# Appendix 31 Short-range Endemic Invertebrate Fauna Survey – Myara North and Holyoake

PHOENIX
ENVIRONMENTAL SCIENCES

# Alcoa of Australia Limited

# Pinjarra Alumina Refinery Revised Proposal

## Short-range endemic invertebrate fauna survey for the Huntly Mine – Myara North and Holyoake

Prepared for GHD Pty Ltd, on behalf of Alcoa of Australia Ltd

August 2021

Final

Short-range endemic invertebrate fauna survey for the Huntly Mine – Myara North and Holyoake
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# EXECUTIVE SUMMARY

Alcoa of Australia Limited (Alcoa) is proposing to increase production at the Pinjarra Alumina Refinery by 5 per cent from 5.0 million tonnes per annum (Mtpa) to 5.25 Mtpa and transition the Huntly Bauxite Mine to the proposed Myara North and Holyoake mine regions (the Proposal). The Proposal is located in the Peel Region of Western Australia (WA), approximately 100 km southeast of Perth.

The Proposal will be subject to environmental impact assessment under Part IV of the WA *Environmental Protection Act 1986* (EP Act), and the *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). The environmental impact assessment will be via a Public Environmental Review (PER).

Phoenix Environmental Sciences Pty Ltd (Phoenix) was commissioned by GHD Pty Ltd, on behalf of Alcoa to undertake a short-range endemic (SRE) invertebrate survey for the Proposal.

The SRE survey was conducted within three main study areas relating to the two future mine regions, and previously mined areas that have been rehabilitated:

- Myara North study area (MNSA), 17,675.2 ha, located south-east of the town of Jarrahdale in the Shire of Serpentine Jarrahdale
- Holyoake study area (HSA), 10,456.9 ha, located east of town of Dwellingup in the Shire of Murray, and extending into the Shire of Boddington
- Rehabilitation study area (ReSA), 11,894.7 ha, comprising previously mined and subsequently rehabilitated land at the Huntly Mine site between 1973 and 2019.

Field surveys were conducted over two seasons, between July and November 2020. Survey sites for the MNSA and HSA (collectively referred to as the baseline study area) were pre-selected using aerial imagery and were chosen to represent the various habitats present and sample both potential impact and reference areas. Sites in the ReSA were selected to sample a range of rehabilitation age classes between 5 and 30 years. Three systematic survey methods were employed in the survey – wet pit trapping, active foraging and litter/soil sieving – at 72 sites across the study areas, 60 within the baseline study area and 12 within the ReSA (two of these also intersected a proposed conveyor corridor in the HSA).

SRE habitat mapping of the Myara North and Holyoake study areas was undertaken based on vegetation mapping prepared for the Proposal by Mattikse (Mattiske 2021) and taking into account habitat attributes relevant to SRE invertebrates. Each habitat was rated for its potential to support SREs (potential habitat rating; PHR) as High, Low or None.

Native vegetation represents 27,128.8 ha (96.4%) of the baseline study area, with the remainder cleared or rehabilitation. Ten SRE habitats were defined within the remnant vegetation of the baseline study area, which was dominated by Jarrah/Marri woodland/forest habitats on hill slopes (habitats 2, 4, 5 and 7). Habitat 4, Open forest to woodland of Jarrah/Marri on sandy-loam gravelly soils on mid-slopes and ridges, was most prominent in the MNSA and HSA, comprising 64.5% and 80.0% of the study areas respectively. Other habitats present included: seasonally wet woodlands or shrublands (*Melaleuca*, Wandoo, Flooded Gum, *Eucalyptus*) on valley floors and lower slopes; granite outcrop associated heath/shrubland/woodland; and open Wandoo woodland on upper slopes.

Ten habitats were present within the MNSA and seven SRE habitats were present in the HSA. Notable habitats that were absent from the HSA were habitat 1 (*Melaleuca* woodlands/shrublands), 9 (*Eucalytpus* woodlands) and 11 (Open wandoo woodlands). Habitat 3 (granite associated vegetation) was minimal in HSA comprising less than 0.01%. Approximately 6,624.8 ha (23.5%) of the study area has a high PHR, with 26.8% and 18.1% in the MNSA and HSA respectively.

A total of 113 taxa from groups known to include SREs were collected in the field surveys and of these, 83 taxa (73%) from 19 families were classified as SREs, comprising:

- 10 confirmed SREs, represented by nine millipedes and one scorpion

- five likely SREs, all represented by isopods
- 68 potential SREs, represented by
    - 35 taxa of mygalomorphs (trap-door spiders)
    - 11 species of isopods (slaters)
    - seven species of diplopods (millipedes)
    - seven species of opiliones (harvestmen spiders)
    - five species of land snail
    - one species of scorpion
    - two species of pseudoscorpions.

A total of 24 of the SRE taxa, from three SRE groups, are currently known only from sites in the baseline study area, mainly the MNSA:

- mygalomorph spiders
    - *Aname* 'Phoenix0004', recorded from three sites in the MNSA
    - *Aname* 'Phoenix0010', three specimens collected from opportunistic collections in the HSA
    - *Aname* 'Phoenix0020', recorded from two sites within proposed conveyor corridors in the MNSA and HSA
    - *Anamidae* 'Phoenix009', recorded from one site in the MNSA
    - *Kwonkan* 'Phoenix005', recorded from one site in the MNSA
    - *Kwonkan* 'Phoenix008' recorded from one site in the MNSA
    - *Proshermacha* 'Phoenix0027', recorded from two sites in the MNSA
    - *Proshermacha* 'Phoenix0028', recorded from two sites in the MNSA
    - *Proshermacha* 'Phoenix0040', recorded from one site in the MNSA
    - *Teyl* 'Phoenix0019', recorded from one site in the MNSA
    - *Teyl* 'Phoenix0021', recorded from one site within the MNSA
    - *Synothele* 'Phoenix0016', recorded from six sites across the MNSA and HSA
    - *Eucyrtops* 'Phoenix0029', recorded from three sites in the MNSA
    - *Eucyrtops* 'Phoenix0030', recorded from one site in the MNSA
    - *Eucyrtops* 'Phoenix0032', recorded from three sites in the MNSA
    - *Euoplos* 'Phoenix0011', recorded from two sites in the MNSA
- millipedes
    - *Antichiropus* 'dwellingup', recorded from four sites across the MNSA and HSA
    - *Antichiropus* 'jarrah', recorded from three sites in the MNSA
    - *Antichiropus* 'mini', recorded from five sites across the MNSA and HSA
    - Dalodesmidae 'Phoenix0038', recorded from two sites in the MNSA
    - Polyzoniida 'Phoenix0040', recorded from one site in the MNSA
    - Polyzoniida 'Phoenix0041', recorded from two sites in the MNSA

  - Polyzoniida 'Phoenix0042', recorded from one site in the MNSA

- land snails
  - *Bothriembryon* cf. *indutus*, recorded from three sites in the MNSA.

Based on a review of site/habitat data and distribution of records, two of the above taxa, both millipedes are likely to be restricted:

- *Antichiropus* 'jarrah' was recorded from three sites in valley floors and lower slopes, two of these in association with drainage lines
- Polyzoniida 'Phoenix0041' was only recorded from gully sites with granite outcrops present

Ten were collected from only a single site limiting comments about habitat preference and distribution; four of these were collected from potentially restrictive habitats (valley floors, along drainage lines, gullies with granite outcrops), while six were collected from the widespread habitat. The remaining 12 are unlikely to be highly restricted as the species was collected from both study areas, from a variety of habitat types and/or wider distribution may be inferred from records of another representative of the genus.

Twenty-eight taxa from nine groups known to include SREs were collected from the ReSA during the surveys. This included 17 taxa considered likely or potential SREs, with isopods, land snails, mygalomorphs, opiliones and a land snail making up the SRE collection. All SRE taxa from rehabilitation sites were also recorded from the baseline study area. The number of invertebrate taxa from SRE groups and number of SRE taxa collected at each site was variable between rehabilitation age, with a slight tendency towards higher numbers in the 10 and 30-year age classes but below the averages of the baseline sites.

Some overlap of SRE species was identified between the MNSA and HSA, and between the MNSA/HSA records from a nearby large-scale SRE survey or other desktop sources, indicating wider distributions than the baseline study area. However, the survey results suggest at least some SRE invertebrates have narrow habitat preferences and potentially highly restricted distributions.

Overall, the MNSA is of higher value for SREs than the HSA, with greater diversity and abundance of SRE habitat features. This position is supported by the collection of a higher number SRE species overall from the MNSA and higher number of SREs known only from this study area. It is considered that the MNSA is more likely to harbour SREs with highly restricted distributions than the HSA.

# CONTENTS

Executive summary ..... ii
Contents ..... v
Abbreviations ..... 1
1 Introduction ..... 2
1.1 Background ..... 2
1.2 Scope of work ..... 2
1.3 Study area ..... 3
2 Legislative context ..... 6
2.1 Commonwealth ..... 6
2.2 State ..... 6
2.3 Overview of SRE invertebrates ..... 7
3 Existing environment ..... 8
3.1 Interim Biogeographic Regionalisation of Australia ..... 8
3.2 Land systems and surface geology ..... 8
3.3 Climate and weather ..... 12
3.4 Land use ..... 13
3.5 Conservation reserves, priority ecological communities and environmentally sensitive areas ..... 14
3.6 Hydrological values ..... 15
4 Methods ..... 19
4.1 Desktop review ..... 19
4.2 Habitat assessment and site selection ..... 20
4.3 Field survey ..... 20
4.3.1 Wet pit trapping ..... 21
4.3.2 Active foraging ..... 22
4.3.3 Litter/soil sieving ..... 22
4.3.4 Identification of SRE taxa ..... 27
4.3.5 Statistical analysis of survey effectiveness ..... 28
4.3.6 Survey personnel ..... 29
4.4 Survey limitations ..... 30
5 Results ..... 31
5.1 Desktop review ..... 31
5.1.1 Myara North ..... 31
5.1.2 Holyoake ..... 32
5.2 Field survey ..... 51
5.2.1 SRE habitats ..... 51
5.2.2 SRE records ..... 57
5.2.3 SRE taxa and fauna habitats ..... 74
5.3 Statistical analysis of survey completeness ..... 78

6 Discussion ..... 82
6.1 SRE taxa ..... 82
6.2 SRE habitats ..... 83
6.3 Survey completeness ..... 84
6.4 Comparison between MNSA and HSA ..... 84
6.5 Comparison between Huntly and Worsley studies ..... 85
6.6 Review of taxa known only from the baseline study area ..... 87
*6.6.1 Aname* ..... 87
*6.6.2 Kwonkan* ..... 87
*6.6.3 Proshermacha* ..... 87
*6.6.4 Teyl* ..... 88
*6.6.5 Synothele* ..... 88
*6.6.6 Eucyrtops* ..... 88
*6.6.7 Euoplos* ..... 88
*6.6.8 Antichiropus* ..... 88
6.6.9 Dalodesmidae ..... 89
6.6.10 Polyzoniida ..... 89
*6.6.11 Bothriembryon* ..... 89
6.7 Survey of rehabilitation areas ..... 94
6.8 Conclusion ..... 95
References ..... 96

## LIST OF FIGURES

Figure 1-1 Project location ..... 4
Figure 1-2 Study area ..... 5
Figure 3-1 Study area in relation to IBRA bioregions and subregions ..... 10
Figure 3-2 Land systems and surface geology in the study area ..... 11
Figure 3-3 Annual climate and weather data for Dwellingup (no. 009538) and mean monthly data preceding and during the survey (BoM 2021) ..... 12
Figure 3-4 Annual climate and weather data for Karnet (no. 009111) and mean monthly data for the 12 months preceding and during the survey (BoM 2021) ..... 13
Figure 3-5 Environmentally Sensitive Areas (ESAs), conservation reserves and priority ecological communities in the study area ..... 17
Figure 3-6 Hydrological values in the study area ..... 18
Figure 4-1 Survey site locations ..... 23
Figure 5-1 Desktop records of SRE invertebrates ..... 50
Figure 5-2 SRE habitats in the study area ..... 55
Figure 5-3 Field records of SRE and significant mygalomorph spiders ..... 67
Figure 5-4 Field records of SRE opiliones (harvest spiders) ..... 68
Figure 5-5 Field records of SRE scorpions and pseudoscorpions ..... 69
Figure 5-6 Field records of SRE millipedes ..... 70
Figure 5-7 Field records of SRE isopods ..... 71
Figure 5-8 Field records of SRE land snails ..... 72
Figure 5-9 Number of SRE invertebrate taxa present at rehabilitation sites ..... 73
Figure 5-10 Species accumulation curve for Mygalomorphae ..... 78
Figure 5-11 Species accumulation curve for Opiliones ..... 78

Figure 5-12 Species accumulation curve for Scorpiones ..... 79
Figure 5-13 Species accumulation curve for Pseudoscorpiones ..... 79
Figure 5-14 Species accumulation curve for Diplopoda ..... 80
Figure 5-15 Species accumulation curve for Isopoda ..... 80
Figure 5-16 Species accumulation curve for Mollusca ..... 81

## LIST OF TABLES

Table 2-1 Short-range endemic categories ..... 7
Table 3-1 Land systems and extent in baseline study area ..... 8
Table 3-2 Surface geology of the study area, extent by deposit type ..... 9
Table 3-3 Land uses of the study area ..... 13
Table 3-4 Conservation reserves, PECs and ESAs in the baseline study area ..... 15
Table 4-1 Database searches conducted for the desktop review ..... 19
Table 4-2 Survey reports included in the desktop review ..... 19
Table 4-3 Survey dates ..... 21
Table 4-4 Survey site locations per study area ..... 22
Table 4-5 Survey site locations and effort ..... 24
Table 4-6 Taxonomic specialists who identified the SRE invertebrates from the survey ..... 27
Table 4-7 Molecular sequencing of specimens per study area ..... 28
Table 4-8 Survey personnel ..... 29
Table 4-9 Consideration of potential survey limitations ..... 30
Table 5-1 Summary of SRE taxa from the desktop review ..... 32
Table 5-2 SRE and significant invertebrate taxa identified in the desktop review ..... 33
Table 5-3 Description of SRE habitats in the baseline study area and corresponding vegetation types ..... 52
Table 5-4 Extent of each SRE habitat in the study area ..... 53
Table 5-5 Specimens from SRE groups recorded in the field survey ..... 60
Table 5-6 SRE records by sample type ..... 66
Table 5-7 Summary of SRE taxa recorded in this survey with respect to fauna habitat ..... 75
Table 6-1 Summary of all SRE known taxa in the study area ..... 83
Table 6-2 SRE taxa within the MNSA and HSA ..... 85
Table 6-3 Comparison of Huntly and Worsley (Phoenix 2021a) studies ..... 85
Table 6-4 Common SRE taxa from the Huntly and Worsley studies ..... 86
Table 6-5 Review of SRE taxa known only from the baseline study area ..... 89

## LIST OF APPENDICES

Appendix 1 Site descriptions
Appendix 2 Site x Species matrix for Myara North Mining Area
Appendix 3 Site x species matrix for Holyoake Mining Area
Appendix 4 Site x species matrix for the conveyor corridors and haul roads
Appendix 5 Site x species matrix for the ReSA
Appendix 6 Site x species matrix comparison between study areas
Appendix 7 Survey records data (registration numbers, sample types, numbers and notes)

# ABBREVIATIONS

| | |
|---|---|
| ABARES | Australian Bureau of Agricultural and Resource Economics and Sciences |
| BC Act | *Biodiversity and Conservation Act 2016* |
| BoM | Bureau of Meteorology |
| CD | Conservation dependent |
| COI | Cytochrome oxidase subunit 1 |
| CR | Critically endangered |
| DBCA | Department of Biodiversity, Conservation and Attractions |
| DNA | Deoxyribonucleic acid |
| EIA | Environmental impact assessment |
| EN | Endangered |
| EP Act | *Environmental Protection Act 1986* |
| EPA | Environmental Protection Authority |
| EPBC Act | *Environmental Protection, Biodiversity and Conservation Act 1999* |
| ESA | Environmentally sensitive area |
| H-CC | Holyoake conveyor corridor |
| H-HR | Holyoake haul road |
| H-MA | Holyoake mining area |
| HSA | Holyoake study area |
| IBRA | Interim biogeographic regionalisation for Australia |
| JAF | Jarrah forest bioregion |
| JAF01 | Northern Jarrah forest subregion |
| MN-CC | Myara North conveyor corridor |
| MNES | Matters of national environmental significance |
| MN-HR | Myara North haul road |
| MN-MA | Myara North mining area |
| MNSA | Myara North study area |
| PEC | Priority ecological community |
| Phoenix | Phoenix Environmental Sciences |
| PHR | Potential habitat rating |
| ReSA | Rehabilitation study area |
| SP | Specially protected |
| SRE | Short-range endemic |
| VU | Vulnerable |
| WA | Western Australia |
| WAM/WA Museum | Western Australian Museum |

# 1 INTRODUCTION

Alcoa of Australia Limited (Alcoa) is proposing to increase production at the Pinjarra Alumina Refinery by 5 per cent from 5.0 million tonnes per annum (Mtpa) to 5.25 Mtpa and transition the Huntly Bauxite Mine to the proposed Myara North and Holyoake mine regions (the Proposal).

The Huntly Mine is located predominantly within the Shires of Murray, Serpentine-Jarrahdale and Boddington within the Peel Region of Western Australia. The Myara North mine area is south east of the town of Jarrahdale, and the Holyoake mine area is east of Dwellingup (Figure 1-1).

The Proposal will be subject to environmental impact assessment under Part IV of the WA *Environmental Protection Act 1986* (EP Act), and the *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act). The environmental impact assessment will be via a Public Environmental Review (PER).

Phoenix Environmental Sciences Pty Ltd (Phoenix) was commissioned by GHD Pty Ltd, on behalf of Alcoa to undertake a short-range endemic (SRE) invertebrate survey for the Proposal. This report presents the results of the SRE survey conducted for the Proposal.

## 1.1 BACKGROUND

Alcoa was granted approval to mine bauxite within mineral lease 1SA (ML1SA) under the *Alumina Refinery Agreement Act 1961*. The Huntly Bauxite Mine (the mine) has operated since 1976 in ML1SA and includes several mining regions.

The Pinjarra Alumina Refinery (the Refinery) was commissioned in 1972, after approval to develop the Refinery was granted under the *Alumina Refinery (Pinjarra) Agreement Act 1969*. The Refinery is now subject to approvals under Part IV of the *Environmental Protection Act 1986* (EP Act, including ministerial Statement (MS) 646 (Minister for the Environment 2004).

Alcoa is seeking approval for the Proposal to provide certainty for future mining and refining operations. The Proposal comprises the following components:

- an increase in alumina production at the Refinery by 5% from 5.0 million tonnes per annum (Mtpa) to 5.25 Mtpa
- an increase in the rate of mining at the mine within mineral lease 1SA (ML1SA) to supply up to 2.5 Mtpa of bauxite for export.

The Proposal includes two future mine regions which were the focus of this study (Figure 1-1):

- Myara North, south east of the town of Jarrahdale in the Shire of Serpentine Jarrahdale
- Holyoake, east of Dwellingup in the Shire of Murray, and extending into the Shire of Boddington.

The Proposal will be subject to a Public Environmental Review (PER) under State and Commonwealth environmental legislation.

## 1.2 SCOPE OF WORK

The scope of work for the SRE invertebrate survey was as follows:

- complete a desktop review of all available data including SRE fauna databases, literature such as previous locally relevant survey reports, and geospatial information
- conduct a Level 2 field survey for SRE taxa over two seasons (autumn/winter and spring)

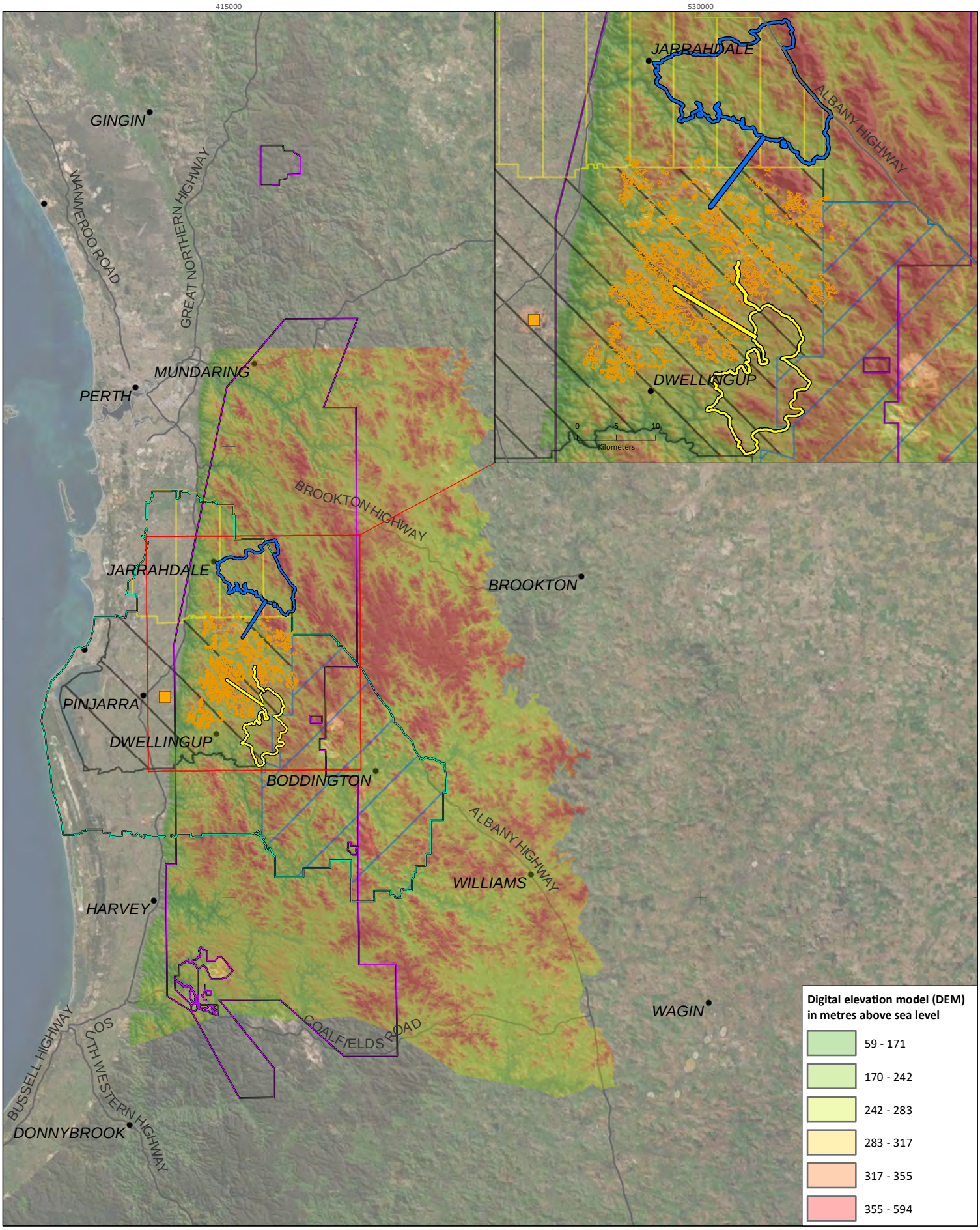
- undertake data analysis, sample processing and species identifications for samples collected during the field survey
- prepare maps showing potential SRE species records and habitats.

## 1.3 STUDY AREA

The SRE survey was conducted within three main study areas relating to the two future mine regions, and previously mined areas that have been rehabilitated as follows (Figure 1-2):

- Myara North study area (MNSA) – 17,675.2 ha in total, comprising of three survey areas:
    - proposed mining area (MN-MA), 17,448.9 ha
    - proposed conveyor corridor (MN-CC) with a 100 m buffer, 211.1 ha
    - proposed haul road (MN-HR), 15.1 ha
- Holyoake study area (HSA) – 10,456.9 ha in total, comprising of three survey areas:
    - proposed mining area (H-MA), 10,169.8 ha
    - proposed conveyor corridor (H-CC) with a 100 m buffer, 213.1 ha
    - proposed haul road (H-HR), 73.9 ha
- Rehabilitation study area (ReSA) – 11,894.7 ha in total, comprising previously mined and subsequently rehabilitated land at the Huntly Mine site between 1973 and 2019. There is some overlap between the ReSA and baseline study area (95.1 ha of the ReSA intersects the H-CC, 29.8 ha intersects the H-HR and 10.1 ha intersects the MN-CC).

All study areas are collectively referred to as the 'study area' in this report. The MNSA and HSA are collectively referred to as the 'baseline study area', which was the primary focus of the survey. The survey in the ReSA was supplementary to the primary survey and intended to collect information on colonisation by SREs of rehabilitated areas.



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| Date | 28/04/2021 |
| Drawn by | IN |
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- Myara North study area (MNSA)
- Holyoake study area (HSA)
- Rehabilitation study area (RSA)
- Peel region boundary
- ML1SA (Mineral lease)
- Pinjarra Alumina Refinery

**Local government areas**
- Shire of Boddington
- Shire of Murray
- Shire of Serpentine Jarrahdale

# Figure 1–1
## Project location

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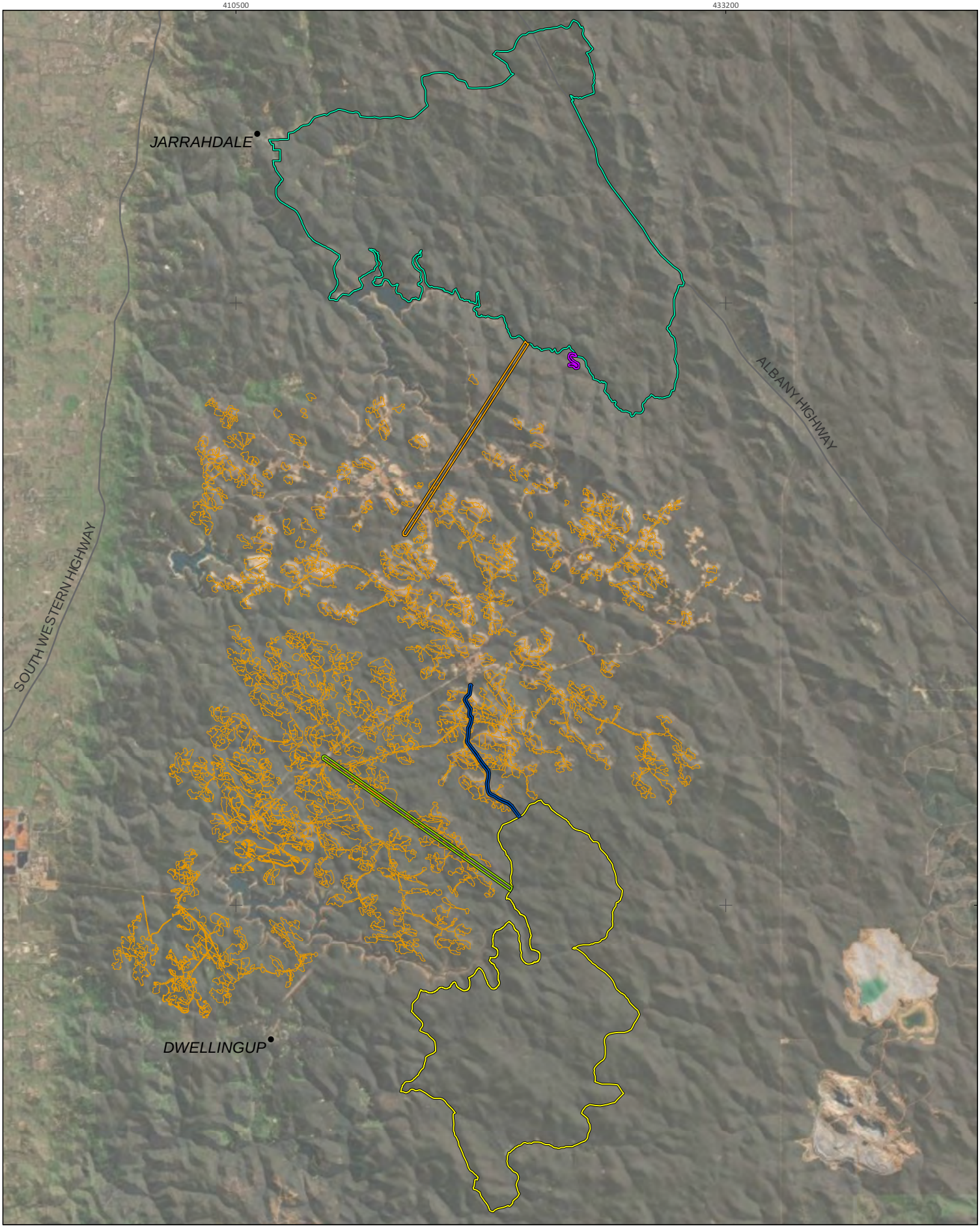

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- Rehabilitation study area (RSA)

**Myara North study area (MNSA)**

- Myara North mining area (MN-MA)
- Myara North conveyor corridor (MN-CC)
- Myara North haul road (MN-HR)

**Holyoake study area (HSA)**

- Holyoake mining area (H-MA)
- Holyoake conveyor corridor (H-CC)
- Holyoake haul road (H-HR)

# Figure 1–2
## Study area

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# 2 LEGISLATIVE CONTEXT

The protection of fauna in WA is principally governed by three acts:

Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act)

State *Biodiversity Conservation Act 2016* (BC Act)

State *Environmental Protection Act 1986* (EP Act).

## 2.1 COMMONWEALTH

Under the EPBC Act, actions that have, or are likely to have, a significant impact on a matter of national environmental significance (MNES), require approval from the Australian Government minister for the Environment. The EPBC Act provides for the listing of Threatened native fauna as MNES.

Few invertebrate taxa from WA are listed as MNES. Those that are mostly include species that have experienced significant range contractions and population declines due to habitat loss, for example the Margaret River Marron (*Cherax tenuimanus*) (Critically Endangered) and the Shield-backed Trapdoor Spider (*Idiosoma nigrum*) (Vulnerable) (DoEE 2018).

## 2.2 STATE

In WA, the BC Act provides for the listing of Threatened fauna species (Government of Western Australia 2018a, b)[1] in the following categories:

- Critically Endangered (CR) – species facing an extremely high risk of extinction in the wild in the immediate future[2]
- Endangered (EN) – species facing a very high risk of extinction in the wild in the near future[2]
- Vulnerable (VU) – species facing a high risk of extinction in the wild in the medium term future[2].

Species may also be listed as specially protected (SP) under the BC Act under the category of 'species of special conservation interest' (conservation dependent fauna, CD), including species with a restricted natural range.

The Department of Biodiversity, Conservation and Attractions (DBCA) administers the BC Act and also maintains a non-statutory list of Priority fauna. Priority species are still considered to be of conservation significance – that is they may be Threatened – but cannot be considered for listing under the BC Act until there is adequate understanding of threat levels imposed on them. Species on the Priority fauna lists are assigned to one of four Priority (P) categories, P1 (highest) – P4 (lowest), based on level of knowledge/concern.

Few SRE invertebrate taxa are currently listed under the BC Act and while there are several invertebrate species on DBCA's Priority list (some of which are SRE taxa), these lists cannot be relied on as a complete guide to significant invertebrate taxa within a particular location. The most up-to-date listings of terrestrial invertebrates and their distribution are available through the WA Museum invertebrate databases.

[1] The *Wildlife Conservation (Specially Protected Fauna) Notice 2018* and the *Wildlife Conservation (Rare Flora) Notice 2018* have been transitioned under regulations 170, 171 and 172 of the *Biodiversity Conservation Regulations 2018* to be the lists of Threatened, Extinct and Specially Protected species under Part 2 of the BC Act.

[2] As determined in accordance with criteria set out in the ministerial guidelines.

## 2.3 OVERVIEW OF SRE INVERTEBRATES

Short-range endemic (SRE) fauna are defined as animals that display restricted geographic distributions, nominally less than 10,000 km$^2$, that may also be disjunct and highly localised (Harvey 2002; Ponder & Colgan 2002). Short-range endemism in terrestrial invertebrates is believed to have evolved through two primary processes (Harvey 2002), relictual short-range endemism – where drying climate has forced range contraction into small pockets with remaining moist conditions (e.g. south-facing rock faces or slopes of mountains or gullies) – and habitat specialist SREs that may have settled in particular isolated habitat types (e.g. rocky or granite outcrops) by means of dispersal and evolved in isolation into distinct species. However, SRE invertebrates have also been reported in more widespread habitats such as spinifex plains or woodlands mainly in groups with low dispersal capabilities such as mygalomorph spiders and millipedes.

Short-range endemic fauna need to be considered in environmental impact assessments (EIA) as localised, small populations of species are generally at greater risk of changes in conservation status due to environmental change than other, more widely distributed taxa (EPA 2016).

