floodplains and swampy drainage flats | |
| Priority Ecological Community | No | |
| Conservation Significant Flora | None | |
| Vegetation Condition | Good to Degraded | |
| Disturbances | Historical logging, access tracks, weeds, historical mining exploration, dust and siltation (from adjacent mining activities), pigs | |
| Average Fire Age | Old (>6 years) | |

Code
Broad Floristic Formation
Vegetation Type

FL EWCc MitHp Xp

Melaleuca Scrub

Open Low Woodland A of Eucalyptus wandoo and Corymbia calophylla over Scrub of Melaleuca incana subsp. cf. tenella and Hakea prostrata over Low Scrub A of Melaleuca incana subsp. cf. tenella (Astartea scoparia) over Open Low Scrub B of Xanthorrhoea preissii over Dwarf Scrub D of Hypocalymma angustifolium and Acacia stenoptera over Open Low Sedges of Cyathochaeta avenacea and Desmocladus asper on grey silty clay loam on drainage area/ floodplains



| Quadrats Sampled | Releve 6950 |
|--------------------------------|--|
| Area | 0.25 ha or 0.17% of the study area |
| Soils and Geology | Grey silty clay loam |
| Landform | Localised drainage zone at low point on lateritic slopes on cleared powerline corridor |
| Priority Ecological Community | No |
| Conservation Significant Flora | None |
| Vegetation Condition | Good |
| Disturbances | Previously cleared during construction of the powerline. The area of localised natural regeneration has been promoted by elevated soil moisture. |
| Average Fire Age | Old (>6 years) |

Code HS Kg **Broad Floristic Formation** Kunzea Thicket Vegetation Type Thicket of Kunzea glabrescens on grey sand along cleared infrastructure corridors Quadrats Sampled NE22, NE23, NE24 6.56 ha or 4.40% of the study area Area Soils and Geology Grey sand (to loamy sand) Landform Cleared hill slope (over laterite at variable depth) Priority Ecological Community No Conservation Significant Flora None **Vegetation Condition** Completely Degraded Disturbances Native vegetation blade cleared for construction of infrastructure along corridors, including transmission lines, haul road and rail line (balloon loop) Average Fire Age Old (>6 years)

3.6 Vegetation Condition

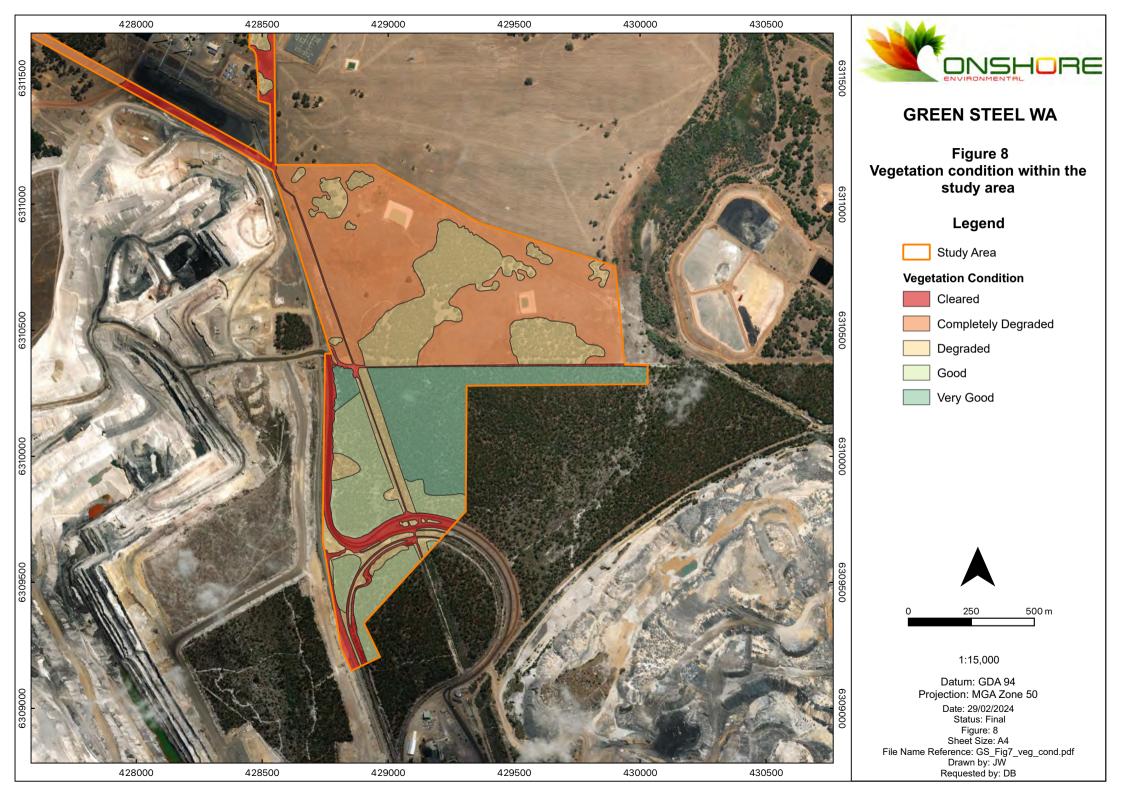
Freehold land forming the northern half of the study area and including the water pipeline corridor, site access (road) corridor, and the recycling mill has been historically cleared predominantly for annual pasture, with retained remnant stands of native vegetation parkland cleared. Vegetation condition for this block was rated as degraded, completely degraded or cleared (Figure 7, Table 10).

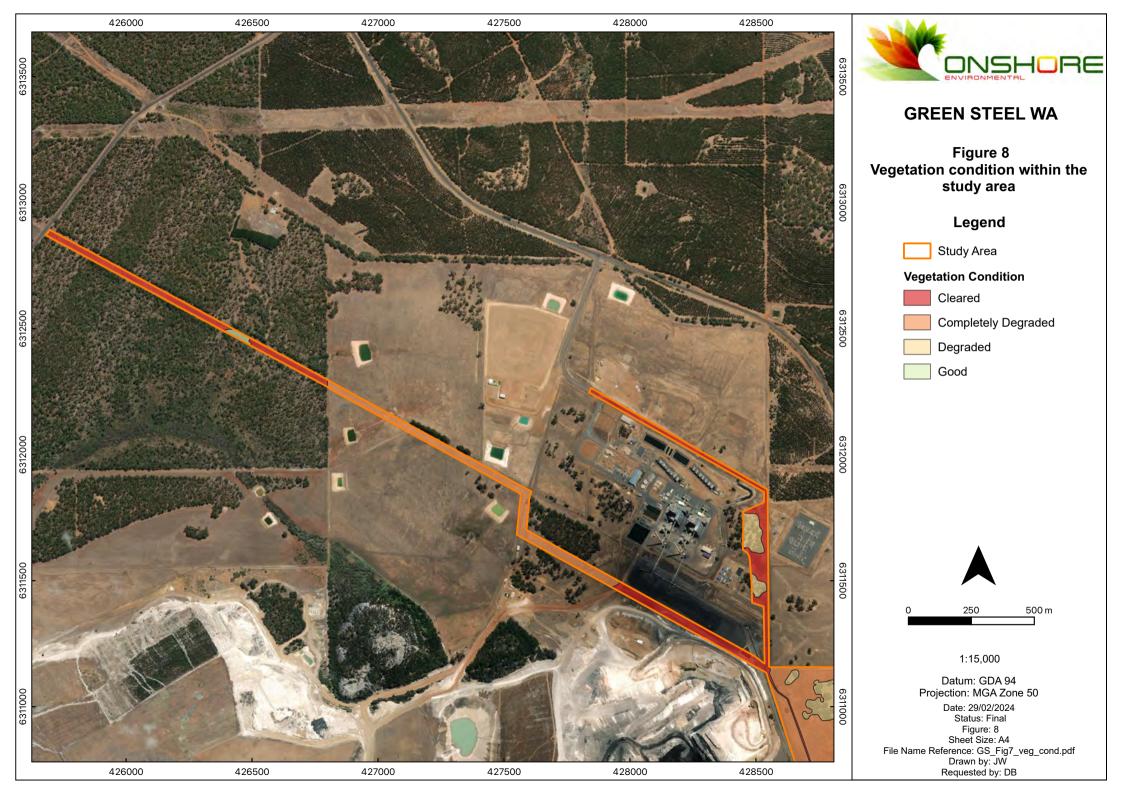
Native vegetation condition within the southern sector of the study area where the rail line extension will be constructed was generally rated as very good (22 ha) or good (18 ha) (Figure 7). Previous clearing had occurred for the rail line (balloon loop) and adjacent haul road, an access track along the transmission, and ingress from existing coal mining operations along the western boundary of the study area. Native vegetation regrowth along the cleared transmission line corridor and areas fringing the rail line (balloon loop) were rated as degraded or completely degraded (Figure 7).

Disturbances recorded during the field survey included historical logging of hardwood timber, clearing for access tracks, the existing rail line, and mine exploration activities, siltation and dusting from adjacent coal mining operations, ground disturbance from feral pigs, and minor weed ingress.

Table 10 Vegetation condition within the study area.

| Condition | Area (ha) | % of Total | |
|---------------------|-----------|------------|--|
| Pristine | 0 | 0 | |
| Excellent | 0 | 0 | |
| Very Good | 21.98 | 14.76 | |
| Good | 17.76 | 11.93 | |
| Degraded | 32.05 | 21.53 | |
| Completely Degraded | 58.42 | 39.24 | |
| Cleared | 18.65 | 12.53 | |
| Total | 148.87 | 100.00 | |





3.7 Representation and Reservation of Vegetation

To assess the representation of vegetation within the study area, regional mapping completed by Beard (1981) was utilised. A single Beard vegetation association (Bridgetown 3) was represented within the study area (Figure 3, Table 11). When considering representation at the state-wide level, this association currently has 67.86% of the pre-European extent remaining (Government of Western Australia 2018). The study area is located within the Jarrah Forest bioregion, specifically within the Southern Jarrah Forest subregion. When considering the representation of vegetation at the IBRA regional level and IBRA system level, greater than 59% of the pre-European extent remains for the vegetation association represented (Table 11). The study area falls entirely within the Shire of Collie. At this local government authority level 82% of the pre-European extent remain for the vegetation association represented (Table 11).

The representation of vegetation complexes within the reserve system has also been published as part of the Regional Forest Agreement (RFA) process for Southwest Forests and updated as part of the latest Forest Management Plan. At the complex level, the study area intersects four vegetation complexes: Collie (CI), Cardiff (CF), Dwellingup (D1) and Yarragil 2 (Yg2) (GoWA 2018, Table 11). The four vegetation complexes currently have 66%, 53%, 86% and 92% of the calculated pre-European extent remaining within the Southwest Forest Region respectively (GoWA 2018) (Table 11). In terms of representation, the Western Australian Government is committed to the National Objectives Targets for Biodiversity Conservation which includes a target that prevents clearance of ecological communities with an extent below 30% of that present pre-European settlement (Department of Natural Resources and Environment 2002, EPA 2000). Vegetation within the study area is therefore determined to be well represented at all levels (statewide, bioregional [IBRA region and IBRA sub-region] and local government authority), with more than 59% of the pre-European extent remaining for the Beard vegetation association represented within the study area, and more than 53% of the pre-European extent remaining for the four RFA vegetation associations represented within the study area.

In terms of reservation, there is a benchmark for a minimum of 15% of each Beard association to be protected in Class I-IV reserves (Commonwealth of Australia 1997). At a state-wide level there is 26.9% of the current extent of Vegetation association 3 protected within Class I-IV reserves (Table 11). Hence vegetation within the study area is determined to be well reserved.

Table 11 Pre-European extent of vegetation represented based on identified datasets.

| Vegetation System / Association | Pre-European Extent (ha) | Current Extent Remaining (ha) | % Extent of Pre-European | % Current Extent (IUCN I - IV) |
|------------------------------------|-----------------------------|----------------------------------|-----------------------------|--------------------------------------|
| Statewide (Vegetation Association) | | | | |
| 3 - Medium forest; jarrah-marri | 2,661,404.62 | 1,806,035.91 | 67.86 | 26.87 |
| IBRA Region (Jarrah Forest JAF) | | | | |
| Beard Vegetation Association 3 | 2,390,591.54 | 1,606,736.77 | 67.21 | 23.97 |
| IBRA Sub-region (JAF02) | | | | |
| Beard Vegetation Association 3 | 1,482,491.85 | 880,655.65 | 59.40 | 31.13 |
| Local Government (Shire of Collie) | | | | |
| Beard Vegetation Association 3 | 158,906.01 | 130,832.13 | 82.33 | 20.83 |
| Mattiske & Havel Complexes | | | | |
| Collie Cl | 11,004.73 | 7,354.88 | 66.83 | 6.28 |
| Cardiff CF | 6,236.58 | 3,360.93 | 53.89 | |
| Dwellingup D1 | 208,490.90 | 181,038.81 | 86.83 | 8.35 |
| Yarragil 2 Yg2 | 50,259.16 | 46,475.31 | 92.47 | 10.58 |

3.8 Conservation Significance of Vegetation

3.8.1 National Significance

None of the nine vegetation types recorded from the study area were aligned with any Commonwealth listed TECs. As well, none of the flora taxa recorded from the study area were listed under the Commonwealth EPBC Act.

Hence, flora and vegetation within the study area was determined to be not of national significance.

3.8.2 State Significance

None of the nine vegetation types recorded from the study area were aligned with any Western Australian listed TECs or PECs.

None of the flora recorded from the study area were listed as Threatened Flora under the Western Australian BC Act, and there were no Priority flora taxa as listed by the DBCA recorded from the study area.

Hence, flora and vegetation within the study area was determined to be not of state significance.

3.8.3 Local Significance

None of the plant taxa recorded from the study area were considered to represent potentially new taxa or range extensions outside of their current known distribution. Hence, none of the flora were determined to be of local conservation significance.

4.0 SUMMARY

Onshore Environmental completed a single season detailed flora and vegetation survey of the Collie Green Steel Recycling Mill over six field days between the 1st and 14th of September 2023, 8th of November 2023 and 22nd of February 2024. The total flora included 178 plant taxa from 42 families and 119 genera. Species representation was greatest among the Fabaceae, Orchidaceae, Asteraceae, Proteaceae, Asparagaceae, Cyperaceae, Dilleniaceae, Myrtaceae and Stylidiaceae families. The most speciose genera were *Hibbertia, Lomandra, Drosera, Gompholobium, Stylidium, Acacia, Styphelia, Banksia, Caladenia, Centrolepis, Conostylis* and *Lepidosperma*.

None of the plant taxa recorded from the study area was listed as Threatened Flora under the Commonwealth EPBC Act or the Western Australian BC Act, and there were no DBCA listed Priority flora taxa recorded.

A total of 15 introduced species were recorded from the study area. None of the weed taxa were listed as a Declared Pest under the BAM Act.

A total of nine vegetation types occurring on five broad landforms were described and mapped from the study area. The broad landforms included lateritic hill crests, upper mid and lower hill slopes, and seasonally wet (swampy) flats. None of the vegetation types were aligned with Commonwealth or Western Australian listed TECs or DBCA listed PECs, and all were well represented regionally.

Freehold land forming the northern half of the study area and including the water pipeline corridor, site access (road) corridor, and the recycling mill has been historically cleared predominantly for annual pasture, with retained remnant stands of native vegetation parkland cleared. Vegetation condition for this block was rated as degraded or completely degraded. Native vegetation condition within the southern sector of the study area where the rail line extension will be constructed was generally rated as very good or good. Disturbances recorded during the field survey included historical logging of hardwood timber, clearing for access tracks and infrastructure corridors including transmission lines, rail line and haul road, mine exploration activities, siltation and dusting from adjacent coal mining operations, ground disturbance from feral pigs, and minor weed ingress.

5.0 STUDY TEAM

The detailed flora and vegetation survey was planned, co-ordinated and executed by the following personnel:

Onshore Environmental Consultants P/L ABN 41 095 837 120 PO Box 227 YALLINGUP WA 6282 pf 08 9756 6206 m0427 339 842 Email info@onshoreenvironmental.com.au

Project Staff

Dr Darren Brearley PhD Project Manager and Principal Botanist

Dr Jerome Bull PhD Principal Botanist
Ms Jessica Waters BSc Senior Ecologist
Mrs Kerry Keenan Data Analyst

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Conservation categories

| Category | Description |
|---------------------------|--|
| Extinct | A species is extinct if there is no reasonable doubt that the last member of the species has died. |
| Extinct in the Wild | A species is categorised as extinct in the wild if it is only known to survive in cultivations, in captivity, or as a naturalised population well outside its past range; or if it has not been recorded in its known/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 | The species is facing an extremely high risk of extinction in the wild and in the immediate future. |
| Endangered | The species is likely to become extinct unless the circumstances and factors threatening its abundance, survival, or evolutionary development cease to operate; or its numbers have been reduced to such a critical level, or its habitats have been so drastically reduced, that it is in immediate danger of extinction. |
| Vulnerable | Within the next 25 years, the species is likely to become endangered unless the circumstances and factors threatening its abundance, survival, or evolutionary development cease to operate. |
| Conservation Dependent | The species is the focus of a specific conservation program, the cessation of which would result in the species becoming vulnerable, endangered, or critically endangered within a period of five years. |

Specially protected fauna or flora are species* which have been adequately searched for and are deemed to be, in the wild, either rare, at risk of extinction, or otherwise in need of special protection, and have been gazetted as such. Categories of specially protected fauna and flora are:

T Threatened Species

Published as Specially Protected under the *Wildlife Conservation Act 1950*, and listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

Threatened flora is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

IA Migratory birds protected under an international agreement

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 the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950,* in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice.

OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

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 flora or fauna.

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.

1: Priority One - Poorly Known Taxa

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 localities 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.

2: Priority Two - Poorly Known Taxa

Species that are known from one or a few collections (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 localities 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.

3: Priority Three - Poorly Known Taxa

Species that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities 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 localities 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.