There can be uncertainty in categorising a specimen as SRE due to a number of factors including poor regional survey density, lack of taxonomic research and problems of identification, i.e. specimens that may represent SREs cannot be identified to species level based on the life stage at hand. For example, in contrast to mature males, juvenile and female millipedes, mygalomorph spiders and scorpions cannot be identified to species level. Molecular techniques such as 'barcoding' (Hebert *et al.* 2003a; Hebert *et al.* 2003b) are routinely employed to overcome taxonomic or identification problems.

Currently, there is no accepted system to determine the likelihood that a species is an SRE. The WA Museum applies a three tier-rating: confirmed, potential and not SRE (Western Australian Museum 2013). Phoenix uses a classification similar to that of the WA Museum, which was employed in this assessment (Table 2-1). Any SRE categorisation of a taxon is based on the information available at the time. As new information emerges from additional surveys, the SRE status may change.

**Table 2-1 Short-range endemic categories**

| SRE category | Criteria |
|---|---|
| Confirmed | Distribution < 10,000 km$^2$.<br>Taxonomy of the group is well known (but not necessarily published); group is well-represented in collections, in particular from the region in question; high levels of endemism exists in documented species; inference is often possible from immature specimens. |
| Likely | Distribution < 10,000 km$^2$.<br>Taxonomically poorly resolved group but group is generally well-represented in collections; unusual morphology for the group (e.g. some form of troglomorphism); often recorded as singletons in survey and few, if any, regional records. |
| Potential | Distribution < 10,000 km$^2$.<br>Taxonomically poorly resolved group; patchy distribution, often common in certain microhabitats, but no other regional records; congeners (= species in the same genus) often widespread. |
| Widespread (not SRE) | Distribution >10,000 km$^2$. |

# 3 EXISTING ENVIRONMENT

## 3.1 INTERIM BIOGEOGRAPHIC REGIONALISATION OF AUSTRALIA

The Interim Biogeographic Regionalisation of Australia (IBRA) classifies Australia's landscapes into large 'bioregions' and 'subregions' based on climate, geology, landform, native vegetation and species information (DoEE 2016). The study area is located in the Northern Jarrah Forest subregion (JAF01) of the Jarrah Forest bioregion (Figure 3-1) which is predominantly comprised of jarrah - marri forest in the west with bullich and blackbutt in the valleys (Williams & Mitchell 2001). This grades to wandoo and marri woodlands in the east, with powderbark on breakaways. Heath is found on granite rocks and there are extensive but localised sandsheets with *Banksia* low woodlands (Williams & Mitchell 2001).

## 3.2 LAND SYSTEMS AND SURFACE GEOLOGY

DPIRD undertakes land system mapping for WA using a nesting soil-landscape mapping hierarchy (Schoknecht & Payne 2011). While the primary purpose of the mapping is to inform pastoral and agricultural land capability, it is also useful for informing biological assessments. Under this hierarchy, land systems are defined as areas with recurring patterns of landforms, soils, vegetation and drainage (Payne & Leighton 2004).

The study area intersects two land systems, the Darling Plateau and Murray Valleys land system. The Darling Plateau comprises over 93% of the baseline study area, this constitutes 15,879 ha (~90%) the MNSA and 10,417 ha (>99%) of the HSA (Table 3-1; Figure 3-2).

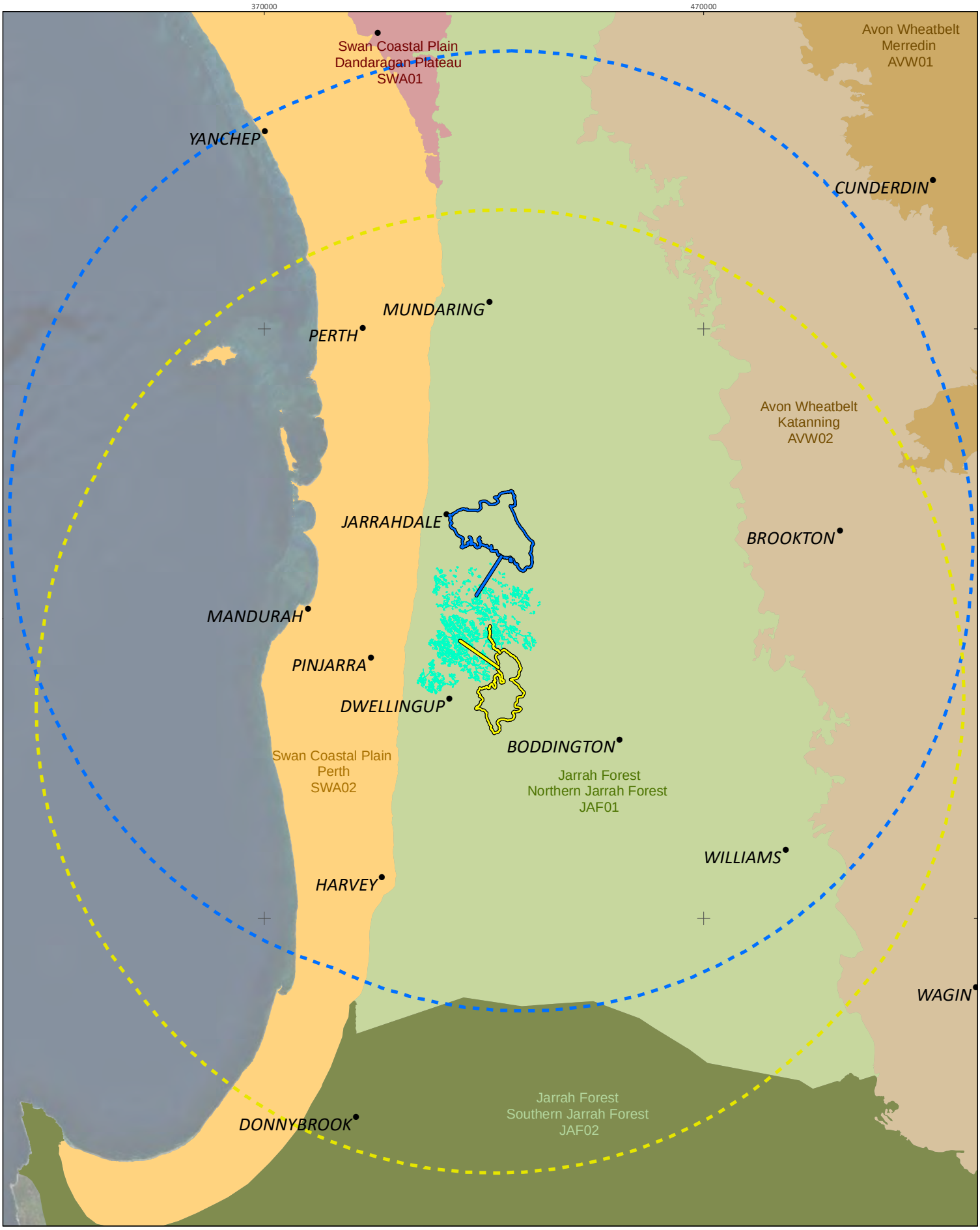
**Table 3-1 Land systems and extent in baseline study area**

| Land system | Description | MNSA ha (%) | HSA ha (%) | Baseline study area total ha (%) |
|---|---|---|---|---|
| Darling Plateau System | Lateritic plateau. Duplex sandy gravels, loamy gravels and wet soils. Jarrah-marri-wandoo forest and woodland. | 15,879.5 (89.8%) | 10,417.7 (99.6%) | 26,297.4 (93.5%) |
| Murray Valleys System | Western Darling Range from the Avon Valley to Harvey. Deeply incised valleys with Red loamy earths, shallow duplexes and rock outcrop and Jarrah-marri-wandoo forest and woodland with mixed shrubland | 1,795.7 (10.2%) | 39.2 (0.4%) | 1,834.8 (6.5%) |
| | **TOTAL** | **17,675.2 (100%)** | **10,456.9 (100%)** | **28,132.1 (100%)** |

According to the Surface Geology of Australia 1:1,000,000 scale, Western Australia database (Stewart *et al.* 2008), the baseline study area intersects four geological formations (Table 3-2; Figure 3-2); however, it is overwhelmingly dominated by ferruginous duricrust (unit 38498) which constitutes 9,768 ha (93.4 %) of the HSA and 9,826 ha (55.6%) of the MNSA.

**Table 3-2 Surface geology of the study area, extent by deposit type**

| Surface geology | Abbrev. | Description | MNSA ha (%) | HSA ha (%) | Baseline study area total ha (%) |
|---|---|---|---|---|---|
| felsic intrusives 74292 | Ag | Undifferentiated felsic intrusive rocks, including monzogranite, granodiorite, granite, tonalite, quartz monzonite, syenogranite, diorite, monzodiorite, pegmatite. Locally metamorphosed, foliated, gneissic. Local abundant mafic and ultramafic inclusions | 7,766.5 (43.9%) | 493.9 (4.7%) | 8,260.4 (29.4%) |
| gneiss, granulite, migmatite 74310 | An | Banded granitic gneiss (monzogranitic to granodioritic), quartzofeldspathic gneiss with mafic bands, migmatite, granofels, mafic and felsic granulites, hypersthene-plagioclase-quartz granulite; schist, pelitic or mafic granofels | 82.1 (0.5%) | - | 82.0 (0.3%) |
| ferruginous duricrust 38498 | Czl | Pisolitic, nodular or vuggy ferruginous laterite; some lateritic soils; ferricrete; magnesite; ferruginous and siliceous duricrusts and reworked products, calcrete, kaolinised rock, gossan; residual ferruginous saprolite | 9,826.6 (55.6%) | 9,768.1 (93.4%) | 19,594.7 (69.7%) |
| colluvium 38491 | Qrc | Colluvium, sheetwash, talus; gravel piedmonts and aprons over and around bedrock; clay-silt-sand with sheet and nodular kankar; alluvial and aeolian sand-silt-gravel in depressions and broad valleys in Canning Basin; local calcrete, reworked laterite | - | 194.9 (1.9%) | 194.9 (0.7%) |
| | | **TOTAL** | **17,675.2 (100%)** | **10,456.9 (100%)** | **28,132.1 (100%)** |



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| Project No | 1337/1347 |
| Date | 28/04/2021 |
| Drawn by | AJ |
| Map author | AJ |

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**Study area**
- Myara North study area
- Myara North desktop study area
- Holyoake study area
- Holyoake desktop study area
- Rehabilitation study area

**IBRA region: Jarrah Forest**
- Northern Jarrah Forest (JAF01)
- Southern Jarrah Forest (JAF02)

**IBRA region: Swan Coastal Plain**
- Dandaragan Plateau (SWA01)
- Perth (SWA02)

**IBRA region: Avon Wheatbelt**
- Katanning (AVW02)
- Merredin (AVW01)

# Figure 3–1
## Study area in relation to IBRA bioregions and subregions

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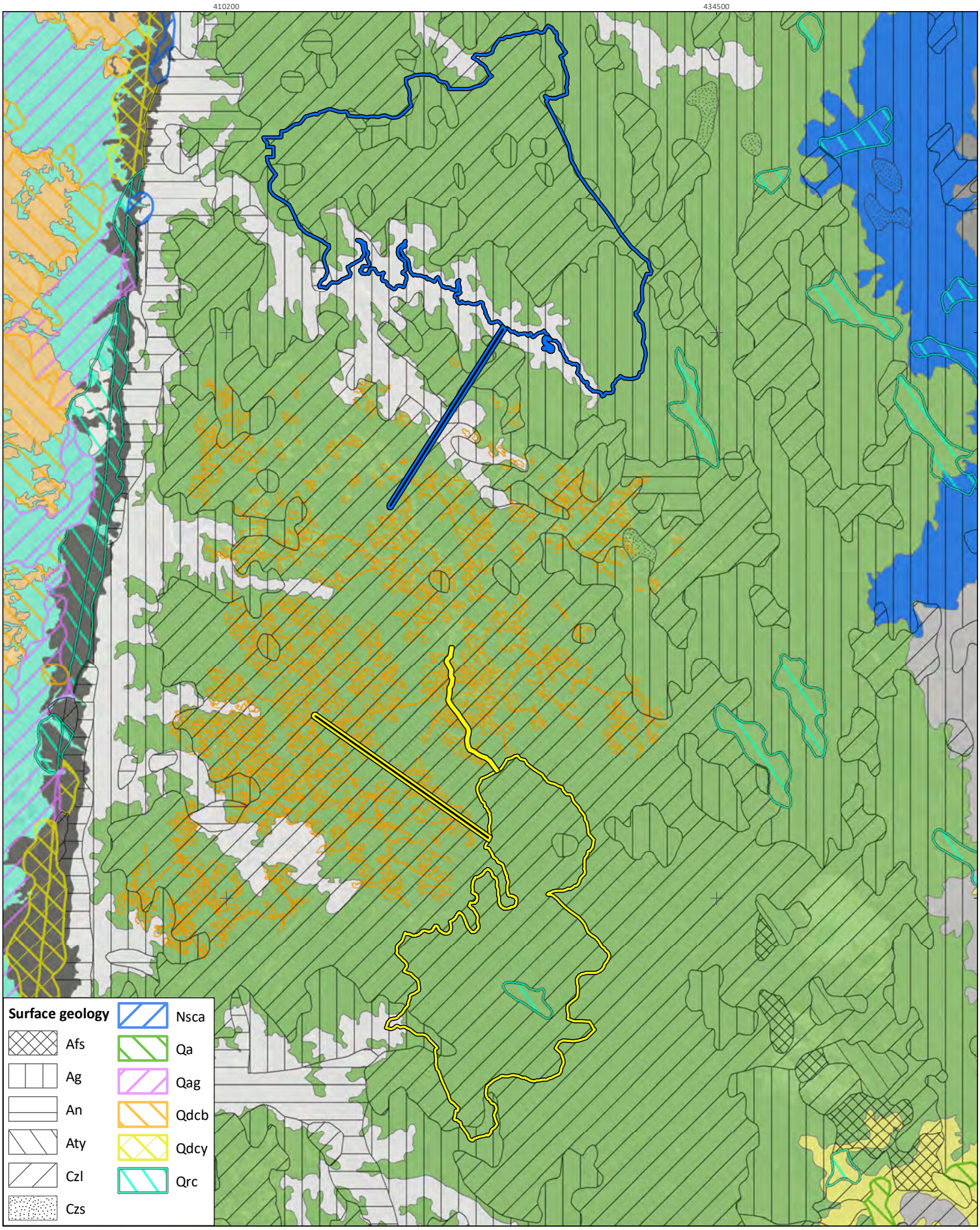

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|---|---|
| Project No | 1337/1347 |
| Date | 28/04/2021 |
| Drawn by | IN |
| Map author | AJ |

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Myara North study area
Holyoake study area
Rehabilitation study area

**Land system**

Bassendean System
Darling Plateau System
Forrestfield System
Marradong Upland System
Murray Valleys System
Pinjarra System
Quindanning System
Wundowie System

**Figure 3–2**

**Land systems and surface geology in the study area**

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## 3.3 CLIMATE AND WEATHER

The climate of the Northern Jarrah Forest subregion is Warm Mediterranean, with cool wet winters and warm dry summers. The nearest Bureau of Meteorology (BoM) weather stations to the study area with comprehensive data collection and recent historic climate data are Dwellingup (no. 009538, Latitude: -32.71°S Longitude: 116.06), located 6.1 km west of the HSA, and Karnet (no. 009111, Latitude: 32.44°S Longitude 116.08°E), located 4.5 km south west of the MNSA.

Dwellingup (1934–2021) records the highest mean maximum monthly temperature (29.7°C) in January and February (lowest in July, 15.1°C) and the lowest minimum mean monthly temperature (5.5°C) in July and August, with the highest (14.6°C) in February (BoM 2021; Figure 3-3). The average annual rainfall at Dwellingup is 1,225.9 mm with June recording the highest monthly average of 235.1 mm (Figure 3-3).

Daily mean maximum temperatures recorded at Dwellingup during the survey period (July to November 2020) were 1-2.5°C above the long-term annual average, except for November which was 1.4°C lower than average (Figure 3-3). Daily mean minimum temperatures were about the same or slightly higher than long-term monthly averages. Dwellingup experienced a drier than average winter but wetter than average spring in 2020 (Figure 3-3).

Karnet (1963–2021) records the highest mean maximum monthly temperature (29.7°C) in January and February (lowest in July 15.5°C) and the lowest minimum mean monthly temperature (6.3°C) in July and August, with the highest (15.8°C) in February (BoM 2021; Figure 3-4). The average annual rainfall at Karnet is 1,150.3 mm with June and July recording the highest monthly averages of 209.7 mm and 217 mm, respectively (Figure 3-4).

Daily mean maximum and minimum temperatures recorded at Karnet during the survey period were similar to or slightly above the long-term annual averages, except for November which slightly cooler (Figure 3-4). Rainfall at Karnet in 2020 was similar to Dwellingup, with a drier than average winter and wetter than average spring recorded (Figure 3-4).

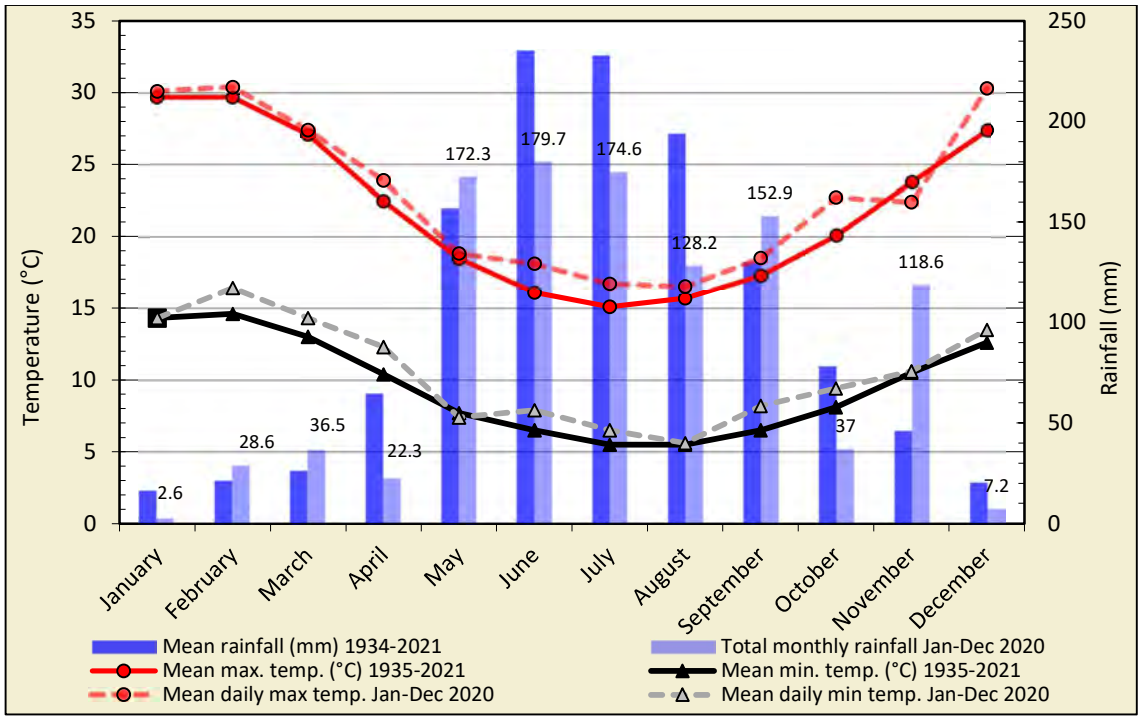



**Figure 3-3** **Annual climate and weather data for Dwellingup (no. 009538) and mean monthly data preceding and during the survey (BoM 2021)**

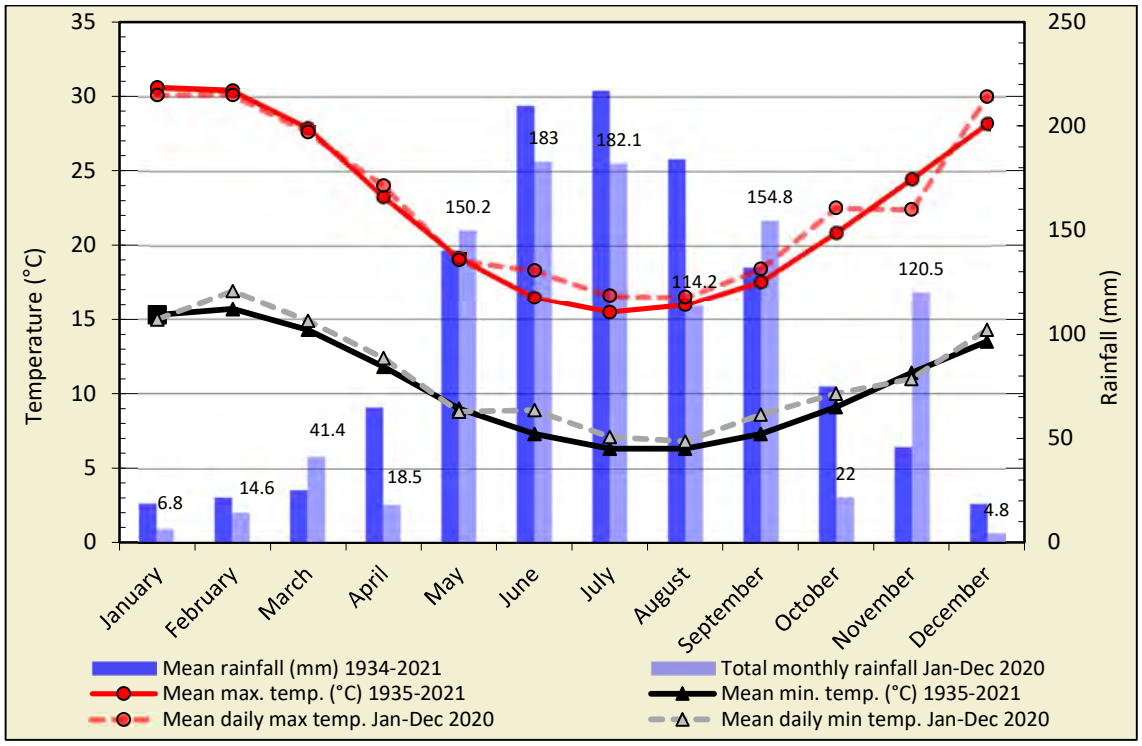



**Figure 3-4** **Annual climate and weather data for Karnet (no. 009111) and mean monthly data for the 12 months preceding and during the survey (BoM 2021)**

## 3.4 LAND USE

Land use statistics were derived from the Australian Bureau of Agriculture and Resource Economics and Sciences' Catchment Scale Land Use Mapping for WA 2018 dataset (ABARES 2018), for the Northern Jarrah Forest subregion. The dataset is a compilation derived from various vector datasets, with land use classified according to the Australian Land Use and Management Classification (v8); a three-tiered hierarchical structure.

According to the ABARES dataset, approximately 25,944 ha (92%) of the baseline study area is 'uncleared' and used for production native forests (Table 3-3), with a higher proportion present in the HSA (96%) than the MNSA (90%). Predominant land uses in the cleared portion of the baseline study area are mining (1.2%) and softwood plantation (184 ha).

Around 4% of the baseline study area is represented by non-production conservation reserves or other residual native cover, with this proportion higher in the MNSA. Marsh/wetland covers 308 ha (~1%) of the baseline study area and is more abundant in the MNSA (243 ha) than the HSA (65 ha).

**Table 3-3** **Land uses of the study area**

| Land use | MNSA (ha) | MNSA (%) | HSA (ha) | HSA (%) | Baseline study area total (ha) | Baseline study area total (%) |
|---|---|---|---|---|---|---|
| **Cleared** | **738.2** | **4.2** | **41.9** | **0.4** | **780.1** | **2.8** |
| **- Production from dryland agriculture and plantations** | **202.9** | **1.2** | **1.7** | **<0.1** | **204.6** | **0.7** |
| Plantation forests | <0.1 | <0.1 | | - | <0.1 | <0.1 |
| Hardwood plantation forestry | 11.0 | 0.1 | | - | 11.0 | <0.1 |
| Softwood plantation forestry | 183.5 | 1.0 | 0.5 | <0.1 | 184.0 | 0.7 |

| Land use | MNSA (ha) | MNSA (%) | HSA (ha) | HSA (%) | Baseline study area total (ha) | Baseline study area total (%) |
|---|---|---|---|---|---|---|
| Degraded land | 8.4 | 0.1 | 1.2 | <0.1 | 9.6 | <0.1 |
| **- Production from irrigated agriculture and plantations** | **51.4** | **0.3** | **1.7** | **0.0** | **53.1** | **0.2** |
| Irrigated perennial horticulture | 3.6 | <0.1 | | - | 3.6 | <0.1 |
| Irrigated tree fruits | 7.0 | <0.1 | 1.7 | <0.0 | 8.7 | <0.1 |
| Irrigated seasonal horticulture | 7.5 | <0.1 | | - | 7.5 | <0.1 |
| Irrigated seasonal vegetables and herbs | 33.3 | 0.2 | | - | 33.3 | 0.1 |
| **- Intensive uses** | **483.9** | **2.7** | **38.5** | **0.4** | **522.4** | **1.9** |
| Shade houses | 8.1 | 0.1 | | - | 8.1 | <0.1 |
| Urban residential | 3.0 | <0.1 | | - | 3.0 | <0.1 |
| Rural residential with agriculture | <0.1 | <0.1 | | - | 0.0 | <0.1 |
| Public services | 1.7 | <0.1 | | - | 1.7 | <0.1 |
| Recreation and culture | 99.9 | 0.6 | | - | 99.9 | 0.4 |
| Airports/aerodromes | - | - | 2.2 | <0.1 | 2.2 | <0.1 |
| Roads | 43.0 | 0.2 | 18.7 | 0.2 | 61.7 | 0.2 |
| mining | 328.3 | 1.9 | 17.6 | 0.2 | 345.9 | 1.2 |
| **Uncleared** | **16,937.0** | **95.8** | **10,415.0** | **99.6** | **27,351.9** | **97.2** |
| **- Conservation and natural environments** | **734.3** | **4.2** | **348.1** | **3.3** | **1,082.5** | **3.8** |
| National park | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Other conserved area | 25.2 | 0.1 | 14.4 | 0.1 | 39.6 | 0.1 |
| Residual native cover | 709.2 | 4.0 | 333.7 | 3.2 | 1,042.9 | 3.7 |
| **- Production from relatively natural environments** | **15,942.6** | **90.2** | **10,001.6** | **95.7** | **25,944.3** | **92.2** |
| Production native forests | 15,942.6 | 90.2 | 10,001.6 | 95.7 | 25,944.3 | 92.2 |
| **- Water** | **260.0** | **1.5** | **65.2** | **0.6** | **325.2** | **1.2** |
| Lake | 6.1 | <0.1 | 0.1 | <0.1 | 6.1 | <0.1 |
| Reservoir | 6.1 | <0.1 | | - | 6.1 | <0.1 |
| Water storage - intensive use/farm dams | 3.6 | <0.1 | 0.3 | <0.1 | 3.9 | <0.1 |
| Stormwater | 0.6 | <0.1 | | - | 0.6 | <0.1 |
| Marsh/wetland | 243.6 | 1.4 | 64.9 | 0.6 | 308.4 | 1.1 |
| **TOTAL** | **17,675.2** | **100** | **10,456.9** | **100** | **28,132.1** | **100** |

## 3.5 CONSERVATION RESERVES, PRIORITY ECOLOGICAL COMMUNITIES AND ENVIRONMENTALLY SENSITIVE AREAS

The MNSA is located almost entirely within Jarrahdale State Forest and the HSA, within Dwellingup State Forest (Table 3-4; Figure 3-5). Three protected areas managed by the DBCA are adjacent to the study area comprising of Serpentine National Park, Lane Poole Reserve (a Conservation Park) and Monadnocks Conservation Park (a Section 5(1)(g) Reserve).

Three Priority Ecological Communities (PECs) partially intersect the MNSA; a Priority 2 Litter-dependant invertebrate community occupies 222.2 ha (0.8%) in the north and two Priority 3 Granite communities of the Northern Jarrah Forest (Blue Rock and Sullivan Rock) occupying 84 ha (0.3%) in the north-west and east (Table 3-4; Figure 3-5).

Four environmentally sensitive areas (ESAs) intersect the baseline study area. Three of these are located in the MNSA and one in the HSA, all classed as SCP_WETL50, which is an area mapped as a defined wetland in the geomorphic wetland maps and the area within 50 m of the wetland. Defined wetlands include Ramsar wetlands, conservation category wetlands and nationally important wetlands (DWER, pers. comm. 24 February 2021; Figure 3-5). All four wetlands have been evaluated as an ESA on the basis of "Conservation".

**Table 3-4 Conservation reserves, PECs and ESAs in the baseline study area**

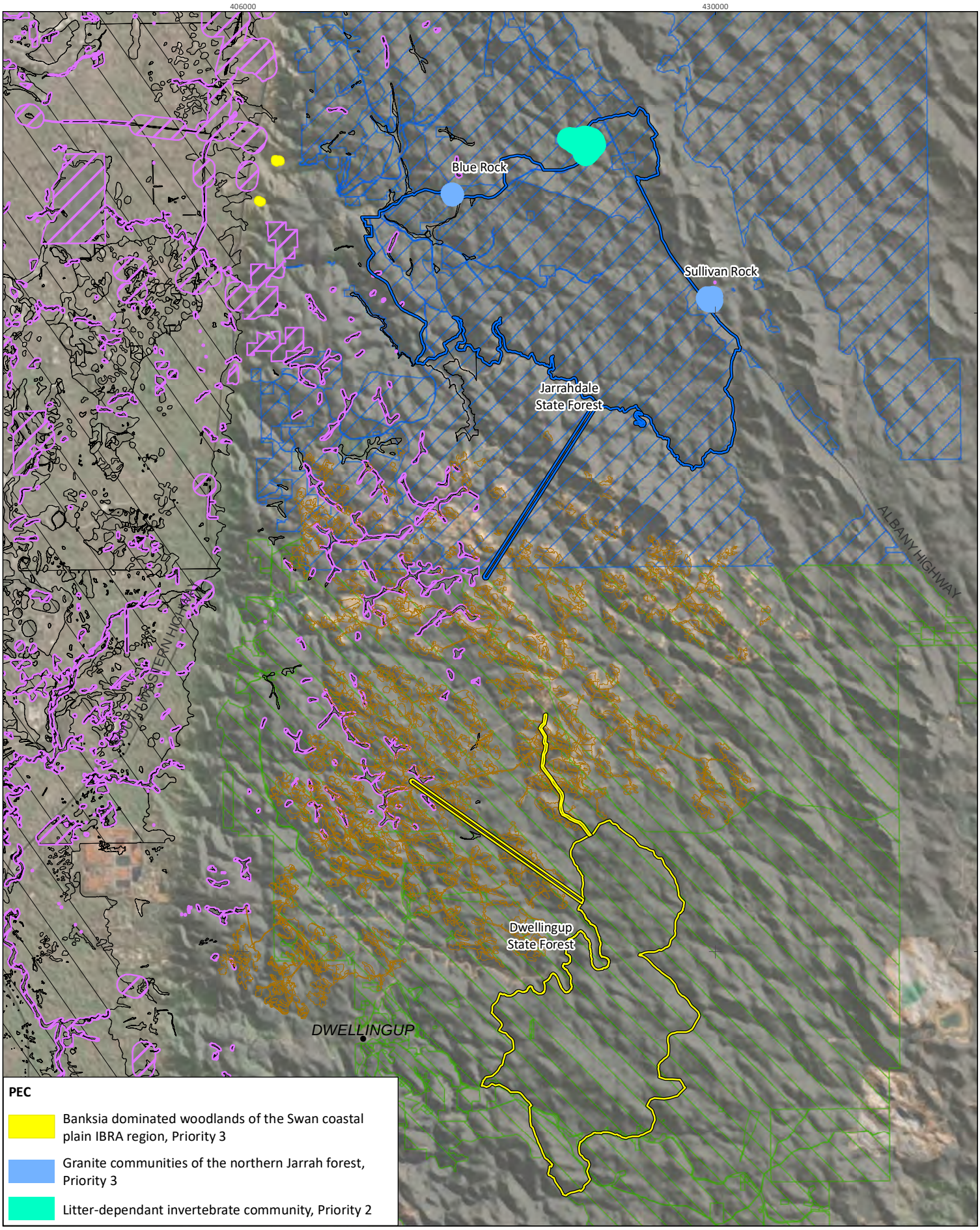
| Conservation reserves, PECs and ESA's | MNSA ha (%) | HSA ha (%) | Baseline study area total ha (%) |
|---|---|---|---|
| **State Forest** | | | |
| Dwellingup State Forest | - | 10,346.9 (98.9%) | 10,346.9 (36.8%) |
| Jarrahdale State Forest | 17,221.6 (97.4%) | - | 17,221.6 (61.2%) |
| **Priority Ecological Communities** | | | |
| Litter-dependant invertebrate community (Priority 2) | 222.2 (1.3%) | - | 222.2 (0.8%) |
| Granite communities of the northern Jarrah Forest (Blue Rock) (Priority 3) | 47.5 (0.3%) | - | 47.5 (0.17%) |
| Granite communities of the northern Jarrah Forest (Sullivan Rock) (Priority 3) | 36.5 (0.2%) | - | 36.5 (0.13%) |
| **Environmentally Sensitive Areas** | | | |
| ESA 3205 - SCP_WETL50 which is an area mapped as a defined wetland in the geomorphic wetland maps | 21.0 (58.6%) | - | - |
| ESA 3198 - SCP_WETL50 which is an area mapped as a defined wetland in the geomorphic wetland maps | 6.3 (17.6%) | - | - |
| ESA 3161 SCP_WETL50 which is an area mapped as a defined wetland in the geomorphic wetland maps | 3.9 (10.8%) | - | - |
| ESA 2489 - SCP_WETL50 which is an area mapped as a defined wetland in the geomorphic wetland maps | - | 4.6 (12.8%) | - |

## 3.6 HYDROLOGICAL VALUES

The baseline study area intersects a number of important urban and agricultural water sources. This includes four catchment areas and surface water allocation areas (SWAAs): Murray River, Serpentine River, Canning River and Dandalup River. Several Proclaimed Drinking Water Source Areas (PDWSAs) under the *Metropolitan Water Supply Sewerage and Drainage Act 1909* intersect the study area: Canning River Catchment Area, Conjurunup Creek Pipehead Dam Catchment Area, North Dandalup Pipehead Dam Catchment Area, Serpentine Dam Catchment Area, Serpentine Pipehead Dam Catchment Area, South Dandalup Dam Catchment Area and Wungong Brook Catchment Area (Figure

3-6). Five proclaimed surface water areas also intersect the baseline study area: Canning Dam Surface Water Area, Dandalup River System, Murray River System, Serpentine River System and Wungong Dam Surface Water Area, as proclaimed under the *Rights in Water and Irrigation Act 1914* (Figure 3-6).

Two perennial rivers occur within the MNSA, the Serpentine River and Big Brook. One non-perennial river, the South Dandalup River, flows through the HSA, along with one unnamed tributary. There are four Geomorphic Wetlands (also classed as ESAs) present in the baseline study area, three in the MNSA are damplands and one in the HSA is a palusplain.



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Myara North study area
Holyoake study area
Rehabilitation study area
Environmentally sensitive areas (DWER)
Geomorphic wetland

**DBCA legislated lands and water**

Dwellingup state forest
Jarrahdale state forest

**Figure 3-5**

**Environmentally sensitive areas, conservation reserves and priority ecological communities in the study area**

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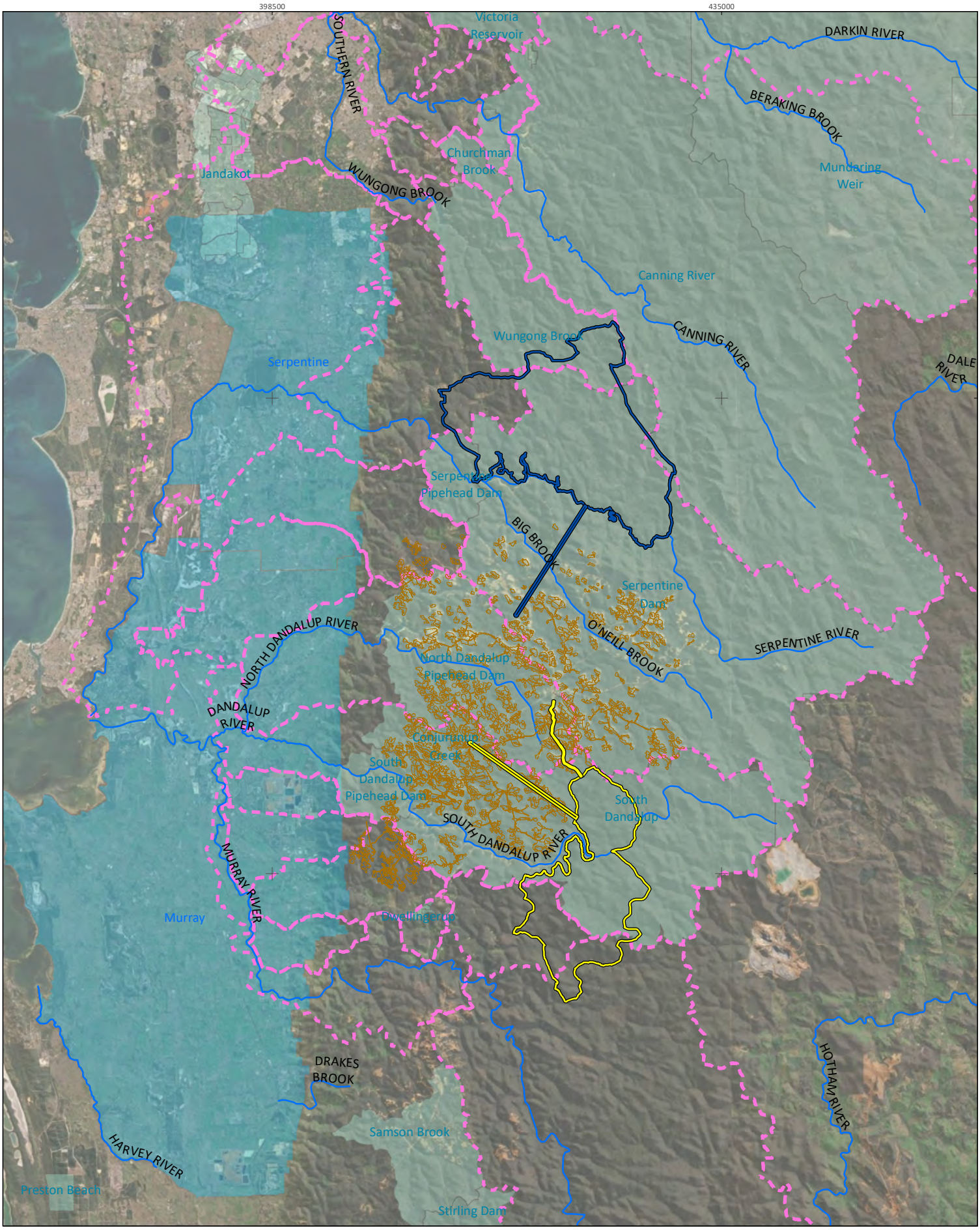

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- Myara North study area
- Holyoake study area
- Rehabilitation study area
- River
- Surface water allocation subareas
- Public drinking water source areas
- Groundwater area

**Figure 3-6**

**Hydrological values in the study area**

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# 4 METHODS

The SRE invertebrate survey was conducted in accordance with Environmental Protection Authority (EPA) Technical Guidance: Sampling of short range endemic invertebrate fauna (EPA 2016).

## 4.1 DESKTOP REVIEW

Searches of several biological databases were undertaken to identify records of SREs from the vicinity of the baseline study area (Table 4-1). A literature search was conducted for accessible reports for biological surveys conducted within 40 km of the baseline study area to build on the lists developed from the database searches (Table 4-2). A significant desktop data source for the current survey was a similar large scale SRE survey conducted by Phoenix (2021a) for the Worsley Expansion Project, located east of the study area in state forest and mining tenure between Boddington and Collie (referred to as 'the Worsley survey in this report). The results of this survey were included in the desktop results and were also analysed together with the results of the current survey to provide additional data to inform species distributions.

**Table 4-1 Database searches conducted for the desktop review**

| Database | Target group/s | Search coordinates and extent |
|---|---|---|
| DBCA Threatened and Priority Fauna Database (DBCA 2020b) | Threatened and Priority fauna | Baseline study area plus a 40 km buffer |
| DBCA Threatened and Priority Ecological Communities Database (DBCA 2020a) | TECs and PECs | Baseline study area plus a 40 km buffer |
| WA Museum Arachnid and Myriapod Database, Mollusca Database | Arachnid, myriapod and mollusc SREs | 100 $km^2$ search area encompassing the baseline study area between -32.22°S, 114.912°E (northwest corner) and -34.398°S, 117.868°E (southeast corner). This search area was then clipped to a 100 km radius buffer to the MNSA and HSA |

**Table 4-2 Survey reports included in the desktop review**

| Report author | Survey description | Project |
|---|---|---|
| Phoenix (2021b) | *Memo: Identification of invertebrate specimens collected from the Huntly Mine area* | Huntly Mine |
| Phoenix (2021a) | *Four-phase short-range endemic invertebrate fauna survey for the Worsley Mine Expansion Project* | Worsley Mine Expansion Project |
| Phoenix (2012) | *Level 2 short-range endemic (SRE) invertebrate survey for the Worsley Primary Bauxite Area Expansion Project* | Worsley Mine Expansion Project |
| Outback Ecology (2012) | *Terrestrial short-ranged endemic invertebrate fauna baseline survey for the Boddington Gold Mine* | Newmont BGM |

## 4.2 HABITAT ASSESSMENT AND SITE SELECTION

Vegetation units defined by Mattiske (2021) within the baseline study area were re-interpreted in relation to SRE invertebrates, based on factors considered important in defining fauna assemblages, including vegetation type and structure, substrate and position in the landscape. Each fauna habitat was then rated for its potential to support SREs (potential habitat rating; PHR) as follows:

High – defined/known areas of habitat that contain elements that often give rise to specialisation or dependency in invertebrate fauna, such as aspect (e.g. south-facing slopes, deeply incised gullies), geological features (e.g. granite), soil types that retain water (e.g. clay, loam).

Low – areas of largely intact native vegetation that occur broadly across the landscape, are less incised and typically link more restricted habitats. This includes land that was cleared but has since been rehabilitated or is in the process of being rehabilitated.

None – land that has been previously cleared for other uses that no longer contains native vegetation.

Survey sites for the baseline study area were pre-selected using aerial imagery and were chosen to represent the various habitats within the baseline study area. These included, but were not limited to, typical SRE habitats such as drainage-lines and creek riparian zones, south-facing slopes and granite outcrops. Sites were placed inside potential impact areas such as the haul roads, conveyor corridors and within a preliminary Myara North mining area 10-year mine plan, as well as reference sites. No preliminary disturbance footprint was available for the Holyoake mining area, therefore site selection here focussed on representative sampling of habitats and coverage across this area, with some reference sites placed outside the H-MA.

Sites in the ReSA were selected to sample a range of rehabilitation age classes between 5 and 30 years:

- 5-year-old rehabilitation (rehabilitated in 2015)
- 10-year-old rehabilitation (rehabilitated in 2010)
- 20-year-old rehabilitation (rehabilitated in 2000)
- 30-year-old rehabilitation (rehabilitated in 1990).

All rehabilitation sites were selected from the Huntly mine rehabilitation areas to ensure as many other variables, such as proximity to active mining areas, adjacent habitat types, soils, topography and geographic features, microclimate etc. were as constant as possible.

## 4.3 FIELD SURVEY

Field surveys were conducted over two seasons, between July and November 2020 (Table 4-3) in all study areas except the two haul road sites which had one season of sampling, as these areas were added to the study area after the survey had commenced and timing only allowed one round of sampling within the optimal season.

The following methods were employed in the survey:

SRE wet pit trapping (see 4.3.1)

active foraging (see 4.3.2)

litter/soil sieving (see 4.3.3).

**Table 4-3 Survey dates**

| Study area | | Phase | Season | Dates (all 2020) and methods |
|---|---|---|---|---|
| MNSA | Mine area | 1 | Winter | 20–28 July, trap installation, foraging and litter/soil sieving<br>14–18 September, trap retrieval |
| | Corridor | 1 | Winter/Spring | 19–21 August, trap installation, foraging and litter/soil sieving<br>5–7 October, trap retrieval |
| | Haul road | 1 | Winter | 25 September, trap installation, foraging and litter/soil sieving<br>13 November, trap retrieval |
| | Mine area | 2 | Spring | 14–18 September, trap installation, foraging and litter/soil sieving<br>2–10 November, trap retrieval |
| | Corridor | 2 | Spring | 5–7 October, trap installation, foraging and litter/soil sieving<br>26 November, trap retrieval |
| HSA | Mine area | 1 | Winter/Spring | 5–9 August, trap installation, foraging and litter/soil sieving<br>29 September – 2 October, trap installation |
| | Corridor | 1 | Winter/Spring | 19–21 August, trap installation, foraging and litter/soil sieving<br>5–7 October, trap retrieval |
| | Haul road | 1 | Spring | 25 September, trap installation, foraging and litter/soil sieving<br>13 November, trap retrieval |
| | Mine area | 2 | Spring | 29 September – 2 October, trap installation, foraging and litter/soil sieving<br>23 – 26 November, trap retrieval |
| | Corridor | 2 | Spring | 5–7 October, trap installation, foraging and litter/soil sieving<br>26 November, trap retrieval |
| ReSA | | 1 | Winter | 29-31 July, trap installation, foraging and litter/soil sieving<br>16–18 September, trap retrieval |
| | | 2 | Spring | 16–18 September, trap installation, foraging and litter/soil sieving<br>11–12 November, trap retrieval |

### 4.3.1 Wet pit trapping

A total of 72 wet pitfall trapping sites were established across the study area, 60 within the baseline study area and 12 within the ReSA, of which two are also in the H-CC (Table 4-4; Table 4-5). Each wet pitfall trap site comprised of five one litre plastic containers with a 70 mm diameter dug in flush with the surface in suitable microhabitats at each site (Figure 4-1; Table 4-5). Pit traps were half-filled with propylene glycol/ethanol mixture, which has been shown to preserve DNA under laboratory conditions in invertebrates (Vink *et al.* 2005) and Phoenix has successfully sequenced the mitochondrial cytochrome oxidase subunit 1 (COI) gene from specimens caught in propylene glycol pitfall traps from previous surveys. All traps were covered with a plastic lid elevated 25 mm above the trap with wooden blocks to minimise by-catch of vertebrates where possible. Traps remained open following the setup and were retrieved by site personnel approximately six weeks later.

**Table 4-4 Survey site locations per study area**

| Study area | MNSA | | | HSA | | | HSA/ReSA intersect | ReSA |
|---|---|---|---|---|---|---|---|---|
| | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | | |
| No. of systematic sites surveyed | 28 baseline | 5 baseline | 1 baseline | 22 baseline | 3 baseline | 1 baseline | 2 rehab | 10 rehab |

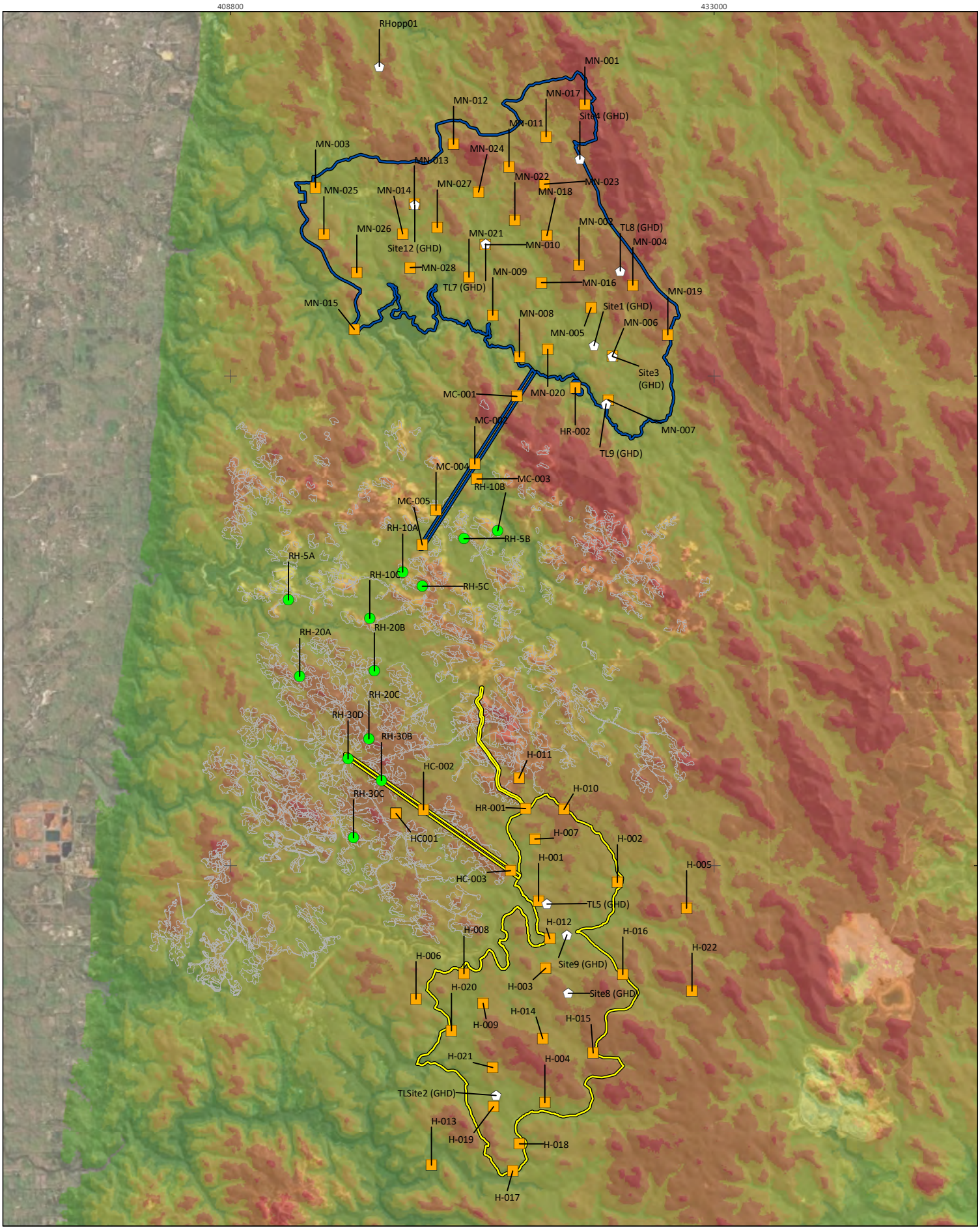
### 4.3.2 Active foraging

Active foraging for SRE invertebrate groups comprised inspection of logs, larger plant debris, within the foliage and stem of shrubs such as *Xanthorrhoea preissii*, the underside of bark of larger trees and the underside of rocks. Methodical searches were conducted amongst the leaf litter of shade-bearing tall shrubs and trees. Rocks and rock crevices were inspected, particularly for pseudoscorpions.

A standardised approach was undertaken whereby each site was sampled for one person hour per phase, a total search effort of 140 hours in total, 56 in the MN-MA, 10 in the MN-CC, 1 in the MN-HR, 44 in the H-MA, 4 in the H-CC, 1 in the H-HR and 24 in the RHSA (Table 4-5). Trapdoor spider burrows identified during the searches were excavated if they were considered inhabited. Excavation involved removing soil from around the burrow to carefully expose the burrow chamber and remove the spider.

### 4.3.3 Litter/soil sieving

Combined litter/soil sifts were undertaken at all sites, with three sifts conducted at each site per phase. In total, 420 sifts were undertaken, 168 in the MN-MA, 30 in the MN-CC, 3 in the MN-HR, 132 in the H-MA, 12 in the H-CC, 3 in the H-HR and 72 in the RHSA. (Table 4-5). The collection of leaf litter samples was standardised volumetrically by the diameter and height (310 mm x 50 mm = 1.55 L) of the sieves which were completely filled with compressed litter and the upper layers of underlying soil. Samples were sieved through three stages of decreasing mesh size over a round tray and invertebrates were picked from the sieves and tray with forceps. These samples particularly targeted small spiders (Araneomorphae), pseudoscorpions, buthid scorpions, millipedes, centipedes (in particular Geophilomorpha and Cryptopidae), smaller species of molluscs (e.g. Pupillidae) and slaters.



GHD Pty Ltd
Huntly Mine Expansion Project

| | |
|---|---|
| Project No | 1337/1347 |
| Date | 28/04/2021 |
| Drawn by | IN |
| Map author | AJ |

0 2.5 5
Kilometers

1:246,400 (at A4) GDA 1994 MGA Zone 50

All information within this map is current as of 28/04/2021. This product is subject to COPYRIGHT and is property of Phoenix Environmental Sciences (Phoenix). While Phoenix has taken care to ensure the accuracy of this product, Phoenix make no representations or warranties about its accuracy, completeness or suitability for any particular purpose.

P:\GIS\Projects\HuntlyMine\1337-HM-GHD-TIM\Mapping\MapDocuments\Figures\1337-1347_Fig4_1_Survey_Site_Locations.mxd

Myara North study area
Holyoake study area
Rehabilitation study area

**Sites**

Baseline SRE survey site
Rehabilitation SRE survey site
Opportuninistic records from GHD vertebrate fauna dry pit traps site

**Digital elevation model in metres above sea level**

59 - 171
171 - 242
242 - 283
283 - 317
317 - 355
355 - 594

# Figure 4-1
## Survey site locations

PHOENIX ENVIRONMENTAL SCIENCES

**Table 4-5 Survey site locations and effort**

| Site[1] | Study area | Habitat type (habitat code) | Lat. | Long. | Phase 1 | | | Phase 2 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WPT (# nights) | Foraging (hrs) | Sieves (#) | WPT (# nights) | Foraging (hrs) | Sieves (#) |
| **SYSTEMATIC SITES** | | | | | | | | | | |
| MN-001 | MN-MA | Open Jarrah/Marri forest (4) | -32.3042 | 116.2196 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-002 | MN-MA | Open Jarrah/Marri forest (4) | -32.3765 | 116.2158 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-003 | MN-MA | Open Jarrah/Marri forest (4) | -32.3406 | 116.0760 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-004 | MN-MA | Open Jarrah/Marri woodland (2) adjacent to Granite outcrop (3) | -32.3858 | 116.2444 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-005 | MN-MA | Open Jarrah/Marri forest (4) | -32.3958 | 116.2222 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-006 | MN-MA | Open Jarrah/Marri woodland (2) | -32.4177 | 116.2333 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-007 | MN-MA | Open Jarrah/Marri forest (5) | -32.4375 | 116.2308 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-008 | MN-MA | Granite outcrop (3) | -32.4179 | 116.1839 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-009 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3989 | 116.1698 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-010 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3671 | 116.1662 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-011 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3320 | 116.1790 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-012 | MN-MA | Open Jarrah/Marri forest (4) | -32.3216 | 116.1496 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-013 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3483 | 116.1285 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-014 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3619 | 116.1221 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-015 | MN-MA | Open Jarrah/Marri forest (4) | -32.4048 | 116.0961 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-016 | MN-MA | Melaleuca woodland (1) | -32.3844 | 116.1959 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-017 | MN-MA | Open Jarrah/Marri forest-woodland (7) | -32.3186 | 116.1989 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-018 | MN-MA | Open Jarrah/Marri woodland (2) | -32.3632 | 116.1988 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-019 | MN-MA | Open Jarrah/Marri forest (4) | -32.4084 | 116.2629 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-020 | MN-MA | Granite Outcrop (3) | -32.4145 | 116.1990 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-021 | MN-MA | Open Jarrah/Marri forest (4) | -32.3816 | 116.1572 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-022 | MN-MA | Open Jarrah/Marri forest (4) | -32.3561 | 116.1820 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-023 | MN-MA | Open Jarrah/Marri forest (4) | -32.3399 | 116.1978 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-024 | MN-MA | Open Jarrah/Marri forest (4) | -32.3434 | 116.1627 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-025 | MN-MA | Open Jarrah/Marri forest (4) | -32.3617 | 116.0803 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-026 | MN-MA | Open Jarrah/Marri forest (4) | -32.3792 | 116.0976 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-027 | MN-MA | Open Jarrah/Marri forest (4) | -32.3593 | 116.1405 | 57 | 1 | 3 | 49 | 1 | 3 |
| MN-028 | MN-MA | Open Jarrah/Marri forest (4) | -32.3772 | 116.1261 | 57 | 1 | 3 | 49 | 1 | 3 |
| **MN-MA (Myara North proposed mining area) total** | | | | | **1596** | **28** | **84** | **1372** | **28** | **84** |
| MC-001 | MN-CC | Open Jarrah/Marri forest (4) | -32.4357 | 116.1823 | 47 | 1 | 3 | 50 | 1 | 3 |
| MC-002 | MN-CC | Open Jarrah/Marri forest (5) | -32.4661 | 116.1597 | 47 | 1 | 3 | 50 | 1 | 3 |
| MC-003 | MN-CC | Open Jarrah/Marri forest (5) | -32.4729 | 116.1607 | 47 | 1 | 3 | 50 | 1 | 3 |
| MC-004 | MN-CC | Open Jarrah/Marri forest (4) | -32.4867 | 116.1387 | 47 | 1 | 3 | 50 | 1 | 3 |
| MC-005 | MN-CC | Open Jarrah/Marri forest (5) | -32.5024 | 116.1312 | 47 | 1 | 3 | 50 | 1 | 3 |
| **MN-CC (Myara North proposed conveyor corridor) total** | | | | | **235** | **5** | **15** | **250** | **5** | **15** |

| Site[1] | Study area | Habitat type (habitat code) | Lat. | Long. | Phase 1 | | | Phase 2 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WPT (# nights) | Foraging (hrs) | Sieves (#) | WPT (# nights) | Foraging (hrs) | Sieves (#) |
| HR-002 | MN-HR | Open Jarrah/Marri forest (4) | -32.4319 | 116.2134 | 49 | 1 | 3 | - | - | - |
| **MN-HR (Myara North proposed haul road) total** | | | | | **49** | **1** | **3** | **-** | **-** | **-** |
| H-001 | H-MA | Open Jarrah/Marri forest (4) | -32.6636 | 116.1918 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-002 | H-MA | Open Jarrah/Marri woodland (2) | -32.6554 | 116.2339 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-003 | H-MA | Open Jarrah/Marri woodland (2) | -32.6939 | 116.1954 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-004 | H-MA | Open Jarrah/Marri forest (4) | -32.7545 | 116.1944 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-005 | H-MA | **Not mapped but likely to be Open Jarrah/Marri woodland (2)** | -32.6672 | 116.2708 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-006 | H-MA | Open Jarrah/Marri forest (4) | -32.7073 | 116.1260 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-007 | H-MA | Open Jarrah/Marri forest (4) | -32.6355 | 116.1902 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-008 | H-MA | Open Jarrah/Marri forest (4) | -32.6960 | 116.1518 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-009 | H-MA | Open Jarrah/Marri forest (4) | -32.7095 | 116.1619 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-010 | H-MA | Open Jarrah/Marri forest (4) | -32.6222 | 116.2058 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-011 | H-MA | Open Jarrah/Marri forest (5) | -32.6080 | 116.1819 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-012 | H-MA | Open Jarrah/Marri forest (4) | -32.6804 | 116.1978 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-013 | H-MA | Open Jarrah/Marri forest (4) | -32.7822 | 116.1335 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-014 | H-MA | Open Jarrah/Marri woodland (2) | -32.7256 | 116.1935 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-015 | H-MA | Open Jarrah/Marri woodland (2) | -32.7323 | 116.2204 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-016 | H-MA | Open Jarrah/Marri woodland (2) | -32.6969 | 116.2364 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-017 | H-MA | Open Jarrah/Marri forest-woodland (7) | -32.7852 | 116.1770 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-018 | H-MA | Open Jarrah/Marri forest (4) | -32.7729 | 116.1806 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-019 | H-MA | Open Jarrah/Marri forest (4) | -32.7562 | 116.1668 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-020 | H-MA | Open Jarrah/Marri forest (4) | -32.7218 | 116.1447 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-021 | H-MA | Open Jarrah/Marri forest (4) | -32.7384 | 116.1666 | 55 | 1 | 3 | 55 | 1 | 3 |
| H-022 | H-MA | Open Jarrah/Marri forest (4) | -32.7046 | 116.2733 | 55 | 1 | 3 | 55 | 1 | 3 |
| **H-MA (Holyoake proposed mining area) total** | | | | | **1210** | **22** | **66** | **1210** | **22** | **66** |
| HC-001 | H-CC | Open Jarrah/Marri forest (5) | -32.6218 | 116.1308 | 47 | 1 | 3 | 50 | 1 | 3 |
| HC-002 | H-CC | Open Jarrah/Marri forest (5) | -32.6218 | 116.1308 | 47 | 1 | 3 | 50 | 1 | 3 |
| HC-003 | H-CC | Open Jarrah/Marri forest (4) | -32.6497 | 116.1771 | 47 | 1 | 3 | 50 | 1 | 3 |
| **H-CC (Holyoake proposed conveyor corridor) total** | | | | | **141** | **3** | **9** | **150** | **3** | **9** |
| HR-001 | H-HR | Open Jarrah/Marri forest (5) | -32.6217 | 116.1853 | 49 | 1 | 3 | - | - | - |
| **H-HR (Holyoake proposed haul road) total** | | | | | **49** | **1** | **3** | **-** | **-** | **-** |
| RH-5A | ReSA | 5-year-old rehabilitation (5) | -32.5267 | 116.0598 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-5B | ReSA | 5-year-old rehabilitation (5) | -32.4996 | 116.1534 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-5C | ReSA | 5-year-old rehabilitation (5) | -32.521 | 116.1311 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-10A | ReSA | 10-year-old rehabilitation (12) | -32.5145 | 116.1208 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-10B | ReSA | 10-year-old rehabilitation (12) | -32.4962 | 116.1716 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-10C | ReSA | 10-year-old rehabilitation (12) | -32.5354 | 116.103 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-20A | ReSA | 20-year-old rehabilitation (12) | -32.5611 | 116.0654 | 50 | 1 | 3 | 56 | 1 | 3 |

| Site[1] | Study area | Habitat type (habitat code) | Lat. | Long. | Phase 1 | | | Phase 2 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WPT (# nights) | Foraging (hrs) | Sieves (#) | WPT (# nights) | Foraging (hrs) | Sieves (#) |
| RH-20B | ReSA | 20-year-old rehabilitation (12) | -32.5591 | 116.1051 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-20C | ReSA | 20-year-old rehabilitation (12) | -32.5897 | 116.1019 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-30B | ReSA | 30-year-old rehabilitation (12) | -32.6085 | 116.1085 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-30C | ReSA | 30-year-old rehabilitation (12) | -32.6342 | 116.0934 | 50 | 1 | 3 | 56 | 1 | 3 |
| RH-30D | ReSA | 30-year-old rehabilitation (12) | -32.5986 | 116.0907 | 50 | 1 | 3 | 56 | 1 | 3 |
| **ReSA (Rehabilitation study area) total** | | | | | **600** | **12** | **36** | **672** | **12** | **36** |
| **OPPORTUNISTIC SITES[2]** | | | | | | | | | | |
| TL5 (GHD) | H-MA | Open Jarrah/Marri woodland (2) | -32.6649 | 116.1963 | - | - | - | - | - | - |
| Site9 (GHD) | H-MA | Open Jarrah/Marri woodland (2) | -32.6788 | 116.2069 | - | - | - | - | - | - |
| Site8 (GHD) | H-MA | Open Jarrah/Marri woodland (2) | -32.7053 | 116.2072 | - | - | - | - | - | - |
| TLSite2 (GHD) | H-MA | Open Jarrah/Marri forest (4) | -32.7511 | 116.1683 | - | - | - | - | - | - |
| Site12 (GHD) | MN-MA | Open Jarrah/Marri woodland (2) | -32.3489 | 116.1288 | - | - | - | - | - | - |
| TL8 (GHD) | MN-MA | Open Jarrah/Marri forest (4) | -32.3794 | 116.2378 | - | - | - | - | - | - |
| TL9 (GHD) | MN-MA | Open Jarrah/Marri woodland (2) | -32.4393 | 116.2299 | - | - | - | - | - | - |
| Site4 (GHD) | MN-MA | Open Jarrah/Marri forest-woodland (7) | -32.3288 | 116.2167 | - | - | - | - | - | - |
| Site1 (GHD) | MN-MA | Open Jarrah/Marri forest (4) | -32.413 | 116.2235 | - | - | - | - | - | - |
| TL7 (GHD) | MN-MA | Open Jarrah/Marri woodland (2) | -32.3668 | 116.1662 | - | - | - | - | - | - |
| Site3 (GHD) | MN-MA | Open Jarrah/Marri woodland (2) | -32.418 | 116.2332 | - | - | - | - | - | - |
| OppMN (GHD) | MN-MA | Open Jarrah/Marri forest (4) | | | | | | | | |
| RHopp01 | ReSA | 44-year-old rehabilitation (1976) | -32.2863 | 116.1105 | - | - | - | - | - | - |
| **Opportunistic collection sites total** | | | | | - | - | - | - | - | - |

1 – Grey shading indicates sites that are within preliminary 10-year mine plan. Yellow shading indicates a reference site outside of the MNSA and HSA.