4: Priority Four - Rare, Near Threatened and other taxa 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 taxa are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

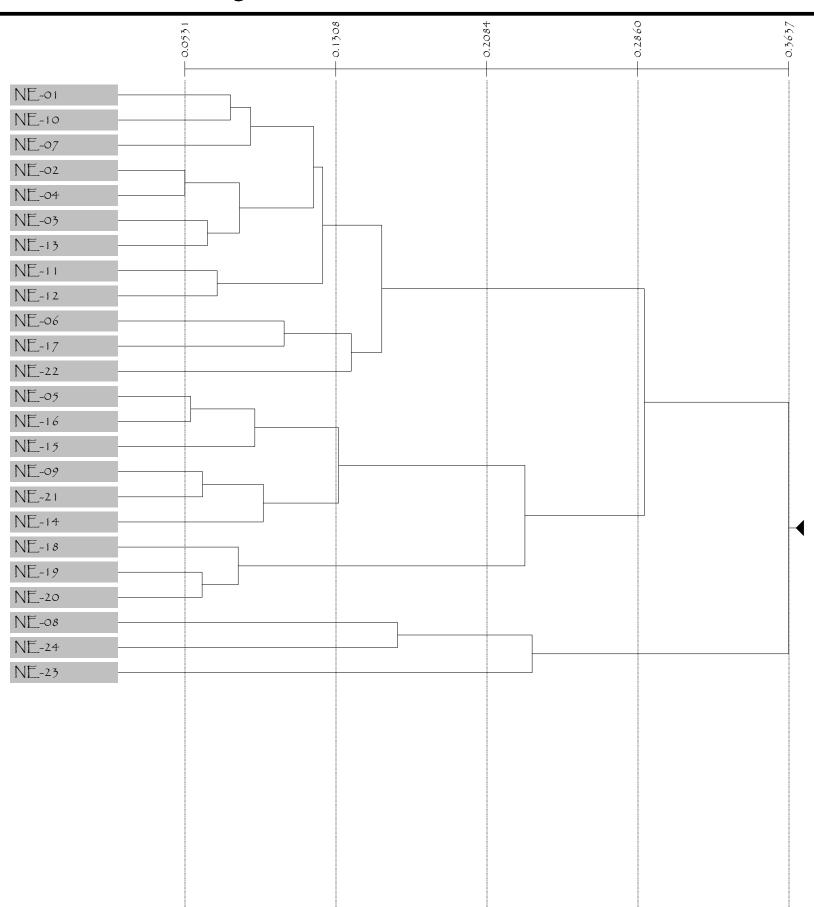
Vegetation condition scale (as developed by Keighery 1994)

| Condition | Code | Description | |
|------------------------|------|--|--|
| Pristine | 1 | Pristine or nearly so, no obvious signs of disturbance. | |
| Excellent | 2 | Vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species. | |
| Very Good | 3 | Vegetation structure altered; obvious signs of disturbance. | |
| Good | 4 | Vegetation structure significantly altered by very obvious signs of multiple disturbances. Retains basic vegetation structure or ability to regenerate it. | |
| Degraded | 5 | Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching Very Good condition without intensive management. | |
| Completely Degraded | 6 | The structure of the vegetation is no longer intact and the area is completely or almost completely without native species. | |

APPENDIX 3 Column Fusion Dendrogram

On Association: Two-Step (Columns) Created on: 10:46:54, November 17, 2023

Column Fusion Dendrogram



Vegetation classification following Muir (1997)

| LIFE FORM / HEIGHT Canopy Cover | | | | |
|---------------------------------|---------------------|-------------------------|-------------------|------------------------|
| CLASS | DENSE | ISE MID DENSE | | VERY SPARSE |
| | 70 % - 100% | 30% - 70% | 10% - 30% | 2% - 10% |
| Trees > 30 m | Dense Tall Forest | Tall Forest | Tall Woodland | Open Tall Woodland |
| Trees 15 – 30 m | Dense Forest | Forest | Woodland | Open Woodland |
| Trees 5 – 15 m | Dense Low Forest A | Low Forest A | Low Woodland A | Open Low Woodland A |
| Trees < 5 m | Dense Low Forest B | Low Forest B | Low Woodland B | Open Low Woodland B |
| Mallee tree form | Dense Tree Mallee | Tree Mallee | Open Tree Mallee | Very Open Tree Mallee |
| Mallee shrub form | Dense Shrub Mallee | Shrub Mallee | Open Shrub Mallee | Very Open Shrub Mallee |
| Shrubs > 2 m | Dense Thicket | Thicket | Scrub | Open Scrub |
| Shrubs 1.5 – 2 m | Dense Heath A | Heath A | Low Scrub A | Open Low Scrub A |
| Shrubs 1 - 1.5 m | Dense Heath B | Heath B | Low Scrub B | Open Low Scrub B |
| Shrubs 0.5 – 1 m | Dense Low Heath C | Low Heath C | Dwarf Scrub C | Open Dwarf Scrub C |
| Shrubs 0 - 0.5 m | Dense Low Heath D | Low Heath D | Dwarf Scrub D | Open Dwarf Scrub D |
| Mat plants | Dense Mat Plants | Mat Plants | Open Mat Plants | Very Open Mat Plants |
| Hummock grass | Dense Hummock Grass | Mid-Dense Hummock Grass | Hummock Grass | Open Hummock Grass |
| Bunch grass > 0.5 m | Dense Tall Grass | Tall Grass | Open Tall Grass | Very Open Tall Grass |
| Bunch grass < 0.5 m | Dense Low Grass | Low Grass | Open Low Grass | Very Open Low Grass |
| Herbaceous spp. | Dense Herbs | Herbs | Open Herbs | Very Open Herbs |
| Sedges > 0.5 m | Dense Tall Sedges | Tall Sedges | Open Tall Sedges | Very Open Tall Sedges |
| Sedges < 0.5 m | Dense Low Sedges | Low Sedges | Open Low Sedges | Very Open Low Sedges |
| Ferns | Dense Ferns | Ferns | Open Ferns | Very Open Ferns |
| Mosses, liverworts | Dense Mosses | Mosses | Open Mosses | Very Open Mosses |

Total flora list from the study area

* denotes introduced species

| Family | Genus | Species | Rank | Infra Name |
|------------------|----------------|----------------|------|--------------------------------|
| Anarthriaceae | Lyginia | imberbis | | |
| Apiaceae | Actinotus | glomeratus | | |
| Apiaceae | Daucus | glochidiatus | | |
| Apiaceae | Homalosciadium | homalocarpum | | |
| Apiaceae | Xanthosia | atkinsoniana | | |
| • | Xanthosia | candida | | |
| Apiaceae | Xanthosia | _ | | |
| Apiaceae | Xanthosia | huegelii | | |
| Araliagoa | | singuliflora | | |
| Araliaceae | Hydrocotyle | callicarpa | | |
| Araliaceae | Trachymene | pilosa | | in det |
| Asparagaceae | Laxmannia | • | sp. | indet |
| Asparagaceae | Lomandra | caespitosa | | |
| Asparagaceae | Lomandra | hermaphrodita | | |
| Asparagaceae | Lomandra | nigricans | | |
| Asparagaceae | Lomandra | sericea | | |
| Asparagaceae | Lomandra | | cf. | preissii |
| Asparagaceae | Sowerbaea | laxiflora | | |
| Asparagaceae | Thysanotus | arbuscula | | |
| Asparagaceae | Thysanotus | patersonii | | |
| Asteraceae | *Arctotheca | calendula | | |
| Asteraceae | *Hypochaeris | glabra | | |
| Asteraceae | *Ursinia | anthemoides | | |
| Asteraceae | Craspedia | variabilis | | |
| Asteraceae | Hyalosperma | demissum | | |
| Asteraceae | Lagenophora | huegelii | | |
| Asteraceae | Millotia | tenuifolia | | |
| Asteraceae | Podolepis | gracilis | | |
| Asteraceae | Podotheca | angustifolia | | |
| Asteraceae | Pterochaeta | paniculata | | |
| Asteraceae | Quinetia | urvillei | | |
| Asteraceae | Rhodanthe | citrina | | |
| Asteraceae | Senecio | quadridentatus | | |
| Campanulaceae | Wahlenbergia | gracilenta | | |
| Casuarinaceae | Allocasuarina | fraseriana | | |
| Centrolepidaceae | Aphelia | cyperoides | | |
| Centrolepidaceae | Centrolepis | aristata | | |
| Centrolepidaceae | Centrolepis | glabra | | |
| Centrolepidaceae | Centrolepis | pilosa | | |
| Colchicaceae | Burchardia | congesta | | |
| Crassulaceae | Crassula | colorata | var. | colorata |
| Crassulaceae | Crassula | decumbens | | |
| Cyperaceae | *Ficinia | marginata | | |
| Cyperaceae | Chaetospora | curvifolius | | |
| Cyperaceae | Isolepis | cernua | var. | setiformis |
| Cyperaceae | Lepidosperma | leptostachyum | | |
| Cyperaceae | Lepidosperma | pubisquameum | | |
| Cyperaceae | Lepidosperma | squamatum | | |
| Cyperaceae | Mesomelaena | tetragona | | |
| Cyperaceae | Morelotia | octandra | | |
| Cyperaceae | Netrostylis | Josephara | en | Jarrah Forest (R. Davis 7391) |
| Оурегасеае | Neurostylis | 1 | sp. | Janan i Olest (IV. Davis 1381) |

| Family | Genus | Species | Rank | Infra Name |
|----------------|------------------|--------------------------|--------|------------|
| Cyperaceae | Schoenus | subbarbatus | | |
| Dasypogonaceae | Dasypogon | bromeliifolius | | |
| Dilleniaceae | Hibbertia | amplexicaulis | | |
| Dilleniaceae | Hibbertia | commutata | | |
| Dilleniaceae | Hibbertia | depilipes | | |
| Dilleniaceae | Hibbertia | diamesogenos | | |
| Dilleniaceae | Hibbertia | ferruginea | | |
| Dilleniaceae | Hibbertia | hypericoides | | |
| Dilleniaceae | Hibbertia | racemosa | | |
| Dilleniaceae | Hibbertia | semipilosa | | |
| Dilleniaceae | Hibbertia | · · | | |
| Dilleniaceae | Hibbertia | vaginata | cf. | avanancia |
| _ | _ | on throrbias | CI. | avonensis |
| Droseraceae | Drosera Drosera | erythrorhiza | | |
| Droseraceae | | glanduligera huegelii | | |
| Droseraceae | Drosera | _ | | |
| Droseraceae | Drosera | marchantii | | |
| Droseraceae | Drosera | pallida | | |
| Droseraceae | Drosera | stolonifera | | |
| Elaeocarpaceae | Tetratheca | hirsuta | subsp. | viminea |
| Ericaceae | Leucopogon | capitellatus | | |
| Ericaceae | Styphelia | discolor | | |
| Ericaceae | Styphelia | erectifolia | | |
| Ericaceae | Styphelia | erubescens | | |
| Ericaceae | Styphelia | pallida | | |
| Ericaceae | Styphelia | propinqua | | |
| Ericaceae | Styphelia | tenuiflora | | |
| Euphorbiaceae | Stachystemon | vermicularis | | |
| Fabaceae | *Lotus | subbiflorus | | |
| Fabaceae | *Trifolium | subterraneum | | |
| Fabaceae | Acacia | applanata | | |
| Fabaceae | Acacia | extensa | | |
| Fabaceae | Acacia | preissiana | | |
| Fabaceae | Acacia | pulchella | | |
| Fabaceae | Bossiaea | eriocarpa | | |
| Fabaceae | Bossiaea | ornata | | |
| Fabaceae | Daviesia | decurrens | subsp. | decurrens |
| Fabaceae | Daviesia | preissii | | |
| Fabaceae | Gastrolobium | bilobum | | |
| Fabaceae | Gompholobium | confertum | | |
| Fabaceae | Gompholobium | knightianum | | |
| Fabaceae | Gompholobium | marginatum | | |
| Fabaceae | Gompholobium | ovatum | | |
| Fabaceae | Gompholobium | preissii | | |
| Fabaceae | Gompholobium | tomentosum | | |
| Fabaceae | Gompholobium | | sp. | indet |
| Fabaceae | Hovea | chorizemifolia | | |
| Fabaceae | Hovea | trisperma | | |
| Fabaceae | Jacksonia | furcellata | | |
| Fabaceae | Kennedia | coccinea | | |
| Fabaceae | Kennedia | prostrata | | |

| Family | Genus | Species | Rank | Infra Name |
|-------------------|--------------------------|---------------|---------------|---------------|
| | Labichea | | rank | Initia Haine |
| Fabaceae | | punctata | | |
| Goodeniaceae | Dampiera | linearis | | |
| Goodeniaceae | Goodenia Lechenaultia | eatoniana | | |
| Goodeniaceae | | biloba | | |
| Goodeniaceae | Scaevola | calliptera | | |
| Haemodoraceae | Conostylis | aculeata | subsp. | aculeata |
| Haemodoraceae | Conostylis | serrulata | | |
| Haemodoraceae | Conostylis | setigera | | |
| Haemodoraceae | Haemodorum | laxum | | |
| Haemodoraceae | Phlebocarya | ciliata | | |
| Haloragaceae | Glischrocaryon | angustifolium | | |
| Hemerocallidaceae | Tricoryne | elatior | | |
| Iridaceae | *Romulea | rosea | | |
| Iridaceae | Patersonia | babianoides | | |
| Iridaceae | Patersonia | occidentalis | var. | occidentalis |
| Juncaceae | Luzula | meriodionalis | | |
| Lamiaceae | Hemiandra | pungens | | |
| Lindsaeaceae | Lindsaea | linearis | | |
| Loganiaceae | Orianthera | serpyllifolia | subsp. | serpyllifolia |
| Loganiaceae | Phyllangium | divergens | | |
| Loranthaceae | Nuytsia | floribunda | | |
| Myrtaceae | Babingtonia | camphorosmae | | |
| Myrtaceae | Calytrix | flavescens | | |
| Myrtaceae | Corymbia | calophylla | | |
| Myrtaceae | Eucalyptus | marginata | subsp. | marginata |
| Myrtaceae | Hypocalymma | angustifolium | | |
| Myrtaceae | Kunzea | glabrescens | | |
| Myrtaceae | Kunzea | recurva | | |
| Myrtaceae | Melaleuca | preissiana | | |
| Myrtaceae | Pericalymma | ellipticum | var. | ellipticum |
| Orchidaceae | *Disa | bracteata | | |
| Orchidaceae | Caladenia | discoidea | | |
| Orchidaceae | Caladenia | flava | subsp. | flava |
| Orchidaceae | Caladenia | reptans | | |
| Orchidaceae | Cyanicula | sericea | | |
| Orchidaceae | Cyrtostylis | robusta | | |
| Orchidaceae | Diuris | porrifolia | | |
| Orchidaceae | Elythranthera | brunonis | | |
| Orchidaceae | Eriochilus | dilatatus | | |
| Orchidaceae | Leporella | fimbriata | | |
| Orchidaceae | Pterostylis | recurva | | |
| Orchidaceae | Pterostylis | | sp. | indet. |
| Orchidaceae | Pyrorchis | nigricans | 1 | |
| Orchidaceae | Thelymitra | antennifera | | |
| Orobanchaceae | *Parentucellia | latifolia | | |
| Oxalidaceae | *Oxalis | | sp. | indet. |
| Phyllanthaceae | Poranthera | microphylla | In the second | |
| Pittosporaceae | Billardiera | variifolia | | |
| Poaceae | *Aira | cupaniana | | |
| Poaceae | *Briza | minor | | |
| 1 040046 | שוובט | ATTITION | | 1 |

| Family | Genus | Species | Rank | Infra Name |
|------------------|--------------|---------------|--------|--------------------------|
| Poaceae | *Ehrharta | longiflora | | |
| Poaceae | *Lolium | rigidum | | |
| Poaceae | *Vulpia | bromoides | | |
| Poaceae | Tetrarrhena | laevis | | |
| Proteaceae | Adenanthos | obovatus | | |
| Proteaceae | Banksia | attenuata | | |
| Proteaceae | Banksia | bipinnatifida | | |
| Proteaceae | Banksia | dallanneyi | subsp. | sylvestris |
| Proteaceae | Banksia | grandis | | |
| Proteaceae | Conospermum | capitatum | subsp. | glabratum |
| Proteaceae | Grevillea | quercifolia | | |
| Proteaceae | Hakea | lissocarpha | | |
| Proteaceae | Hakea | prostrata | | |
| Proteaceae | Persoonia | longifolia | | |
| Proteaceae | Petrophile | linearis | | |
| Proteaceae | Synaphea | gracillima | | |
| Proteaceae | Xylomelum | occidentale | | |
| Restionaceae | Desmocladus | fasciculatus | | |
| Restionaceae | Hypolaena | exsulca | | |
| Rhamnaceae | Trymalium | ledifolium | | |
| Rubiaceae | Opercularia | apiciflora | | |
| Rubiaceae | Opercularia | hispidula | | |
| Rutaceae | Boronia | crenulata | subsp. | crenulata var. crenulata |
| Rutaceae | Boronia | | cf. | fastigiata |
| Rutaceae | Cyanothamnus | ramosus | subsp. | anethifolius |
| Solanaceae | *Solanum | nigrum | | |
| Stylidiaceae | Levenhookia | pusilla | | |
| Stylidiaceae | Stylidium | amoenum | | |
| Stylidiaceae | Stylidium | araeophyllum | | |
| Stylidiaceae | Stylidium | ciliatum | | |
| Stylidiaceae | Stylidium | diversifolium | | |
| Stylidiaceae | Stylidium | piliferum | | |
| Stylidiaceae | Stylidium | plantagineum | | |
| Stylidiaceae | Stylidium | tenue | | |
| Stylidiaceae | Stylidium | violaceum | | |
| Xanthorrhoeaceae | Chamaescilla | corymbosa | | |
| Xanthorrhoeaceae | Xanthorrhoea | gracilis | | |
| Xanthorrhoeaceae | Xanthorrhoea | preissii | | |
| Zamiaceae | Macrozamia | riedlei | | |

Records for introduced species recorded from the study area

| Genus | Species | % Foliar Cover | Height (cm) | Easting | Northing |
|----------------|-------------|-------------------|-------------|---------|----------|
| *Aira | cupaniana | + | 0.1 | 429245 | 6309962 |
| *Aira | cupaniana | + | 0.1 | 429254 | 6309802 |
| *Aira | cupaniana | 0.5 | 0.1 | 428957 | 6309834 |
| *Aira | cupaniana | + | 0.1 | 428936 | 6309383 |
| *Aira | cupaniana | + | 0.15 | 429067 | 6309861 |
| *Arctotheca | calendula | + | 0.1 | 428860 | 6310177 |
| *Arctotheca | calendula | + | 0.1 | 429038 | 6310124 |
| *Arctotheca | calendula | + | 0.1 | 428957 | 6309834 |
| *Arctotheca | calendula | + | 0.1 | 428860 | 6310063 |
| *Arctotheca | calendula | + | 0.1 | 428898 | 6309953 |
| *Arctotheca | calendula | + | 0.1 | 429197 | 6310106 |
| *Arctotheca | calendula | + | 0.1 | 429069 | 6310488 |
| *Briza | minor | 0.5 | 0.1 | 428957 | 6309834 |
| *Briza | minor | + | 0.1 | 429346 | 6310783 |
| *Disa | bracteata | + | 0.15 | 429346 | 6310783 |
| *Ehrharta | longiflora | 1 | 0.1 | 429611 | 6310438 |
| *Ehrharta | longiflora | 3 | 0.1 | 429346 | 6310783 |
| *Ehrharta | longiflora | 0.5 | 0.1 | 429069 | 6310488 |
| *Ficinia | marginata | + | 0.05 | 428882 | 6309474 |
| *Hypochaeris | glabra | + | 0.1 | 428891 | 6309769 |
| *Hypochaeris | glabra | + | 0.1 | 428860 | 6310177 |
| *Hypochaeris | glabra | + | 0.1 | 429245 | 6309962 |
| *Hypochaeris | glabra | + | 0.1 | 429110 | 6309942 |
| *Hypochaeris | glabra | + | 0.1 | 429130 | 6310284 |
| *Hypochaeris | glabra | + | 0.1 | 429038 | 6310124 |
| *Hypochaeris | glabra | 4 | 0.1 | 428957 | 6309834 |
| *Hypochaeris | glabra | + | 0.1 | 428936 | 6309383 |
| *Hypochaeris | glabra | 1 | 0.1 | 428860 | 6310063 |
| *Hypochaeris | glabra | 0.25 | 0.1 | 428898 | 6309953 |
| *Hypochaeris | glabra | + | 0.05 | 429183 | 6309879 |
| *Hypochaeris | glabra | + | 0.05 | 429254 | 6310321 |
| *Hypochaeris | glabra | + | 0.05 | 428966 | 6310309 |
| *Hypochaeris | glabra | + | 0.1 | 429197 | 6310106 |
| *Hypochaeris | glabra | 4 | 0.1 | 429611 | 6310438 |
| *Hypochaeris | glabra | 6 | 0.1 | 429346 | 6310783 |
| *Hypochaeris | glabra | 2 | 0.1 | 429069 | 6310488 |
| *Hypochaeris | glabra | 2 | 1.5 | 429067 | 6309861 |
| *Lolium | rigidum | + | 0.3 | 429346 | 6310783 |
| *Lotus | subbiflorus | + | 0.1 | 429346 | 6310783 |
| *Oxalis | sp. indet | 1 | 0.1 | 429069 | 6310488 |
| *Parentucellia | latifolia | + | 0.1 | 428957 | 6309834 |
| *Romulea | rosea | 0.5 | 0.1 | 428957 | 6309834 |
| *Romulea | rosea | 0.5 | 0.2 | 429611 | 6310438 |
| *Romulea | rosea | + | 0.2 | 429346 | 6310783 |
| *Romulea | rosea | + | 0.15 | 429069 | 6310488 |

| Genus | Species | % Foliar Cover | Height (cm) | Easting | Northing |
|------------|--------------|-------------------|-------------|---------|----------|
| *Solanum | nigrum | + | 0.4 | 429069 | 6310488 |
| *Trifolium | subterraneum | 1 | 0.1 | 429611 | 6310438 |
| *Trifolium | subterraneum | 3 | 0.1 | 429346 | 6310783 |
| *Trifolium | subterraneum | 1.5 | 0.1 | 429069 | 6310488 |
| *Ursinia | anthemoides | + | 0.1 | 428860 | 6310177 |
| *Ursinia | anthemoides | + | 0.1 | 429245 | 6309962 |
| *Ursinia | anthemoides | 0.5 | 0.2 | 428957 | 6309834 |
| *Ursinia | anthemoides | + | 0.1 | 428936 | 6309383 |
| *Ursinia | anthemoides | 0.5 | 0.2 | 428860 | 6310063 |
| *Ursinia | anthemoides | 1 | 0.2 | 429611 | 6310438 |
| *Ursinia | anthemoides | 3 | 0.2 | 429346 | 6310783 |
| *Ursinia | anthemoides | 2.5 | 0.2 | 429069 | 6310488 |
| *Vulpia | bromoides | + | 0.1 | 428860 | 6310177 |
| *Vulpia | bromoides | + | 0.1 | 429245 | 6309962 |
| *Vulpia | bromoides | + | 0.1 | 429110 | 6309942 |
| *Vulpia | bromoides | + | 0.1 | 429038 | 6310124 |
| *Vulpia | bromoides | 0.5 | 0.1 | 428957 | 6309834 |
| *Vulpia | bromoides | 0.5 | 0.1 | 428860 | 6310063 |
| *Vulpia | bromoides | 0.5 | 0.1 | 428898 | 6309953 |
| *Vulpia | bromoides | + | 0.1 | 429183 | 6309879 |
| *Vulpia | bromoides | 4 | 0.1 | 429611 | 6310438 |
| *Vulpia | bromoides | 6 | 0.1 | 429346 | 6310783 |
| *Vulpia | bromoides | 2 | 0.1 | 429069 | 6310488 |

Species by site matrix for the study area

| Taxon | NE01 | NE02 | NE03 | NE04 | NE05 | NE06 | NE07 | NE08 | NE09 | NE10 | NE11 | NE12 | NE13 | NE14 | NE15 | NE16 | NE17 | NE18 | NE19 | NE20 | NE21 | NE22 | NE23 | NE24 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|----------|
| *Aira cupaniana | | | х | | | | | х | | х | | | | | | | | | | | | | | х |
| *Arctotheca calendula | | х | | | | х | | х | | | х | х | | | | | х | | | х | | | | |
| *Briza minor | | | | | | | | x | | | | | | | | | | | х | | | | | |
| *Disa bracteata | | | | | | | | | | | | | | | | | | | х | | | | | |
| *Ehrharta longiflora | | | | | | | | | | | | | | | | | | х | X | х | | | | |
| *Hypochaeris glabra | х | х | х | х | х | х | | х | | х | х | х | х | | х | х | х | x | x | x | | | | х |
| *Lolium rigidum | | | | | | | | | | | | | | | | | | | X | | | | | |
| *Lotus subbiflorus | | | | | | | | | | | | | | | | | | | X | | | | | |
| *Oxalis | | | | | | | | | | | | | | | | | | | , , , | х | | | | |
| *Parentucellia latifolia | | | | | | | | х | | | | | | | | | | | | | | | | |
| *Romulea rosea | | | | | | | | x | | | | | | | | | | х | х | х | | | | |
| *Solanum nigrum | | | | | | | | ^ | | | | | | | | | | ^ | ^ | X | | | | |
| *Trifolium subterraneum | | | | | | | | | | | | | | | | | | х | Х | X | | | | |
| *Ursinia anthemoides | | х | Х | | | | | x | | Х | Х | | | | | | | X | X | X | | | | + |
| *Vulpia bromoides | | X | X | х | | х | | x | | ^ | X | х | Х | | | | | X | X | X | | | | + |
| Acacia applanata | | | ^ | _ ^ | | | | ^ | | | ^ | X | | | | | | ^ | ^ | | | | | 1 |
| Acacia applanata Acacia extensa | , , | | · · | | | | | | | | · · | | | | | | | | | | | | | |
| | Х | | Х | | | | | | | | Х | Х | | | | | | | | | | | | |
| Acacia preissiana | | | | | Х | | | | ., | | | | | | | | | | | | Х | | | |
| Action the plane are the | | | | | | Х | | | Х | | | | | Х | Х | | | | | | | - | | - |
| Actinotus glomeratus | Х | | | | | | | | | | | | | | | | | | | | | - | | - |
| Adenanthos obovatus | | | | | | | | Х | | X | Х | | | | | | | | | | | | | Х |
| Allocasuarina fraseriana | Х | X | Х | Х | Х | Х | Х | | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | | - |
| Aphelia brizula | | | | | | | | | | | Х | | | | | | | | | | | | | |
| Babingtonia camphorosmae | | | Х | | | | | | | | | | | | | | Х | | | | | | | |
| Banksia attenuata | | Х | | Х | | | | | | | | | Х | | | | | | | | | Х | | |
| Banksia bipinnatifida | | | | | | | | | | | | | | | | | | | | | Х | | | - |
| Banksia dallanneyi subsp. sylvestris | | | | | Х | | | | Х | | | | | Х | Х | | | | | | | | | |
| Banksia grandis | | | | | | | | | Х | Х | | | | | | Х | | | | | Х | | | |
| Billardiera variifolia | | | | | Х | Х | | | Х | | | | | | | Х | | | | | Х | | | |
| Bossiaea eriocarpa | Х | | Х | Х | | Х | | | | Х | | Х | Х | | | Х | Х | | | | | | Х | |
| Bossiaea ornata | | | | | Х | | | | Х | | | | | Х | Х | | Х | | | | Х | | | |
| Burchardia congesta | | Х | Х | Х | | | | | | | | | Х | | | | | | | | | | | |
| Caladenia discoidea | | | | | | | | | | | | | Х | | | | | | | | | | | |
| Caladenia flava subsp. flava | | Х | | | | Х | Х | | Х | | | | | | | | | | Х | Х | Х | | | |
| Caladenia reptans | Х | | | Х | | Х | Х | | | Х | | Х | | | | | | | Х | Х | | | | |
| Calytrix flavescens | | | | х | | | | | | | | | Х | | | | Х | | | | | | | |
| Centrolepis aristata | | | | | | | | Х | | | Х | | | | | | | | | | | | | |
| Centrolepis mutica | Х | | | | | | | | | | | | | | | | | | | | | | | |
| Centrolepis pilosa | | | | | | | | Х | | | | | | | | | | | | | | | | |
| Chamaescilla corymbosa | | х | | х | | Х | Х | Х | Х | Х | Х | Х | х | | Х | Х | Х | х | Х | Х | Х | | | |
| Conospermum capitatum | | х | | | | | | | | | | | | | | | | | | | | | | |
| Conostylis aculeata subsp. aculeata | | | | | | | | х | | | | | | | | | | | | | | | | |
| Conostylis serrulata | | | | | | | | | х | | | | | | | | | | | | | | | |
| Conostylis setigera | | | | | | | Х | х | | | | | х | | | | | | | | | | | |
| Corymbia calophylla | | | | | х | х | | | х | | | | | х | х | х | х | х | х | х | | | | |
| Craspedia variabilis | х | | | | | | | | | | | х | | | | | | | | | | | | <u> </u> |
| Crassula colorata var. colorata | | | | | | | | | | х | | | | | | | | | | | | | | |
| Cyanicula sericea | | | | | х | | | | | | | | | | | х | | | х | | | | | |
| Cyanothamnus ramosus subsp. anethifolius | | | х | | | | | | | | | | | | | | | | | | | | | |
| Cyrtostylis robusta | | | | | | | | | | Х | | | | | | Х | | | | | | | | |
| Dampiera linearis | х | | | | х | х | Х | | х | | | | | | | | х | | | | х | | | |

| Taxon | NE01 | NE02 | NE03 | NE04 | NE05 | NE06 | NE07 | NE08 | NE09 | NE10 | NE11 | NE12 | NE13 | NE14 | NE15 | NE16 | NE17 | NE18 | NE19 | NE20 | NE21 | NE22 | NE23 | NE24 |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------------------|------|--|----------|
| Dasypogon bromeliifolius | х | х | х | х | | х | х | | | х | х | х | х | | | | х | | | | | х | | х |
| Daucus glochidiatus | | | | | | | | | | | | | | | | | | х | х | х | | | | |
| Daviesia decurrens | | | | | | | | х | | | | | | | | | | | | | | | | |
| Democladus fasciculatus | | | | | | | | | | | | | | | | | | | | | | х | | х |
| Desmocladus fasciculatus | х | х | х | х | х | х | х | х | х | Х | х | х | х | х | х | х | х | | | | х | | | |
| Diuris porrifolia | ^ | | | | _ ^ | _ ^ | | x | ^ | | | | ^ | | | | | | | | ^ | | $\overline{}$ | |
| Drosera erythrorhiza | | х | х | х | х | х | | x | | | х | | х | х | х | х | | | | х | х | | | |
| Drosera glanduligera | | ^ | X | ^ | ^ | ^ | | ^ | | Х | X | х | ^ | ^ | ^ | ^ | | | | ^ | ^ | | $\overline{}$ | |
| Drosera huegelii | | | ^ | | | | | | | | ^ | × | | | | | | | | | Х | | $\overline{}$ | |
| Drosera menziesii | · . | | | | | | | | , | | | ^ | | ., | Х | | Х | | | | ^ | | | |
| Drosera menziesii Drosera pallida | Х | · · | | ., | | | | | X | Х | | · · | , | Х | ^ | ., | ^ | | ., | | , , , , , , , , , , , , , , , , , , , | | | |
| Drosera stolonifera | | х | X | Х | Х | Х | Х | | Х | | Х | Х | X | | | Х | | | Х | Х | Х | | $\overline{}$ | |
| | | | Х | | | | | | | | | ., | Х | | | | Х | | | | | | $\overline{}$ | |
| Elythranthera brunonis | | | | | | | | | | | | Х | | | | | | | | | | | | <u> </u> |
| Eriochilus dilatatus | | | | Х | Х | Х | | | | | | | | Х | Х | | | Х | | | Х | | \vdash | |
| Eucalyptus marginata subsp. marginata | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | Х | \longrightarrow | |
| Glischrocaryon angustifolium | | | | | | | Х | | | | | | | | | | | | | | | | \longmapsto | |
| Gompholobium knightianum | | | | | Х | | | | | | | | | Х | | Х | | | | | | | \longmapsto | |
| Gompholobium marginatum | | | | | | | | | | | | Х | | | | | | | | | | | \longrightarrow | |
| Gompholobium ovatum | | | | | | | | | | | | | | | | Х | | Х | | | | | | |
| Gompholobium preissii | | | | | | | | | | | | | | | | | | Х | | | | | | |
| Gompholobium sp. indet | | | | | | | | | | Х | | | | | | | | | | | | | | |
| Gompholobium tomentosum | | | | Х | | | | | | | | | | | | | | | | | | | Х | |
| Goodenia eatoniana | | | | | | | | | х | | | | | | | | | | | | | | | |
| Grevillea quercifolia | | | | | х | | | | | | | | | | | | | | | | | | | 1 |
| Haemodorum laxum | | | | | | | | | х | | | | | | | | | х | | х | х | | <u>i</u> | 1 |
| Hakea lissocarpha | | | | | | | | | х | | | | | | | | | | | | х | | Ī | 1 |
| Hakea prostrata | | | | | | | | | х | | | | | | | | | | | | | | ī | |
| Hemiandra pungens | | | | | | | х | | | | | | | | | | | | | | | | ī | |
| Hibbertia amplexicaulis | | | | | х | х | Х | | Х | | | | | х | | х | | Х | | | х | | | |
| Hibbertia commutata | | | | | | х | | | Х | Х | | | | х | | х | | | | | х | | | |
| Hibbertia diamesogenos | х | | | | | | Х | | | х | | х | | | | | | | | | | | | |
| Hibbertia hypericoides | | х | Х | | Х | х | | | х | | | | | х | Х | х | Х | | | | Х | х | | 1 |
| Hibbertia racemosa | | | х | | | | | | | | | | | | | | | | | | | | | 1 |
| Hibbertia vaginata | | х | х | х | | | х | | | х | х | х | х | | | | | | | | | | | |
| Homalosciadium homalocarpum | х | | | | | | | х | | | | | х | | | | | | | | | | | 1 |
| Hovea chorizemifolia | | | | | х | | | | х | | | | | | х | х | | х | | | | | | |
| Hovea trisperma | | | х | | | | | | | | | х | | | | | | | | | | | | |
| Hyalosperma demissum | | | | | | | | х | | | | | | | | | | | | | | | | |
| Hydrocotyle callicarpa | | х | | | | х | Х | x | | Х | | х | Х | | Х | | х | | | | | | | |
| Hypocalymma angustifolium | х | X | | | | ^ | ^ | ^ | х | X | Х | X | ^ | | ^ | | ^ | | | | | | х | х |
| Hypolaena exsulca | ^ | ^ | Х | х | | | Х | Х | ^ | ^ | X | × | | | | | х | | | | | | | |
| Isolepis marginata | | | ^ | | | | ^ | | | | ^ | ^ | | | | | ^ | | V | | | | $\overline{}$ | |
| Kennedia coccinea | | | | | | | | | , | | | | | | | | | | Х | | | | $\overline{}$ | |
| | | | | | | | | | Х | | | | | | | | | Х | | | ., | | | |
| Kunzea glabrescens | | | | - | | | | | | | | | | - | | - | | | - | | Х | Х | Х | X |
| Kunzea recurva | | | | - | | | | Х | | | | | | | | | | | - | | | | \longrightarrow | Х |
| Labichea punctata | | | | - | | 1 | | 1 | | | | | | X | X | X | | | - | | X | | | |
| Lagenophora huegelii | Х | | Х | - | Х | 1 | | 1 | | | | | | Х | Х | Х | | | - | Х | Х | | | i |
| Laxmannia squarrosa | | | | - | | | | Х | | | | | | - | | - | | | - | | - | | | 1 |
| Lechenaultia biloba | | | | | | | | | Х | | | | | | | Х | | | | 1 | - | | | |
| Lepdiosperma cf. squamatum | | | | | | 1 | | 1 | | | | | Х | | | 1 | | | | ļ | 1 | | | |
| Lepidosperma leptostachyum | | | | | | | | | Х | | | | | | | | | | | | Х | | | |