2 – GHD sites – invertebrates collected in dry pitfall trap sites for the vertebrate fauna survey for the Proposal.

## 4.3.4 Identification of SRE taxa

### 4.3.4.1 Morphological identification

Taxonomists with recognised and proven taxonomic qualifications and experience were engaged to undertake high-level morphological identifications of specimens within SRE groups (Table 4-6). In all cases, identifications relied on direct comparison with reference material from the WA Museum. The reliance on the WA Museum reference collections provides the important regional context in the assessment of short-range endemism for unpublished taxa.

**Table 4-6 Taxonomic specialists who identified the SRE invertebrates from the survey**

| Personnel | Taxonomic group/s |
|---|---|
| Dr Cathy Car | Diplopoda |
| Dr Simon Judd | Isopoda |
| Dr Erich S. Volschenk | Scorpiones, Pseudoscorpiones |
| Dr Sharon Zuiddam | Opiliones |
| Ms Anna Jacks | Mygalomorphae, Eupulmonata |

### 4.3.4.2 Molecular sequencing

Molecular sequencing was conducted for a large number of specimens from the survey; 157 mygalomorph spiders, 60 millipedes and four land snails (Table 4-7). The molecular identification of species based on comparisons between the mitochondrial gene COI (Cytochrome OxidaseI) is referred to as DNA barcoding. A molecular framework for COI exists at the WA Museum for mygalomorph spiders (Castalanelli 2014; Helix 2012) and increasingly also for other taxonomic groups.

DNA was extracted from each specimen and the 658 base pair COI gene was amplified by Genotyping Australia using universal COI primers (Folmer *et al.* 1994). The data was subsequently compared to previously published sequences uploaded into Genbank using the BLAST function in Geneious Prime v11.1.5. Sequences were also compared inhouse, to Phoenix's molecular database. The top blast hits for each major taxon were reported, the sequences from the survey were added, duplicate sequences were removed, and remaining sequences then analysed with a Maximum Likelihood phylogenetic analysis using a GTR+G model of evolution and 100 bootstraps (RAxML). Distances were calculated via tree-based estimates of identical bases in Geneious Prime.

Species identification based on COI barcoding is not without problems as sequence divergence within species can be high and may exceed that between species in some taxa, including SRE target groups (Bond 2004; Boyer *et al.* 2007; Köhler & Johnson 2012). For example, sequence divergences of up to 10% may be considered to represent the same species in some genera of mygalomorph spiders, with evidence of some groups displaying less than 5% divergence between species. In *Dampetrus* harvestmen and *Karaops* spiders however, intra-specific divergences extend only up to 6% and in millipedes less than 5% (Phoenix unpublished data). Species delineation was determined through analysis of pairwise similarity matrices and RAxML trees showing clusters of specimens with similar DNA to those from the current survey, the concurrent Worsley survey, and GenBank, and if other clusters were present but clearly forming a separate species. *Antichiropus* millipedes were all within 97% similarity, while mygalomorph spiders ranged from 93.5% similarity. Confidence in determining conspecific species was highest for taxa with 97% pairwise similarity and above.

Comparison of sequences is the most effective way of determining if conspecific species have been collected from another source. GenBank stores the world's largest collection of publicly available DNA sequences, with contributions from both private and public organisations, including tertiary and

government research institutions; however, it is up to the discretion of the owner to share the sequences to GenBank. While not everything that has been morphologically identified has been sequenced, and not everything that has been sequenced has been shared with GenBank, it is still the largest collection of data available and most likely to return similar species. Recently, there has been a shift to molecular identification of SREs and so the GenBank database is growing and becoming more accurate.

#### 4.3.4.3 Nomenclature

Nomenclature followed a number of taxon-specific references; however, many invertebrate species, including millipedes are currently unnamed requiring morphospecies designation as listed in this report. These are adopted from the nomenclatural systems developed by the WAM or other respective taxonomic authorities. Interim Phoenix specific codes are used for some of the species identified using molecular tools pending a code-designation by the WA Museum. Reference collections for these morphospecies generally reside with the WA Museum, as expected by the EPA (EPA 2016).

**Table 4-7 Molecular sequencing of specimens per study area**

| Study area | Millipedes | Mygalomorph spiders | Land snails |
|---|---|---|---|
| MN-MA | 19 | 73 (of which 15 failed) | 3 (of which 1 failed) |
| H-MA | 25 | 51 (of which 6 failed) | 1 |
| MN-CC | 8 | 14 (of which 2 failed) | 0 |
| H-CC | 2 | 5 | 0 |
| MN-HR | 1 | 1 | 0 |
| H-HR | 1 | 2 | 0 |
| ReSA | 1 | 8 (of which 2 failed) | 0 |
| Opportunistic sites (GHD vertebrate fauna dry pit) | 3 | 3 | 0 |
| **Total number of sequences** | **60** | **157** | **4** |

#### 4.3.4.4 SRE status

All taxa collected from SRE target groups were assigned to an SRE category of confirmed, likely, potential or widespread, in accordance with Table 2-1.

### 4.3.5 Statistical analysis of survey effectiveness

In order to assess whether further diversity remained hidden due to under sampling, species rarefaction-extrapolation (R/E) curves and the associated 95% confidence intervals, using iNEXT (Chao 2014; Hsieh 2016) were generated, i.e. whether the collection adequately represents the SRE invertebrate fauna of the study area. iNEXT focuses on three measures of Hill numbers of order q: species richness (q=0), Shannon diversity (q=1), and Simpson diversity (q=2) and the diversity estimates used abundance-based data (Gotelli 2011).

An abundance-based estimator tallies the abundance of each species within each sample. Individual sample-size R/E curves were produced for seven of the most species-rich Orders (infraorder for trap-door spiders) in order to determine if the rate of discovery of new species slowed down or reached

saturation with an increase in sample size. Results are represented by the means of repeated resampling (1,000 bootstrap replicates). Examining the slope of these curves allowed assessment of the impact of under sampling on estimating diversity. The results are presented section 5.3. Analyses were run on the seven most species-rich Orders (Infraorder for trap-door spiders):

Arachnids

- Harvestmen (Opiliones)
- Pseudoscorpiones (pseudoscorpions)
- Scorpions (Scorpiones)
- Trap-door spiders (Mygalomorphae)

Diplopoda

- Millipedes

Malacostraca

- Slaters (Isopods)

Gastropoda

- Land snails (Eupulmonata).

### 4.3.6 Survey personnel

The personnel involved in the surveys are listed in Table 4-8. All survey work was carried out under relevant licences issued by DBCA under the BC Act (Table 4-8).

**Table 4-8 Survey personnel**

| Name | Qualifications | Role/s | Years' experience |
|---|---|---|---|
| Karen Crews | BSc (Environmental Biology) (Hons) | Project management, report writing | 20+ |
| Anna Jacks | BSc (Environmental Science) (Hons) | Field management, field surveys, GIS, report writing, taxonomy, lab work | 15+ |
| Simon Pynt | BSc (Zoology) | Field survey | 15+ |
| Dr. Michael Lohr | PhD (Natural Sciences) | Field survey | 15+ |
| Caitlin Nagle | MSc (Biol. Sciences and Conservation Biol.) | Field survey | 5 |
| Brendan Thomson | BSc (Env. Mgmt. and Env. planning) | Field survey, lab work | 1 |
| Paula Strickland | MSc (Biology and Conservation) | Lab work | 2 |
| Paige Maroni | PhD Candidate (Molecular Biology) | Molecular analyses | 5 |
| Dr. Ikrom Nishanbaev | PhD (GIS) | GIS | 10+ |

## 4.4 SURVEY LIMITATIONS

The limitations of the survey have been considered in accordance with EPA (2016) in Table 4-9.

**Table 4-9 Consideration of potential survey limitations**

| Limitations | Comments |
|---|---|
| Field collecting adequacy | All target SRE groups and habitats within the baseline study area were surveyed in accordance with the scope of work, with the exception of two habitats (9 and 11) present in very low extent (see section 5.2.3). This is not considered a limitation for the survey due to the very low representation of these habitats in the baseline study area and because similar habitats were well sampled, in particular for habitat 9 which was rated High PHR. Habitat 11 is considered Low PHR and therefore not of concern. |
| Seasonal factors | May to October is the optimal timing for SRE surveys in the south-west (EPA 2016). The baseline survey was conducted between July and November, so largely within the optimal period. Rainfall was slightly lower than average during winter and wetter than average in spring (see section 3.3), making conditions favourable for sampling into November. |
| Level of resolution of specimen identifications | Taxonomic resolution was achieved to the lowest level possible. Several taxa remain indeterminate due to poor taxonomic knowledge, poor genetic knowledge, inadequate life stage or sex, or a specimen in poor condition. The indeterminate 'SRE' taxa could represent any of the collected or previously collected taxa, or possibly new taxa. Uncertainty in taxonomic resolution could be rectified through further investigation by taxonomists (e.g. describing a species), and/or further surveys to locate more specimens to provide more morphologic or genetic material for comparison.<br>Comparison of genetic material for matches with previously collected taxa in Genbank is limited by the voluntary uploading of sequence data to this database. Some collections reside within the WAM that have not been sequenced or uploaded to Genbank. |
| Competency/experience of survey personnel | All field personnel have previous experience in conducting SRE surveys, with the field leads each having over 10 years experience in invertebrate fauna surveys.<br>Identifications were conducted by personnel with appropriate expertise, including specialist morphological and molecular taxonomists. |

# 5 RESULTS

## 5.1 DESKTOP REVIEW

The desktop review identified a total of 228 of SRE taxa from the MNSA and HSA. Of these records, 36 are confirmed SRE taxa, 10 are likely SRE taxa and 182 are potential SRE taxa (Table 5-1; Figure 5-1).

Mygalomorph spiders represented the largest group of SREs within the desktop search area with a total of 96 taxa, followed by millipedes with 46 taxa and slaters with 43 taxa (Table 5-2). SRE pseudoscorpions, Opiliones (harvest spiders), land snails and scorpions were also returned in the desktop searches (Table 5-2).

Thirty-three of the 37 confirmed SREs are millipedes, of which most belong to the genus *Antichiropus*. The remaining four taxa are a mygalomorph spider (*Missulena* 'MYG198'), a scorpion (*Urodacus planimanus*) and two land snails (*Bothriembryon irvinensis* (also Priority 2) and *B. serpentinus*). Five of the 35 confirmed taxa are formally described species: *Antichiropus nanus*, *Dinocambala ingens* (both millipedes), *U. planimanus*, *B. irvinensis* and *B. serpentinus*. In addition to SRE taxa, the review identified four species listed as Priority within the area of the desktop review, they are also potential SREs (Figure 5-1):

- *Idiosoma sigillatum* (Priority 3) – all but two of the 272 records within the desktop search area are located to the west of the study area along the Swan Coastal Plain (SCP). Two records from the Jarrah Forest were collected approximately 82 km south of the HSA and 38 km north of the MNSA, in 1976 and 1991 respectively
- *Idiosoma schoknechtorum* (Priority 3) – historically recorded from four locations between 20 km and 55 km east of the MNSA in Pinjarra in 1955, 1959 and 1966 and has also been widely recorded (268 records) throughout the desktop search area
- *Euoplos inornatus* (Priority 3) – 20 records from seven locations north/north west of the MNSA and two locations east/south east of the HSE are known. A recent male specimen collected by Phoenix (2020) extended the known range of this species 34 km further south than was previously known
- *Bothriembryon irvinensis* (Priority 2) – recorded 88 km south west of the study area from Gelorup, 9 km south of Bunbury from an urban bushland. This species is rarely collected and only known from the Geographe region.

Of the 228 taxa confirmed, likely or potential SRE taxa, 29 are named species, 161 comprise taxa named only to morphospecies codes as applied by the WA Museum or are not identified to confirmed species level (i.e. "sp." or "cf.") and 37 taxa are unidentifiable ("sp. indet.", i.e. female or juvenile specimens) or could not be identified to species or morphospecies and may represent new species or other species listed in the same genus where records exist (Table 5-2).

Habitat descriptions for previously recorded SREs were highly variable and often broad, with descriptions of 'forest', 'woodland', and included a range of woodland types: Marri, Jarrah, *Melaleuca*, Wandoo, Tuart, Banksia, Sheoak. More discrete habitat features included granite outcrops and riparian zones.

### 5.1.1 Myara North

The desktop records indicate three SRE species have previously been recorded within the MNSA (Figure 5-1):

- *Aname* 'mainae' (potential), the locality for this record states "Collie" and so this may be a GPS or data error

- *Bothriembryon serpentinus* (potential), four specimens were collected from one site off Jarrahdale road in 1976
- *Spherillo* 'sp. 4 Judd 2002)' (potential), this record was returned from the WAM crustacea database search and was collected by Dr. Simon Judd.

None of these are restricted to the MNSA.

### 5.1.2 Holyoake

The desktop records indicate one SRE species has previously been recorded within the HSA (Figure 5-1). Triaenonychidae 'genus008 sp. indet.'/ 'dna - S Zuiddam study' (potential), was returned from the WAM arachnid database search but is not restricted to the HSA.

**Table 5-1 Summary of SRE taxa from the desktop review**

| | Total SRE taxa | Confirmed | Likely | Potential | Priority & potential | Described species | Undescribed morpho-species | Unidentifiable "sp. indet." |
|---|---|---|---|---|---|---|---|---|
| MNSA | 214 | 34 | 10 | 168 | 3 | 27 | 150 | 37 |
| HSA | 226 | 37 | 10 | 177 | 4 | 29 | 160 | 37 |
| **Total** | **228** | **37** | **10** | **181** | **4** | **29** | **162** | **37** |

**Table 5-2 SRE and significant invertebrate taxa identified in the desktop review**

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| **Class Arachnida, infraorder Mygalomorphae (trapdoor spiders)** | | | | | | | | |
| Actinopidae | *Missulena* 'MYG198' | Pot. | Forest, hilltop, Jarrah woodland | WAM, Phoenix 2012, 2021 | 15 km N | 18 km E | Y | Recorded from 3 locations N and S of baseline study area |
| Actinopidae | *Missulena* 'MYG639' | Pot. | Forest | Phoenix 2021 | 81 km S | 51 km S | Y | Only known from 1 location in JAF |
| Actinopidae | *Missulena* 'Phoenix0046' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 61 km S | 30 km S | Y | Only known from 1 location in JAF |
| Actinopidae | *Missulena* 'WorsleyDNA13' | Pot. | Open woodland | Phoenix 2021 | 37 km SSE | 14 km E | Y | Only known from 1 location in JAF |
| Actinopidae | *Missulena* 'sp. indet' | Pot. | Wandoo woodland, granite outcrop | WAM, Phoenix 2012, 2021 | 33 km S | 8 km E | Y | Females & juv. likely multiple species |
| Anamidae | *Aname* 'Brennan sp. 1' | Pot. | Jarrahdale (Alcoa) Mine area | WAM | 6 km N | 34 km N | Y | Only known from a single specimen collected in 1997 |
| Anamidae | *Aname* 'Brennan sp. 2' | Pot. | Jarrahdale (Alcoa) Mine area | WAM | 6 km N | 34 km N | Y | Only known from a single specimen collected in 1997 |
| Anamidae | *Aname* 'Dwellingup' | Pot. | No data | WAM | 32 km SE | 15 km E | Y | Only known from a single representative collected in 1979 |
| Anamidae | *Aname* 'mainae group' | Pot. | No data | WAM | 61 km S | 26km S | Y | Only known from 1 location in JAF |
| Anamidae | *Aname* 'mainae' | Pot. | Jarrah/Marri forest, gravelly sand, urban areas | WAM | Within | 7 km W | Y | 157 WAM records from the SCP and JAF; N, E, S, W of the study areas |
| Anamidae | *Aname* 'MYG119' | Pot. | No data | WAM | 18 km E | 35 km E | Y | Recorded from 3 locations to the E. of the study areas |
| Anamidae | *Aname* 'MYG120' | Pot. | No data | WAM | 30 km E | 33 km E | Y | Only known from a single location |
| Anamidae | *Aname* 'MYG121' | Pot. | Jarrah forest, upland | WAM | 17 km E | 29 km NE | Y | Recorded from 5 locations from a small patch E. of the study areas |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Anamidae | *Aname* 'MYG161' | Pot. | Bushland, urban | WAM | 79 km S | 55 km SSW | Y | 4 records from SCP near Bunbury |
| Anamidae | *Aname* 'MYG184' | Pot. | No data | WAM | 97 km N | 128 km N | Y | Only known from 1 location on SCP |
| Anamidae | *Aname* 'MYG242' | Pot. | Swale, plain | WAM, Phoenix 2012 | 44 km SSE | 22 km E | Y | Known from two records |
| Anamidae | *Aname* 'MYG405' | Pot. | No data | WAM | 22 km W | 45 km W | Y | Only known from 1 location on SCP |
| Anamidae | *Aname* 'MYG496' | Pot. | Urban areas | WAM | 20 km W | 40 km NNW | Y | 4 locations on SCP and Rottnest Is. |
| Anamidae | *Aname* 'MYG522' | Pot. | No data | WAM | 99 km E | 102 km E | Y | 2 records from the Wheatbelt |
| Anamidae | *Aname* 'sp. indet' | Pot. | Wandoo, Jarrah/ Marri woodland, drainage depression | WAM, Phoenix 2021 | 22 km E | 7 km E | Y | Females & juv. likely multiple species |
| Anamidae | *Aname* 'sp. nov' | Pot. | No data | WAM | 20 km E | 31 km NE | Y | Only known from 1 location in JAF |
| Anamidae | *Aname* 'Phoenix0037' | Pot. | Rehabilitation | Phoenix 2021 | 54 km SSE | 24 km SE | Y | 3 specimens from 2 nearby locations |
| Anamidae | *Aname* 'WorsleyDNA03' | Pot. | Woodland | Phoenix 2021 | 79 km S | 48 km S | Y | Only known from 1 location in JAF |
| Anamidae | *Aname* 'WorsleyDNA04' | Pot. | Forest | Phoenix 2021 | 79 km S | 48 km S | Y | Only known from 1 location in JAF |
| Anamidae | *Aname 'WorsleyDNA09'* | Pot. | Woodland | Phoenix 2021 | 85 km S | 55 km S | Y | Only known from 1 location in JAF |
| Anamidae | *Aname tepperi* | Pot. | Forest | Phoenix 2012 | 45 km SE | 19 km SE | Y | Taxon currently being revised (pers. comm. M. Harvey, WAM) |
| Anamidae | Anamidae 'Phoenix0022' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 90 km S | 59 km S | Y | Only known from 1 location in JAF |
| Anamidae | Anamidae 'sp. indet' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 62 km S | 29 km S | Y | 2 records, potentially difft. species |
| Anamidae | *Kwonkan* 'gelorup' | Pot. | Urban areas | WAM | 108 km SSW | 83 km SW | Y | 7 records from SCP, Gelorup area |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Anamidae | *Kwonkan* 'MYG060' | Pot. | No data | WAM | 13 km N | 40 km N | Y | Only known from 1 location on SCP |
| Anamidae | *Kwonkan* 'sp. nov.' | Pot. | No data | WAM | 3 km E | 25 km NNE | Y | Only known from 1 location in JAF |
| Anamidae | *Kwonkan* 'sp. indet' | Pot. | sheoak | WAM | 9 km N | 10 km E | Y | Females & juv. likely multiple species |
| Anamidae | *Proshermacha* 'MYG449' | Pot. | Bushland with industrial, wetland w *Melaleuca*, Marri | WAM | 20 km N | 48 km N | Y | Also 2 records S. of the study areas |
| Anamidae | *Proshermacha* 'MYG471' | Pot. | No data | WAM | 103 km S | 72 km S | Y | 3 records from nearby locations |
| Anamidae | *Proshermacha* 'MYG485' | Pot. | Riparian forest, midslope, plain | LTFMP, WAM | 17 km S | 4.5 km NE | Y | Known from NE and SW of HSA |
| Anamidae | *Proshermacha* 'MYG495' | Pot. | Plain | WAM | 25 km SE | 16 km E | Y | Only known from 2 records |
| Anamidae | *Proshermacha* 'MYG596' | Pot. | Drainage depression | WAM | 29 km SE | 18 km E | Y | Only known from 1 record |
| Anamidae | *Proshermacha* 'MYG646' | Pot. | Forest | Phoenix CBME | 81 km S | 49 km S | Y | Only known from 1 record |
| Anamidae | *Proshermacha* 'MYG658' | Pot. | No data | WAM | 62 km SE | 35 km SE | Y | Known from 2 locations in JAF |
| Anamidae | *Proshermacha* 'MYG659' | Pot. | Urban areas | WAM | 116 km SSW | 89 km SSW | Y | Only known from 1 record |
| Anamidae | *Proshermacha* 'villosa' | Pot. | No data | WAM | 24 km S | 7 km W | Y | Several records from one site between 1977-1979 only |
| Anamidae | *Proshermacha* 'WorselyDNA12' | Pot. | Woodland | Phoenix 2021 | 80 km S | 50 km S | Y | Only known from 1 location in JAF |
| Anamidae | *Proshermacha* 'sp. indet' | Pot. | Jarrah/Marri/Wandoo woodland, under granite, drainage | LTFMP, Phoenix 2021 | 3 km E | 6 km E | Y | Females & juv. likely multiple species |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Anamidae | *Teyl* 'Brennan sp. 2' | Pot. | Jarrahdale (Alcoa) mine area | WAM | 5 km N | 36 km N | Y | Known only from 1 location in JAF |
| Anamidae | *Teyl* 'mandgedal sp. group' | Pot. | Jarrahdale (Alcoa) mine and forest area | WAM | 5 km N | 36 km N | Y | Known only from 1 location in JAF |
| Anamidae | *Teyl* 'MYG241' | Pot. | Wandoo woodland mid-slope | WAM | 10 km N | 7 km E | Y | 4 records ranging from N to SE of the study areas |
| Anamidae | *Teyl* 'MYG245' | Pot. | Forest | WAM, LTFMP | 14 km S | 5 km NE | Y | 4 records to the E/SE of the study areas |
| Anamidae | *Teyl* 'MYG249' | Pot. | *Melaleuca* woodland | WAM | 11 km NW | 38 km N | Y | Records from SCP and Rottnest Is. |
| Anamidae | *Teyl* 'Phoenix0017' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 61 km S | 29 km S | Y | Known only from 1 location in JAF |
| Anamidae | *Teyl* 'waldockae' | Pot. | Tuart, *Melaleuca*/Banksia woodland, shrubland | WAM | 29 km E | 48 km NNW | Y | Several records from SCP near coast |
| Anamidae | *Teyl* 'sp. indet' | Pot. | Wandoo woodland, drainage, granite | WAM | 3 km E | 7 km E | Y | Females & juv. likely multiple species |
| Barychelidae | *Aurecocrypta* 'Phoenix0014' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 70 km S | 35 km S | Y | Known from 3 locations in JAF |
| Barychelidae | Barychelidae 'sp. indet' | Pot. | Forest, Huntly | LTFMP, WAM | 9 km S | 2 km N | Y | Females & juv. likely multiple species |
| Barychelidae | Barychelidae 'Worsley 'DNA10' | Pot. | Woodland | Phoenix 2021 | 85 km S | 55 km S | Y | Known only from 1 location in JAF |
| Barychelidae | *Synothele harveyi* | Pot. | No data | WAM | 3 km E | 25 km N | Y | Only known from 1 specimen collected in 1991 on the coast |
| Barychelidae | *Synothele rubripes* | Pot. | Woodland, open woodland | WAM, Phoenix 2021 | 24 km S | 6 km W | Y | Known from 5 records in JAF |
| Barychelidae | *Synothele* 'MYG640' | Pot. | Jarrah/Marri forest/woodland | WAM, Phoenix 2021 | 80 km S | 50 km S | Y | Known from 5 nearby locations |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Barychelidae | *Synothele* 'WorsleyDNA17' | Pot. | Woodland | Phoenix 2021 | 85 km S | 54 km S | Y | Known only from 1 location in JAF |
| Barychelidae | *Synothele* 'sp. indet' | Pot. | Jarrah/Marri forest/woodland, Wandoo woodland, sheoak, granite | WAM/Phoenix 2012 | 35 km S | 10 km E | Y | Females & juv. likely multiple species |
| Idiopidae | *Bungulla disrupta* | Pot. | No data | WAM | 72 km E | 65 km E | Y | Only known from 1 specimen from 1997 |
| Idiopidae | *Bungulla parva* | Pot. | No data | WAM | 3 km E | 24 km N | Y | 4 records from 2 locations in JAF |
| Idiopidae | *Eucanippe nemestrina* | Pot. | Wandoo woodland | WAM | 55 km SSE | 29 km SE | Y | Only known from 2 specimens |
| Idiopidae | *Eucyrtops* 'arthur_river' | Pot. | No data | WAM | 118 km SSE | 93 km SE | Y | Known from 1 site in Wheatbelt |
| Idiopidae | *Eucyrtops 'collie'* | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 63 km S | 33 km S | Y | Recorded from 2 locations in JAF |
| Idiopidae | *Eucyrtops* 'efoveate sp.' | Pot. | No data | WAM | 76 km S | 46 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'marradong' | Pot. | No data | WAM | 47 km SSE | 26 km E | Y | Known from 1 specimen Phoenix (2012), prev. ID'd as *E. latior* but has undergone genus revision |
| Idiopidae | *Eucyrtops* 'MYG142' | Pot. | On rocks | WAM | 11 km N | 39 km N | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'MYG645' | Pot. | Forest, woodland, blackbutt | WAM, Phoenix 2021 | 48 km SSE | 20 km SSE | Y | Known from 6 records from JAF |
| Idiopidae | *Eucyrtops* 'Phoenix0001' | Pot. | Marri woodland | Phoenix 2021 | 73 km S | 35 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'Phoenix0018' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 73 km S | 35 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'Phoenix0033' | Pot. | Jarrah/Marri woodland | Phoenix 2021 | 120 km S | 81 km S | Y | Known only from 2 locations in JAF |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Idiopidae | *Eucyrtops* 'Phoenix0043' | Pot. | Jarrah woodland | Phoenix 2021 | 78 km S | 46 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'Phoenix0044' | Pot. | Jarrah/Marri/ wandoo woodland | Phoenix 2021 | 78 km S | 45 km S | Y | Known from 4 nearby locations in JAF |
| Idiopidae | *Eucyrtops* 'Phoenix0045' | Pot. | Jarrah woodland | Phoenix 2021 | 63 km S | 34 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Eucyrtops* 'sp. indet' | Pot. | Jarrah/Marri forest, wandoo woodland, drainage, granite | WAM, Phoenix 2012 | 6 km N | 8 km E | Y | Females & juv. likely multiple species |
| Idiopidae | *Eucyrtops* 'WorsleyDNA06' | Pot. | Woodland, open woodland | Phoenix 2021 | 38 km S | 14 km E | Y | 5 records from nearby locations in JAF |
| Idiopidae | *Eucyrtops* 'WorsleyDNA08' | Pot. | Woodland, open woodland | Phoenix 2021 | 58 km SSE | 30 km SE | Y | 5 records from nearby locations in JAF |
| Idiopidae | *Eucyrtops latior* | Pot. | Jarrah forest | Phoenix 2012 | 45 km SSE | 22 km SE | Y | Species under revision as evidence >1 species (pers. comm. M. Harvey, WAM). |
| Idiopidae | *Euoplos* 'minimus' | Pot. | No data | WAM | 3 km E | 24 km N | Y | Only 1 specimen collected in 1991 |
| Idiopidae | *Euoplos* 'Phoenix0013' | Pot. | Jarrah woodland | Phoenix 2021 | 63 km S | 32 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Euoplos* 'sp. nov.' | Pot. | Jarrahdale (Alcoa) mine/forest area | WAM | 6 km N | 37 km N | Y | Only 1 specimen collected in 1993 |
| Idiopidae | *Euoplos inornatus* | Pot., P3 | Jarrah forest, riparian/creekline, granite outcrop | WAM, Phoenix 2021 | 6 km W | 20 km E | Y | Recorded from several locations in JAF and SCP foothills |
| Idiopidae | *Gaius cooperi* | Pot. | Urban areas | WAM | 91 km S | 61 km S | Y | 5 records from nearby locations |
| Idiopidae | *Idiosoma* 'Donnelly River group' | Pot. | Urban areas | WAM | 124 km S | 94 km S | Y | Known only from 1 location in JAF |
| Idiopidae | *Idiosoma* 'MYG075' | Pot. | Under rock | WAM | Within | 27 km N | Y | Known only from 1 location in JAF |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Idiopidae | *Idiosoma* 'MYG187' | Pot. | Jarrah/Marri, wandoo woodland | WAM | 37 km SSE | 15 km E | Y | Known from 3 locations in the JAF |
| Idiopidae | *Idiosoma* 'nannup' | Pot. | No data | WAM | 120 km S | 93 km S | | Known only from 1 location in JAF |
| Idiopidae | *Idiosoma* 'sp. indet' | Pot. | Jarrah forest, wandoo woodland, granite | WAM | 6 km W | 15 km E | Y | Females & juv. likely multiple species |
| Idiopidae | *Idiosoma* 'Phoenix0002' | Pot. | Jarrah woodland | Phoenix 2021 | 70 km S | 37 km S | Y | Known from 2 locations in JAF |
| Idiopidae | *Idiosoma* 'WorsleyDNA05' | Pot. | Woodland, open woodland, forest | Phoenix 2021 | 38 km S | 14 km E | Y | Known from 4 locations in JAF |
| Idiopidae | *Idiosoma* 'WorsleyDNA07' | Pot. | Woodland | Phoenix 2021 | 59 km SSE | 33 km SE | Y | Known from 2 locations in JAF |
| Idiopidae | *Idiosoma schoknechtorum* | Pot. | No data | WAM | 17 km E | 44 km NE | Y | Collected from te Wheatbelt |
| Idiopidae | *Idiosoma sigillatum* | Pot., P3 | Woodland, low-lying riparian woodland, urban areas | DBCA, WAM | 33 km SW | 25 km W | Y | 263 records with all but 3 from SCP/Rottnest I. |
| Idiopidae | Idiopidae 'sp. indet' | Pot., P3 | various | Phoenix 2012, 2021 | 44 km SSE | 22 km SE | Y | Females & juv. likely multiple species |
| Migidae | *Bertmainius opimus* | Pot. | Blackbutt | WAM | 107 km S | 77 km S | Y | Collected from JAF |
| Unknown | Mygalomorphae 'WorsleyDNA11' | Pot. | Forest | Phoenix 2021 | 80 km S | 50 km S | Y | Known only from 1 location in JAF |
| **Class Arachnida, Order Opiliones (harvestmen spiders)** | | | | | | | | |
| Caddidae | *Hesperopilio mainae* | Pot. | No data | WAM | 24 km S | 6 km E | Y | Known form 1 location in JAF |
| Neopilionidae | *Ballarra longipalpus* | Pot. | Jarrah/Marri/ Wandoo woodland/forest | WAM, Phoenix 2021 | 4 km N | 7 km W | Y | Known from several locations in JAF |
| Neopilionidae | *Ballarra* 'sp. indet' | Pot. | No data | Phoenix 2021 | 58 km SE | 28 km SE | Y | Collected from 1 location in JAF |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Neopilionidae | *Megalopsalis* 'sp. indet.' | Pot. | Jarrah/Marri woodland/forest, granite outcrop | WAM, Phoenix 2021 | 3 km E | 6 km W | Y | Poorly studied genus, records may represent >1 species |
| Neopilionidae | Neopilionidae 'sp. indet' | Pot. | Granite outcrop | WAM | 26 km SE | 15 km E | Y | Poorly studied genus, records may represent >1 species |
| Triaenonychidae | *Calliuncus* 'sp. indet' | Pot. | Jarrah/Marri woodland/open woodland | WAM, Phoenix 2021 | 44 km SSE | 19 km E | Y | Poorly studied genus, records may represent >1 species |
| Triaenonychidae | *Nunciella* 'sp. 6' | Pot. | Under granite | WAM | 5 km E | 35 km N | Y | Collected from 1 location in JAF |
| Triaenonychidae | *Nunciella* 'sp. indet' | Pot. | Jarrah/Marri forest, open woodland | WAM, Phoenix 2020 | 30 km S | 9 km E | | Poorly studied genus, records may represent >1 species |
| Triaenonychidae | *Nunciella* 'sp. nov.' | Pot. | | WAM, Phoenix 2012, 2021, OES2011 | 4 km N | 38 km N | Y | Collected from one site in 1971 |
| Triaenonychidae | *Nunciella karriensis* | Pot. | Marri with *Macrozamia* and rich immature soil | WAM | 2 km N | 36 km N | Y | Also located 40 km S of HSA |
| Triaenonychidae | Triaenonychidae 'genus008 sp. indet.'/ 'dna - S Zuiddam study' | Pot. | Open Jarrah forest, open woodland, woodland, riparian, regrowth eucalypt | WAM, Phoenix 2021,LTFMP | 4 km N | Within | Y | Recorded from several locations in JAF, N and S of the study areas |
| Triaenonychidae | Triaenonychidae 'genus008 sp. 5' | Pot. | No data | WAM | 5 km N | 35 km N | Y | Collected from 1 location in JAF |
| Triaenonychidae | Triaenonychidae 'genus 003' 'sp. indet' | Pot. | Woodland | Phoenix 2021 | 33 km SSE | 14 km E | Y | 7 records from JAF |
| **Class Arachnida, Order: Scorpiones (scorpions)** | | | | | | | | |
| Buthidae | *Lychas* 'majeri' | Pot. | SCP | WAM | 27 km W | 48 km NNW | Y | Recorded from SCP |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Buthidae | *Lychas* 'sp. indet' | Pot. | No data | WAM | 54 km S | 31 km SW | Y | 1 record from SCP |
| Buthidae | *Lychas* 'subsplendens' | Pot. | No data | WAM | 99 km E | 100 km E | Y | Recorded from Wheatbelt |
| Urodacidae | *Urodacus* 'sp. indet' | Pot. | No data | WAM | 3 km E | 35 km N | Y | 2 records, possibly difft. species |
| Urodacidae | *Urodacus* 'woodwardii' | Pot. | No data | WAM | 10 km NW | 38 km NW | Y | Recorded from Perth foothills |
| Urodacidae | *Urodacus planimanus* | CF | Jarrah/Marri, Wandoo woodland, drainage, granite, urban areas | WAM | < 1 km E | 5 km E | Y | 395 records within a 10,000 km$^2$ area of N. Jarrah Forest, with a handful of records from SCP and Wheatbelt |
| **Class Arachnida, Order Pseudoscorpiones (pseudoscorpions)** | | | | | | | | |
| Atemnidae | Atemnidae 'sp. indet' | Pot. | Riparian forest | LTFMP | 42 km S | 9 km W | Y | 1 record from JAF |
| Chernetidae | *Balgachernes occultus* | Pot. | *Xanthorrhoea preissii* | WAM | < 1 km S | 9 km NW | Y | Known from 10 records from Darling Scarp |
| Chernetidae | Chernetidae 'PSEAAF' 'PSE130' | Pot. | No data | WAM | 43 km S | 24 km ESE | Y | Known from 2 records from SCP foothills |
| Chthoniidae | *Austrochthonius* 'austini' | Pot. | Jarrah/Marri forest | WAM | 11 km E | 32 km SE | Y | Known from 2 records from JAF |
| Chthoniidae | *Austrochthonius* 'lesueuri' | Pot. | Melaleuca spp. woodland | WAM | 70 km SW | 48 km SW | Y | Recorded from SCP |
| Chthoniidae | *Pseudotyrannochthonius* 'Harms sp. Darling Range 1' | Pot. | Jarrah/Marri woodland/forest, wandoo woodland | WAM, Phoenix 2021 | 1 km N | 24 km N | Y | Several records from JAF and 1 from SCP |
| Chthoniidae | *Pseudotyrannochthonius* 'sp. indet' | Pot. | Open woodland | Phoenix 2021 | 79 km S | 49 km S | Y | 1 record in JAF |
| Olpiidae | Chthoniidae 'sp. indet' | Pot. | Woodland, open woodland | Phoenix 2021 | 39 km S | 18 km E | | 2 records from JAF, possibly difft. species |
| Olpiidae | *Beierolpium* 'sp. indet' | Pot. | Forest, woodland | WAM, Phoenix 2021 | 3 km E | 1 km W | | several records from JAF and SCP, possibly difft. species |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Olpiidae | *Beierolpium* '8/4' | Pot. | No data | WAM | 13 km S | 1 km W | Y | Known from 3 records in JAF |
| Olpiidae | *Beierolpium* '8/4 lge' | Pot. | No data | WAM | 30 km S | 9 km E | Y | Known from 1 record in JAF |
| Olpiidae | *Euryolpium* 'sp. indet' | Pot. | Woodland | Phoenix 2020 | 85 km S | 55 km S | Y | Known from 1 record in JAF |
| Olpiidae | *Indolpium* 'sp. indet' | Pot. | Woodland | Phoenix 2020 | 31 km SSE | 9 km E | Y | Known from 1 record in JAF |
| **Class Myriapoda, Order Diplopoda (millipedes)** | | | | | | | | |
| Dalodesmidae | cf Sphaerotrichopus 'sp. indet' | Pot. | Riparian zone | Phoenix 2021 | 38 km S | 14 km E | Y | Poorly understood taxon |
| Dalodesmidae | cf Sphaerotrichopus 'WorsleyDNA01' | Pot. | Woodland, open woodland | Phoenix 2021 | 38 km S | 14 km E | Y | Poorly understood taxon |
| Dalodesmidae | Dalodesmidae 'sp. indet' | Pot. | Forest | LTFMP | 15 km S | 5 km N | Y | Poorly understood taxon |
| Iulomorphidae | *Dinocambala ingens* | CF | Jarrah forest, under Marri bark, granite | WAM | 16 km N | 45 km N | Y | Several records mostly from Darling Scarp and SCP north of Perth |
| Iulomorphidae | Iulomorphidae 'genus indet.' 'large, black sp.' | Pot. | No data | WAM | 34 km SW | 12 km SW | Y | 3 records from JAF |
| Iulomorphidae | Iulomorphidae 'genus indet.' 'small, brown sp.' | Pot. | Under rock | WAM | 34 km SW | 12 km SW | Y | 1 record in JAF |
| Iulomorphidae | Iulomorphidae 'sp. indet' | Pot. | Forest | Phoenix 2021 | 65 km S | 35 km S | Y | Potentially difft. spp. |
| Iulomorphidae | *Podykipus collinus* | Pot. | Forest, woodland | WAM/ Phoenix 2021 | 37 km NW | 63 km NW | Y | Several records known from JAF |
| Paradoxosomatidae | *Antichiropus* 'bancroft, DIP105' | CF | No data | WAM | 105 km S | 73 km S | Y | 1 record in JAF |
| Paradoxosomatidae | *Antichiropus* 'bannister (DIP178)' | CF | woodland | Phoenix 2021 | 32 km SE | 14 km E | Y | 1 record in JAF |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Paradoxosomatidae | *Antichiropus* 'collie (DIP177)' | CF | Forest/woodland | Phoenix 2021 | 45 km SSE | 19 km SE | Y | Several records in JAF between Collie and Quindanning |
| Paradoxosomatidae | *Antichiropus* 'DIP045' | CF | No data | WAM | 108 km SSW | 82 km SW | Y | 2 records from 1 location on SCP |
| Paradoxosomatidae | *Antichiropus* 'DIP046 boddington' | CF | Jarrah/Marri forest/ woodland, granite, pine plantation | WAM/Phoenix 2012, Phoenix 2021 | 45 km SSE | 19 km SE | Y | Several records from Boddington and Collie |
| Paradoxosomatidae | *Antichiropus* 'DIP056' | CF | No data | WAM | 107 km SE | 82 km SE | Y | Recorded from Wheatbelt |
| Paradoxosomatidae | *Antichiropus* 'DIP066, boyagin' | CF | No data | WAM | 58 km E | 68 km E | Y | Recorded from Wheatbelt |
| Paradoxosomatidae | *Antichiropus* 'GI' | CF | *Melaleuca* woodland, Tuart forest | WAM | 28 km WNW | 47 km NW | Y | Several records on SCP and Rottnest Is. |
| Paradoxosomatidae | *Antichiropus* 'goldmine' | CF | Wandoo woodland | WAM/Phoenix 2012 | 32 km SE | 20 km | Y | Known from 5 records in JAF |
| Paradoxosomatidae | *Antichiropus* 'lane poole' DIP181 | CF | Jarrah forest | WAM | 31 km S | 8 km SW | Y | Known from 3 records in 1 location |
| Paradoxosomatidae | *Antichiropus* 'marradong' | CF | Jarrah/Marri forest, wandoo woodland, drainage, granite outcrop | WAM/Phoenix 2011 | 19 km S | 6 km E | Y | Known form several records in E JAF |
| Paradoxosomatidae | *Antichiropus* 'minnivale 2' | CF | No data | WAM | 72 km ESE | 60 km SE | Y | Recorded from Wheatbelt |
| Paradoxosomatidae | *Antichiropus* 'mt saddleback' DIP108 | CF | Forest, wandoo | WAM, Phoenix 2021 | 30 km S | 7 km W | Y | Known from several locations in N JAF |
| Paradoxosomatidae | *Antichiropus* 'Norman Road 1' | CF | No data | WAM | 9 km NW | 39 km N | Y | Few locations from Perth foothills |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Paradoxosomatidae | *Antichiropus* 'saddleback2' DIP137 | CF | No data | WAM/Phoenix 2011 | 57 km S | 29 km SE | Y | Known only from 2 locations in E JAF |
| Paradoxosomatidae | *Antichiropus* 'saddleback3' DIP182 | CF | Jarrah/Marri forest | WAM | 19 km S | 6 km E | Y | 1 record from JAF |
| Paradoxosomatidae | *Antichiropus* 'SB1' | CF | No data | WAM/Phoenix 2012 | 62 km SSE | 37 km SE | Y | 1 record from E JAF |
| Paradoxosomatidae | *Antichiropus* 'serpentine' | CF | Jarrah forest | WAM | 5 km W | 35 km NW | Y | Known from 1 location at Serpentine |
| Paradoxosomatidae | *Antichiropus* 'southwest' DIP183 | CF | Jarrah/Marri forest | WAM | 28 km S | 8 km E | Y | 1 record from E JAF |
| Paradoxosomatidae | *Antichiropus* 'sp. indet' | Pot. | Jarrah/Marri forest/woodland, wandoo woodland, granite outcrop, drainage | WAM, LTFMP, Phoenix 2012, 2021 | 3 km E | 5 km W | Y | Females & juv. likely multiple species |
| Paradoxosomatidae | *Antichiropus* 'tuttaning' | CF | No data | WAM | 69 km SE | 60 km E | Y | Recorded from Wheatbelt |
| Paradoxosomatidae | *Antichiropus* 'UBS2' | CF | Banksia woodland, Marri/*Melaleuca* woodland | WAM | 13 km NW | 40 km N | Y | Several records from SCP N of Perth |
| Paradoxosomatidae | *Antichiropus* 'UBS3' | CF | Marri/*Melaleuca* woodland | WAM | 23 km NW | 40 km W | Y | Several records from SCP N of Perth |
| Paradoxosomatidae | *Antichiropus* 'worsley DIP176' | CF | Open woodland | Phoenix 2021 | 79 km S | 49 km S | Y | Recorded from 2 locations in JAF |
| Paradoxosomatidae | *Antichiropus* 'WorsleyDNA18' | Ot.P | Open woodland | Phoenix 2021 | 46 km SE | 22 km E | Y | Known from 1 location in E JAF |
| Paradoxosomatidae | *Antichiropus nanus* | CF | Jarrah forest with *Agonis* | WAM | 99 km S | 70 km S | Y | Known from 1 location in JAF and 1 in foothills near Bunbury |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Siphonotidae | 'Hesperisiphon' 'cacaoi' | CF | No data | WAM | 3 km E | 23 km SSE | Y | Collected in 1991 in 1 location |
| Siphonotidae | 'Hesperisiphon' 'mt saddleback' | CF | Midslope, swale | WAM/Phoenix 2012 | 47 km SSE | 27 km ESE | Y | Several records from E JAF |
| Siphonotidae | 'Megalosiphon' 'sp. indet' | Pot. | Woodland | WAM | 45 km S | 20 km E | Y | Poorly understood taxon |
| Siphonotidae | *Rhinotus michaelseni* | Pot. | No data | WAM | 10 km N | 40 km N | Y | Known from 1 location in JAF |
| Siphonotidae | Siphonotidae 'DIPAAF' 'cf. michaelseni' | Lik. | Forest, woodland, open woodland | Phoenix 2021 | 35 km SE | 13 km E | Y | Recorded from 3 locations in JAF |
| Siphonotidae | Siphonotidae 'DIPAAF' 'DIP188' 'boddington' | CF | Wandoo woodland | Phoenix 2021 | 58 km S | 28 km S | Y | Recorded from 2 locations in JAF |
| Siphonotidae | Siphonotidae 'DIPAAF' 'WorsleyDNA14' | CF | Woodland | Phoenix 2021 | 44 km S | 19 km SE | Y | Known only from 1 location in JAF |
| Siphonotidae | Siphonotidae 'DIPAAF' 'WorsleyDNA15' | CF | Forest | Phoenix 2021 | 80 km S | 50 km S | Y | Known only from 1 location in JAF |
| Siphonotidae | Siphonotidae 'DIPAAF' 'sp. indet' | Lik. | Open woodland | Phoenix 2021 | 79 km S | 49 km S | Y | Poorly understood taxon |
| Siphonotidae | Siphonotidae 'DIPAAG' 'DIP189' 'collie' | CF | Forest, woodland | Phoenix 2021 | 63 km S | 32 km S | Y | Known from several locations in JAF |
| Siphonotidae | Siphonotidae 'DIPAAG' 'DIP192' 'mt saddleback' | CF | Forest, woodland | Phoenix 2021 | 70 km S | 36 km S | Y | Recorded from 2 locations in JAF |
| Siphonotidae | Siphonotidae 'DIPAAH 'DIP190' 'Harris River' | CF | No data | WAM | 60 km S | 30 km S | Y | Known only from 1 location in JAF |
| Siphonotidae | Siphonotidae 'Marradong' | Pot. | No data | WAM/Phoenix 2012 | 45 km SSE | 22 km E | Y | Known only from 1 location in JAF |
| **Class Malacostraca, Order Isopoda (slaters)** | | | | | | | | |