| Taxon | NE01 | NE02 | NE03 | NE04 | NE05 | NE06 | NE07 | NE08 | NE09 | NE10 | NE11 | NE12 | NE13 | NE14 | NE15 | NE16 | NE17 | NE18 | NE19 | NE20 | NE21 | NE22 | NE23 | NE24 |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Lepidosperma pubisquameum | | х | | | | X | | | | | | | | | | | | | | | | | | |
| Lepidosperma squamatum | | | | | | | Х | х | | х | | | | | | | | | | | | | | |
| Leporella fimbriata | | х | Х | х | | | X | x | х | | х | | х | | | | | | | | | | | |
| Leucopogon capitellatus | | | | | | | | | x | | | | | | Х | х | | | | | | | | |
| Levenhookia pusilla | | | | | | | Х | х | Α | Х | х | х | | | X | Α | | Х | | х | | | | |
| Lindsaea linearis | Х | | | | | | X | ^ | | X | ^ | ^ | | | ^ | | | ^ | | ^ | | | | |
| Lomandra caespitosa | X | | Х | | | | | | | ^ | Х | x | Х | | | | | | | | | | | |
| Lomandra hermaphrodita | | | | ., | ., | | | ., | | | ^ | ^ | | | | | ., | | | | | | | |
| | Х | Х | Х | Х | Х | | | Х | | | | | Х | | | | Х | | | | | | | |
| Lomandra micrantha subsp. micrantha | | | | | | | | | | | | | | | Х | | | | | | | | | |
| Lomandra nigricans | | Х | Х | | | | Х | | | | | Х | | | | | | | | | Х | | | |
| Lomandra odora | | | | | | | | | | | | | | Х | | | | | | | | | | |
| Lomandra preissii | | | | | | | | | | | | Х | | | | | | | | | | | | |
| Lomandra sericea | Х | | Х | Х | Х | Х | Х | | Х | Х | | Х | Х | Х | Х | Х | | | | | Х | | | |
| Luzula meriodionalis | | | | | | | | | | | | | | | | | | | Х | | | | | |
| Lyginia imberbis | Х | Х | Х | Х | | | Х | Х | | Х | Х | Х | | | | | Х | | | | | Х | Х | |
| Macrozamia riedlei | | | | | | | | | Х | | | | | | | | | | | | Х | | | |
| Melaleuca preissiana | | | | | | | | х | | | Х | Х | | | | | | | | | | | | |
| Mesomelaena tetragona | | | | | | | | Х | | | | | | | | | | | | | | | | Х |
| Millotia tenuifolia | х | х | х | х | | х | | Х | | х | х | х | х | | Х | | х | х | х | х | | | | |
| Morelotia octandra | х | | | | х | х | Х | | х | | | | | х | | | | | | | | | | |
| Netrostylis sp. Jarrah Forest (R. Davis 7391) | х | х | Х | х | х | х | Х | | Х | х | | | | Х | Х | Х | Х | Х | | | х | | | |
| Nuytsia floribunda | | | х | | | | | х | | х | х | х | | | | | | | | | | | | х |
| Opercularia apiciflora | х | | х | | х | | | | х | | | | | | х | | | | | | х | | | |
| Opercularia hispidula | | | | | | | | | | | | | | | | | | Х | | | | | | |
| Patersonia babianoides | | | | | | х | | | х | | | | | Х | Х | х | | | | | | | | |
| Patersonia occidentalis var. occidentalis | | | | | | | | Х | | | | | | | | | | | | | | | | |
| Pericalymma ellipticum var. ellipticum | | | | | | | | | | | х | | | | | | | | | | | | | |
| Persoonia longifolia | | х | | | | | | | х | х | | | х | | | х | | | | | х | | | |
| Petrophile linearis | | | | х | | | | | х | х | | | х | | | | | | | | | | | |
| Phlebocarya ciliata | | х | х | | | | | | | х | х | | | | | | х | | | | | | | |
| Podolepis gracilis | | | | | | | | х | | | х | х | | | | | | | | | | | | х |
| Podotheca angustifolia | | х | х | х | | | х | x | | х | | x | х | | | | | | | | | | | |
| Poranthera microphylla | | x | | x | | | | | | | | | | | | | | | | | | | | |
| Pterochaeta paniculata | | | | | | | | х | | | | | | | | | | | | | | | | |
| Pterostylis recurva | | | | | | | | ^ | х | | | | | | | | | | | | | | | |
| Pterostylis sp. indet | Х | | | | | | Х | | ^ | Х | | | | | | Х | Х | | | | Х | | | |
| Pyrorchis nigricans | X | | | | | | ^ | | | ^ | | | | | | ^ | ^ | | | | ^ | | | |
| Pyrorchis sp. indet | | V | V | Х | | | | | | | | | Х | | | | | | | | | | | \vdash |
| Quinetia urvillei | | Х | X | X | | | | ., | | ., | | ., | X | | | | | | | | | | | |
| | | | X | 1 | | | | Х | 1 | Х | Х | Х | | | | 1 | 1 | 1 | 1 | | | + | | |
| Rhodanthe citrina | | | Х | | | | | | | | | - | Х | | | - | - | - | | | | | | |
| Scaevola calliptera | Х | | - | | | Х | | | Х | Х | 1 | - | 1 | | Х | - | - | - | | | Х | | | \vdash |
| Schoenus | | | 1 | 1 | | | | Х | 1 | | 1 | 1 | 1 | | | 1 | 1 | 1 | 1 | | | | | |
| Senecio quadridentatus | | | - | 1 | | | | | - | | 1 | - | 1 | | | - | - | - | 1 | Х | | + | | |
| Sowerbaea laxiflora | | | - | 1 | Х | | | | - | | 1 | - | 1 | | | - | - | - | 1 | | | + | | |
| Stylidium amoenum | - | | - | | | | | | - | | | - | | Х | | - | - | - | | | Х | | | |
| Stylidium araeophyllum | | | | | | | | | | Х | 1 | Х | Х | | | | | | | | | | | |
| Stylidium brunonianum | х | | - | | | | Х | Х | - | Х | | - | | | | - | - | - | | | | | | 1 |
| Stylidium piliferum | | | х | | х | | | | х | х | | | | | х | х | | х | | Х | х | | | |
| Stylidium schoenoides | | | | | х | х | | | х | | | | | Х | | Х | | | | | | | | |
| Stylidium spathulatum | | | | | | | | | | | | Х | | | | | | | | | | | | |
| Styphelia discolor | | | | | | | | | | | | | | | | | | | | | Х | | | |

| Taxon | NE01 | NE02 | NE03 | NE04 | NE05 | NE06 | NE07 | NE08 | NE09 | NE10 | NE11 | NE12 | NE13 | NE14 | NE15 | NE16 | NE17 | NE18 | NE19 | NE20 | NE21 | NE22 | NE23 | NE24 |
|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Styphelia erectifolia | | | | | | | | | Х | | | | | Х | | | | | | | | | | |
| Styphelia pallida | х | | | | | | | | х | | | | | | | | | | | | х | | | |
| Styphelia propinqua | | | | | | | | | | | | | | | | | | | | | х | | | |
| Styphelia tenuiflora | | | х | | | Х | | | | Х | | | Х | | | Х | | | | | Х | | | |
| Tetrarrhena laevis | | | | | | | | | | | | | | | | | | х | | | х | | | |
| Tetratheca hirsuta subsp. viminea | | | | | | | | | Х | | | | | | | | | | | | | | | |
| Thelymitra antennifera | | | | | | | | х | | | | | | | | | | | | | | | | |
| Thysanotus arbuscula | | х | | | | | | | | | | | | | | | | | | | | | | |
| Thysanotus patersonii | | Х | х | Х | х | | Х | | | | | | | | | Х | | х | | х | | | | |
| Trachymene pilosa | х | х | х | х | | х | | Х | | Х | х | Х | Х | | х | х | Х | Х | Х | | Х | | | |
| Tricoryne elatior | | | | | | | | | | | | | | | | | | | | | | | | х |
| Trymalium ledifolium | | | | | Х | | | | | | | | | | | | | х | | | Х | | | |
| Wahlenbergia gracilenta | | | х | | | | | | | | | | | | | | | | | | | | | |
| Xanthorrhoea gracilis | | | | | | | | | | | | | | | Х | | | | | | | | | |
| Xanthorrhoea preissii | х | | х | | | | | х | х | Х | х | Х | | х | Х | | Х | | | | х | | | Х |
| Xanthosia atkinsoniana | | | | | х | | | | | | | | | х | | х | | | | | | | | |
| Xanthosia candidia | | | | | | | | | | | | | | | | | | | | | Х | | | |
| Xanthosia huegelii | | Х | Х | Х | х | Х | Х | х | | х | Х | Х | Х | | | | Х | | | | Х | | | |
| Xylomelum occidentale | х | х | х | х | | х | х | х | | х | | | х | | | х | х | | | | | х | 1 | |

APPENDIX 8

Representative photographs, raw data and total flora spreadsheets recorded for the 24 quadrats assessed within the study area

STUDY SITES

| Site | Landform | Broad Floristic Formation | Vegetation Type | Condition | Aspect | Slope | Soil Type | Soil Colour | Last Fire | Disturbance | Comments | Easting | Northing |
|-------|----------------------------------|-------------------------------|---|-----------|----------------|-------|---------------|-------------|----------------|-----------------------|---|---------|----------|
| NE-01 | Footslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata over Open Low Sedges of Dasypogon bromeliifolius, Desmocaldus fasciculatus and Lyginia imberbis with Open Low Woodland A of Allocasuarina fraseriana and Eucalyptus marginata subsp. marginata over Open Scrub of Xanthorrhoea preissii | Good | East | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Grazing, Pig Diggings, Dust | 428891 | 6309769 |
| NE-02 | Hillslope | Allocasuarina Low Forest A | Low Forest A of Allocasuarina fraseriana, Banksia attenuata and Eucalyptus marginata subsp. marginata over Dwarf Scrub D of Hibbertia hypericoides and Hypocalymma angustifolium over Open Low Sedges of Dasypogon bromeliifolius and Desmocladus fasciculatus with Open Woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Low Woodland B of Xylomelum occidentale and Banksia attenuata | Good | South | Low | Loamy Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Dust | 428860 | 6310177 |
| NE-03 | Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Alllocasuarina fraseriana over Low Woodland A of Allocasuarina fraseriana, Eucalyptus marginata subsp. marginata and Nyutsia floribunda over Open Low Sedges of Dasypogon bromeliifolius, Desmocladus fasciculatus and Lyginia imberbis with Open Scrub of Xanthorrhoea preissii and Xylomelum occidentale over Open Low Scrub B of Xanthorrhoea preissii over Open Dwarf Scrub D of Babingtonia camphorosmae, Hibbetia hypericoides and Hibbertia vaginata | Very Good | South/ East | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Grazing | 429245 | 6309962 |
| NE-04 | Hillslope | Allocasuarina Low Forest A | Low Forest A of Allocasuarina fraseriana and Banksia attenuata with Woodland of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Open Low Sedges of Dasypogon bromeliifolius, Lyginia imberbis and Desmocladus fasciculatus with Open Low Woodland B of Xylomelum occidentale and Banksia attenuata over Open Dwarf Scrub D of Hibbertia vaginatus and Calytrix flavescens | Good | South | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Pig Diggings | 429110 | 6309942 |
| NE-05 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Low Woodland A of Allocasuarina fraseriana, Eucalyptus marginata subsp. marginata and Corymbia calophylla over Dwarf Scrub D of Hibbertia hypericoides over Very Open Low Sedges of Netrostylis sp. Jarrah Forest (R. Davis 7391) and Desmocladus fasciculatus | Good | South/ East | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Weeds, Historical Logging | 429130 | 6310284 |
| NE-06 | Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata, Corymbia calophylla and Allocasuarina fraseriana over Low Woodland A of Allocasuarina fraseriana over Dwarf Scrub D of Hibbertia hypericoides with Open Low Woodland B of Xylomelum occidentale over Very Open Low Sedges of Dasypogon bromeliifolius, Netrostylis sp. Jarrah Forest (R. Davis 7391) and Desmocladus fasciculatus | Good | South | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Weeds, Historical Logging | 429038 | 6310124 |
| NE-07 | Sand Plain | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Low Woodland A of Allocasuarina fraseriana over Low Sedges of Dasypogon bromeliifolius, Lyginia imberbis and Desmocaldus fasciculatus with Low Open Woodland B of Xylomelum occidentale over Very Open Herbs of Lindsaea linearis | Good | South | Flat | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Historical Logging | 429254 | 6309802 |
| NE-08 | Footslope | Desmocladus Low Sedges | Low Sedges of Desmocladus fasciculatus, Mesomelaena tetragona and Lyginia imberbis over Open Herbs of *Hypochaeris glabra, Quinetia urvillei and Hyalosperma demissum with Open Woodland of Eucalyptus marginata subsp. marginata over Open Low Woodland A of Melaleuca preissiana, Eucalyptus marginata subsp. marginata and Nuytsia floribunda over Open Scrub of Xanthorrhoea preissii and Kunzea recurva | Good | Flat | Flat | Loamy Sand | Grey | Old (6+ yr) | Mining Exploration | Swampy Flats: Other Disturbance: Road/ Access Track, Weeds, Historical Logging | 428957 | 6309834 |
| NE-09 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Dwarf Scrub D of Hibbertia commutata, Leucopogon capitellatus and Hibbertia hypericoides with Open Low Woodland A of Allocasuarina fraseriana and Eucalyptus marginata subsp. marginata over Open Low Scrub A of Xanthorrhoea preissii over Very Open Low Sedges of Netrostylis sp. Jarrah Forest (R. Davis 7391) and Lepidosperma leptostachyum | Good | East | Low | Loamy Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Weeds, Dust, Logging | 428828 | 6309551 |

| Site | Landform | Broad Floristic Formation | Vegetation Type | Condition | Aspect | Slope | Soil Type | Soil Colour | Last Fire | Disturbance | Comments | Easting | Northing |
|-------|----------------------------------|------------------------------|---|------------------------|----------------|----------|---------------|-------------|----------------|-----------------------|--|---------|----------|
| NE-10 | Sand Plain | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Allocasuarina fraseriana over Low Woodland A of Allocasuarina fraseriana, Xylomelum occidentale and Nuytsia floribunda over Open Low Sedges of Dasypogon bromeliifolius and Desmocladus fasciculatus with Open Low Woodland B of Xylomelum occidentale, Persoonia longifolia and Banksia grandis over Open Scrub of Xanthorrhoea preissii | Good | East | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Histocial Logging, Pig Diggings | 428936 | 6309383 |
| NE-11 | Footslope | Dasypogon Low Sedges | Low Sedges of Dasypogon bromeliifolius, Desmocladus fasciculatus and Lyginia imberbis with Woodland of Eucalyptus marginata subsp. marginata (Allocasuarina fraseriana) over Low Woodland A of Melaleuca preissii, Eucalyptus marginata subsp. marginata and Nuytsia floribunda over Open Low Scrub A of Xanthorrhoea preissii over Very Open Herbs of Quinetia urvillei, Millotia tenuifolia and *Hypochaeris glabra | Good | South/ East | Low | Sandy Loam | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Historical Logging, Dust | 428860 | 6310063 |
| NE-12 | Drainage Area/ Floodplain | Dasypogon Low Sedges | Low Sedges of Dasypogon bromeliifolius, Lyginia imberbis and Desmocladus fasciculatus with Open Woodland of Eucalyptus marginata subsp. marginata aover Open Low Woodland A of Melaleuca preissiana, Nuytsia floribunda and Allocasuarina fraseriana over Open Low Scrub A of Xanthorrhoea preissii | Good | East | Low | Light Clay | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Siltation, Logging | 428898 | 6309953 |
| NE-13 | Hillslope | Banksia Low Forest A | Low Forest A of Banksia attenuata, Allocasuarina fraseriana and Xylomelum occidentale over Low Sedges of Dasypogon bromeliifolius and Desmocladus fasciculatus with Woodland of Allocasuarina fraseriana and Eucalyptus marginata subsp. marginata over Open Low Woodland B of Xylomelum occidentale and Persoonia longfolia over Open Dwarf Scrub D of Calytrix flavescens and Hibbertia vaginatus | Very Good | South/ East | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Logging | 429183 | 6309879 |
| NE-14 | Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Low Heath D of Hibbertia hypericoides, Hibbertia commutata and Banksia dallanneyi with Open Low Woodland A of Eucalyptus marginata subsp. marginata, Corymbia calophylla and Allocasuarina fraseriana over Open Low Scrub B of Xanthorrhoea preissii | Very Good | South | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Logging | 429250 | 6310174 |
| NE-15 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Low Heath D of Hibbertia hypericoides, Leucopogon capitellatus and Bossiaea ornata with Open Low Woodland A of Allocasuarina fraseriana and Eucalyptus marginata subsp. marginata | Very Good | South/ East | Moderate | Loamy Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Weeds, Logging | 429254 | 6310321 |
| NE-16 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata, Corymbia calophylla and Allocasuarina fraseriana over Low Heath D of Hibbertia hypericoides, Leucopogon capitellatus and Bossiaea ornata with Low Woodland A of Allocasuarina fraseriana, Eucalyptus marginata subsp. marginata and Corymbia calophylla over Open Low Woodland B of Xylomelum occidentale, Banksia grandis and Eucalyptus marginata subsp. marginata | Very Good | South | Moderate | Loamy Sand | Grey | Old (6+ yr) | Mining Exploration | Laterite: Other Disturbance: Road/ Access Track, Weeds, Logging | 428966 | 6310309 |
| NE-17 | Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata, Allocasuarina fraseriana and Corymbia calophylla over Low Scrub A of Xanthorrhoea preissii over Open Low Sedges of Dasypogon bromeliifolius with Open Dwarf Scrub D of Hibbertia hypericoides | Good | South | Low | Sand | Grey | Old (6+ yr) | Mining Exploration | Other Disturbance: Road/ Access Track, Weeds, Logging | 429197 | 6310106 |
| NE-18 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Open Low Woodland A of Allocasuarina fraseriana over Very Open Low Grass of *Vulpia bromoides and *Ehrharta longiflora over Very Open Herbs of *Trifolium subterraneum, *Ursinia anthemoides and *Hypochaeris glabra | Completely Degraded | North/ East | Low | Loamy Sand | Brown | Old (6+ yr) | Cattle Grazing | Laterite: Other Disturbance: Mining Exploration, Road/ Access Track, Weeds, Logging | 429611 | 6310438 |
| NE-19 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Open Low Woodland A of Allocasuarina fraseriana over Very Open Low Grass of *Vulpia bromoides and *Ehrharta longiflora over Very Open Herbs of *Hypochaeris glabra, *Trifolium subterraneum and *Ursinia anthemoides | Completely Degraded | North/ East | Moderate | Loamy Sand | Grey | Old (6+ yr) | Cattle Grazing | Laterite: Other Disturbance: Mining Exploration, Road/ Access Track, Weeds | 429346 | 6310783 |
| NE-20 | Hillcrest/ Upper Hillslope | Eucalyptus Forest | Forest of Eucalyptus marginata subsp. marginata and Corymbia calophylla over Very Open Herbs of *Hypochaeris glabra, *Trifolium subterraneum and *Ursinia anthemoides over Very Open Low Grass of *Vulpia bromoides and *Ehrharta longiflora | Completely Degraded | North | Low | Sand | Grey | Old (6+ yr) | Cattle Grazing | Laterite: Other Disturbance: Mining Exploration, Road/ Access Track, Weeds, Logging | 429069 | 6310488 |

| Site | Landform | Broad Floristic Formation | Vegetation Type | Condition | Aspect | Slope | Soil Type | Soil Colour | Last Fire | Disturbance | Comments | Easting | Northing |
|-------|----------------------------------|------------------------------|--|------------------------|----------------|----------|---------------|-------------|----------------|--------------------------|--|---------|----------|
| NE-21 | Hillcrest/ Upper Hillslope | Eucalyptus Low Forest A | Woodland of Eucalyptus marginata subsp. marginata over Low Forest A of Eucalyptus marginata subsp. marginata, Allocasuarina fraseriana over Dwarf Scrub D of Hibbertia hypericoides | Very Good | South/ East | Low | Loamy Sand | Brown | Old (6+ yr) | Other | Ridge/ Upper Hillslope: Bare Ground 35%: Logging, Adjacent farmland to North | 429519 | 6310290 |
| NE-22 | Hillslope | Kunzea Thicket | Thicket of Kunzea glabrescens (Banksia attenuata, Xylomelum occidentale, Allocasuarina fraseriana, Eucalyptus marginata subsp. marginata) over Very Open Low Sedges of Dasypogon bromeliifolius and Lyginea imberbis | Completely Degraded | South | Moderate | Sand | Grey | Old (6+ yr) | Road/ Access Track | Cleared infrastructure corridor for powerline; Kunzea regrowth | 428931 | 6310265 |
| NE-23 | Hillslope | Kunzea Thicket | Thicket of Kunzea glabrescens | Completely Degraded | South | Moderate | Sand | Grey | Old (6+ yr) | Road/ Access Track | Cleared infrastructure corridor for powerline; Kunzea regrowth | 428961 | 6310071 |
| NE-24 | Hillslope | Kunzea Scrub | Scrub of Kunzea glabrescens over Open Low Scrub B of Kunzea glabrescens and Xanthorrhoea preissii over Open Dwarf Scrub D of Hypocalymma angustifolium over Very Open Low Sedges of Dasypogon bromeliifolius, Mesomelaena tetragona and Desmocladus fasciculatus | Completely Degraded | South | Low | Loamy Sand | Grey | Old (6+ yr) | Road/ Access Track | Cleared infrastructure corridor for powerline; Kunzea regrowth | 429067 | 6309861 |

FLORA

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|----------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-01 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-01 | Acacia | extensa | | | Native | + | 1.5 |
| NE-01 | Actinotus | glomeratus | | | Native | + | 0.1 |
| NE-01 | Allocasuarina | fraseriana | | | Native | 5 | 3-8 |
| NE-01 | Babingtonia | camphorosmae | | | Native | - | - |
| NE-01 | Banksia | dallanneyi | subsp. | sylvestris | Native | - | - |
| NE-01 | Bossiaea | eriocarpa | | | Native | 0.5 | 0.2 |
| NE-01 | Caladenia | reptans | | | Native | + | 0.15 |
| NE-01 | Centrolepis | glabra | | | Native | + | 0.1 |
| NE-01 | Craspedia | variabilis | | | Native | + | 0.2 |
| NE-01 | Dampiera | linearis | | | Native | + | 0.1 |
| NE-01 | Dasypogon | bromeliifolius | | | Native | 25 | <0.5 |
| NE-01 | Desmocladus | fasciculatus | | | Native | 10 | <0.5 |
| NE-01 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-01 | Eucalyptus | marginata | subsp. | marginata | Native | 65 | 8-30 |
| NE-01 | Hibbertia | diamesogenos | | | Native | + | 0.1 |
| NE-01 | Hibbertia | vaginata | | | Native | - | - |
| NE-01 | Homalosciadium | homalocarpum | | | Native | + | 0.1 |
| NE-01 | Hydrocotyle | callicarpa | | | Native | + | 0.1 |
| NE-01 | Hypocalymma | angustifolium | | | Native | 0.5 | 0.5 |
| NE-01 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-01 | Lindsaea | linearis | | | Native | 0.5 | 0.2 |
| NE-01 | Lomandra | caespitosa | | | Native | + | 0.2 |
| NE-01 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-01 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-01 | Lyginia | imberbis | | | Native | 2 | 0.5 |
| NE-01 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-01 | Morelotia | octandra | | | Native | 0.5 | 0.3 |
| NE-01 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 0.5 | 0.3 |
| NE-01 | Nuytsia | floribunda | | | Native | - | - |
| NE-01 | Opercularia | apiciflora | | | Native | + | 0.2 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-01 | Pterostylis | | sp. | indet | Native | + | 0.1 |
| NE-01 | Pyrorchis | nigricans | | | Native | + | 0.1 |
| NE-01 | Scaevola | calliptera | | | Native | + | 0.1 |
| NE-01 | Stylidium | tenue | | | Native | + | 0.1 |
| NE-01 | Styphelia | pallida | | | Native | + | 0.1 |
| NE-01 | Styphelia | tenuiflora | | | Native | - | - |
| NE-01 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-01 | Xanthorrhoea | preissii | | | Native | 5 | 1-4 |
| NE-01 | Xanthosia | atkinsoniana | | | Native | - | - |
| NE-01 | Xylomelum | occidentale | | | Native | 0.5 | 0.5-1.5 |
| NE-02 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-02 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-02 | *Ursinia | anthemoides | | | Introduced | + | 0.1 |
| NE-02 | *Vulpia | bromoides | | | Introduced | + | 0.1 |
| NE-02 | Allocasuarina | fraseriana | | | Native | 50 | 10-15 |
| NE-02 | Banksia | attenuata | | | Native | 20 | 5-15 |
| NE-02 | Banksia | grandis | | | Native | = | - |
| NE-02 | Burchardia | congesta | | | Native | + | 0.2 |
| NE-02 | Caladenia | flava | subsp. | flava | Native | + | 0.1 |
| NE-02 | Chamaescilla | corymbosa | | | Native | 0.25 | 0.1 |
| NE-02 | Conospermum | capitatum | subsp. | glabratum | Native | + | 0.3 |
| NE-02 | Dasypogon | bromeliifolius | | | Native | 15 | 0.3 |
| NE-02 | Desmocladus | fasciculatus | | | Native | 2 | 0.1 |
| NE-02 | Diuris | porrifolia | | | Native | = | - |
| NE-02 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-02 | Drosera | pallida | | | Native | + | CI |
| NE-02 | Eucalyptus | marginata | subsp. | marginata | Native | 8 | 10-25 |
| NE-02 | Hibbertia | hypericoides | | | Native | 10 | 0.5 |
| NE-02 | Hibbertia | vaginata | | | Native | + | 0.4 |
| NE-02 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-02 | Hypocalymma | angustifolium | | | Native | 1 | 0.4 |
| NE-02 | Lepidosperma | pubisquameum | | | Native | + | 0.3 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-02 | Leporella | fimbriata | | | Native | + | 0.2 |
| NE-02 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-02 | Lomandra | nigricans | | | Native | + | 0.3 |
| NE-02 | Lyginia | imberbis | | | Native | 0.5 | 0.5 |
| NE-02 | Millotia | tenuifolia | | | Native | 0.5 | 0.1 |
| NE-02 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 1 | 0.4 |
| NE-02 | Persoonia | longifolia | | | Native | + | 1-2 |
| NE-02 | Phlebocarya | ciliata | | | Native | + | 0.3 |
| NE-02 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-02 | Poranthera | microphylla | | | Native | + | 0.05 |
| NE-02 | Pyrorchis | nigricans | | | Native | + | 0.1 |
| NE-02 | Thysanotus | arbuscula | | | Native | + | 0.3 |
| NE-02 | Thysanotus | patersonii | | | Native | + | Cl |
| NE-02 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-02 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-02 | Xylomelum | occidentale | | | Native | 10 | 1-10 |
| NE-03 | *Aira | cupaniana | | | Introduced | + | 0.1 |
| NE-03 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-03 | *Ursinia | anthemoides | | | Introduced | + | 0.1 |
| NE-03 | *Vulpia | bromoides | | | Introduced | + | 0.1 |
| NE-03 | Acacia | extensa | | | Native | + | 1.5 |
| NE-03 | Allocasuarina | fraseriana | | | Native | 30 | 8-20 |
| NE-03 | Babingtonia | camphorosmae | | | Native | 1.5 | 0.4 |
| NE-03 | Bossiaea | eriocarpa | | | Native | + | 0.2 |
| NE-03 | Burchardia | congesta | | | Native | + | 0.3 |
| NE-03 | Cyanothamnus | ramosus | subsp. | anethifolius | Native | + | 0.1 |
| NE-03 | Dasypogon | bromeliifolius | | | Native | 10 | 0.3 |
| NE-03 | Desmocladus | fasciculatus | | | Native | 2 | 0.1 |
| NE-03 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-03 | Drosera | glanduligera | | | Native | + | 0.05 |
| NE-03 | Drosera | pallida | | | Native | + | Cl |
| NE-03 | Drosera | stolonifera | | | Native | + | 0.1 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|--------------|---------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-03 | Eucalyptus | marginata | subsp. | marginata | Native | 30 | 5-25 |
| NE-03 | Hibbertia | hypericoides | | | Native | 4 | 0.5 |
| NE-03 | Hibbertia | racemosa | | | Native | 0.5 | 0.3 |
| NE-03 | Hibbertia | vaginata | | | Native | 1 | 0.5 |
| NE-03 | Hovea | trisperma | | | Native | + | 0.2 |
| NE-03 | Hypolaena | exsulca | | | Native | + | 0.3 |
| NE-03 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-03 | Leporella | fimbriata | | | Native | + | 0.05 |
| NE-03 | Lomandra | caespitosa | | | Native | + | 0.3 |
| NE-03 | Lomandra | hermaphrodita | | | Native | + | 0.3 |
| NE-03 | Lomandra | nigricans | | | Native | + | 0.3 |
| NE-03 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-03 | Lyginia | imberbis | | | Native | 1 | 0.5 |
| NE-03 | Millotia | tenuifolia | | | Native | 2 | 0.1 |
| NE-03 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 0.5 | 0.3 |
| NE-03 | Nuytsia | floribunda | | | Native | 2 | 5-8 |
| NE-03 | Opercularia | apiciflora | | | Native | + | 0.1 |
| NE-03 | Phlebocarya | ciliata | | | Native | + | 0.3 |
| NE-03 | Podotheca | angustifolia | | | Native | + | 0.05 |
| NE-03 | Pyrorchis | nigricans | | | Native | + | 0.1 |
| NE-03 | Quinetia | urvillei | | | Native | + | 0.1 |
| NE-03 | Rhodanthe | citrina | | | Native | + | 0.05 |
| NE-03 | Stylidium | piliferum | | | Native | + | 0.05 |
| NE-03 | Styphelia | tenuiflora | | | Native | + | 0.3 |
| NE-03 | Thysanotus | patersonii | | | Native | + | Cl |
| NE-03 | Trachymene | pilosa | | | Native | 0.5 | 0.1 |
| NE-03 | Wahlenbergia | gracilenta | | | Native | + | 0.05 |
| NE-03 | Xanthorrhoea | preissii | | | Native | 15 | 1-3 |
| NE-03 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-03 | Xylomelum | occidentale | | | Native | 1 | 0.5-3 |
| NE-04 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-04 | *Vulpia | bromoides | | | Introduced | + | 0.1 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|--------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-04 | Allocasuarina | fraseriana | | | Native | 50 | 10-20 |
| NE-04 | Banksia | attenuata | | | Native | 12 | 3-15 |
| NE-04 | Bossiaea | eriocarpa | | | Native | + | 0.1 |
| NE-04 | Burchardia | congesta | | | Native | + | 0.3 |
| NE-04 | Caladenia | reptans | | | Native | + | 0.15 |
| NE-04 | Calytrix | flavescens | | | Native | 2 | 0.3 |
| NE-04 | Chamaescilla | corymbosa | | | Native | 0.25 | 0.1 |
| NE-04 | Cyanothamnus | ramosus | subsp. | anethifolius | Native | - | - |
| NE-04 | Dasypogon | bromeliifolius | | | Native | 24 | 0.3 |
| NE-04 | Desmocladus | fasciculatus | | | Native | 1.5 | 0.2 |
| NE-04 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-04 | Drosera | pallida | | | Native | + | Cl |
| NE-04 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-04 | Eucalyptus | marginata | subsp. | marginata | Native | 4 | 15-30 |
| NE-04 | Gompholobium | tomentosum | | | Native | + | 0.2 |
| NE-04 | Hemiandra | pungens | | | Native | - | - |
| NE-04 | Hibbertia | vaginata | | | Native | 1.5 | 0.5 |
| NE-04 | Hypolaena | exsulca | | | Native | + | 0.3 |
| NE-04 | Leporella | fimbriata | | | Native | + | 0.05 |
| NE-04 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-04 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-04 | Lyginia | imberbis | | | Native | 1.5 | 0.5 |
| NE-04 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-04 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | + | 0.3 |
| NE-04 | Petrophile | linearis | | | Native | + | 0.3 |
| NE-04 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-04 | Poranthera | microphylla | | | Native | + | 0.05 |
| NE-04 | Pyrorchis | nigricans | | | Native | + | 0.1 |
| NE-04 | Styphelia | erubescens | | | Native | - | - |
| NE-04 | Thysanotus | patersonii | | | Native | + | Cl |
| NIE O4 | | ., | | | N1-45 | | 0.05 |
| NE-04 | Trachymene | pilosa | | | Native | + | 0.05 |