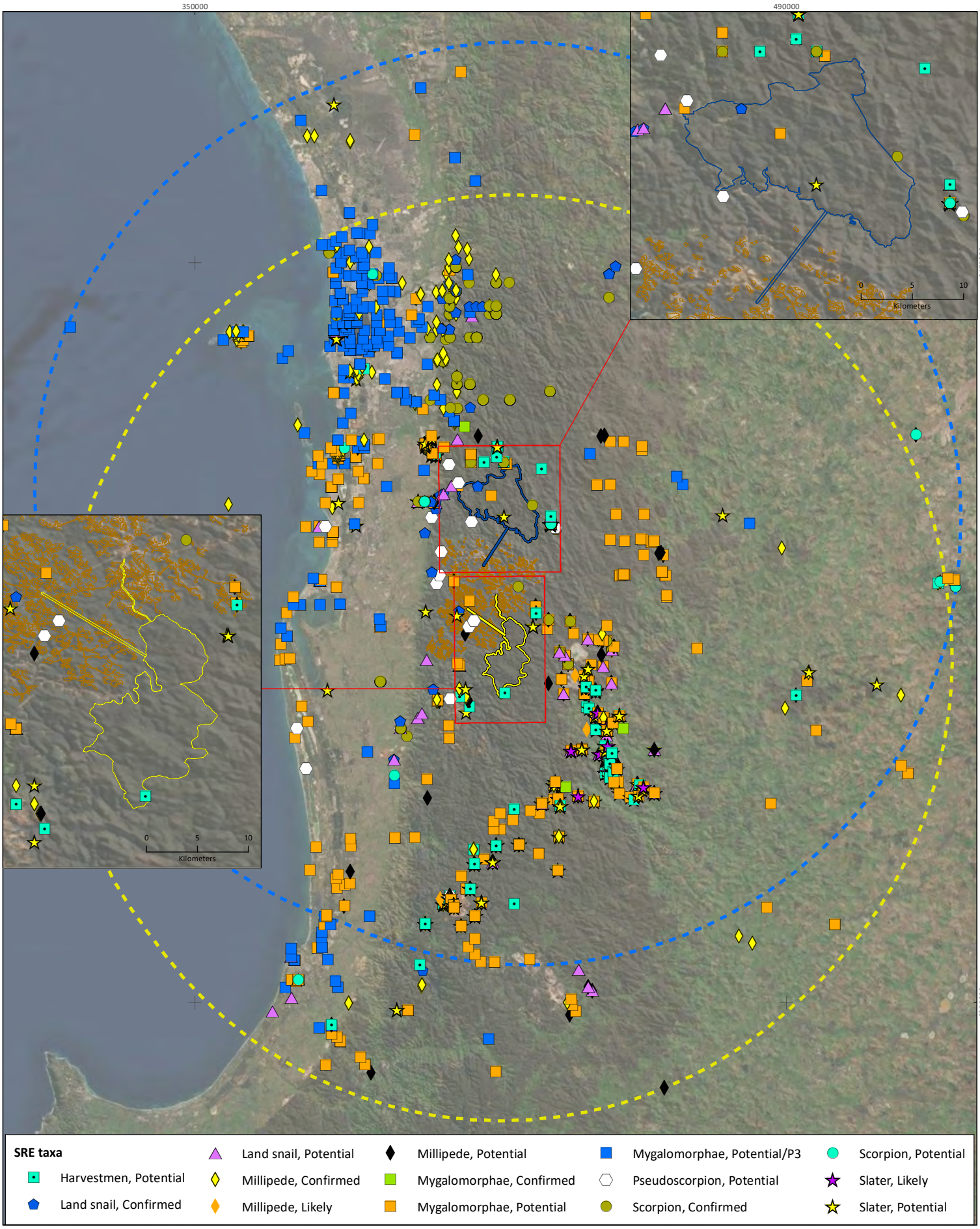
| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Armadillidae | *Acanthodillo 'sp. 3 (Judd 2002)'* | Pot. | No data | WAM | 35 km S | 9 km SW | Y | Recorded from 1 location in JAF |
| Armadillidae | *Acanthodillo* '5' | Pot. | Woodland | Phoenix 2021 | 52 km S | 83 km S | Y | Recorded from 1 location in JAF |
| Armadillidae | *Acanthodillo* 'sp. indet' | Pot. | Riparian forest, woodland | WAM, LTFMP, Phoenix 2021 | 20 km S | 2 km E | Y | Poorly understood genus, may represent different species |
| Armadillidae | Acanthodillo 'sp. worsley A' | Pot. | No data | WAM | 58 km SE | 36 km SE | Y | Known only from 1 location in JAF |
| Armadillidae | Acanthodillo 'sp. worsley B' | Pot. | No data | WAM | 53 km SSE | 24 km SE | Y | Known only from 1 location in JAF |
| Armadillidae | *Armadillo* (*Acanthadillo*) *flavus* | Pot. | Woodland, rehab. | WAM, LTFMP, Phoenix 2021 | 3 km E | 10 km W | Y | Several records throughout JAF |
| Armadillidae | *Buddelundia* '04' | Pot. | woodland | WAM, Phoenix 2021 | 10 km NW | 37 km N | Y | Recorded from 3 locations in E JAF |
| Armadillidae | *Buddelundia* 'sp. 1 (Judd 2002)' | Pot. | No data | WAM | 9 km W | 27 km NNW | Y | Recorded from 1 location on SCP |
| Armadillidae | *Buddelundia* 'sp. 4 (Judd 2002)' | Pot. | No data | WAM | 10 km NW | 37 km N | Y | Recorded at nearby locations on SCP |
| Armadillidae | *Buddelundia* 'sp. 5 (Judd 2002)' | Pot. | No data | WAM | 3 km W | 25 km SSW | Y | Recorded from 1 location in JAF |
| Armadillidae | *Buddelundia* 'sp. 6 (Judd 2002)' | Pot. | No data | WAM | 106 km S | 78 km S | Y | Recorded from 1 location in JAF |
| Armadillidae | *Buddelundia* 'sp. indet' | Pot. | Open woodland | WAM/Phoenix 2021 | 13 km E | 23 km NE | Y | May represent different species |
| Armadillidae | *Buddelundia* 'sp. indet' A | Lik. | Woodland, open woodland | Phoenix 2021 | 39 km SE | 17 km E | Y | Recorded from 1 location in JAF |
| Armadillidae | *Buddelundia albomaculata* | Pot. | Dryandra woodland | WAM | 87 km SSE | 81 km E | Y | Recorded from Wheatbelt |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Armadillidae | *Buddelundia nigripes* | Pot. | Forest, riparian | WAM, LTFMP, Phoenix 2021 | 35 km NE | 61 km NNW | Y | Several records from SCP and JAF |
| Armadillidae | *Buddelundia opaca* | Pot. | No data | WAM | 10 km W | 28 km NNW | Y | Recorded from SCP |
| Armadillidae | *Cubaris* 'sp. 1 (Judd 2002)' | Pot. | No data | WAM | 10 km NW | 37 km N | Y | Recorded from Perth foothills |
| Armadillidae | *Pseudodiploexochus* '1' | Lik. | Woodland, forest | WAM, Phoenix 2012, 2021 | 3 km W | 25 km SSW | Y | Several records throughout JAF |
| Armadillidae | *Pseudodiploexochus* '2' | Pot. | No data | WAM | 3 km W | 25 km SSW | Y | Recorded from 2 locations in JAF |
| Armadillidae | *Pseudodiploexochus* 'sp. indet' A | Lik. | Woodland | Phoenix 2021 | 37 km SSE | 13 km E | Y | Recorded from 1 location in JAF |
| Armadillidae | *Pseudodiploexochus* 'sp. indet' B | Pot. | Pot. | Phoenix 2021 | 48 km SSE | 19 km SE | Y | Recorded from 1 location in JAF |
| Armadillidae | *Pseudodiploexochus* 'X' | Lik. | No data | Phoenix 2012 | 51 km SSE | 22 km SE | Y | Recorded from 2 locations in JAF |
| Armadillidae | *Pseudodiploexochus* 'sp. indet' | | No data | Phoenix 2021 | 73 km SSE | 35 km SE | | Recorded from 2 locations in JAF |
| Armadillidae | *Pseudolaureola* 'sp. 5 (Judd 2002)' | Pot. | No data | WAM | 107 km S | 77 km S | Y | Recorded from 1 location in JAF |
| Armadillidae | *Spherillo* 'sp. 2 Judd 2002)' | Pot. | No data | WAM | 10 KN NW | 37 km N | Y | Recorded from Perth foothills |
| Armadillidae | *Spherillo* 'sp. 3 Judd 2002)' | Pot. | No data | WAM | 27 km W | 33 km NW | Y | Recorded on SCP |
| Armadillidae | *Spherillo* 'sp. 4 Judd 2002)' | Pot. | Under bark | WAM | Within | 19 km N | Y | 4 records from JAF and Wheatbelt |
| Armadillidae | *Spherillo* 'sp. indet' | Pot. | No data | WAM | 9 km E | 30 km NNE | Y | |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| Platyarthridae | *Paraplatyarthrus* 'sp. indet' A | Lik. | Woodland | Phoenix 2021 | 58 km SSE | 30 km SE | Y | Recorded from 4 locations in JAF |
| Platyarthridae | *Paraplatyarthrus* 'sp. indet' B | Lik. | Woodland | Phoenix 2021 | 58 km SSE | 30 km SE | Y | Known only form 1 location in JAF |
| Platyarthridae | *Paraplatyarthrus* 'sp. indet' C | Lik. | Woodland | Phoenix 2021 | 51 km SSE | 25 km SE | Y | Known only form 1 location in JAF |
| Platyarthridae | *Paraplatyarthrus* 'sp. indet' D | Lik. | Woodland | Phoenix 2021 | 45 km SSE | 19 km SE | Y | Known only form 1 location in JAF |
| Platyarthridae | *Paraplatyarthrus* 'sp indet' | Pot. | Woodland | Phoenix 2021 | 45 km SSE | 19 km SE | Y | Several records in JAF. May be >1 species |
| Platyarthridae | *Trichorhina* 'W' | Pot. | Forest | Phoenix 2012 | 47 km SE | 23 km SE | Y | Recorded from 3 locations in JAF |
| Philosciidae | *Laevophiloscia* 's' or '1' | Pot. | Forest, woodland, open woodland | WAM, Phoenix 2012, 2021 | 3 km E | 25 km N | Y | Many records throughout th JAF |
| Philosciidae | *Laevophiloscia* 'sp. indet' | Pot. | Woodland, open woodland, riparian | Phoenix 2020, 2021, LTFMP | 20 km S | 2 km E | Y | Recorded throughout JAF but may represent several species |
| Philosciidae | *Laevophiloscia perlata* | Pot. | Harvey estuary | WAM | 38 km W | 47 km SSW | Y | Recorded from SCP |
| Philosciidae | Philosciidae 'sp 1' | Pot. | No data | WAM | 3 km E | 25 km N | Y | Recorded from JAF and SCP but may represent several species |
| Styloniscidae | *Styloniscus* '1' | Pot. | Forest, woodland, open woodland | WAM, Phoenix 2021 | 3 km E | 5 km SW | Y | Many records throughout JAF |
| Styloniscidae | *Styloniscus* '7' | Pot. | Forest, woodland | Phoenix 2012, 2021 | 44 km S | 20 km E | Y | Many records throughout JAF |
| Styloniscidae | *Styloniscus* 'sp. B (Worsley)' | Pot. | Forest | Phoenix 2021 | 66 km S | 35 km S | Y | Known only from 1 location in JAF |
| Styloniscidae | *Styloniscus* 'sp. indet' | Pot. | Forest | Phoenix 2021 | 63 km S | 30 km S | Y | Recorded throughout JAF but may represent several species |

| Higher taxon, family | Species | SRE status[1] | Habitat | Source | Proximity to MNSA | Proximity to HSA | Records outside MNSA & HSA | Comments[2] |
|---|---|---|---|---|---|---|---|---|
| **Class Gastropoda, Order Eupulmonata (land snails)** | | | | | | | | |
| Bothriembryontidae | *Bothriembryon* cf. *bradshawi* | Pot. | Rehabilitation | Phoenix 2021 | 54km SSW | 27 km SW | Y | Recorded from 2 locations in JAF |
| Bothriembryontidae | *Bothriembryon irvinensis* | CF, P2 | Granite, leaf litter | WAM | 108 km SSW | 84 km SW | Y | Known from SCP |
| Bothriembryontidae | *Bothriembryon* cf. *irvinensis* | Pot. | Granite, leaf litter | WAM | 108 km SSW | 84 km SW | Y | Recorded from SCP, near Bunbury |
| Bothriembryontidae | *Bothriembryon serpentinus* | CF | Heath, under rocks, granite, plain | WAM | Within | 2 km W | Y | Many records from JAF and Perth foothills |
| Bothriembryontidae | *Bothriembryon* cf. *serpentinus* | Pot. | | WAM | 26 km S | 14 km W | Y | Several records throughout JAF |
| Bothriembryontidae | *Bothriembryon* 'sp. indet' | Pot. | Coast, under granite | WAM | 1 km W | 7 km W | Y | Recorded from SCP and JAF. Likely to represent several species |
| Charopidae | *Epinicium restifer* | Pot. | No data | WAM | 10 km W | 30 km NNW | Y | Recorded from 1 location in JAF |
| Charopidae | *Epinicium restifer firmatum* | Pot. | No data | WAM | 46 km NW | 73 km NNW | Y | Recorded from the SCP |
| Charopidae | *Luinodiscus* cf. *repens* | Pot. | Heathland | WAM | 37 km N | 10 km E | Y | Recorded from 2 locations in JAF |
| Charopidae | *Luinodiscus* cf. *sublestus* | Pot. | Creekline in wandoo woodland, wandoo rocky outcrop | WAM, Phoenix 2012 | 38 km S | 19 km E | Y | Recorded from the E JAF and 1 record from Darling Scarp |
| Charopidae | *Luinodiscus* 'sp. indet' | Pot. | 1331-2,5,11,15 | Phoenix 2021 | 58 km S | 25 km S | Y | Recorded in JAF but may represent several species |
| Charopidae | *Westraloma* 'sp. indet' / cf. *Westraloma* '1' | Pot. | Jarrah woodland, wandoo woodland, open heath | WAM, Phoenix 2012 | 27 km S | 7 km E | Y | Recorded in the JAF |

1 – SRE status (CF = confirmed, Pot. = potential, Lik. = likely). 2 – JAF = Jarrah Forest, SCP = Swan Coastal Plain



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Myara North study area
Myara North desktop study area
Holyoake study area
Holyoake desktop study area
Rehabilitation study area

# Figure 5-1
## Desktop records of SRE invertebrates

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## 5.2 FIELD SURVEY

### 5.2.1 SRE habitats

A total of ten SRE habitats were defined within the remnant vegetation of the baseline study area, based on the Mattiske (2021) vegetation mapping (Table 5-3; Figure 5-2). Collectively, native vegetation represents 27,128.8 ha (96.4%) of the baseline study area. An additional 539.4 ha (1.9%) represents rehabilitated land and the remainder (1.65%) is cleared (e.g. for infrastructure, plantations or dams).

The baseline study area was dominated by Jarrah/Marri woodland/forest habitats (2, 4, 5 and 7). Both the MNSA and HSA were dominated by SRE habitat 4, comprising 64.5% and 80.0% of the study areas respectively.

Ten habitats were present within the MNSA and seven SRE habitats were present in the HSA. Notable habitats that were absent from the HSA but present in the MNSA were habitat 1 (*Melaleuca* woodlands/shrublands), 9 (*Eucalytpus* woodlands) and 11 (Open wandoo woodlands). Habitat 3 (granite associated vegetation) was minimal in HSA comprising less than 0.01%.

Approximately 6,624.8 ha (23.5%) of the study area has a high potential habitat rating (PHR), with 26.8% and 18.1% in the MNSA and HSA respectively.

Two habitats (9 and 11) were not surveyed because representation in the baseline study area was very low:

- High – Open *Eucalyptus* woodlands (wet) on sands, clay loam or sandy-gravel on lower slopes and valley floors (9) (0.32% of the baseline study area)
- Low - Open woodlands of Wandoo with clay-loams and some gravel on upper slopes (11) (0.01% of the baseline study area).

Habitat 9 is very similar to habitats 2, 10 and 11, with valley floors and lower slopes well sampled in these habitats.

Some inconsistencies in Phoenix site descriptions (Appendix 1**Error! Reference source not found.**) and vegetation/habitat mapping (Mattiske 2021) may occur due to microhabitats sampled within the 1:10,000 mapping that are too small to delineate from the broader surroundings, or minor inaccuracies in GPS and/or habitat boundaries.

Sites within habitat 12, the rehabilitated areas, were overall considered Low PHR for SREs as they had more patchy litter cover and refugial material and mature vegetation structure than remnant vegetation sites. These attributes were variable throughout the rehabilitation sites however.