| NE-04 Xylomelum | Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|--|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-05 | NE-04 | Xylomelum | occidentale | | | Native | 7 | 1-10 |
| NE-05 | NE-05 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-05 Banksia dallanneyi subsp. sylvestris Native 0.5 0.2 NE-05 Blillardiera variifolia Native + CI NE-05 Bossiaea ornata Native + 0.3 NE-05 Corymbia calophylla Native 30 10-25 NE-05 Cyanicula sericea Native + 0.3 NE-05 Dampiera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eirochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 | NE-05 | Acacia | preissiana | | | Native | + | 0.1 |
| NE-05 Billardiera variifolia Native + CI NE-05 Bosslaea ornata Native + 0.3 NE-05 Corymbia calophylla Native 30 10-25 NE-05 Cyanicula sericea Native + 0.3 NE-05 Dampiera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. Marginata Native + 0.1 NE-05 Gompholobium knight | NE-05 | Allocasuarina | fraseriana | | | Native | 10 | 6-20 |
| NE-05 Bossiaea ornata Native + 0.3 NE-05 Corymbia calophylla Native 30 10-25 NE-05 Cyanicula sericea Native + 0.3 NE-05 Dampiera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eriochilus marginata subsp. marginata Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Grovillea knightlanum Native + 0.1 <t< td=""><td>NE-05</td><td>Banksia</td><td>dallanneyi</td><td>subsp.</td><td>sylvestris</td><td>Native</td><td>0.5</td><td>0.2</td></t<> | NE-05 | Banksia | dallanneyi | subsp. | sylvestris | Native | 0.5 | 0.2 |
| NE-05 Corymbia calophylla Native 30 10-25 NE-05 Cyanicula sericea Native + 0.3 NE-05 Damplera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Eirochilus dilatatus Native + 0.1 NE-05 Eirochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Eoropholobium knightianum Native + 0.1 Native + 0.1 NE-05 Gompholobium knightianum Native + 0.2 | NE-05 | Billardiera | variifolia | | | Native | + | CI |
| NE-05 Cyanicula sericea Native + 0.3 NE-05 Dampiera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eriochilus dilatatus Native 30 10-25 NE-05 Eucalyptus marginata Native 30 10-25 NE-05 Eucalyptus marginata Native 30 10-25 NE-05 Eucalyptus marginata Native 30 10-25 NE-05 Gompholobium knightianum Native 4 0.1 NE-05 Grevillea quercifolia Native + 0.1 NE-05 Hibbertia hypericoides N | NE-05 | Bossiaea | ornata | | | Native | + | 0.3 |
| NE-05 Dampiera linearis Native - - NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + 0.1 NE-05 Ericohilus dilatatus Native + 0.1 NE-05 Ericohilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Gompholobium knightianum Native + 0.1 10-25 NE-05 Grevillea quercifolia Native + 0.1 10-25 NE-05 Hibbertia amplexicaulis Native + 0.2 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 10-1 1 | NE-05 | Corymbia | calophylla | | | Native | 30 | 10-25 |
| NE-05 Desmocladus fasciculatus Native 1.5 0.1 NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + CI NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Gompholobium knightianum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Logenophora huegelii Native + 0.2 | NE-05 | Cyanicula | sericea | | | Native | + | 0.3 |
| NE-05 Drosera erythrorhiza Native + 0.1 NE-05 Drosera pallida Native + Cl NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eicalyptus marginata subsp. marginata Native + 0.1 NE-05 Gompholobium knightianum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.1 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native + 0.1 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Morelotia </td <td>NE-05</td> <td>Dampiera</td> <td>linearis</td> <td></td> <td></td> <td>Native</td> <td>-</td> <td>-</td> | NE-05 | Dampiera | linearis | | | Native | - | - |
| NE-05 Drosera pallida Native + CI NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native + 0.1 NE-05 Gompholobium knightlanum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native 25 0.5 NE-05 Lagenophora huegelii Native + 0.2 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Morelotia octandra Native + 0.2 NE-05 Morelotia< | NE-05 | Desmocladus | fasciculatus | | | Native | 1.5 | 0.1 |
| NE-05 Eriochilus dilatatus Native + 0.1 NE-05 Eucalyptus marginata subsp. marginata Native 30 10-25 NE-05 Gompholobium knightianum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native + 0.1 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.2 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Morelotia octandra Native + 0.2 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native + 0.2 | NE-05 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-05 Eucalyptus marginata subsp. marginata Native 30 10-25 NE-05 Gompholobium knightianum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.2 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 | NE-05 | Drosera | pallida | | | Native | + | CI |
| NE-05 Gompholobium knightianum Native + 0.1 NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native + 0.2 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium | NE-05 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-05 Grevillea quercifolia Native + 0.2 NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native + 0.2 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.2 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus | NE-05 | Eucalyptus | marginata | subsp. | marginata | Native | 30 | 10-25 |
| NE-05 Hibbertia amplexicaulis Native + 0.1 NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus < | NE-05 | Gompholobium | knightianum | | | Native | + | 0.1 |
| NE-05 Hibbertia hypericoides Native 25 0.5 NE-05 Hovea chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + CI | NE-05 | Grevillea | quercifolia | | | Native | + | 0.2 |
| NE-05 Hovea Chorizemifolia Native + 0.2 NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + CI | NE-05 | Hibbertia | amplexicaulis | | | Native | + | 0.1 |
| NE-05 Lagenophora huegelii Native + 0.1 NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + CI | NE-05 | Hibbertia | hypericoides | | | Native | 25 | 0.5 |
| NE-05 Lomandra hermaphrodita Native + 0.2 NE-05 Lomandra sericea Native + 0.3 NE-05 Morelotia octandra Native + 0.2 NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + CI | NE-05 | Hovea | chorizemifolia | | | Native | + | 0.2 |
| NE-05LomandrasericeaNative+0.3NE-05MorelotiaoctandraNative+0.2NE-05Netrostylissp.Jarrah Forest (R. Davis 7391)Native20.4NE-05OperculariaapicifloraNative+0.2NE-05SowerbaealaxifloraNative+0.2NE-05StylidiumciliatumNative+0.1NE-05StylidiumplantagineumNativeNE-05ThysanotuspatersoniiNative+Cl | NE-05 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-05MorelotiaoctandraNative+0.2NE-05Netrostylissp.Jarrah Forest (R. Davis 7391)Native20.4NE-05OperculariaapicifloraNative+0.2NE-05SowerbaealaxifloraNative+0.2NE-05StylidiumciliatumNative+0.1NE-05StylidiumplantagineumNativeNE-05ThysanotuspatersoniiNative+CI | NE-05 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-05 Netrostylis sp. Jarrah Forest (R. Davis 7391) Native 2 0.4 NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + CI | NE-05 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-05 Opercularia apiciflora Native + 0.2 NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + Cl | NE-05 | Morelotia | octandra | | | Native | + | 0.2 |
| NE-05 Sowerbaea laxiflora Native + 0.2 NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + Cl | NE-05 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 2 | 0.4 |
| NE-05 Stylidium ciliatum Native + 0.1 NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + Cl | NE-05 | Opercularia | apiciflora | | | Native | + | 0.2 |
| NE-05 Stylidium plantagineum Native - - NE-05 Thysanotus patersonii Native + Cl | NE-05 | Sowerbaea | laxiflora | | | Native | + | 0.2 |
| NE-05 Thysanotus patersonii Native + Cl | NE-05 | Stylidium | ciliatum | | | Native | + | 0.1 |
| | NE-05 | Stylidium | plantagineum | | | Native | - | - |
| NE-05 Trymalium ledifolium + 0.3 | NE-05 | Thysanotus | patersonii | | | Native | + | Cl |
| | NE-05 | Trymalium | ledifolium | | | Native | + | 0.3 |
| NE-05 Xanthosia atkinsoniana Native + 0.4 | NE-05 | Xanthosia | atkinsoniana | | | Native | + | 0.4 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-05 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-06 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-06 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-06 | *Vulpia | bromoides | | | Introduced | + | 0.1 |
| NE-06 | Acacia | preissiana | | | Native | + | 0.1 |
| NE-06 | Allocasuarina | fraseriana | | | Native | 35 | 6-12 |
| NE-06 | Billardiera | variifolia | | | Native | + | CI |
| NE-06 | Bossiaea | eriocarpa | | | Native | + | 0.15 |
| NE-06 | Caladenia | flava | subsp. | flava | Native | + | 0.1 |
| NE-06 | Caladenia | reptans | | | Native | + | 0.1 |
| NE-06 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-06 | Corymbia | calophylla | | | Native | 6 | 10-25 |
| NE-06 | Dampiera | linearis | | | Native | + | 0.1 |
| NE-06 | Dasypogon | bromeliifolius | | | Native | 6 | 0.3 |
| NE-06 | Desmocladus | fasciculatus | | | Native | 2 | 0.1 |
| NE-06 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-06 | Drosera | pallida | | | Native | + | CI |
| NE-06 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-06 | Eucalyptus | marginata | subsp. | marginata | Native | 50 | 10-30 |
| NE-06 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-06 | Hibbertia | hypericoides | | | Native | 25 | <0.5 |
| NE-06 | Hibbertia | semipilosa | | | Native | 1 | 0.25 |
| NE-06 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-06 | Lepidosperma | pubisquameum | | | Native | + | 0.3 |
| NE-06 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-06 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-06 | Morelotia | octandra | | | Native | + | 0.3 |
| NE-06 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 1 | 0.5 |
| NE-06 | Patersonia | babianoides | | | Native | + | 0.1 |
| NE-06 | Scaevola | calliptera | | | Native | + | 0.1 |
| NE-06 | Stylidium | plantagineum | | | Native | + | 0.3 |
| NE-06 | Styphelia | tenuiflora | | | Native | + | 0.3 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|----------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-06 | Trachymene | pilosa | | | Native | + | 0.05 |
| NE-06 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-06 | Xylomelum | occidentale | | | Native | 7 | 1-4 |
| NE-07 | *Aira | cupaniana | | | Native | + | 0.1 |
| NE-07 | Allocasuarina | fraseriana | | | Native | 40 | 5-20 |
| NE-07 | Boronia | | cf. | fastigiata | Native | - | - |
| NE-07 | Caladenia | flava | subsp. | flava | Native | + | 0.1 |
| NE-07 | Caladenia | reptans | | | Native | + | 0.2 |
| NE-07 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-07 | Conostylis | setigera | | | Native | + | 0.1 |
| NE-07 | Crassula | decumbens | | | Native | - | - |
| NE-07 | Dampiera | linearis | | | Native | + | 0.1 |
| NE-07 | Dasypogon | bromeliifolius | | | Native | 20 | 0.3 |
| NE-07 | Desmocladus | fasciculatus | | | Native | 2 | 0.1 |
| NE-07 | Drosera | pallida | | | Native | + | Cl |
| NE-07 | Eucalyptus | marginata | subsp. | marginata | Native | 45 | 10-25 |
| NE-07 | Gastrolobium | bilobum | | | Native | - | - |
| NE-07 | Glischrocaryon | angustifolium | | | Native | + | 0.3 |
| NE-07 | Hemiandra | pungens | | | Native | + | 0.1 |
| NE-07 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-07 | Hibbertia | diamesogenos | | | Native | + | 0.1 |
| NE-07 | Hibbertia | vaginata | | | Native | + | 0.4 |
| NE-07 | Hyalosperma | demissum | | | Native | - | - |
| NE-07 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-07 | Hypolaena | exsulca | | | Native | + | 0.2 |
| NE-07 | Lepidosperma | squamatum | | | Native | + | 0.4 |
| NE-07 | Leporella | fimbriata | | | Native | + | 0.1 |
| NE-07 | Levenhookia | pusilla | | | Native | + | 0.05 |
| NE-07 | Lindsaea | linearis | | | Native | 2 | 0.15 |
| NE-07 | Lomandra | nigricans | | | Native | + | 0.3 |
| NE-07 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-07 | Lyginia | imberbis | | | Native | 3 | 0.5 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|----------------|---------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-07 | Morelotia | octandra | | | Native | + | 0.2 |
| NE-07 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | + | 0.3 |
| NE-07 | Orianthera | serpyllifolia | subsp. | serpyllifolia | Native | - | - |
| NE-07 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-07 | Pterochaeta | paniculata | | | Native | - | - |
| NE-07 | Pterostylis | | sp. | indet | Native | + | 0.1 |
| NE-07 | Stylidium | tenue | | | Native | + | 0.1 |
| NE-07 | Thysanotus | patersonii | | | Native | + | CI |
| NE-07 | Xanthorrhoea | preissii | | | Native | - | - |
| NE-07 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-07 | Xylomelum | occidentale | | | Native | 2.5 | 0.5-3 |
| NE-08 | *Aira | cupaniana | | | Introduced | 0.5 | 0.1 |
| NE-08 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-08 | *Briza | minor | | | Introduced | 0.5 | 0.1 |
| NE-08 | *Hypochaeris | glabra | | | Introduced | 4 | 0.1 |
| NE-08 | *Parentucellia | latifolia | | | Introduced | + | 0.1 |
| NE-08 | *Romulea | rosea | | | Introduced | 0.5 | 0.1 |
| NE-08 | *Ursinia | anthemoides | | | Introduced | 0.5 | 0.2 |
| NE-08 | *Vulpia | bromoides | | | Introduced | 0.5 | 0.1 |
| NE-08 | Acacia | extensa | | | Native | - | - |
| NE-08 | Adenanthos | obovatus | | | Native | 0.5 | 0.4 |
| NE-08 | Centrolepis | aristata | | | Native | 0.5 | 0.05 |
| NE-08 | Centrolepis | glabra | | | Native | + | 0.05 |
| NE-08 | Centrolepis | pilosa | | | Native | + | 0.05 |
| NE-08 | Chaetospora | curvifolius | | | Native | + | 0.2 |
| NE-08 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-08 | Conostylis | setigera | | | Native | + | 0.1 |
| NE-08 | Crassula | decumbens | | | Native | - | - |
| NE-08 | Daviesia | decurrens | subsp. | decurrens | Native | 1 | 0.5 |
| NE-08 | Desmocladus | fasciculatus | | | Native | 40 | 0.1 |
| NE-08 | Diuris | porrifolia | | | Native | + | 0.2 |
| NE-08 | Drosera | erythrorhiza | | | Native | 1 | 0.05 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|----------------|---------------|------------|--------------|-------------------|----------------|-------------|
| NE-08 | Elythranthera | brunonis | | | Native | - | - |
| NE-08 | Eucalyptus | marginata | subsp. | marginata | Native | 5 | 5-20 |
| NE-08 | Gompholobium | marginatum | | | Native | - | - |
| NE-08 | Hemiandra | pungens | | | Native | - | - |
| NE-08 | Homalosciadium | homalocarpum | | | Native | 0.5 | 0.05 |
| NE-08 | Hyalosperma | demissum | | | Native | 3 | 0.05 |
| NE-08 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-08 | Hypolaena | exsulca | | | Native | 0.5 | 0.3 |
| NE-08 | Jacksonia | furcellata | | | Native | - | - |
| NE-08 | Kunzea | recurva | | | Native | 2 | 1.5-3 |
| NE-08 | Laxmannia | | sp. | indet | Native | + | 0.1 |
| NE-08 | Lepidosperma | pubisquameum | | | Native | - | - |
| NE-08 | Lepidosperma | squamatum | | | Native | 0.5 | 0.4 |
| NE-08 | Leporella | fimbriata | | | Native | + | 0.1 |
| NE-08 | Levenhookia | pusilla | | | Native | + | 0.02 |
| NE-08 | Lomandra | hermaphrodita | | | Native | + | 0.1 |
| NE-08 | Lyginia | imberbis | | | Native | 4 | 0.5 |
| NE-08 | Melaleuca | preissiana | | | Native | 3 | 4-12 |
| NE-08 | Mesomelaena | tetragona | | | Native | 10 | 0.5 |
| NE-08 | Millotia | tenuifolia | | | Native | 0.5 | 0.1 |
| NE-08 | Nuytsia | floribunda | | | Native | 1 | 5-12 |
| NE-08 | Patersonia | occidentalis | var. | occidentalis | Native | 0.5 | 0.3 |
| NE-08 | Phlebocarya | ciliata | | | Native | 0.5 | 0.3 |
| NE-08 | Podolepis | gracilis | | | Native | 0.5 | 0.1 |
| NE-08 | Podotheca | angustifolia | | | Native | 1 | 0.1 |
| NE-08 | Pterochaeta | paniculata | | | Native | 4 | 0.05 |
| NE-08 | Quinetia | urvillei | | | Native | 7 | 0.1 |
| NE-08 | Schoenus | subbarbatus | | | Native | + | 0.1 |
| NE-08 | Stylidium | tenue | | | Native | + | 0.1 |
| NE-08 | Thelymitra | antennifera | | | Native | + | 0.1 |
| NE-08 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-08 | Xanthorrhoea | preissii | | | Native | 6 | 1-4 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|--------------------------|-------------------|----------------|-------------|
| NE-08 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-08 | Xylomelum | occidentale | | | Native | + | 0.5 |
| NE-09 | Acacia | extensa | | | Native | - | - |
| NE-09 | Acacia | preissiana | | | Native | + | 0.1 |
| NE-09 | Acacia | pulchella | | | Native | - | - |
| NE-09 | Allocasuarina | fraseriana | | | Native | 4 | 5-10 |
| NE-09 | Banksia | dallanneyi | subsp. | sylvestris | Native | 2 | 0.2 |
| NE-09 | Banksia | grandis | | | Native | + | 1 |
| NE-09 | Billardiera | variifolia | | | Native | 0.5 | Cl |
| NE-09 | Boronia | crenulata | subsp. | crenulata var. crenulata | Native | - | - |
| NE-09 | Bossiaea | ornata | | | Native | 1 | 0.3 |
| NE-09 | Caladenia | flava | subsp. | flava | Native | + | 0.2 |
| NE-09 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-09 | Conostylis | serrulata | | | Native | + | 0.3 |
| NE-09 | Corymbia | calophylla | | | Native | 20 | 10-25 |
| NE-09 | Dampiera | linearis | | | Native | + | 0.1 |
| NE-09 | Daviesia | preissii | | | Native | - | - |
| NE-09 | Desmocladus | fasciculatus | | | Native | 0.5 | 0.1 |
| NE-09 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-09 | Drosera | pallida | | | Native | + | Cl |
| NE-09 | Eucalyptus | marginata | subsp. | marginata | Native | 45 | 10-30 |
| NE-09 | Goodenia | eatoniana | | | Native | + | 0.1 |
| NE-09 | Haemodorum | laxum | | | Native | + | 0.3 |
| NE-09 | Hakea | lissocarpha | | | Native | 1 | 0.5 |
| NE-09 | Hakea | prostrata | | | Native | 0.5 | 2 |
| NE-09 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-09 | Hibbertia | hypericoides | | | Native | 5 | 0.4 |
| NE-09 | Hibbertia | semipilosa | | | Native | 2 | 0.4 |
| NE-09 | Hovea | chorizemifolia | | | Native | + | 0.2 |
| NE-09 | Hypocalymma | angustifolium | | | Native | 0.5 | 0.4 |
| NE-09 | Kennedia | coccinea | | | Native | + | 0.1 |
| NE-09 | Lechenaultia | biloba | | | Native | + | 0.3 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|---------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-09 | Lepidosperma | leptostachyum | | | Native | 2 | 0.5 |
| NE-09 | Leporella | fimbriata | | | Native | + | 0.1 |
| NE-09 | Leucopogon | capitellatus | | | Native | 5 | 0.3 |
| NE-09 | Lomandra | sericea | | | Native | + | 0.4 |
| NE-09 | Macrozamia | riedlei | | | Native | 0.5 | 0.5 |
| NE-09 | Morelotia | octandra | | | Native | + | 0.2 |
| NE-09 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 2 | 0.4 |
| NE-09 | Opercularia | apiciflora | | | Native | + | 0.2 |
| NE-09 | Patersonia | babianoides | | | Native | + | 0.2 |
| NE-09 | Persoonia | longifolia | | | Native | + | 0.5 |
| NE-09 | Petrophile | linearis | | | Native | + | 0.5 |
| NE-09 | Phlebocarya | ciliata | | | Native | + | 0.3 |
| NE-09 | Pterostylis | recurva | | | Native | + | 0.3 |
| NE-09 | Scaevola | calliptera | | | Native | 0.5 | 0.1 |
| NE-09 | Stylidium | piliferum | | | Native | + | 0.1 |
| NE-09 | Stylidium | plantagineum | | | Native | 0.5 | 0.3 |
| NE-09 | Styphelia | erectifolia | | | Native | + | 0.1 |
| NE-09 | Styphelia | pallida | | | Native | + | 0.1 |
| NE-09 | Tetratheca | hirsuta | subsp. | viminea | Native | + | 0.3 |
| NE-09 | Xanthorrhoea | preissii | | | Native | 6 | 1-2.5 |
| NE-09 | Xanthosia | candida | | | Native | + | 0.1 |
| NE-10 | *Aira | cupaniana | | | Introduced | + | 0.1 |
| NE-10 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-10 | *Ursinia | anthemoides | | | Introduced | + | 0.1 |
| NE-10 | Adenanthos | obovatus | | | Native | + | 0.4 |
| NE-10 | Allocasuarina | fraseriana | | | Native | 40 | 5-20 |
| NE-10 | Banksia | grandis | | | Native | 1 | 2-6 |
| NE-10 | Bossiaea | eriocarpa | | | Native | + | 0.2 |
| NE-10 | Caladenia | reptans | | | Native | + | 0.2 |
| NE-10 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-10 | Crassula | colorata | var. | colorata | Native | + | 0.05 |
| NE-10 | Cyrtostylis | robusta | | | Native | + | 0.05 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|--------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-10 | Dasypogon | bromeliifolius | | | Native | 20 | 0.3 |
| NE-10 | Desmocladus | fasciculatus | | | Native | 2 | 0.1 |
| NE-10 | Drosera | glanduligera | | | Native | + | 0.05 |
| NE-10 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-10 | Eucalyptus | marginata | subsp. | marginata | Native | 30 | 10-25 |
| NE-10 | Gompholobium | | sp. | indet | Native | + | 0.2 |
| NE-10 | Hibbertia | commutata | | | Native | + | 0.3 |
| NE-10 | Hibbertia | diamesogenos | | | Native | + | 0.1 |
| NE-10 | Hibbertia | vaginata | | | Native | + | 0.4 |
| NE-10 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-10 | Hypocalymma | angustifolium | | | Native | 0.5 | 0.3 |
| NE-10 | Lepidosperma | squamatum | | | Native | + | 0.5 |
| NE-10 | Levenhookia | pusilla | | | Native | + | 0.05 |
| NE-10 | Lindsaea | linearis | | | Native | + | 0.2 |
| NE-10 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-10 | Lyginia | imberbis | | | Native | 0.5 | 0.5 |
| NE-10 | Millotia | tenuifolia | | | Native | 0.5 | 0.1 |
| NE-10 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | + | 0.3 |
| NE-10 | Nuytsia | floribunda | | | Native | 1 | 2-8 |
| NE-10 | Persoonia | longifolia | | | Native | 1 | 2-4 |
| NE-10 | Petrophile | linearis | | | Native | + | 0.3 |
| NE-10 | Phlebocarya | ciliata | | | Native | + | 0.3 |
| NE-10 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-10 | Pterostylis | | sp. | indet | Native | + | 0.1 |
| NE-10 | Quinetia | urvillei | | | Native | + | 0.1 |
| NE-10 | Scaevola | calliptera | | | Native | + | 0.1 |
| NE-10 | Stylidium | araeophyllum | | | Native | + | 0.05 |
| NE-10 | Stylidium | piliferum | | | Native | + | 0.05 |
| NE-10 | Stylidium | tenue | | | Native | + | 0.1 |
| NE-10 | Styphelia | tenuiflora | | | Native | + | 0.3 |
| NE-10 | Trachymene | pilosa | | | Native | 0.5 | 0.05 |
| NE-10 | Xanthorrhoea | preissii | | | Native | 4 | 1-4 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-10 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-10 | Xylomelum | occidentale | | | Native | 4 | 1-6 |
| NE-11 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-11 | *Hypochaeris | glabra | | | Introduced | 1 | 0.1 |
| NE-11 | *Ursinia | anthemoides | | | Introduced | 0.5 | 0.2 |
| NE-11 | *Vulpia | bromoides | | | Introduced | 0.5 | 0.1 |
| NE-11 | Acacia | extensa | | | Native | 1 | 1-2 |
| NE-11 | Adenanthos | obovatus | | | Native | + | 0.3 |
| NE-11 | Allocasuarina | fraseriana | | | Native | 1 | 5-10 |
| NE-11 | Aphelia | cyperoides | | | Native | + | 0.05 |
| NE-11 | Centrolepis | aristata | | | Native | + | 0.05 |
| NE-11 | Chamaescilla | corymbosa | | | Native | | 0.1 |
| NE-11 | Dasypogon | bromeliifolius | | | Native | 25 | 0.3 |
| NE-11 | Desmocladus | fasciculatus | | | Native | 10 | 0.1 |
| NE-11 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-11 | Drosera | glanduligera | | | Native | + | 0.05 |
| NE-11 | Drosera | pallida | | | Native | + | Cl |
| NE-11 | Eucalyptus | marginata | subsp. | marginata | Native | 15 | 8.25 |
| NE-11 | Gompholobium | tomentosum | | | Native | + | 0.1 |
| NE-11 | Hibbertia | vaginata | | | Native | + | 0.3 |
| NE-11 | Hypocalymma | angustifolium | | | Native | 0.5 | 0.3 |
| NE-11 | Hypolaena | exsulca | | | Native | 1 | 0.3 |
| NE-11 | Leporella | fimbriata | | | Native | + | 0.1 |
| NE-11 | Levenhookia | pusilla | | | Native | + | 0.05 |
| NE-11 | Lomandra | caespitosa | | | Native | + | 0.2 |
| NE-11 | Lyginia | imberbis | | | Native | 5 | 0.5 |
| NE-11 | Melaleuca | preissiana | | | Native | 8 | 4-8 |
| NE-11 | Millotia | tenuifolia | | | Native | 2 | 0.1 |
| NE-11 | Nuytsia | floribunda | | | Native | 2 | 4-8 |
| NE-11 | Pericalymma | ellipticum | var. | ellipticum | Native | + | 1.5 |
| NE-11 | Phlebocarya | ciliata | | | Native | 0.5 | 0.3 |
| NE-11 | Podolepis | gracilis | | | Native | + | 0.1 |

| NE-11 Styl NE-11 Styl NE-11 Trac | vlidium vlidium achymene nthorrhoea | urvillei piliferum violaceum pilosa | | | Native Native | 1.5 | 0.1 |
|--|-------------------------------------|-------------------------------------|--------|-----------|------------------|------|------|
| NE-11 Styl | rlidium achymene nthorrhoea | violaceum | | | Native | | |
| NE-11 Trac | achymene nthorrhoea | | | | 1144170 | + | 0.1 |
| | nthorrhoea | pilosa | | | Native | + | 0.1 |
| NE-11 Xan | | | | | Native | + | 0.1 |
| | | preissii | | | Native | 4 | 1-2 |
| NE-11 Xan | nthosia | huegelii | | | Native | + | 0.1 |
| NE-11 Xylo | lomelum | occidentale | | | Native | - | - |
| NE-12 *Arc | rctotheca | calendula | | | Introduced | + | 0.1 |
| NE-12 *Hy | ypochaeris | glabra | | | Introduced | 0.25 | 0.1 |
| NE-12 *Vu | ulpia | bromoides | | | Introduced | 0.5 | 0.1 |
| NE-12 Aca | acia | applanata | | | Native | + | 0.2 |
| NE-12 Aca | acia | extensa | | | Native | 0.5 | 1.5 |
| NE-12 Allo | ocasuarina | fraseriana | | | Native | 1 | 4-8 |
| NE-12 Bos | ssiaea | eriocarpa | | | Native | + | 0.1 |
| NE-12 Cala | ladenia | reptans | | | Native | + | 0.1 |
| NE-12 Cha | amaescilla | corymbosa | | | Native | + | 0.1 |
| NE-12 Cra | aspedia | variabilis | | | Native | + | 0.2 |
| NE-12 Das | sypogon | bromeliifolius | | | Native | 25 | 0.3 |
| NE-12 Des | smocladus | fasciculatus | | | Native | 8 | 0.1 |
| NE-12 Dro | osera | glanduligera | | | Native | + | 0.05 |
| NE-12 Dro | osera | huegelii | | | Native | + | 0.2 |
| NE-12 Dro | osera | pallida | | | Native | + | CI |
| NE-12 Elyt | rthranthera | brunonis | | | Native | + | 0.3 |
| NE-12 Euc | calyptus | marginata | subsp. | marginata | Native | 8 | 6-30 |
| NE-12 Gor | mpholobium | marginatum | | | Native | + | 0.1 |
| NE-12 Hibl | obertia | diamesogenos | | | Native | + | 0.1 |
| NE-12 Hibl | obertia | vaginata | | | Native | 1 | 0.3 |
| NE-12 Hov | vea | trisperma | | | Native | + | 0.2 |
| NE-12 Hyd | drocotyle | callicarpa | | | Native | + | 0.05 |
| NE-12 Hyp | pocalymma | angustifolium | | | Native | + | 0.3 |
| NE-12 Hyp | polaena | exsulca | | | Native | 0.5 | 0.3 |
| NE-12 Lev | venhookia | pusilla | | | Native | + | 0.05 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-12 | Lomandra | caespitosa | | | Native | + | 0.2 |
| NE-12 | Lomandra | nigricans | | | Native | + | 0.2 |
| NE-12 | Lomandra | preissii | | | Native | + | 0.4 |
| NE-12 | Lomandra | sericea | | | Native | + | 0.2 |
| NE-12 | Lyginia | imberbis | | | Native | 4 | 0.5 |
| NE-12 | Melaleuca | preissiana | | | Native | 6 | 4-8 |
| NE-12 | Millotia | tenuifolia | | | Native | 0.5 | 0.1 |
| NE-12 | Nuytsia | floribunda | | | Native | 2 | 4-8 |
| NE-12 | Podolepis | gracilis | | | Native | + | 0.1 |
| NE-12 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-12 | Quinetia | urvillei | | | Native | 0.5 | 0.1 |
| NE-12 | Stylidium | diversifolium | | | Native | + | 0.1 |
| NE-12 | Stylidium | violaceum | | | Native | + | 0.1 |
| NE-12 | Trachymene | pilosa | | | Native | 0.5 | 0.1 |
| NE-12 | Xanthorrhoea | preissii | | | Native | 4 | 1-3 |
| NE-12 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-13 | *Hypochaeris | glabra | | | Introduced | + | 0.05 |
| NE-13 | *Vulpia | bromoides | | | Introduced | + | 0.1 |
| NE-13 | Allocasuarina | fraseriana | | | Native | 55 | 5-25 |
| NE-13 | Banksia | attenuata | | | Native | 15 | 3-15 |
| NE-13 | Bossiaea | eriocarpa | | | Native | + | 0.2 |
| NE-13 | Burchardia | congesta | | | Native | + | 0.3 |
| NE-13 | Caladenia | discoidea | | | Native | + | 0.2 |
| NE-13 | Calytrix | flavescens | | | Native | 3 | 0.4 |
| NE-13 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-13 | Conostylis | setigera | | | Native | + | 0.1 |
| NE-13 | Dasypogon | bromeliifolius | | | Native | 40 | 0.3 |
| NE-13 | Desmocladus | fasciculatus | | | Native | 1 | 0.1 |
| NE-13 | Drosera | erythrorhiza | | | Native | + | 0.05 |
| NE-13 | Drosera | pallida | | | Native | + | Cl |
| NE-13 | Drosera | stolonifera | | | Native | + | 0.1 |
| NE-13 | Eucalyptus | marginata | subsp. | marginata | Native | 5 | 15-30 |