**Table 5-3 Description of SRE habitats in the baseline study area and corresponding vegetation types**

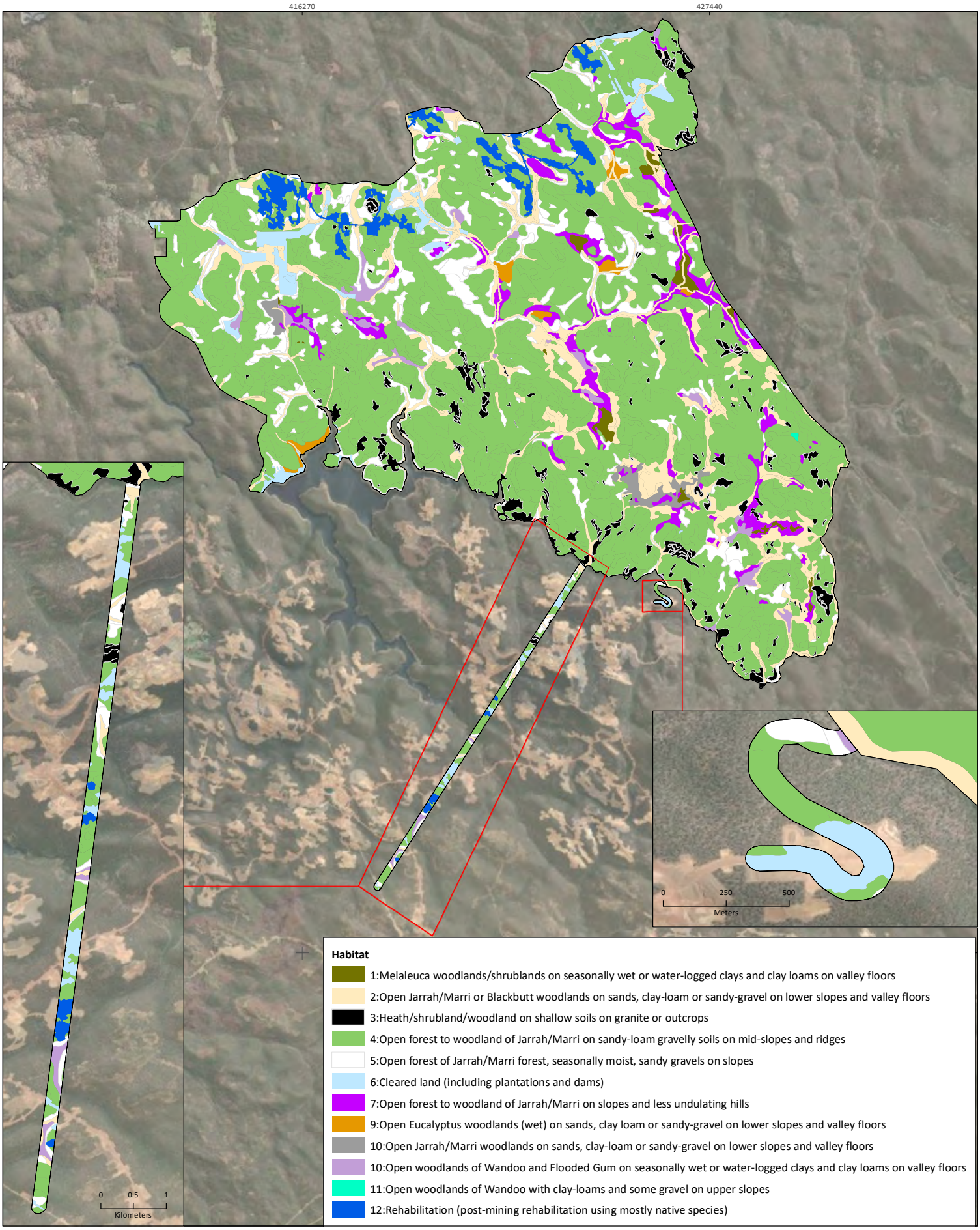
| SRE habitat code | Vegetation units (Mattiske 2021) | SRE habitat description | PHR[1] |
|---|---|---|---|
| 1 | A | *Melaleuca* woodlands/shrublands on seasonally wet or water-logged clays and clay loams on valley floors | High |
| 2 | AW, AW/CW, C, D, DA, DG, J, CW | Open Jarrah/Marri or Blackbutt woodlands on sands, clay-loam or sandy-gravel on lower slopes and valley floors | High |
| 3 | GR, G, G1, R, RG | Heath/shrubland/woodland on shallow soils on granite or outcrops | High |
| 4 | P, PS, PT, S, SP, ST, T, TS | Open forest to woodland of Jarrah/Marri on sandy-loam gravelly soils on mid-slopes and ridges | Low |
| 5 | WA, PW, SW, W, WD | Open forest of Jarrah/Marri forest, seasonally moist, sandy gravels on slopes | High |
| 6 | Cleared, plantation | Cleared land (including plantations, dams) | n/a |
| 7 | AD, E | Open forest to woodland of Jarrah/Marri on slopes and less undulating hills | Low |
| 9 | AW/AX, AX, Q | Open *Eucalyptus* woodlands (wet) on sands, clay loam or sandy-gravel on lower slopes and valley floors | High |
| 10 | AC | Open woodlands of Wandoo and Flooded Gum on seasonally wet or water-logged clays and clay loams on valley floors | High |
| 11 | M | Open woodlands of Wandoo with clay-loams and some gravel on upper slopes | Low |
| 12 | n/a | Rehabilitation (post-mining rehabilitation using mostly native species) | Low |

**Table 5-4 Extent of each SRE habitat in the study area**

| SRE habitat type | PHR[1] | Survey sites | MN-MA ha (%) | MN-CC ha (%) | MN-HR ha (%) | MNSA total ha (%) | H-MA ha (%) | H-CC ha (%) | H-HR ha (%) | HSA total ha (%) | Baseline study area total ha (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | High | MN-016 | 130.3 (0.7%) | 0 | 0 | 130.3 (0.7%) | 0 | 0 | 0 | 0 | 130.27 (0.46%) |
| 2 | High | MN-004, MN-006, MN-009, MN-010, MN-011, MN-018, H-003, H-005 H-014, H-015, H-017 opp sites: Site 3, TL5, TL7, TL9, site 12, Site8 | 1865.7 (10.7%) | 14.4 (6.8%) | 0 | 1880.1 (10.7%) | 1,064.0 (10.5%) | 6.5 (3.0%) | 0.8 (0.76%) | 1,071.0 (10.2%) | 2,996.82 (10.49%) |
| 3 | High | MN-008, MN-020 | 634.5 (3.6%) | 6.8 (3.2%) | 0 | 641.3 (3.6%) | 0.2 (<0.1%) | 0 | 0 | 0.2 (<0.1%) | 641.54 (2.28%) |
| 4 | Low | MN-001, MN-002, MN-003, MN-005, MN-012, MN-015, MN-019, MN-021, MN-022, MN-023, MN-024, MN-025, MN-026, MN-027, MN-028, MC-001, MC-004, H-001, H-003, H-004, H-006, H007, H-008, H-009, H-010, H-012, H-13, H-018, H-019, H-020, H-021, H-022, HC-003, HR-001, opp sites: site1, TL8, site2, oppMN | 11,302.1 (64.8%) | 97.4 (46.1%) | 6.3 (41.6%) | 11,405.8 (64.5%) | 8,257.0 (81.2%) | 93.6 (43.9%) | 10.0 (13.6%) | 8,360.6 (80.0%) | 20,110.10 (70.26%) |
| 5 | High | MC-005, MC-002, MC-003, HC-001, HC-002, HR-002, MN-007, H-011 | 1,596.3 (9.1%) | 32.9 (15.6%) | 2.1 (14.0%) | 1,631.3 (9.2%) | 410.1 (4.0%) | 20.5 (9.6%) | 3.8 (5.1%) | 434.3 (4.2%) | 2,162.87 (7.34%) |
| 6 (cleared) | n/a | None | 361.1 (2.1%) | 32.5 (15.4) | 6.5 (42.9%) | 400.0 (2.3%) | 58.2 (0.6%) | 4.7 (2.2%) | 0.4 (0.6%) | 63.3 (0.6%) | 474.9 (1.65%) |
| 7 | Low | MN-017, opp site4 | 733.2 (4.2%) | 0 | 0 | 733.2 (4.2%) | 1.0 (>0.1%) | 0 | 0 | 1.0 (<0.1%) | 736.80 (2.61%) |

| SRE habitat type | PHR[1] | Survey sites | MN-MA ha (%) | MN-CC ha (%) | MN-HR ha (%) | MNSA total ha (%) | H-MA ha (%) | H-CC ha (%) | H-HR ha (%) | HSA total ha (%) | Baseline study area total ha (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | High | None | 93.5 (0.5%) | 0 | 0 | 93.5 (0.5%) | 0 | 0 | 0.2 (0.3%) | 0.2 (<0.1%) | 93.77 (0.33%) |
| 10 | High | MN-013, MN-014, H-002, H-016 opp site: Site9, site12 | 341.3 (2.0%) | 12.8 (6.1%) | 0.2 (1.6%) | 354.4 (2.0%) | 378.9 (3.7%) | 8.6 (4.0%) | 0.7 (0.9%) | 388.1 (3.7%) | 809.10 (2.64%) |
| 11 | Low | None | 3.4 (<0.1%) | 0 | 0 | 3.4 (<0.1%) | 0 | 0 | 0 | 0 | 3.43 (0.01%) |
| 12 | Low | RH30B, RH30D | 387.5 (2.2%) | 14.4 (6.8%) | 0 | 401.9 (2.3%) | 0 | 79.3 (37.2) | 58.2 (78.8%) | 137.6 (1.3%) | 857.80 (1.92%) |
| **Total** | | - | **17,448.9** | **211.1** | **15.1** | **17,675.2** | **10,169.3** | **213.1** | **73.9** | **10,456.4** | **28,131.6** |

1 – Potential habitat rating.



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Myara North study area

# Figure 5-2a
## SRE habitats in the Myara North study area

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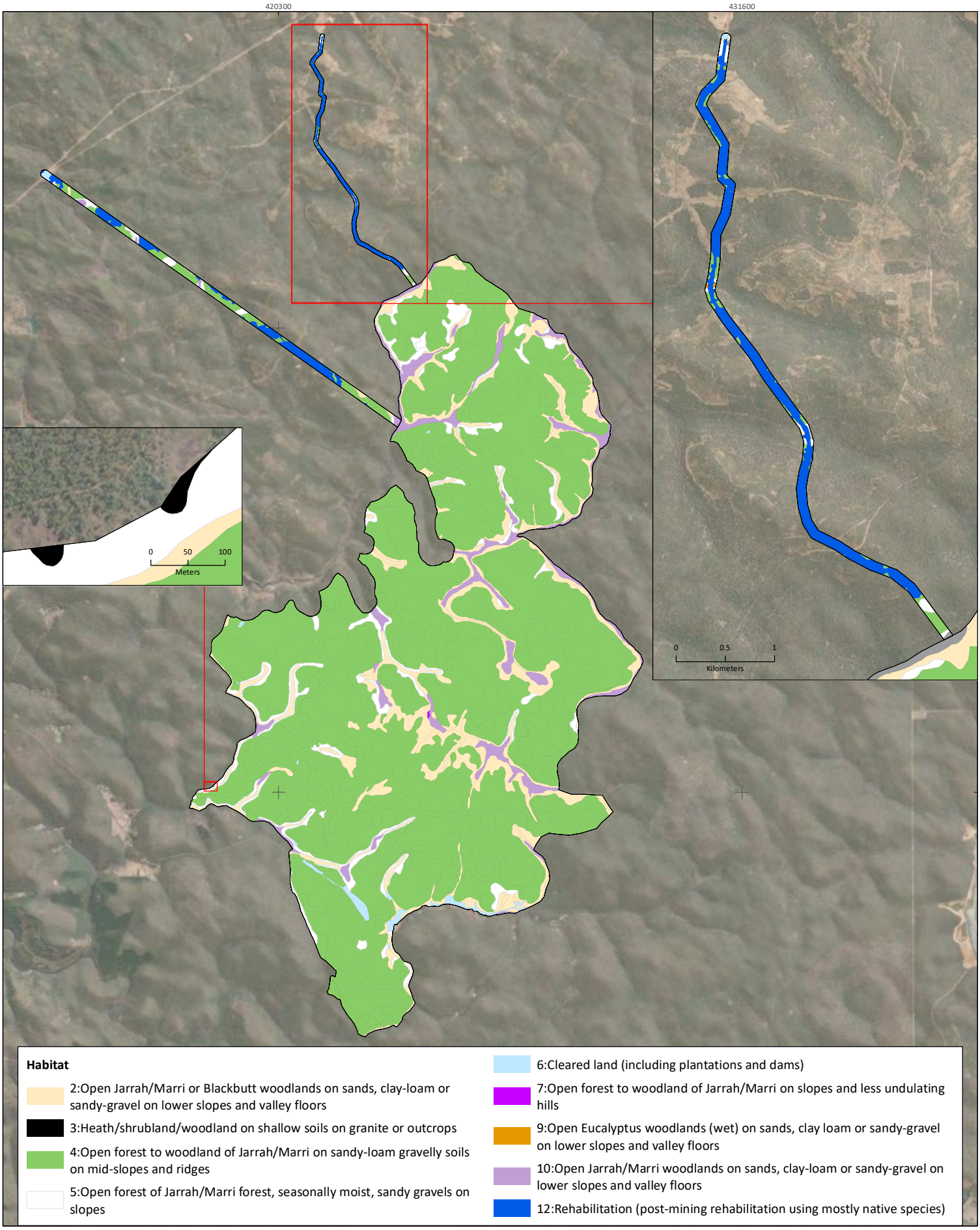

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Holyoake study area

# Figure 5-2b
## SRE habitats in the Holyoake study area

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### 5.2.2 SRE records

A total of 113 taxa from groups known to include SREs were collected in the field surveys and of these, 83 taxa (73%) from 19 families were classified as SREs (Table 5-5; Figure 5-3–Figure 5-8), as follows:

- 10 are confirmed SREs, represented by nine millipedes and one scorpion
- five are likely SREs, all represented by isopods
- 68 are potential SREs, represented by
    - 35 taxa of mygalomorphs (trap-door spiders)
    - 11 species of isopods (slaters)
    - seven species of diplopods (millipedes)
    - seven species of opiliones (harvestmen spiders)
    - five species of land snail
    - one species of scorpion
    - two species of pseudoscorpions.

A total of 30 taxa were collected that were not considered SREs (see Appendices 2–6). These were represented by pseudoscorpions (14 taxa), millipedes (four taxa), scorpions (three species), isopods (three species), selenopids (two species), mygalomorphs (two species), and a velvet worm.

Of the 83 SRE taxa from the survey, 44 (53%) were matched to previously recorded species, of these, 20 species (24%) are described species or are morphospecies that were matched either morphologically or genetically to previously recorded species and 24 are indeterminate taxa which may represent new or widespread species but the uncertainty around these taxa cannot be resolved therefore are no longer discussed (Table 5-5). Of the 20 species or morphospecies, eight are mygalomorph spiders, seven are isopods, two are scorpions, one is a recently described species of Opiliones, one is a millipede, and one is a land snail.

A total of 24 of the SRE taxa are known from sites within the MNSA and/or HSA only (Table 5-5) comprising 16 mygalomorph spiders, seven millipedes, and one land snail:

- mygalomorph spiders
    - *Aname* 'Phoenix0004', recorded from three sites within the MN-MA (MN-010, MN-014, MN-023)
    - *Aname* 'Phoenix0010', three specimens collected from opportunistic collections in the H-MA (site8)
    - *Aname* 'Phoenix0020', recorded from two sites within the proposed conveyor corridors, one in the H-CC (HC-003), and one in the MN-CC (MC-005)
    - *Anamidae* 'Phoenix009', recorded from one site within the MN-MA (MN-001)
    - *Kwonkan* 'Phoenix005', recorded from one site within the MN-MA (MN-006)
    - *Kwonkan* 'Phoenix008' recorded from one site within the H-MA (H-019)
    - *Proshermacha* 'Phoenix0027', recorded from two sites within the MN-MA (MN011, and MN-014)
    - *Proshermacha* 'Phoenix0028', recorded from two sites within the MN-MA (MN-003, and MN-012)
    - *Proshermacha* 'Phoenix0040', recorded from one site within the MN-MA (MN-014)

  - *Teyl* 'Phoenix0019', recorded from one site within the MN-MA (MN-001)
  - *Teyl* 'Phoenix0021', recorded from one site within the MN-MA (MN-019)
  - *Synothele* 'Phoenix0016', recorded from six sites within the MN-MA and H-MA (MN-001, MN-006, MN-007, MN-018, MN-027 and H014)
  - *Eucyrtops* 'Phoenix0029', recorded from three sites within the MN-MA (MN-002, MN-005, MN-006)
  - *Eucyrtops* 'Phoenix0030', recorded from one site within the MN-MA (MN-012)
  - *Eucyrtops* 'Phoenix0032', recorded from three sites within the MNSA (MN-027, MC-001, HR-002)
  - *Euoplos* 'Phoenix0011', recorded from two sites within the MN-MA (MN-016 and MN-025)
- millipedes
  - *Antichiropus* 'dwellingup', recorded from four sites within the MNSA and HSA (MN-008, MN-020, HR-001, H-018)
  - *Antichiropus* 'jarrah', recorded from three sites within the MNSA (MN-007, MN-010, MN-027)
  - *Antichiropus* 'mini', recorded from five sites within the MNSA and HSA (MN-015, MN-018, MN25, MN26, H002)
  - Dalodesmidae 'Phoenix0038', recorded from two sites within the MN-MA (MN-012, HR-002)
  - Polyzoniida 'Phoenix0040', recorded from one site within the MN-MA (MN-027)
  - Polyzoniida 'Phoenix0041', recorded from two sites within the MN-MA (MN-007, MN-008)
  - Polyzoniida 'Phoenix0042', recorded from one site within the MN-MA (MN-008)
- land snails
  - *Bothriembryon* cf. *indutus*, recorded from three sites within the MN-MA (MN-003, MN-009, MN-025).

The remaining species collected from the study area were either recorded outside the MNSA and HSA during the survey, e.g. from reference sites, or the ReSA, or were matched to a taxon identified from the desktop review.

From the full list of 113 taxa collected, 21 species have been formally described, of which five considered SREs. A further 65 were allocated to morphospecies (including 56 which are considered SREs), based on previously collected specimens, or newly collected specimens that were not the same as any other taxon known from the WA Museum collection or by the taxonomist.

The remaining 27 are indeterminate (including 23 belonging to taxa that have SRE representatives) due to poor taxonomic knowledge, poor genetic knowledge, inadequate life stage or sex, or a specimen in poor condition. The indeterminate 'SRE' taxa could represent any of the collected or previously collected taxa, or possibly new taxa.

Twenty-eight taxa from groups known to include SREs were collected from the ReSA during the surveys. This assemblage comprised isopods (eight taxa), mygalomorph spiders (six taxa), millipedes and land snails (three taxa each), opiliones, pseudoscorpions and scorpions (two species each) and a single species each of selenopid and velvet worm (Appendix 5). This included 17 taxa considered likely

or potential SREs (Table 5-5), with isopods, land snails, mygalomorphs, opiliones and a land snail making up the SRE collection. None of these are formally described species, seven are morphospecies and the remaining 10 are indeterminate. All SRE taxa recorded at rehabilitation sites were also recorded from sites in the baseline study area. Of the seven morphospecies, four were also recorded in both the MNSA and HSA and three were recorded from the MNSA.

The number of taxa and SRE taxa collected at each site was variable between rehabilitation age, with a slight tendency towards higher numbers in the 10 and 30-year age classes but below the average number of taxa at the baseline sites (Figure 5-9).

The proportions of SREs collected via active searches (foraging, litter sift and burrow excavations) vs. pitfall traps (wet and dry) showed consistency between study areas, particularly in those with higher number of systematic survey sites (MN-MA and H-SA; Table 5-6). Overall, 54% of SRE records came from active searches and 46% from pitfall traps (Appendix 7).

Mygalomorph spiders and scorpions were the only taxa in which active searches yielded a higher number of records. The H-SA, MN-SA and ReSA recorded similar proportions of mygalomorphs from active searches (between 76.5% – 80%), the MN-CC with slightly more from active searches (87.6%), and the H-CC and HR with 100% of mygalomorph records from active searches.Scorpions were collected almost exclusively from active searches; however, *Isometroides* 'jarrah' recorded only once from the survey was collected from a pitfall trap, and *Urodacus planimanus,* recorded 28 times from the survey, was collected only from active searches.

Opiliones were recorded evenly between active and pitfall trap sample types in all study areas except for the ReSA, where more records came from pitfall traps. Millipede records varied between study areas, with the MN-MA, H-MA and MC-CC all recording approximately one third from active searches and two-thirds from pitfall traps. The HR and ReSA had an even split of millipedes between active searches and pitfall traps, and only the H-CC recorded millipedes exclusively from pitfall traps. Isopods came from roughly half active searches and half pitfall trap sample types, except for the MN-MA and ReSA in which approximately two-thirds were collected in pitfall traps and one-third collected from active searches. Land snails were mostly collected from pitfall traps.

Several taxa of mygalomorphs were recorded from burrows at rehabilitation sites, they comprised of taxa only from the Anamidae family (*Eucyrtops* 'Phoenix0003', *Eucyrtops* 'Phoenix0033', *Proshermacha* 'MYG485' and three unidentifiable Anamidae). *Teyl* 'Phoenix0007' (also Anamidae) was the only mygalomorph species collected in a wet pitfall trap from the rehabilitation sites. Further to this, two adult females from different species within the Anamidae family were recorded in newly created or existing/abandoned burrows in subsequent trips. *Aname* 'Phoenix0020' was excavated from a burrow found next to the spoils of a pitfall trap at a baseline site and *Proshermacha* 'MYG485' was excavated during trip 2 from a burrow located next to the spoils from a previous burrow excavation from the first trip at a rehabilitation site. Eight of the 10 mygalomorph records from the rehabilitation sites were from 30-year old rehabilitation sites, the remaining two were from a 10 year rehabilitation site.

A total of 221 specimens were sequenced, 157 mygalomorph spiders, 60 millipedes and four land-snails, mostly indeterminate taxa due to being juveniles, females, too small and singletons or poor condition. Seventeen specimens failed to obtain a sequence, but of the 204 specimens that were successful, 23 taxa were found be significantly different to specimens where a taxonomist was able to allocate a species or morphospecies identification. This is indicated by the morphospecies code 'Phoenix####'.

The species molecular analyses that were determined to be unique consisted of 18 mygalomorph spiders and five millipedes. Seven new *Antichiropus* species were able to be morphologically identified from male gonopods and matched to females and juveniles using molecular techniques (*A*. 'dwellingup', *A*. 'forest', *A*. 'holyoake', *A*. 'jarrah', *A*. mini, *A*. 'Myara' and *A*. 'southern').

**Table 5-5 Specimens from SRE groups recorded in the field survey**

| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| **Class Arachnida, Infraorder Mygalomorphae (trapdoor spiders)** | | | | | | | | | | | | | |
| Actinopidae | *Missulena* 'MYG198' | Pot. | 2 | H | H-016 | ■a | | | | ■ | | | |
| Anamidae | *Aname* 'Phoenix0004' | Pot. | 2, 4, 10 | H,L | MN-010, MN-014, **MN-023** | | ■ | | | | | | |
| Anamidae | *Aname* 'Phoenix0010' | Pot. | 2 | H | Opp Site8 | | | | | ■ | | | |
| Anamidae | *Aname* 'Phoenix0018' | Pot. | 2 | H | *H-013* (*reference site outside HSA*) | ■b | | | | | | | |
| Anamidae | *Aname* 'Phoenix0020' | Pot. | 4,5 | H,L | HC-003, MC-005 | | | ■ | | | ■ | | |
| Anamidae | *Aname* 'Phoenix0036' | Pot. | 2,4,5 | H,L | MN-010, MC-002, *MC-004* | ■b | ■ | ■ | | | | | |
| Anamidae | *Aname* 'Phoenix0037' | Pot. | 4 | L | MC-001 | ■a | | ■ | | | | | |
| Anamidae | Anamidae 'Phoenix0009' | Pot. | 4 | L | **MN-028** | | ■ | | | | | | |
| Anamidae | Anamidae 'sp. indet' (Females, juveniles and failed sequences, likely to represent multiple species) | Pot. | 2, 4, 5,10, 12 | H,L | MN-007, MN-009, MN-011, MN-018, **MN-022**, **MN-023**, **MN-028**, H-003, H-004, *H-006*, H-007, H-008, *H-011*, H-015, H-016, H-017, H-020, MC-002, *M-C003*, RH-10A, RH-30B | ■a,b | ■ | ■ | | ■ | | | ■ |
| Anamidae | *Kwonkan* 'Phoenix005' | Pot. | 2 | H | MN-006 | | ■ | | | | | | |
| Anamidae | *Kwonkan* 'Phoenix008' | Pot. | 4 | L | H-019 | | | | | ■ | | | |
| Anamidae | *Proshermacha* 'MYG485' | Pot. | 2, 4,5,7, 10,12 | H,L | **MN-023**, H-002, *H-005*, H-009, *H-011*, H-014, H-015, H-016, H-019, H-020, H-021, HR-001, RH-30C, Opp sites: Site1, Site3, Site4, Site8, Site9, Site12, TLSite2, TL5 | ■a,b | ■ | | | ■ | | ■ | ■ |
| Anamidae | *Proshermacha* 'Phoenix0023' | Pot. | 4 | L | MN-001, *H-022* | ■b | ■ | | | ■ | | | |
| Anamidae | *Proshermacha* 'Phoenix0027' | Pot. | 2, 10 | H | MN-011, MN-014 | | ■ | | | | | | |
| Anamidae | *Proshermacha* 'Phoenix0028' | Pot. | 4 | L | MN-003, MN-012 | | ■ | | | | | | |
| Anamidae | *Proshermacha* 'Phoenix0040' | Pot. | 10 | H | MN-014 | | ■ | | | | | | |

| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| Anamidae | *Teyl* 'MYG355' | Pot. | 5 | H | MN-007, MC-005 | ■a | ■ | ■ | | | | | |
| Anamidae | *Teyl* 'Phoenix0007' | Pot. | 2,4,7,12 | H,L | MN-009, **MN-017**, *MC-004*, RH-10B | ■b | ■ | | | | | | ■ |
| Anamidae | *Teyl* 'Phoenix0019' | Pot. | 4 | L | MN-001 | | ■ | | | | | | |
| Anamidae | *Teyl* 'Phoenix0021' | Pot. | 4 | L | **MN-019** | | ■ | | | | | | |
| Barychelidae | Barychelidae 'sp. indet' (failed sequencing) | Pot. | 4 | L | **MN-027** | ■a | ■ | | | | | | |
| Barychelidae | *Synothele* 'Phoenix0015' (sister sp. to *S. rubripes*) | Pot. | 2,4 | H,L | MN-004, **MN-025**, H-001, *H-005*, H-007, H-012, H-015, H-017, H-018, H-018, H-019, *H-022*, HC-003 | ■b | ■ | | | ■ | ■ | | |
| Barychelidae | *Synothele* 'Phoenix0016' | Pot. | 2,4,5 | H,L | MN-001, MN-006, MN-007, MN-018, **MN-027**, H-014 | | ■ | | | ■ | | | |
| Idiopidae | *Eucyrtops latior*<br>This sp. is currently under revision but these are all the same species | Pot. | 2,4,10 | H,L | MN-001, MN-011, MN-012, MN-014, MN-018, **MN-021**, **MN-022**, **MN-023**, **MN-025**, **MN-028** | ■a | ■ | | | | | | |
| Idiopidae | *Eucyrtops* 'Phoenix0003' | Pot. | 1,2,3,4,5 | H,L | MN-002, MN-003, MN-007, MN-016, MN-020, H-001, *H-011*, MC-005, RHopp001 | ■b | ■ | ■ | | ■ | | | |
| Idiopidae | *Eucyrtops* 'Phoenix0029' | Pot. | 2,4 | H,L | **MN-002**, **MN-005**, MN-006 | | ■ | | | | | | |
| Idiopidae | *Eucyrtops* 'Phoenix0030' | Pot. | 4 | L | MN-012 | | ■ | | | | | | |
| Idiopidae | *Eucyrtops* 'Phoenix0032' | Pot. | 4 | L | **MN-027**, MC-001, HR-002 | | ■ | ■ | ■ | | | | |
| Idiopidae | *Eucyrtops* 'Phoenix0033' | Pot. | 4,5,12 | H,L | H-007, *H-011*, *MC-004*, MC-005, RH-30B, RH-30C, RH-30D | ■a,b | | ■ | | ■ | | | ■ |
| Idiopidae | *Eucyrtops* 'WorsleyDNA06' | Pot. | 2,4,10 | H,L | H-008, H-010, H-015, H-016 | ■a | | | | ■ | | | |
| Idiopidae | *Euoplos* 'Phoenix0011' | Pot. | 1,4 | L | MN-016, **MN-025** | | ■ | | | | | | |
| Idiopidae | *Euoplos* 'Phoenix0012' | Pot. | 4 | L | *H-013 (reference site outside HSA*) | ■b | | | | ■ | | | |
| Idiopidae | Idiopidae sp. indet. | Pot. | 2,4,7, 10, 12 | H,L | MN-002, MN-009, M-N010, MN-013, MN-015, **MN-017**, **MN-022**, **MN-024**, **MN-026**, H-003, H-004, *H-005*, H-018, H-019 | ■a,b | | | ■ | | | | |

| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| Idiopidae | *Idiosoma* 'Phoenix0035' | Pot. | 2,4,5 | H,L | H-001, *H-006*, H-007, H-008, *H-013*, H-021, *HC-001*, HC-002, HC-003, *MC-004*, HR-001 | ■b | ■ | | ■ | ■ | ■ | | |
| Idiopidae | *Idiosoma* 'WAM T129362' | Pot. | 2,3,45 | H,L | MN-004, MN-008, **MN-019**, **MN-021**, **MN-022**, MC-002 | ■a | ■ | ■ | | | | | |
| **Class Arachnida, Order Opiliones (harvestmen spiders)** | | | | | | | | | | | | | |
| Lomanellidae | *Abaddon despoliator* | Pot. | 4,5 | H,L | H-001, MC-002, *MC-004* | ■a,b | | ■ | | ■ | | | |
| Trianonychidae | *Calliuncus* 'sp. indet' | Pot. | 4,5 | H,L | H-001, H-010, *H-011*, *H-013*, HC-002, MC-005 | ■a,b | | ■ | | ■ | | | |
| unknown | Eupnoi 'sp. indet' | Pot. | 2,4, 5,7, 10, 12 | H,L | MN-003, **MN-005**, MN-008, MN-011, **MN-17**, **MN-21**, **MN-26**, **MN-28**, H-002, H-003, H-004, H-007, H-008, H-012, H-020, H-021, *HC-001*, MC-001, MC-005, RH-05B, RH-10A, RH-10C, RH-20A, RH-30C, RH-30D | ■a,b | ■ | ■ | | ■ | ■ | | ■ |
| Trianonychidae | *Nunciella* 'sp. indet' | Pot. | 4 | L | MN-015 | ■a,b | ■ | | | | | | |
| Trianonychidae | Trianonychidae 'genus 008' sp. indet. | Pot. | 2,4, 5,10, 12 | H,L | MN-001, MN-007, MN-010, MN-012, MN-015, **MN-023**, **MN-027**, **MN-25**, H-002, H-003, H-004, *H-005*, H-012, H-017, H-018, H-019, H-021, H-022, HC-003, MC-001, MC-002, *MC-004*, MC-005, RH-10A, RH-10B, RH-20A, RH-20B | ■a,b | ■ | ■ | | ■ | | | ■ |
| Trianonychidae | Trianonychidae 'sp. indet' | Pot. | 2,4 | H,L | MN-003, MN-011, MN-012, MN-024, MN-026, *H-005*, H-006 | ■a,b | ■ | | | ■ | | | |
| unknown | Opiliones sp. indet. | Pot. | 5, 10, 12 | H,L | MN-013, MN-014, *MC-003*, RH-30B | ■a,b | ■ | | | | | | ■ |
| **Class Arachnida, Order Scorpiones (scorpions)** | | | | | | | | | | | | | |
| Buthidae | *Isometroides* 'jarrah' | Pot. | 2 | H | GH-D site: TL9 | ■a | ■ | | | | | | |
| Urodacidae | *Urodacus planimanus* | CF | 2, 4, 5, 10 | H,L | MN-001, MN-006, MN-008, MN-011, MN-012, MN-015, **MN-019**, **MN-021**, **MN-022**, **MN-023**, **MN-024**, **MN-025**, **MN-026**, H-002, *MC-003* | ■a,b | ■ | ■ | | ■ | | | |
| **Class Arachnida, Order Pseudoscorpiones (pseudoscorpiones)** | | | | | | | | | | | | | |
| Olpiidae | Beierolpium 'sp. indet' | Pot. | 4 | L | MN-021 | ■a,b | ■ | | | | | | |

| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| Olpiidae | Olpiidae 'sp. indet' | Pot. | 4 | L | MN-012 | ■a,b | ■ | | | | | | |
| **Class Myriapoda, Order Diplopoda (millipedes)** | | | | | | | | | | | | | |
| Paradoxosomatidae | *Antichiropus* 'dwellingup' | CF | 3,4,5 | H,L | MN-008, MN-020, HR-001, H-018 | | ■ | | | ■ | | ■ | |
| Paradoxosomatidae | *Antichiropus* 'forest' | CF | 1,4, | H,L | MN-16, H-007, *H-013* | ■b | ■ | | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'holyoake' | CF | 4, 5 | H, L | *H-011*, *H-013* | ■b | | | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'jarrah' | CF | 2,4,5 | H,L | MN-007, MN-010, **MN-027** | | ■ | | | | | | |
| Paradoxosomatidae | *Antichiropus* 'Marradong' | CF | 2,4 | H,L | H-004, *H-005*, H-008, H-014, H-015, H-020 | ■a,b | | | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'mini' | CF | 2, 4, 10 | H,L | MN-015, MN-018, **MN-025**, **MN-026**, H-002 | | ■ | | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'Myara' | CF | 4 | L | *H-013*, MC-004 | ■b | | ■ | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'southern' | CF | 2,4 | H,L | H-004, *H-006*, H-009, H-014, H-020, H-021 | ■b | | | | ■ | | | |
| Paradoxosomatidae | *Antichiropus* 'sp. indet' | Pot. | 2,3,45, 12 | H,L | MN-003, MN-008, MN-015, MN-018, **MN-020**, H-001, H-002, H-004, *H-005*, H-007, H-008, H-009, H-012, H-014, H-015, H-017, H-021, **H-022**, HC-002, MC-001, MC-002, *MC-003*, MC-005, RH-30C | ■a,b | ■ | ■ | | ■ | ■ | | ■ |
| Dalodesmidae | Dalodesmidae 'Phoenix0038' | Pot. | 4 | L | MN-012, HR-002 | | ■ | | ■ | | | | |
| Polydesmida | Polydesmida 'sp. indet' | Pot. | 4 | L | H-018 | ■a,b | | | | ■ | | | |
| Polyzoniidae | Polyzoniida 'Phoenix0039' | Pot. | 4 | L | *H-013 (reference site outside H-SA*) | ■b | | | | | | | |
| Polyzoniidae | Polyzoniida 'Phoenix0040' | Pot. | 4 | L | **MN-027** | | ■ | | | | | | |
| Polyzoniidae | Polyzoniida 'Phoenix0041' | Pot. | 3,5 | H | MN-007, MN-008 | | ■ | | | | | | |
| Polyzoniidae | Polyzoniida 'Phoenix0042' | Pot. | 3 | H | MN-008 | | ■ | | | | | | |
| Siphonotidae | Siphonotidae 'DIPAAG' 'DIP189' 'collie' | CF | 2,4,10 | H,L | H-003, *H-005*, H-016, H-017, **H-022** | ■a,b | | | | ■ | | | |
| **Class Malacostraca, Order Isopoda (slaters)** | | | | | | | | | | | | | |
| Armadillidae | *Acanthodillo* '1' | Pot. | 2 | H | H-002 | ■a | | | | ■ | | | |

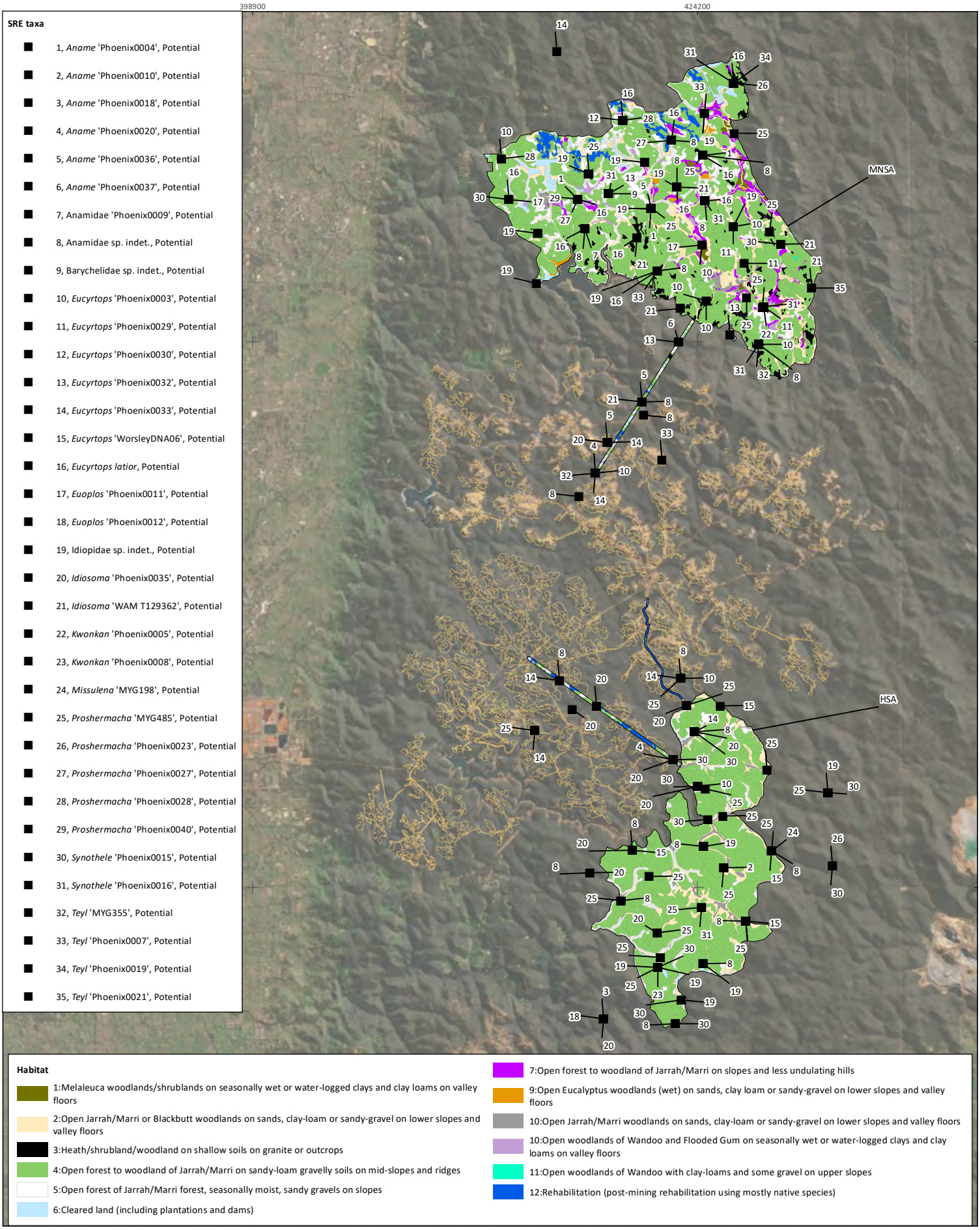
| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| Armadillidae | *Acanthodillo* 'sp. indet' | Pot. | 4, 5, 10 | H,L | MN-003, MN-014, H-010, MC-005 | ■a | ■ | ■ | | ■ | | | |
| Armadillidae | *Armadillo flavus* | Pot. | 2, 4 | H,L | MN-009, *H-006*, H-020 | ■a,b | ■ | | | ■ | | | |
| Armadillidae | Buddelundia '5' (huntly) | Lik. | 2,4,5,10,12 | H,L | MN-009, MN-015, **MN-026**, **MN-027**, **MN-028**, H-002, H-003, *H-005*, *H-006*, H-008, H-007, H-010, *H-011*, H-012, H-014, H-017, H-020, H-021, *HC-001*, HC-002, HC-003 MC-001, MC-002, *MC-003*, *MC-004*, MC-005, RH-5B, RH-20A, RH-30D, HR-001, opp sites: site 9, TL5 | ■b | ■ | ■ | | ■ | ■ | ■ | ■ |
| Armadillidae | Buddelundia 'sp. indet' | Pot. | 4 | L | MN-015, H-006 | ■a | ■ | | | ■ | | | |
| Armadillidae | *Pseudodiploexochus* 'sp. indet' | Lik. | 2,4,7 | H,L | MN-009, MN-010, **MN-017** MN-018, **MN-025**, **MN-026**, H-009, **H-013**, H-017, H-019, H-020 **H-022**, MC-002 | ■a,b | ■ | ■ | | ■ | | | |
| Armadillidae | *Paraplatyarthridae* 'sp. indet' | Pot. | 2,4 | H,L | MN-001, MN-011, MN-002, **MN-025** | ■a | ■ | | | | | | |
| Armadillidae | *Spherillo* '1' | Lik. | 2,4 | H,L | MN-009, MN-011, **MN-022** | ■a | ■ | | | | | | |
| Paraplatyarthridae | *Paraplatyarthrus* 'sp. indet' | Pot. | 4 | L | H-018 | ■a | | | | ■ | | | |
| Philosciidae | *Laevophiloscia* '1' | Pot. | 2,3,4,5, 10,12 | H,L | MN-001, MN-004, **MN-005**, MN-006, MN-007, MN-008, MN-009, MN-016, MN-018, MN-019, MN-020, **MN-021**, **MN-023**, **MN-025**, **MN-026**, **MN-28**, H-001, H-002, H-003, H-004, *H-005, H-006*, H-007, H-008, H-009, H-010, *H-011*, *H-013*, H-014, H-015, H-016, H-017, H-020, H-021, *H-022*, HC-002, HC-003, MC-001, *MC-004*, MC-005, H-R002, RH-05A, RH-5B, RH-5C, RH-10A, RH-10B, RH-10C, RH-20A, RH-20, RH-20C, RH-30B RH-30c, RH-30D | ■a,b | ■ | ■ | ■ | ■ | | | ■ |
| Philosciidae | *Laevophiloscia* 'sp. indet' | Pot. | 2,4 | H,L | MN-001, MN-009, MN-011, MN-025, RH-10A | ■a,b | ■ | | | | | | ■ |
| Philosciidae | Philosciidae 's' / Philosciidae '1' | Lik. | 2,4,7, 10 | H,L | MN-001, **MN-002**, MN-004, **MN-005**, MN-006, MN-007, MN-011, MN-012, MN-014, MN-015, | ■a | ■ | | ■ | ■ | | | |

| Higher order/ Family | Species | SRE status[1] | SRE hab. code | PHR[2] | Sites[3] | Out-side SA[4] | Records in study area | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | ReSA |
| | | | | | MN-016, **MN-017**, MN-018, **MN-019**, **MN-021 MN-022**, **MN-025**, **MN-027**, **MN-028**, H-009, H-R002 | | | | | | | | |
| Philosciidae | Philosciidae 'sp. indet' | Pot. | 4,12 | L | H-012, HC-003, RH-10B, RH-20A, RH-20B, RH-30B | ■a,b | | | | ■ | ■ | | ■ |
| Styloniscidae | *Styloniscus* '1' | Pot. | 2, 4, 5, 7, 10, 12 | H,L | MN-001, MN-003, MN-004, **MN-005**, MN-011, MN-012, MN-015, **MN-017**, MN-018, **MN-022**, **MN-023**, **MN-024**, **MN-026**, **MN-027**, **MN-028**, H-001, H-002, *H-006*, H-007, H-010, *H-011*, H-012, H-016, H-017, H-018, H-020, MC-002, *MC-004*, MC-005, RH-10a, RH-10C, RH-30C | ■a,b | ■ | ■ | | ■ | | | ■ |
| Styloniscidae | *Styloniscus* '7' | Lik. | 2,4,5 | H,L | MN-007, MN-011, H-001, H-010, *H-022*, MC-005 | ■a,b | ■ | ■ | | ■ | | | |
| Styloniscidae | *Styloniscus* 'sp. indet' | Pot. | 4,12 | L | MN-003, MN-015, RH-20B, RH-30D | ■a,b | ■ | | | | | | ■ |
| **Class Gastropoda, Order Eupulmonata (land snails)** | | | | | | | | | | | | | |
| Bothriembryontidae | *Bothriembryon* cf. *bradshawi* | Pot. | 2 | H | H-015, RH-004 | ■b | | | | ■ | | | |
| Bothriembryontidae | *Bothriembryon* cf. *inductus* | Pot. | 2,4 | L | MN-003, MN-009, MN-025 | | ■ | | | | | | |
| Charopidae | *Annoselix* cf. dolosa | Pot. | 4,12 | L | MN-003, **MN-028**, RH-20C | ■b | ■ | | | | | | ■ |
| Charopidae | cf. *Westraloma* 'sp. indet' | Pot. | 4,12 | L | H-008, RH-30C | ■a,b | | | | ■ | | | ■ |
| Charopidae | Charopidae 'sp. indet' | Pot. | 2,3,4 12 | H,L | MN-006, MN-020, H-008, H-018, RH-30C | ■a,b | ■ | | | ■ | | | ■ |

1 – SRE status (CF = confirmed, Pot. = potential, Lik. = likely; H = High, L=Low), 2 – Potential habitat rating (H = High, L=Low), 3 – Italics = reference sites, Bold = 'impact' sites.
4 – a = desktop (incl. Worsley survey), b = reference sites from current survey outside baseline study area or rehabilitation sites.

**Table 5-6 SRE records by sample type**

| Study area | Sample type | Iso-poda | Land snail | Milli-pedes | Mygalo-morphae | Opil-iones | Pseudo-scorpion | Scorpion | total |
|---|---|---|---|---|---|---|---|---|---|
| H-SA (22 sites) | Active searching | 58.1% | - | 30% | 76.5% | 43.3% | - | 100% | 56.5% |
| | Pitfall trap | 41.9% | 100% | 70% | 23.5% | 56.7% | 100% | - | 44.5% |
| | **Grand Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** |
| H-CC (5 sites) | Active searching | 55.6% | - | - | 100% | 100% | - | - | 71.9% |
| | Pitfall trap | 44.4% | - | 100% | - | | - | - | 28.1% |
| | **Grand Total** | **100%** | - | **100%** | **100%** | **100%** | - | - | **100%** |
| HR (2 sites) | Active searching | 50% | - | 50% | 100% | - | - | - | 64.3% |
| | Pitfall trap | 50% | - | 50% | - | - | - | - | 35.7% |
| | **Grand Total** | **100%** | - | **100%** | **100%** | - | - | - | **100%** |
| MN-CC (7 sites) | Active searching | 48.8% | - | 28.6% | 87.6% | 58.3% | - | 100.0% | 57% |
| | Pitfall trap | 51.2% | - | 71.4% | 12.5% | 41.7% | - | | 43% |
| | Grand Total | **100%** | - | **100%** | **100%** | **100%** | - | **100%** | **100%** |
| MN-MA (28 sites) | Active searching | 30.1% | 14.3% | 33.3% | 78.3% | 48.5% | 14.3% | 96.3% | 53.7% |
| | Pitfall trap | 69.9% | 85.7% | 66.7% | 21.7% | 51.5% | 85.7% | 3.7% | 46.3% |
| | **Grand Total** | **100.0** | **100.0** | **100.0** | **100.0** | **100%** | **100%** | **100.0%** | **100%** |
| ReSA (12 sites) | Active searching | 33.3% | - | 50% | 80% | 33.3% | - | - | 40% |
| | Pitfall trap | 66.7% | 100% | 50% | 10% | 66.7% | - | - | 60% |
| | **Grand Total** | **100%** | **100%** | **100%** | **100%** | **100%** | **100%** | **-** | **100%** |



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| Date | 28/04/2021 |
| Drawn by | IN |
| Map author | AJ |

0 5 10
Kilometers

1:280,000 (at A4) GDA 1994 MGA Zone 50

Baseline study area
Rehabilitation study area

# Figure 5-3
## Field records of SRE mygalomorph spiders

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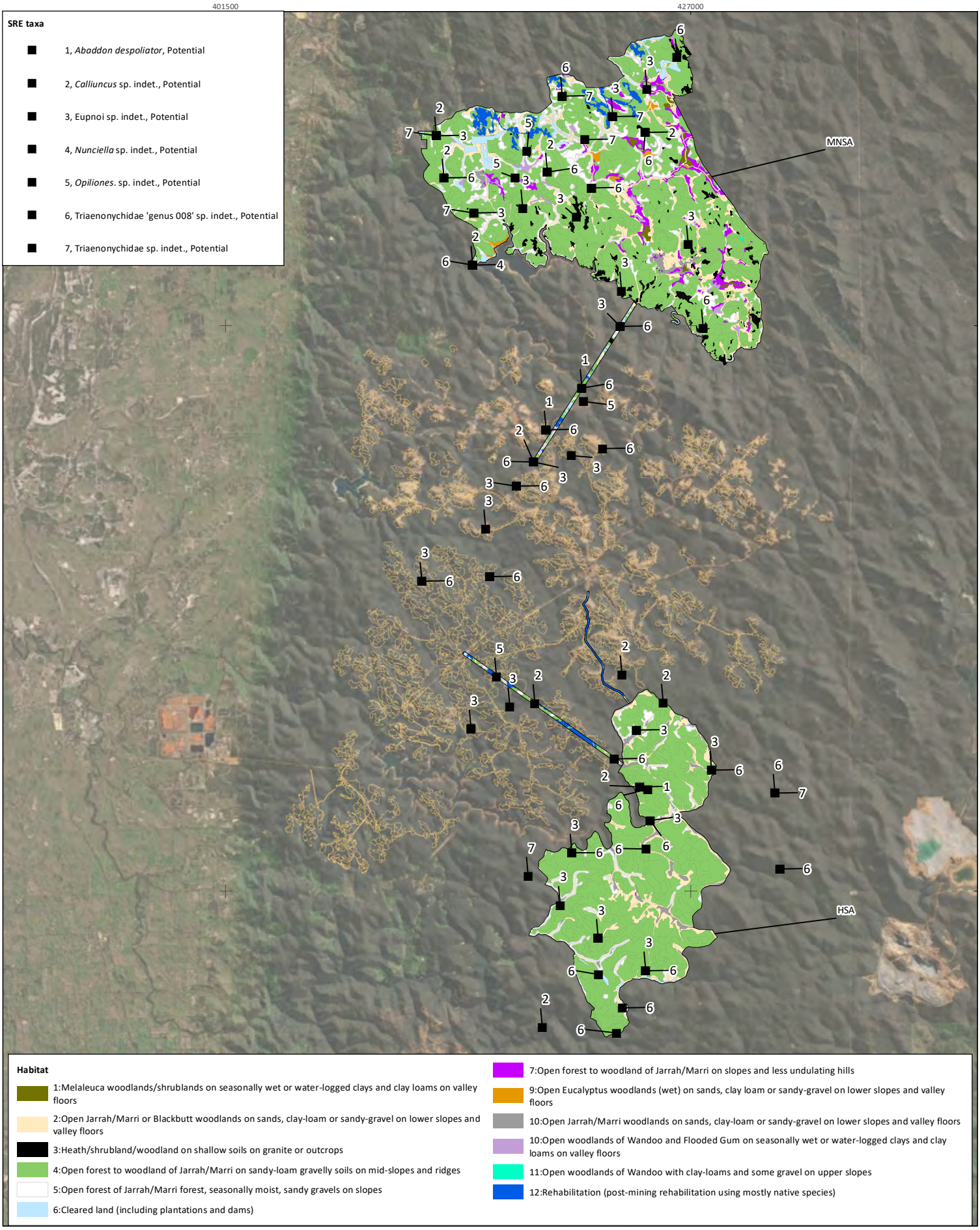

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| Map author | AJ |

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Kilometers

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Baseline study area
Rehabilitation study area

# Figure 5-4
## Field records of SRE Opiliones (harvestmen spiders)

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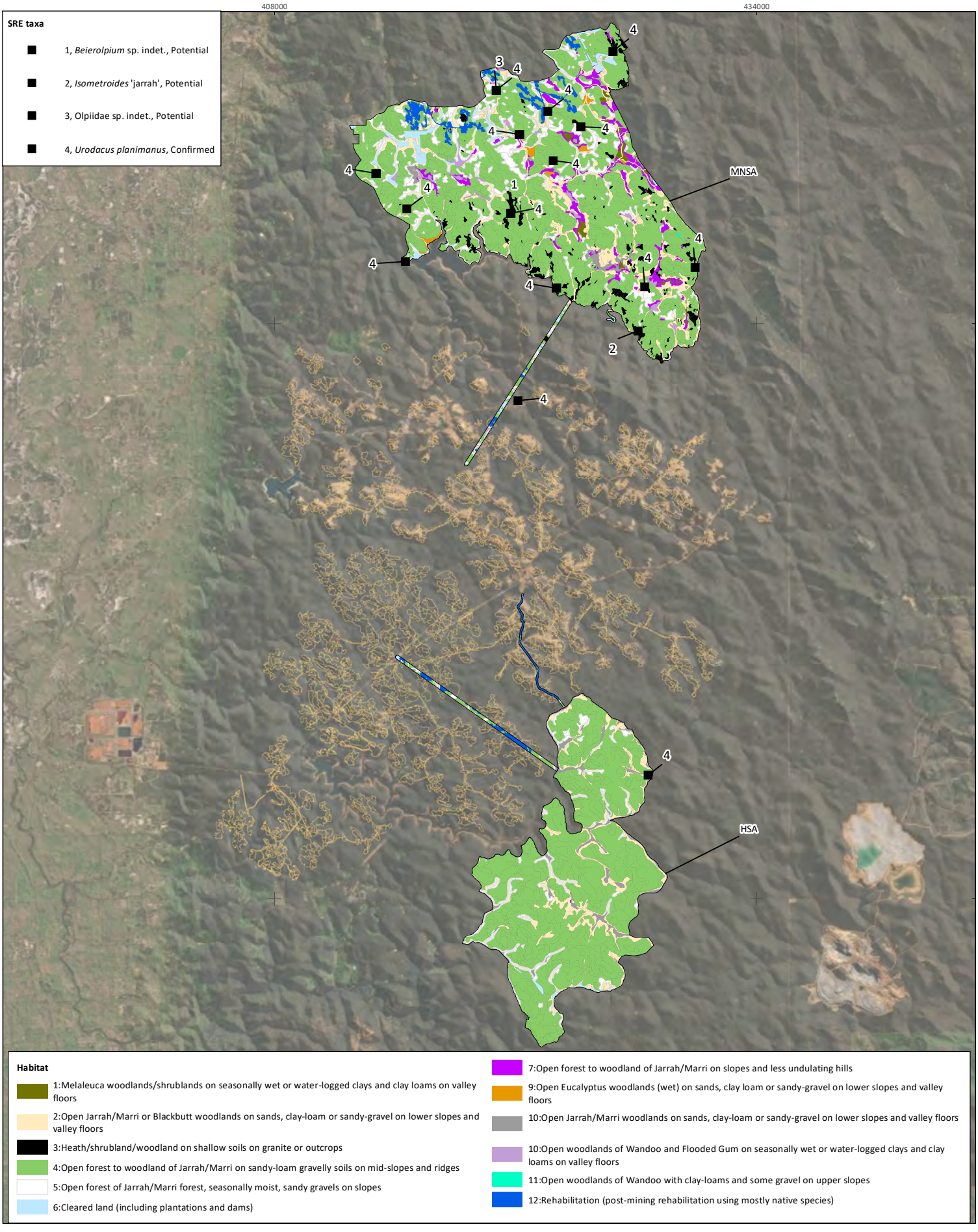

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| Map author | AJ |

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Kilometers

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Baseline study area
Rehabilitation study area

# Figure 5-5
## Field records of SRE scorpions and pseudoscorpions

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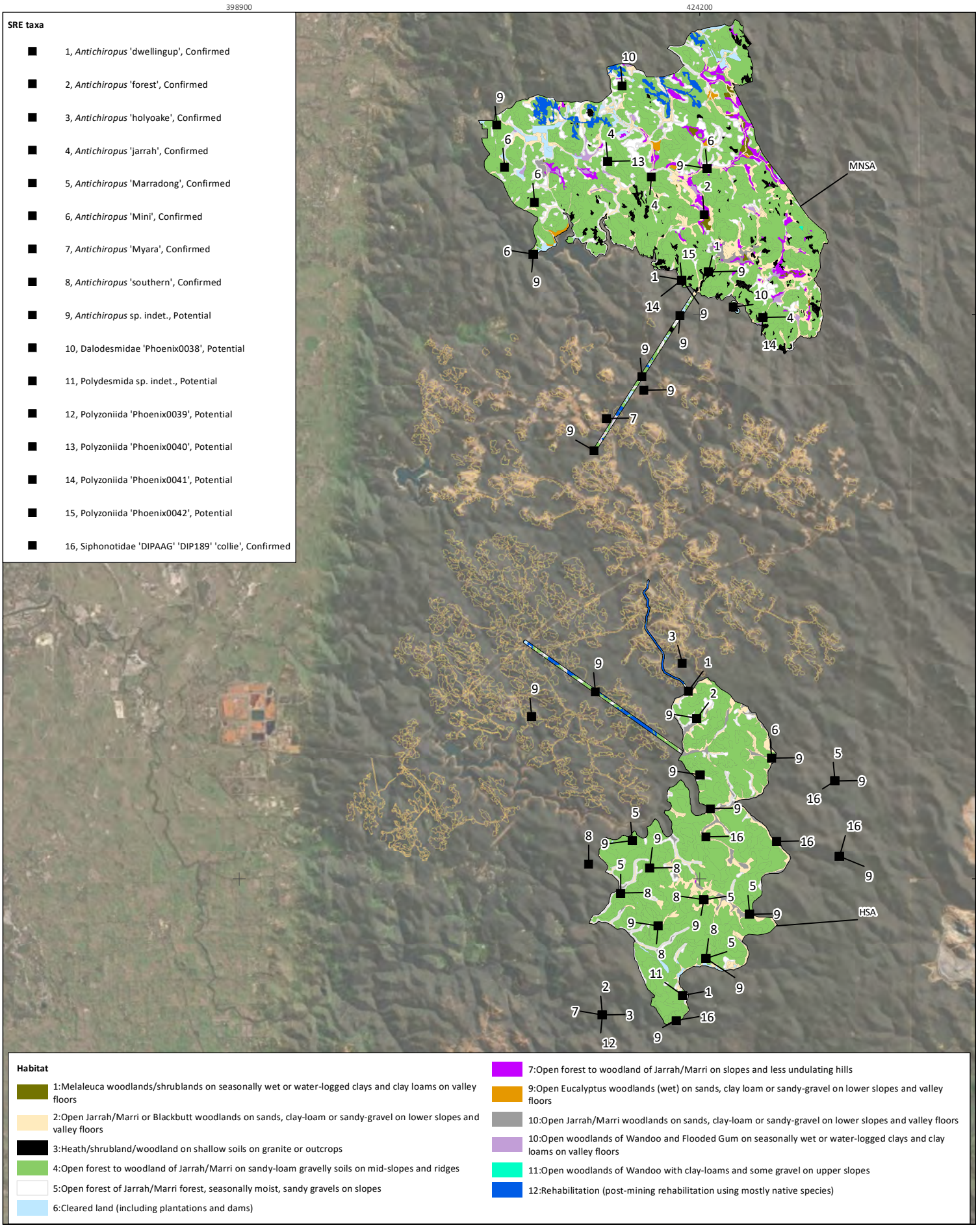

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| Map author | AJ |

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Baseline study area
Rehabilitation study area

# Figure 5-6
## Field records of SRE millipedes

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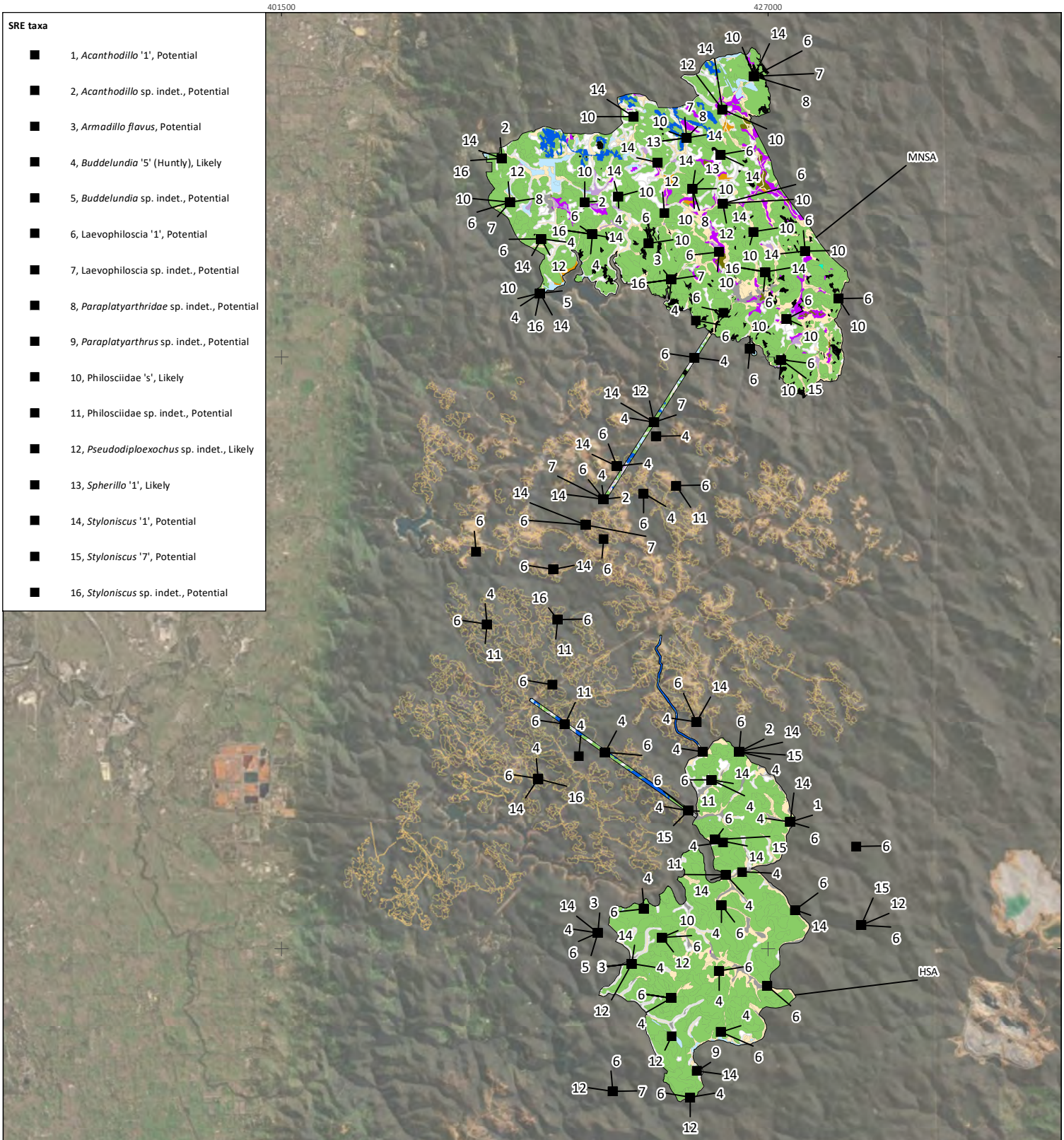

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|---|---|
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| Map author | AJ |

0 5 10
Kilometers

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Baseline study area
Rehabilitation study area

# Figure 5-7
## Field records of SRE isopods

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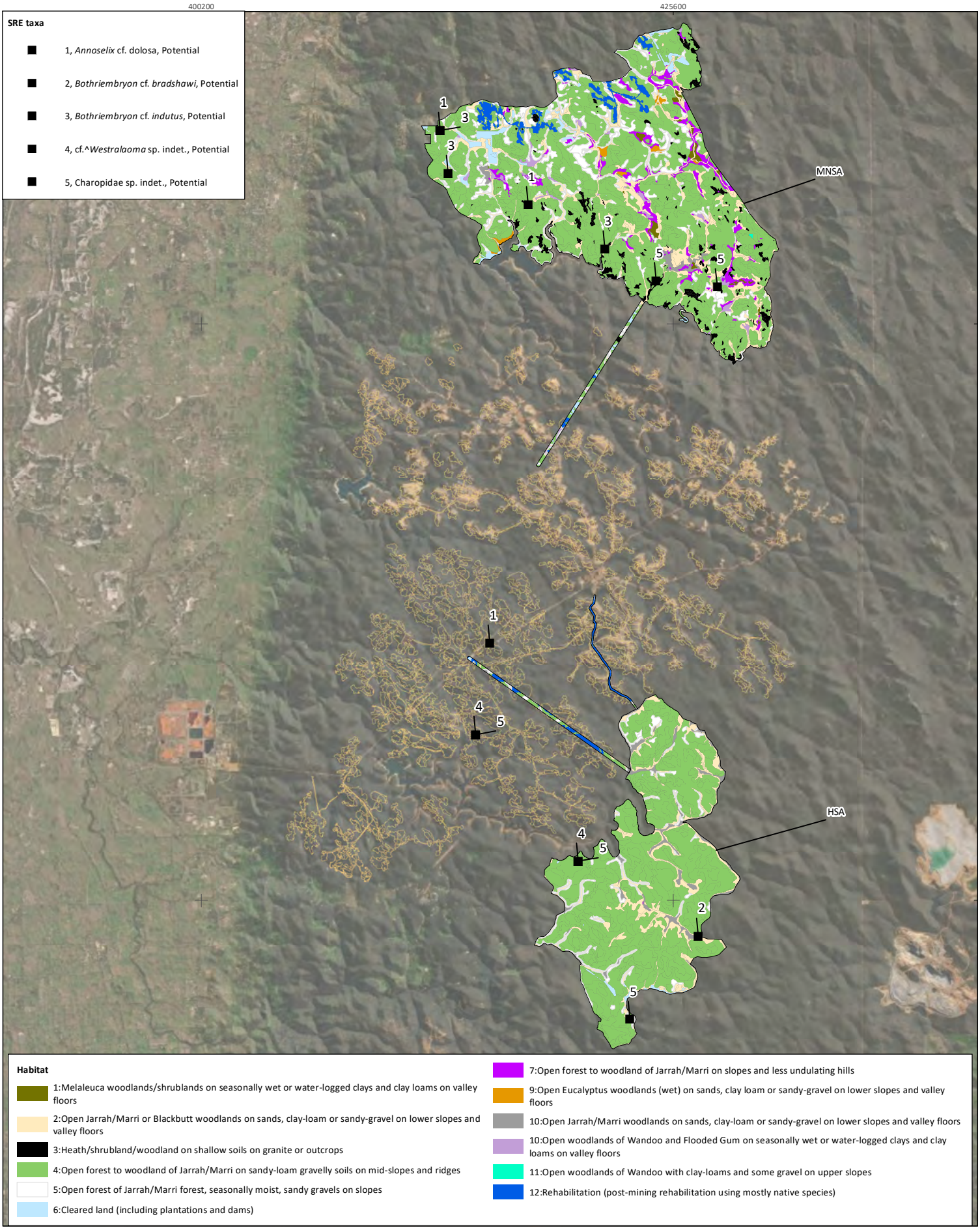