| NE-13 | Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|--|-------|---------------|---------------|------------|------------|-------------------|----------------|-------------|
| NE-13 Lepidosperma Squamatum Native + 0.4 | NE-13 | Hibbertia | vaginata | | | Native | 2 | 0.4 |
| NE-13 Leporella | NE-13 | Hydrocotyle | callicarpa | | | Native | + | 0.1 |
| NE-13 Lomandra caespitosa Native + 0.2 NE-13 Lomandra hermaphrodita Native + 0.2 NE-13 Lomandra sericea Native + 0.3 NE-13 Millotia tenufolia Native + 0.1 NE-13 Persoonia longifolia Native 3 3-5 NE-13 Petrophile linearis Native 0.5 0.3 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phyllangium divergens Native + 0.1 NE-13 Podotheca angustifolia Native + 0.1 NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Stylidium aracophyllum Native | NE-13 | Lepidosperma | squamatum | | | Native | + | 0.4 |
| NE-13 Lomandra hermaphrodita Native + 0.2 NE-13 Lomandra sericea Native + 0.3 NE-13 Millotia tenuifolia Native + 0.1 NE-13 Personia longifolia Native 3 3-5 NE-13 Petrophile linearis Native 0.5 0.3 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phyllangium divergens Native + 0.1 NE-13 Pylorochis nigicans Native + 0.1 NE-13 Pyrorchis nigicans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.1 NE-13 Styphelia tenuiflora Native | NE-13 | Leporella | fimbriata | | | Native | + | 0.05 |
| NE-13 | NE-13 | Lomandra | caespitosa | | | Native | + | 0.2 |
| NE-13 Millotia tenufolia Native + 0.1 NE-13 Persoonia longifolia Native 3 3.5 NE-13 Petrophile linearis Native 0.5 0.3 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phydracyllam Native + 0.1 NE-13 Pytorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Stylphelia tenuiflora Native + 0.1 NE-13 Stylphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native + 0.1 NE-13 Xanthosia huegelii Native + 0.1 | NE-13 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-13 Personia longifolia Native 3 3-5 NE-13 Petrophile linearis Native 0.5 0.3 NE-13 Phyllangium divergens Native + 0.1 NE-13 Phydotheca angustifolia Native + 0.1 NE-13 Pyorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native + 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 1 0.1 NE-14 Alcoasuarina fraseinana Native | NE-13 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-13 Petrophile linearis Native 0.5 0.3 NE-13 Phyllangium divergens Native + 0.1 NE-13 Podotheca angustifolia Native + 0.1 NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.1 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native + 0.1 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native <td>NE-13</td> <td>Millotia</td> <td>tenuifolia</td> <td></td> <td></td> <td>Native</td> <td>+</td> <td>0.1</td> | NE-13 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-13 Phyllangium divergens Native + 0.1 NE-13 Podotheca angustifolia Native + 0.1 NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.1 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea | NE-13 | Persoonia | longifolia | | | Native | 3 | 3-5 |
| NE-13 Podotheca angustifolia Native + 0.1 NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native + 0.1 NE-13 Xylomelum occidentale Native + 0.1 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Bossiaea ornata Native 5 0.2 NE-14 Bossiaea ornata Native <td< td=""><td>NE-13</td><td>Petrophile</td><td>linearis</td><td></td><td></td><td>Native</td><td>0.5</td><td>0.3</td></td<> | NE-13 | Petrophile | linearis | | | Native | 0.5 | 0.3 |
| NE-13 Pyrorchis nigricans Native + 0.1 NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native 10 1.5-8 NE-14 Allocasuarina fraseriana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Desmocladus <td>NE-13</td> <td>Phyllangium</td> <td>divergens</td> <td></td> <td></td> <td>Native</td> <td>+</td> <td>0.1</td> | NE-13 | Phyllangium | divergens | | | Native | + | 0.1 |
| NE-13 Rhodanthe citrina Native + 0.1 NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native + 0.1 NE-14 Desmocladus | NE-13 | Podotheca | angustifolia | | | Native | + | 0.1 |
| NE-13 Stylidium araeophyllum Native + 0.1 NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera | NE-13 | Pyrorchis | nigricans | | | Native | + | 0.1 |
| NE-13 Styphelia tenuiflora Native + 0.3 NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Eriochilus <td>NE-13</td> <td>Rhodanthe</td> <td>citrina</td> <td></td> <td></td> <td>Native</td> <td>+</td> <td>0.1</td> | NE-13 | Rhodanthe | citrina | | | Native | + | 0.1 |
| NE-13 Trachymene pilosa Native 0.5 0.1 NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native 15 10-25 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Drosera marchantii Native + 0.2 NE-14 Eriochilus dilatatus Native + 0.1 NE-14 Gompholobium <td>NE-13</td> <td>Stylidium</td> <td>araeophyllum</td> <td></td> <td></td> <td>Native</td> <td>+</td> <td>0.1</td> | NE-13 | Stylidium | araeophyllum | | | Native | + | 0.1 |
| NE-13 Xanthosia huegelii Native + 0.1 NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native 15 10-25 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Drosera marchantii Native + 0.2 NE-14 Eriochilus dilatatus Native + 0.1 NE-14 Eucalyptus marginata subsp. marginata Native + 0.3 <tr< td=""><td>NE-13</td><td>Styphelia</td><td>tenuiflora</td><td></td><td></td><td>Native</td><td>+</td><td>0.3</td></tr<> | NE-13 | Styphelia | tenuiflora | | | Native | + | 0.3 |
| NE-13 Xylomelum occidentale Native 10 1.5-8 NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native 15 10-25 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Drosera marchantii Native + 0.2 NE-14 Eriochilus dilatatus Native + 0.1 NE-14 Gompholobium knightianum Native + 0.3 | NE-13 | Trachymene | pilosa | | | Native | 0.5 | 0.1 |
| NE-14 Acacia preissiana Native + 0.1 NE-14 Allocasuarina fraseriana Native 2 4-8 NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native 15 10-25 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Drosera marchantii Native + 0.2 NE-14 Eriochilus dilatatus Native + 0.1 NE-14 Eucalyptus marginata subsp. marginata Native + 0.3 NE-14 Gompholobium knightianum Native + 0.3 | NE-13 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-14AllocasuarinafraserianaNative24-8NE-14Banksiadallanneyisubsp.sylvestrisNative50.2NE-14BossiaeaormataNative1.50.3NE-14CorymbiacalophyllaNative1510-25NE-14DesmocladusfasciculatusNative+0.1NE-14DroseraerythrorhizaNative+0.1NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-13 | Xylomelum | occidentale | | | Native | 10 | 1.5-8 |
| NE-14 Banksia dallanneyi subsp. sylvestris Native 5 0.2 NE-14 Bossiaea ornata Native 1.5 0.3 NE-14 Corymbia calophylla Native 15 10-25 NE-14 Desmocladus fasciculatus Native + 0.1 NE-14 Drosera erythrorhiza Native + 0.1 NE-14 Drosera marchantii Native + 0.2 NE-14 Eriochilus dilatatus Native + 0.1 NE-14 Eucalyptus marginata subsp. marginata Native 55 10-30 NE-14 Gompholobium knightianum Native + 0.3 | NE-14 | Acacia | preissiana | | | Native | + | 0.1 |
| NE-14BossiaeaornataNative1.50.3NE-14CorymbiacalophyllaNative1510-25NE-14DesmocladusfasciculatusNative+0.1NE-14DroseraerythrorhizaNative+0.1NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Allocasuarina | fraseriana | | | Native | 2 | 4-8 |
| NE-14CorymbiacalophyllaNative1510-25NE-14DesmocladusfasciculatusNative+0.1NE-14DroseraerythrorhizaNative+0.1NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Banksia | dallanneyi | subsp. | sylvestris | Native | 5 | 0.2 |
| NE-14DesmocladusfasciculatusNative+0.1NE-14DroseraerythrorhizaNative+0.1NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Bossiaea | ornata | | | Native | 1.5 | 0.3 |
| NE-14DroseraerythrorhizaNative+0.1NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Corymbia | calophylla | | | Native | 15 | 10-25 |
| NE-14DroseramarchantiiNative+0.2NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Desmocladus | fasciculatus | | | Native | + | 0.1 |
| NE-14EriochilusdilatatusNative+0.1NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-14Eucalyptusmarginatasubsp.marginataNative5510-30NE-14GompholobiumknightianumNative+0.3 | NE-14 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-14 Gompholobium knightianum Native + 0.3 | NE-14 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| | NE-14 | Eucalyptus | marginata | subsp. | marginata | Native | 55 | 10-30 |
| NE-14 Hibbertia amplexicaulis + 0.2 | NE-14 | Gompholobium | knightianum | | | Native | + | 0.3 |
| | NE-14 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-14 Hibbertia hypericoides Native 40 0.5 | NE-14 | Hibbertia | hypericoides | | | Native | 40 | 0.5 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-14 | Hibbertia | semipilosa | | | Native | 2 | 0.35 |
| NE-14 | Labichea | punctata | | | Native | + | 0.2 |
| NE-14 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-14 | Lomandra | sericea | | | Native | + | 0.4 |
| NE-14 | Lomandra | | cf. | preissii | Native | + | 0.5 |
| NE-14 | Morelotia | octandra | | | Native | + | 0.2 |
| NE-14 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 0.5 | 0.3 |
| NE-14 | Patersonia | babianoides | | | Native | + | 0.1 |
| NE-14 | Stylidium | amoenum | | | Native | + | 0.05 |
| NE-14 | Stylidium | plantagineum | | | Native | + | 0.3 |
| NE-14 | Styphelia | erectifolia | | | Native | + | 0.1 |
| NE-14 | Xanthorrhoea | preissii | | | Native | 3 | 1-2 |
| NE-14 | Xanthosia | singuliflora | | | Native | + | 0.1 |
| NE-15 | *Hypochaeris | glabra | | | Introduced | + | 0.05 |
| NE-15 | Acacia | preissiana | | | Native | + | 0.1 |
| NE-15 | Allocasuarina | fraseriana | | | Native | 8 | 5-15 |
| NE-15 | Banksia | dallanneyi | subsp. | sylvestris | Native | 2 | 0.2 |
| NE-15 | Bossiaea | ornata | | | Native | 3 | 0.4 |
| NE-15 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-15 | Corymbia | calophylla | | | Native | 20 | 5-20 |
| NE-15 | Desmocladus | fasciculatus | | | Native | 1 | 0.1 |
| NE-15 | Drosera | erythrorhiza | | | Native | + | 0.1 |
| NE-15 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-15 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-15 | Eucalyptus | marginata | subsp. | marginata | Native | 40 | 5-25 |
| NE-15 | Hibbertia | hypericoides | | | Native | 35 | 0.5 |
| NE-15 | Hovea | chorizemifolia | | | Native | + | 0.1 |
| NE-15 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-15 | Labichea | punctata | | | Native | + | 0.1 |
| NE-15 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-15 | Leucopogon | capitellatus | | | Native | 1.5 | 0.4 |
| NE-15 | Levenhookia | pusilla | | | Native | + | 0.05 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-15 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-15 | Lomandra | | cf. | preissii | Native | + | 0.4 |
| NE-15 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-15 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 0.5 | 0.4 |
| NE-15 | Opercularia | apiciflora | | | Native | + | 0.2 |
| NE-15 | Patersonia | babianoides | | | Native | + | 0.1 |
| NE-15 | Scaevola | calliptera | | | Native | + | 0.1 |
| NE-15 | Stylidium | piliferum | | | Native | + | 0.05 |
| NE-15 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-15 | Xanthorrhoea | gracilis | | | Native | + | 0.5 |
| NE-15 | Xanthorrhoea | preissii | | | Native | 1 | 1-2.5 |
| NE-16 | *Hypochaeris | glabra | | | Introduced | + | 0.05 |
| NE-16 | Allocasuarina | fraseriana | | | Native | 8 | 5-10 |
| NE-16 | Banksia | grandis | | | Native | 1.5 | 3-6 |
| NE-16 | Billardiera | variifolia | | | Native | + | CI |
| NE-16 | Bossiaea | eriocarpa | | | Native | 2 | 0.4 |
| NE-16 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-16 | Corymbia | calophylla | | | Native | 15 | 10-25 |
| NE-16 | Cyanicula | sericea | | | Native | + | 0.3 |
| NE-16 | Cyrtostylis | robusta | | | Native | + | 0.05 |
| NE-16 | Desmocladus | fasciculatus | | | Native | 0.5 | 0.1 |
| NE-16 | Drosera | erythrorhiza | | | Native | + | 0.05 |
| NE-16 | Drosera | pallida | | | Native | + | CI |
| NE-16 | Eucalyptus | marginata | subsp. | marginata | Native | 40 | 10-25 |
| NE-16 | Gompholobium | knightianum | | | Native | + | 0.2 |
| NE-16 | Gompholobium | ovatum | | | Native | + | 0.1 |
| NE-16 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-16 | Hibbertia | hypericoides | | | Native | 20 | <0.5 |
| NE-16 | Hibbertia | semipilosa | | | Native | 1 | 0.3 |
| NE-16 | Hovea | chorizemifolia | | | Native | + | 0.2 |
| NE-16 | Labichea | punctata | | | Native | + | 0.1 |
| NE-16 | Lagenophora | huegelii | | | Native | + | 0.1 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-16 | Lechenaultia | biloba | | | Native | + | 0.2 |
| NE-16 | Leucopogon | capitellatus | | | Native | 7 | 0.3 |
| NE-16 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-16 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 1.5 | 0.4 |
| NE-16 | Patersonia | babianoides | | | Native | + | 0.2 |
| NE-16 | Persoonia | longifolia | | | Native | + | 1 |
| NE-16 | Pterostylis | | sp. | indet | Native | + | 0.2 |
| NE-16 | Stylidium | piliferum | | | Native | + | 0.1 |
| NE-16 | Stylidium | plantagineum | | | Native | 0.5 | 0.4 |
| NE-16 | Styphelia | tenuiflora | | | Native | 0.5 | 0.4 |
| NE-16 | Thysanotus | patersonii | | | Native | + | Cl |
| NE-16 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-16 | Xanthosia | singuliflora | | | Native | + | 0.1 |
| NE-16 | Xylomelum | occidentale | | | Native | 1 | 2-5 |
| NE-17 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-17 | *Hypochaeris | glabra | | | Introduced | + | 0.1 |
| NE-17 | Allocasuarina | fraseriana | | | Native | 20 | 10-20 |
| NE-17 | Babingtonia | camphorosmae | | | Native | 2 | 0.3 |
| NE-17 | Bossiaea | eriocarpa | | | Native | + | 0.3 |
| NE-17 | Bossiaea | ornata | | | Native | + | 0.3 |
| NE-17 | Calytrix | flavescens | | | Native | 4 | 0.3 |
| NE-17 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-17 | Corymbia | calophylla | | | Native | 5 | 10-20 |
| NE-17 | Dampiera | linearis | | | Native | + | 0.1 |
| NE-17 | Dasypogon | bromeliifolius | | | Native | 25 | 0.3 |
| NE-17 | Desmocladus | fasciculatus | | | Native | 5 | 0.1 |
| NE-17 | Drosera | marchantii | | | Native | + | 0.2 |
| NE-17 | Drosera | stolonifera | | | Native | + | 0.1 |
| NE-17 | Eucalyptus | marginata | subsp. | marginata | Native | 20 | 10-25 |
| NE-17 | Hibbertia | hypericoides | | | Native | 5 | 0.5 |
| NE-17 | Hydrocotyle | callicarpa | | | Native | + | 0.05 |
| NE-17 | Hypolaena | exsulca | | | Native | + | 0.3 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-17 | Lomandra | hermaphrodita | | | Native | + | 0.2 |
| NE-17 | Lyginia | imberbis | | | Native | 2 | 0.5 |
| NE-17 | Millotia | tenuifolia | | | Native | 0.5 | 0.1 |
| NE-17 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | + | 0.3 |
| NE-17 | Phlebocarya | ciliata | | | Native | 1 | 0.3 |
| NE-17 | Pterostylis | | sp. | indet. | Native | + | 0.1 |
| NE-17 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-17 | Xanthorrhoea | preissii | | | Native | 15 | 1-2 |
| NE-17 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-17 | Xylomelum | occidentale | | | Native | + | 0.5-1 |
| NE-18 | *Ehrharta | longiflora | | | Introduced | 1 | 0.1 |
| NE-18 | *Hypochaeris | glabra | | | Introduced | 4 | 0.1 |
| NE-18 | *Romulea | rosea | | | Introduced | 0.5 | 0.2 |
| NE-18 | *Trifolium | subterraneum | | | Introduced | 1 | 0.1 |
| NE-18 | *Ursinia | anthemoides | | | Introduced | 1 | 0.2 |
| NE-18 | *Vulpia | bromoides | | | Introduced | 4 | 0.1 |
| NE-18 | Allocasuarina | fraseriana | | | Native | 5 | 5-15 |
| NE-18 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-18 | Corymbia | calophylla | | | Native | 10 | 10-25 |
| NE-18 | Daucus | glochidiatus | | | Native | + | 0.1 |
| NE-18 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-18 | Eucalyptus | marginata | subsp. | marginata | Native | 55 | 10-25 |
| NE-18 | Gompholobium | ovatum | | | Native | + | 0.1 |
| NE-18 | Gompholobium | preissii | | | Native | + | 0.1 |
| NE-18 | Haemodorum | laxum | | | Native | + | 0.3 |
| NE-18 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-18 | Hovea | chorizemifolia | | | Native | + | 0.15 |
| NE-18 | Kennedia | coccinea | | | Native | 0.5 | Cr |
| NE-18 | Kennedia | prostrata | | | Native | - | - |
| NE-18 | Levenhookia | pusilla | | | Native | + | 0.05 |
| NE-18 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-18 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | + | 0.3 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|---------------|------------|------------|-------------------|----------------|-------------|
| NE-18 | Opercularia | hispidula | | | Native | 0.5 | 0.3 |
| NE-18 | Stylidium | piliferum | | | Native | + | 0.1 |
| NE-18 | Tetrarrhena | laevis | | | Native | + | 0.2 |
| NE-18 | Thysanotus | patersonii | | | Native | + | CI |
| NE-18 | Trachymene | pilosa | | | Native | 1 | 0.1 |
| NE-18 | Trymalium | ledifolium | | | Native | 0.5 | 0.5 |
| NE-19 | *Briza | minor | | | Introduced | + | 0.1 |
| NE-19 | *Disa | bracteata | | | Introduced | + | 0.15 |
| NE-19 | *Ehrharta | longiflora | | | Introduced | 3 | 0.1 |
| NE-19 | *Hypochaeris | glabra | | | Introduced | 6 | 0.1 |
| NE-19 | *Lolium | rigidum | | | Introduced | + | 0.3 |
| NE-19 | *Lotus | subbiflorus | | | Introduced | + | 0.1 |
| NE-19 | *Romulea | rosea | | | Introduced | + | 0.2 |
| NE-19 | *Trifolium | subterraneum | | | Introduced | 3 | 0.1 |
| NE-19 | *Ursinia | anthemoides | | | Introduced | 3 | 0.2 |
| NE-19 | *Vulpia | bromoides | | | Introduced | 6 | 0.1 |
| NE-19 | Allocasuarina | fraseriana | | | Native | 5 | <10 |
| NE-19 | Caladenia | flava | subsp. | flava | Native | + | 0.1 |
| NE-19 | Caladenia | reptans | | | Native | + | 0.15 |
| NE-19 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-19 | Corymbia | calophylla | | | Native | 30 | 15-25 |
| NE-19 | Cyanicula | sericea | | | Native | + | 0.3 |
| NE-19 | Daucus | glochidiatus | | | Native | 0.5 | 0.1 |
| NE-19 | Drosera | pallida | | | Native | + | CI |
| NE-19 | Eucalyptus | marginata | subsp. | marginata | Native | 40 | 1530 |
| NE-19 | Hakea | lissocarpha | | | Native | - | - |
| NE-19 | Isolepis | cernua | var. | setiformis | Native | + | 0.1 |
| NE-19 | Luzula | meriodionalis | | | Native | 0.5 | 0.2 |
| NE-19 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-19 | Trachymene | pilosa | | | Native | + | 0.1 |
| NE-20 | *Arctotheca | calendula | | | Introduced | + | 0.1 |
| NE-20 | *Ehrharta | longiflora | | | Introduced | 0.5 | 0.1 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-20 | *Hypochaeris | glabra | | | Introduced | 2 | 0.1 |
| NE-20 | *Oxalis | | sp. | indet. | Introduced | 1 | 0.1 |
| NE-20 | *Romulea | rosea | | | Introduced | + | 0.15 |
| NE-20 | *Solanum | nigrum | | | Introduced | + | 0.4 |
| NE-20 | *Trifolium | subterraneum | | | Introduced | 1.5 | 0.1 |
| NE-20 | *Ursinia | anthemoides | | | Introduced | 2.5 | 0.2 |
| NE-20 | *Vulpia | bromoides | | | Introduced | 2 | 0.1 |
| NE-20 | Allocasuarina | fraseriana | | | Native | 1.5 | 5-10 |
| NE-20 | Caladenia | flava | subsp. | flava | Native | + | 0.2 |
| NE-20 | Caladenia | reptans | | | Native | + | 0.15 |
| NE-20 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-20 | Corymbia | calophylla | | | Native | 10 | 10-20 |
| NE-20 | Daucus | glochidiatus | | | Native | 0.5 | 0.1 |
| NE-20 | Drosera | erythrorhiza | | | Native | + | 0.05 |
| NE-20 | Drosera | pallida | | | Native | + | Cl |
| NE-20 | Eucalyptus | marginata | subsp. | marginata | Native | 50 | 15-30 |
| NE-20 | Haemodorum | laxum | | | Native | + | 0.4 |
| NE-20 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-20 | Levenhookia | pusilla | | | Native | + | 0.05 |
| NE-20 | Millotia | tenuifolia | | | Native | + | 0.1 |
| NE-20 | Senecio | quadridentatus | | | Native | + | 0.4 |
| NE-20 | Stylidium | piliferum | | | Native | + | 0.1 |
| NE-20 | Thysanotus | patersonii | | | Native | + | Cl |
| NE-21 | Acacia | preissiana | | | Native | + | 0.05 |
| NE-21 | Allocasuarina | fraseriana | | | Native | 12 | 5-15 |
| NE-21 | Banksia | bipinnatifida | | | Native | + | 0.2 |
| NE-21 | Banksia | grandis | | | Native | + | 1-5 |
| NE-21 | Billardiera | variifolia | | | Native | + | 0.3 |
| NE-21 | Bossiaea | ornata | | | Native | + | 0.3 |
| NE-21 | Caladenia | flava | subsp. | flava | Native | + | 0.1 |
| NE-21 | Chamaescilla | corymbosa | | | Native | + | 0.1 |
| NE-21 | Dampiera | linearis | | | Native | + | 0.1 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|--------------|---------------|------------|-------------------------------|-------------------|----------------|-------------|
| NE-21 | Desmocladus | fasciculatus | | | Native | + | 0.1 |
| NE-21 | Drosera | erythrorhiza | | | Native | + | 0.01 |
| NE-21 | Drosera | huegelii | | | Native | + | Cl |
| NE-21 | Drosera | pallida | | | Native | + | CI |
| NE-21 | Eriochilus | dilatatus | | | Native | + | 0.1 |
| NE-21 | Eucalyptus | marginata | subsp. | marginata | Native | 20 | 5-30 |
| NE-21 | Haemodorum | laxum | | | Native | + | 0.2 |
| NE-21 | Hakea | lissocarpha | | | Native | + | 1.1 |
| NE-21 | Hibbertia | amplexicaulis | | | Native | + | 0.2 |
| NE-21 | Hibbertia | commutata | | | Native | + | 0.3 |
| NE-21 | Hibbertia | hypericoides | | | Native | 20 | 0.5 |
| NE-21 | Kunzea | glabrescens | | | Native | + | 2 |
| NE-21 | Labichea | punctata | | | Native | + | 0.2 |
| NE-21 | Lagenophora | huegelii | | | Native | + | 0.1 |
| NE-21 | Lepidosperma | leptostachyum | | | Native | + | 0.5 |
| NE-21 | Lomandra | nigricans | | | Native | + | 0.1 |
| NE-21 | Lomandra | sericea | | | Native | + | 0.3 |
| NE-21 | Macrozamia | riedlei | | | Native | + | 1.2 |
| NE-21 | Netrostylis | | sp. | Jarrah Forest (R. Davis 7391) | Native | 5 | 0.5 |
| NE-21 | Opercularia | apiciflora | | | Native | + | 0.2 |
| NE-21 | Persoonia | longifolia | | | Native | + | 0.5 |
| NE-21 | Pterostylis | | sp. | indet | Native | + | 0.15 |
| NE-21 | Scaevola | calliptera | | | Native | + | 0.1 |
| NE-21 | Stylidium | amoenum | | | Native | + | 0.1 |
| NE-21 | Stylidium | piliferum | | | Native | + | 0.1 |
| NE-21 | Styphelia | discolor | | | Native | + | 0.05 |
| NE-21 | Styphelia | pallida | | | Native | + | 0.1 |
| NE-21 | Styphelia | propinqua | | | Native | + | 0.4 |
| NE-21 | Styphelia | tenuiflora | | | Native | + | 0.2 |
| NE-21 | Tetrarrhena | laevis | | | Native | + | 0.5 |
| NE-21 | Trachymene | pilosa | | | Native | + | 0.05 |
| NE-21 | Trymalium | ledifolium | | | Native | + | 0.2 |

| Site | Genus | Species | Infra Rank | Infra Name | Introduced/Native | % Foliar Cover | Height (cm) |
|-------|---------------|----------------|------------|------------|-------------------|----------------|-------------|
| NE-21 | Xanthorrhoea | preissii | | | Native | + | 1.5 |
| NE-21 | Xanthosia | candidia | | | Native | + | 0.05 |
| NE-21 | Xanthosia | huegelii | | | Native | + | 0.1 |
| NE-22 | Allocasuarina | fraseriana | | | Native | 0.5 | 4 |
| NE-22 | Banksia | attenuata | | | Native | 0.5 | 5 |
| NE-22 | Dasypogon | bromeliifolius | | | Native | 0.5 | 0.5 |
| NE-22 | Democladus | fasciculatus | | | Native | + | 0.1 |
| NE-22 | Eucalyptus | marginata | subsp. | marginata | Native | + | 4 |
| NE-22 | Hibbertia | hypericoides | | | Native | + | 0.2 |
| NE-22 | Kunzea | glabrescens | | | Native | 45 | 2-6 |
| NE-22 | Lyginia | imberbis | | | Native | + | 0.3 |
| NE-22 | Xylomelum | occidentale | | | Native | 1 | 4 |
| NE-23 | Bossiaea | eriocarpa | | | Native | + | 0.2 |
| NE-23 | Gompholobium | tomentosum | | | Native | + | 0.3 |
| NE-23 | Hypocalymma | angustifolium | | | Native | + | 0.5 |
| NE-23 | Kunzea | glabrescens | | | Native | 50 | 5 |
| NE-23 | Lyginia | imberbis | | | Native | + | 0.4 |
| NE-24 | *Aira | cupaniana | | | Introduced | + | 0.15 |
| NE-24 | *Hypochaeris | glabra | | | Introduced | 2 | 1.5 |
| NE-24 | Adenanthos | obovatus | | | Native | + | 0.5 |
| NE-24 | Dasypogon | bromeliifolius | | | Native | + | 1 |
| NE-24 | Democladus | fasciculatus | | | Native | + | 1 |
| NE-24 | Hypocalymma | angustifolium | | | Native | + | 2 |
| NE-24 | Kunzea | glabrescens | | | Native | | |
| NE-24 | Kunzea | recurva | | | Native | 15 | 3 |
| NE-24 | Mesomelaena | tetragona | | | Native | + | 1 |
| NE-24 | Nuytsia | floribunda | | | Native | + | 1.5 |
| NE-24 | Podolepis | gracilis | | | Native | + | 0.2 |
| NE-24 | Tricoryne | elatior | | | Native | + | 0.2 |
| NE-24 | Xanthorrhoea | preissii | | | Native | + | 2 |















