GHD Pty Ltd
Huntly Mine Expansion Project

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|---|---|
| Project No | 1337/1347 |
| Date | 28/04/2021 |
| Drawn by | IN |
| Map author | AJ |

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Kilometers

1:265,000 (at A4) GDA 1994 MGA Zone 50

Baseline study area
Rehabilitation study area

# Figure 5-8
## Field records of SRE land snails

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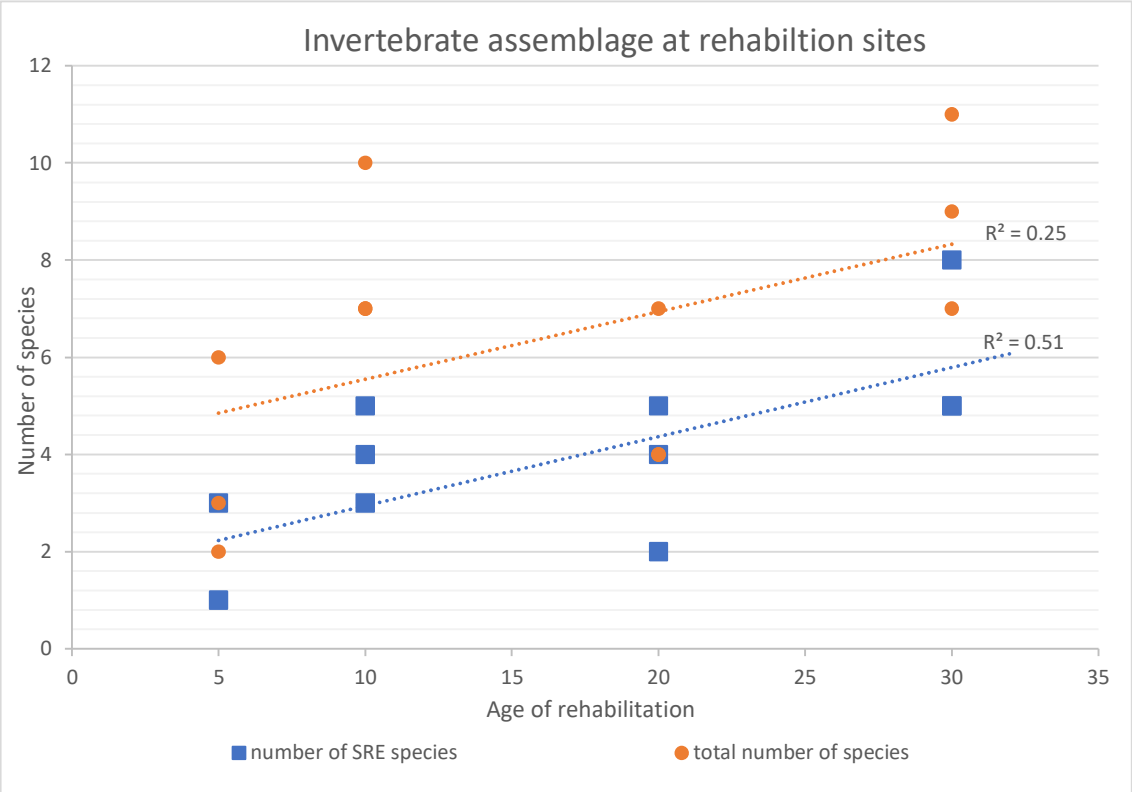


**Figure 5-9 Number of SRE invertebrate taxa present at rehabilitation sites**

### 5.2.3 SRE taxa and fauna habitats

A summary of SRE taxa recorded per habitat type is presented below (Table 5-7). Seven native fauna habitats recorded SRE taxa as follows:

- High – *Melaleuca* woodlands/shrublands on seasonally wet or water-logged clays and clay loams on valley floors (1): 4 taxa
- High – Open Jarrah/Marri or Blackbutt woodlands on sands, clay-loam or sandy-gravel on lower slopes and valley floors (2): 44 taxa
- High – Heath/shrubland/woodland on shallow soils on granite or outcrops (3): 8 taxa
- Low – Open forest of Jarrah/Marri on sandy-loam gravelly soils on mid slopes and ridges (4): 71 taxa
- High – Open forest of Jarrah/Marri forest, seasonally moist, sandy gravels on slopes (5): 27 taxa
- Low – Open forest to woodland of Jarrah/Marri on slopes and less undulating hills (7): 8 taxa
- High – Open woodlands of Wandoo and Flooded Gum on seasonally wet or water-logged clays and clay loams on valley floors (10) 16 taxa
- Low – Rehabilitation (post-mining rehabilitation using mostly native species) (12): 16 taxa.

Habitat type 4 (Open forest of Jarrah/Marri on sandy-loam gravelly soils on mid slopes and ridges) recorded the highest number of SRE taxa. This is also the most widespread habitat in the baseline study area (20,110 ha) and the most sampled. Of the taxa recorded in this habitat however, 14 SRE morphospecies are confined to this 'widespread' habitat.

Of the SRE taxa recorded, 58 were collected from the five High potential SRE habitats (1, 2, 3, 5 and 10). Of these, ten are so far confined to a single habitat type. The most diverse habitat is habitat 2, which recorded 44 SRE taxa, followed by habitat 5 which recorded 27 SRE taxa. This is expected given the number of sites recorded in each habitat type.

In total, 31 taxa were recorded from a single habitat type, of these, ten were recorded from High SRE habitat; eight of these are from habitat (2), the most widespread High SRE habitat, and two from habitat (3), granite associated habitats.

None of the SRE taxa were confined to the rehabilitated habitat (12).

**Table 5-7 Summary of SRE taxa recorded in this survey with respect to fauna habitat**

| Taxa | Fauna habitat | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | High SRE potential | | | | | Low SRE potential | | |
| | 1 | 2 | 3 | 5 | 10 | 4 | 7 | 12 |
| **Mygalomorphae (trap-door spiders)** | ● | ● | ● | ● | ● | ● | ● | ● |
| *Missulena* 'MYG198' | | ● | | | | | | |
| *Aname* 'Phoenix0004' | | ● | | | ● | ● | | |
| *Aname* 'Phoenix0010' | | ● | | | | | | |
| *Aname* 'Phoenix0018' | | ● | | | | | | |
| *Aname* 'Phoenix0020' | | | | ● | | ● | | |
| *Aname* 'Phoenix0036' | | ● | | ● | | ● | | |
| *Aname* 'Phoenix0037' | | | | | | ● | | |
| Anamidae 'Phoenix0009' | | | | | | ● | | |
| Anamidae 'sp. indet' | | ● | | ● | ● | ● | | ● |
| *Kwonkan* 'Phoenix005' | | ● | | | | | | |
| *Kwonkan* 'Phoenix008' | | | | | | ● | | |
| *Proshermacha* 'MYG485' | | ● | | ● | ● | ● | ● | ● |
| *Proshermacha* 'Phoenix0023' | | | | | | ● | | |
| *Proshermacha* 'Phoenix0027' | | ● | | | | | | |
| *Proshermacha* 'Phoenix0028' | | | | | | | ● | |
| *Proshermacha* 'Phoenix0040' | | ● | | | | | | |
| *Teyl* 'MYG355' | | | | ● | | | | |
| *Teyl* 'Phoenix0007' | | ● | | | | ● | ● | ● |
| *Teyl* 'Phoenix0019' | | | | | | ● | | |
| *Teyl* 'Phoenix0021' | | | | | | ● | | |
| Barychelidae 'sp. indet' | | | | | | ● | | |
| *Synothele* 'Phoenix0015' | | ● | | | | ● | | |
| *Synothele* 'Phoenix0016' | | ● | | ● | | ● | | |
| *Eucyrtops latior* | | ● | | | ● | ● | | |
| *Eucyrtops* 'Phoenix0003' | ● | ● | ● | ● | | ● | | ● |
| *Eucyrtops* 'Phoenix0029' | | ● | | | | ● | | |
| *Eucyrtops* 'Phoenix0030' | | | | | | ● | | |
| *Eucyrtops* 'Phoenix0032' | | | | | | ● | | |
| *Eucyrtops* 'Phoenix0033' | | | | ● | | ● | | ● |
| *Eucyrtops* 'WorsleyDNA06' | | | | ● | ● | ● | | |
| *Euoplos* 'Phoenix0011' | ● | | | | | ● | | |
| *Euoplos* 'Phoenix0012' | | | | | | ● | | |
| Idiopidae sp. indet. | ● | ● | | | ● | ● | ● | ● |
| *Idiosoma* 'Phoenix0035' | | ● | | ● | | ● | | |

| Taxa | Fauna habitat | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | High SRE potential | | | | | Low SRE potential | | |
| | 1 | 2 | 3 | 5 | 10 | 4 | 7 | 12 |
| *Idiosoma* 'WAM T129362' | | ● | ● | ● | | ● | | |
| **Opiliones (harvestmen spiders)** | | ● | | ● | ● | ● | ● | ● |
| *Abaddon despoliator* | | | | ● | | ● | | |
| *Calliuncus* 'sp. indet' | | | | ● | | ● | | |
| Eupnoi 'sp. indet' | | ● | | ● | ● | ● | ● | |
| *Nunciella* 'sp. indet' | | | | | | ● | | |
| Trianonychidae 'genus 008' sp. indet. | | ● | | ● | ● | ● | | ● |
| Trianonychidae 'sp. indet' | | ● | | | | ● | | |
| Opiliones sp. indet. | | | | | ● | ● | | ● |
| **Scorpiones (scorpions)** | | ● | | ● | ● | ● | | |
| *Isometroides* 'jarrah' | | ● | | ● | | ● | | |
| *Urodacus planimanus* | | ● | | ● | ● | ● | | |
| **Pseudoscorpions** | | | | | | ● | | |
| Beierolpium 'sp. indet' | | | | | | ● | | |
| Olpiidae 'sp. indet' | | | | | | ● | | |
| **Diplopoda (millipedes)** | ● | ● | ● | ● | ● | ● | | ● |
| *Antichiropus* 'dwellingup' | | | ● | ● | | ● | | |
| *Antichiropus* 'forest' | ● | | | | | ● | | |
| *Antichiropus* 'holyoake' | | | | ● | | ● | | |
| *Antichiropus* 'jarrah' | | ● | | ● | | ● | | |
| *Antichiropus* 'Marradong' | | ● | | | | ● | | |
| *Antichiropus* 'mini' | | ● | | | ● | ● | | |
| *Antichiropus* 'Myara' | | | | | | ● | | |
| *Antichiropus* 'southern' | | ● | | | | ● | | |
| *Antichiropus* 'sp. indet' | | ● | ● | ● | | ● | | ● |
| Dalodesmidae 'Phoenix0038' | | | | | | ● | | |
| Polydesmida 'sp. indet' | | | | | | ● | | |
| Polyzoniida 'Phoenix0039' | | | | | | ● | | |
| Polyzoniida 'Phoenix0040' | | | | | | ● | | |
| Polyzoniida 'Phoenix0041' | | | ● | ● | | | | |
| Polyzoniida 'Phoenix0042' | | | ● | | | | | |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | | ● | | | ● | ● | | |
| **Isopoda (slaters)** | | ● | ● | ● | ● | ● | ● | ● |
| *Acanthodillo* '1' | | ● | | | | | | |
| *Acanthodillo* 'sp. indet' | | ● | | ● | ● | ● | | |
| *Armadillo flavus* | | ● | | | | ● | | |

| Taxa | Fauna habitat | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | High SRE potential | | | | | Low SRE potential | | |
| | 1 | 2 | 3 | 5 | 10 | 4 | 7 | 12 |
| Buddelundia '5' (huntly) | | ● | | ● | ● | ● | | ● |
| Buddelundia 'sp. indet' | | | | | | ● | | |
| *Pseudodiplexochus* 'sp. indet' | | ● | | | | ● | ● | |
| Paraplatyarthridae 'sp. indet' | | ● | | | | ● | | |
| *Spherillo* '1' | | ● | | | | ● | | |
| *Paraplatyarthrus* 'sp. indet' | | | | | | ● | | |
| *Laevophiloscia* '1' | | ● | ● | ● | ● | ● | | ● |
| *Laevophiloscia* 'sp. indet' | | ● | | | | ● | | |
| Philosciidae 's' / Philosciidae '1' | | ● | | | ● | ● | ● | |
| Philosciidae 'sp. indet' | | | | | | ● | | ● |
| *Styloniscus* '1' | | ● | | ● | ● | ● | ● | ● |
| *Styloniscus* '7' | | ● | | ● | | ● | | |
| *Styloniscus* 'sp. indet' | | | | | | ● | | ● |
| **Eupulmonata (land snails)** | | ● | ● | | | ● | | ● |
| *Bothriembryon* cf. *bradshawi* | | ● | | | | | | |
| *Bothriembryon* cf. *inductus* | | ● | | | | ● | | |
| *Annoselix* cf. dolosa | | | | | | ● | | ● |
| cf. *Westraloma* 'sp. indet' | | | | | | ● | | ● |
| Charopidae 'sp. indet' | | ● | ● | | | ● | | ● |
| **Total** | **4** | **4** | **8** | **27** | **16** | **71** | **8** | **17** |

## 5.3 STATISTICAL ANALYSIS OF SURVEY COMPLETENESS

The species records for the baseline surveys of the MNSA and HSA were aggregated for the species accumulation analysis. Despite extensive survey effort conducted to date, the curves of all four indices of t curves for five of the seven Orders examined (Figure 5-10–Figure 5-16) continued to increase at a relatively steep rate, suggesting many species in these Orders remain to be collected. The curves of the indices for the opiliones (Figure 5-11) and scorpions (Figure 5-12) reach asymptote, suggesting few taxa remain undetected.

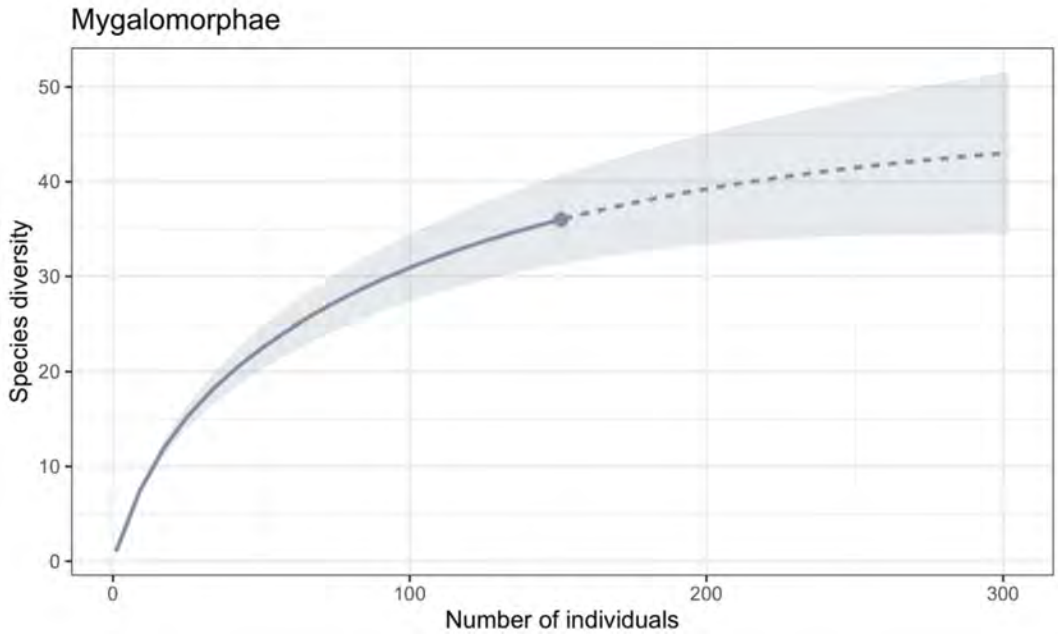


**Figure 5-10 Species accumulation curve for Mygalomorphae**

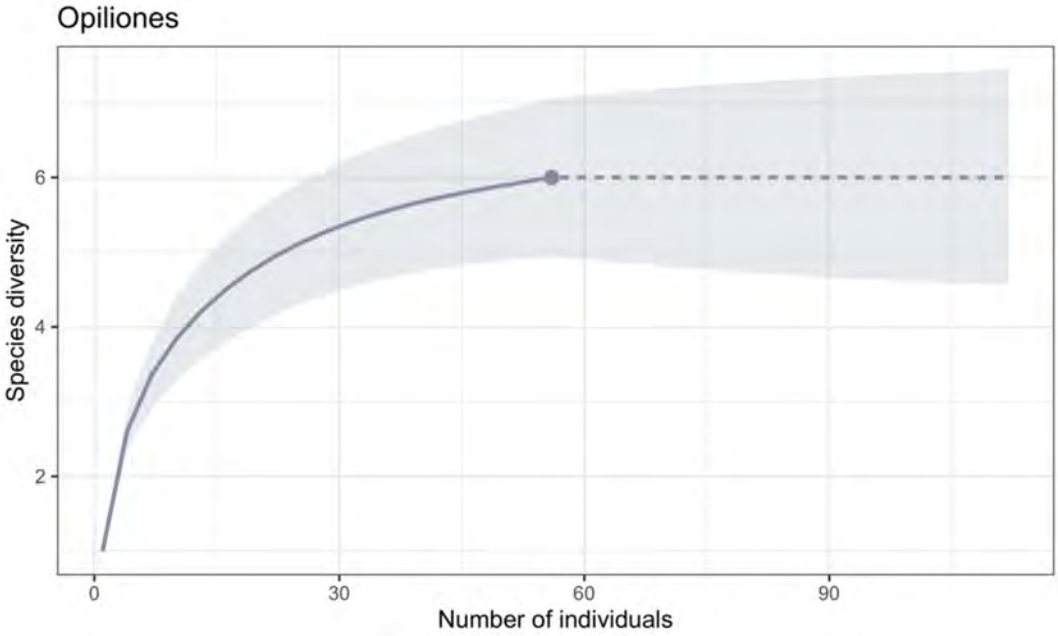


**Figure 5-11 Species accumulation curve for Opiliones**

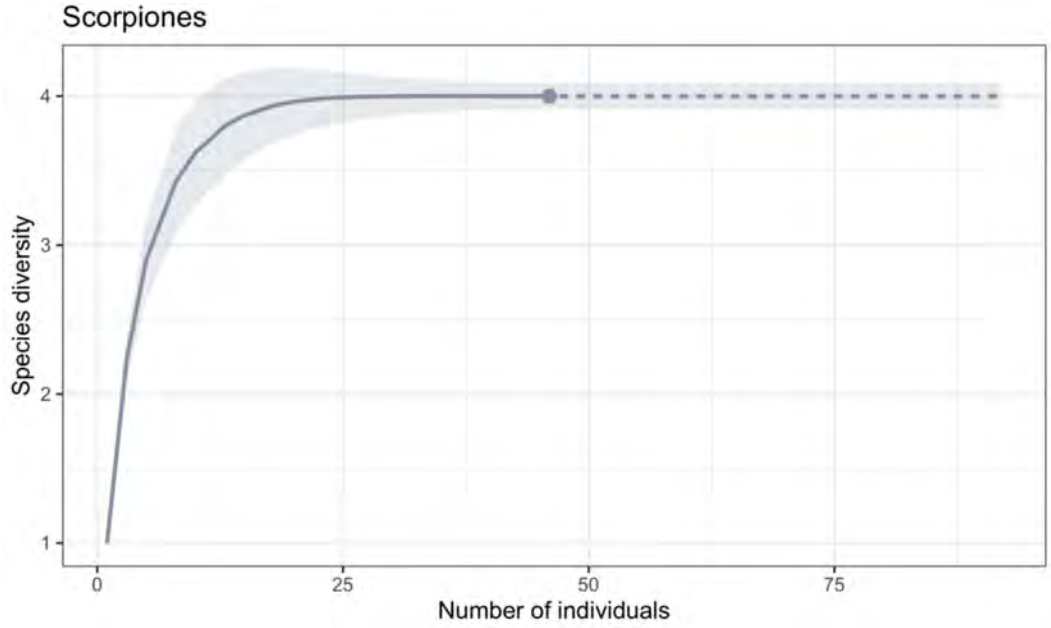


**Figure 5-12 Species accumulation curve for Scorpiones**

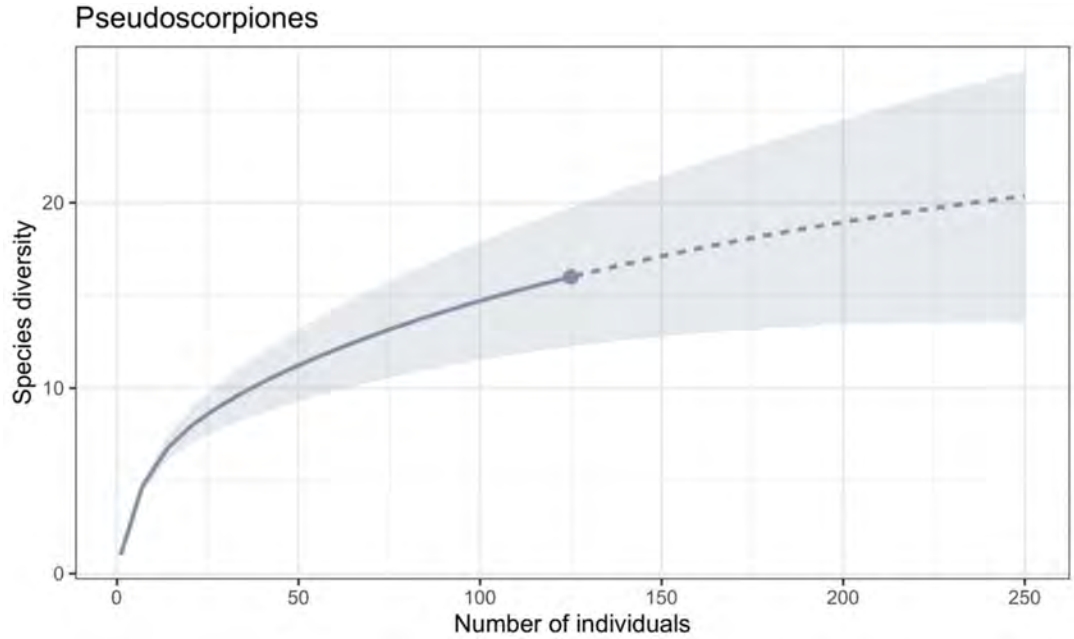


**Figure 5-13 Species accumulation curve for Pseudoscorpiones**

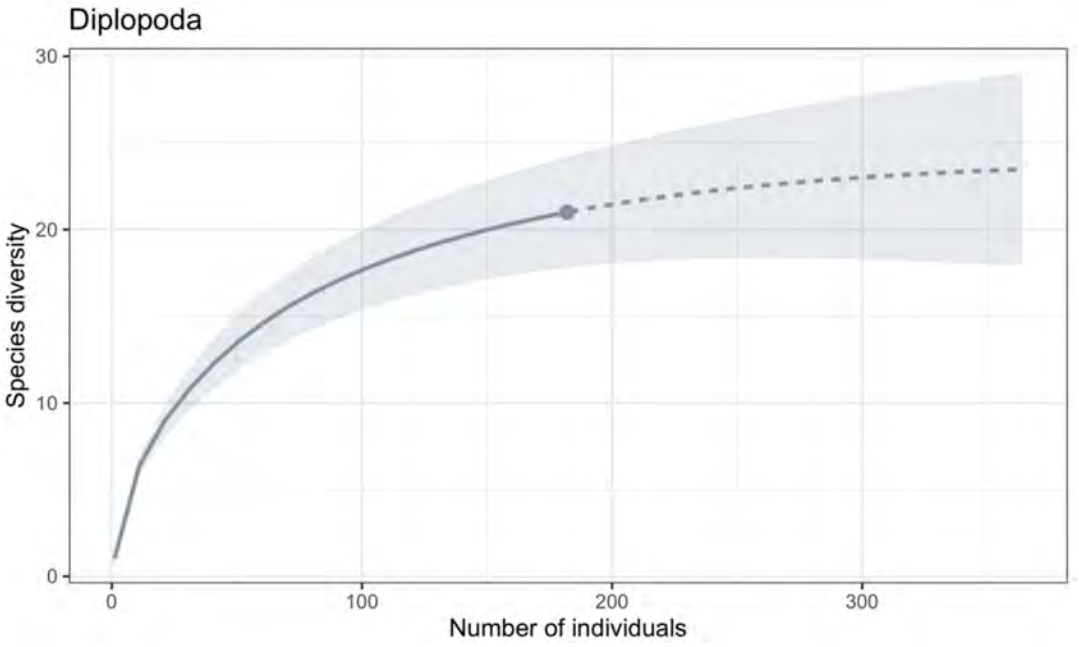


**Figure 5-14 Species accumulation curve for Diplopoda**

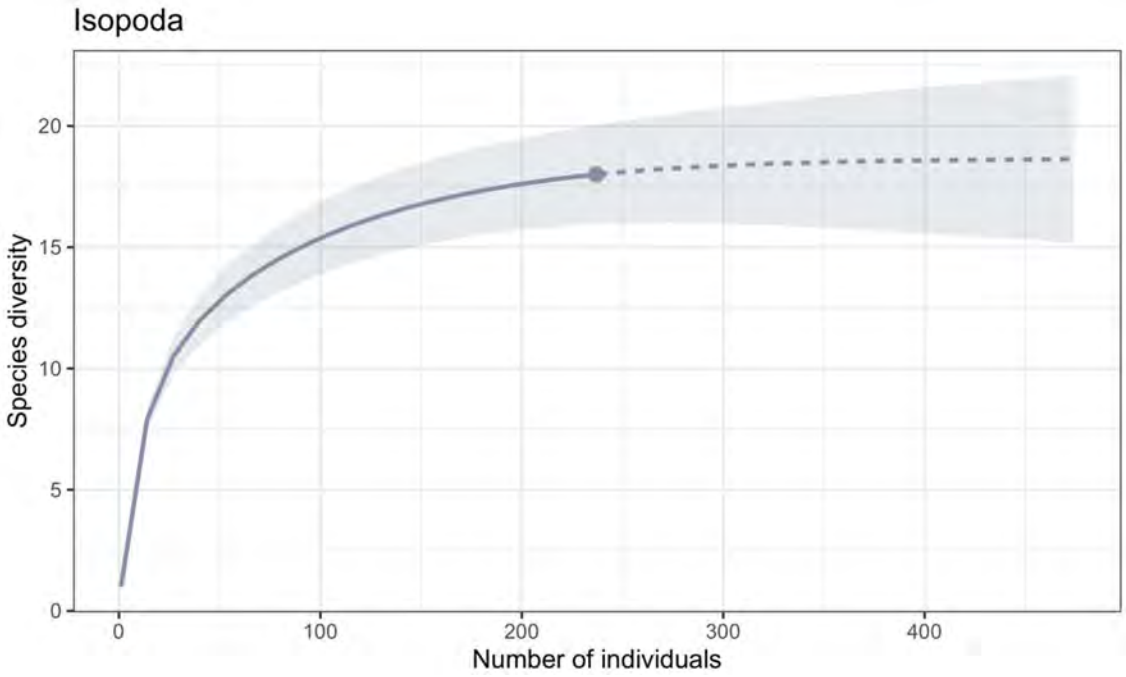


**Figure 5-15 Species accumulation curve for Isopoda**

Expected asymptote: 17-24 species

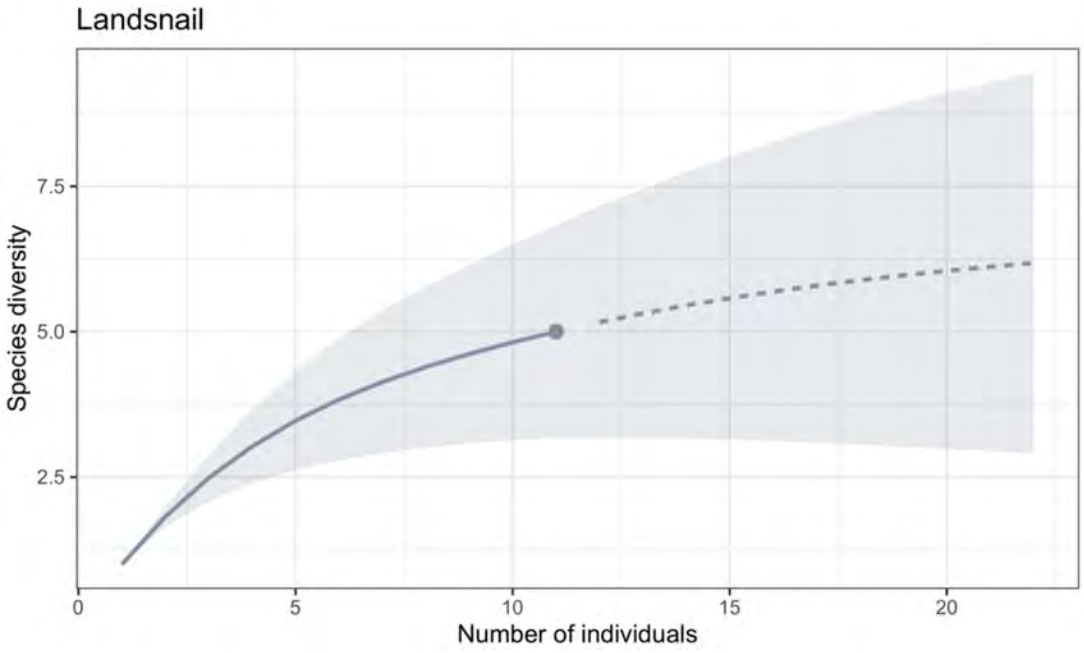


**Figure 5-16 Species accumulation curve for Mollusca**

# 6 DISCUSSION

## 6.1 SRE TAXA

The results of this survey indicate a rich and diverse SRE invertebrate fauna is present in the baseline study area, but with clear bias toward presence of particular SRE groups. Based on the desktop and field results, 86 SRE taxa are known from the baseline study area, comprising 83 taxa from the field survey and three species from the desktop review that were not re-collected in the survey.

The SRE assemblage comprised 10 confirmed SREs (nine millipedes and one scorpion), five likely SREs (all isopods) and 68 potential SREs (35 mygalomorphs, 11 isopods, seven millipedes, seven Opiliones, 5 land snails, one scorpion and two pseudoscorpions). The 10 confirmed SRE taxa were mainly classified as such based-on knowledge of the specific taxonomic group, i.e. *Antichiropus* millipedes, of which there were eight confirmed species recorded. Within the described *Antichiropus* species, only a few have ranges that exceed the nominal limits of short-range endemism (Car & Harvey 2014). All other species of the genus are believed to be SREs and many are known from only a few hundred square kilometres (Car & Harvey 2014; Car *et al.* 2013; Wojcieszek & Simmons 2011).

The confirmed SRE scorpion *Urodacus planimanus* is restricted to the western parts of the Northern Jarrah subregion (E. Volschenk pers. comm.); however, the species is very close to exceeding the nominal upper limit of 10,000 km$^2$ for SREs and records are common within its range.

Taxa were recorded from all main target SRE groups relevant to southern WA but there was high variability in species richness between groups, with mygalomorph spiders, millipedes and isopods represented by much higher diversity than others. Some groups were represented by only widespread species, for example onychophorans, selenopids and spirostreptid millipedes.

Species accumulation curves were not done for some SRE taxa (Selenopidae (flat spiders) and Onychophora (velvet worms) which are typically SRE taxa in other bioregions) were not included because they only contained a few representatives, and all of these were all described and known to be widespread.

Of the SRE taxa collected in the survey, 24 were recorded only from the baseline study area, including 16 that were recorded only from the MNSA, and two only from the HSA. The remaining six were collected across several of the study areas; one in the MN-MA, MN-CC and MN-HR, and five SRE taxa are common to the MNSA and HSA (Table 6-1). The remaining 59 SRE taxa from the survey have been confirmed to have wider distributions than the baseline study area. Further comment is provided in section 6.5 on the 24 taxa that are known only from the MNSA and/or HSA, as these species are most at risk from the Proposal.

The high proportion of taxa collected from representatives of SRE groups that were classified as SREs (73%) was atypical of SRE surveys which generally range between 20-50% SRE taxa; however, was consistent with the Worsley survey (Phoenix 2021a). This is likely attributable to the large number of specimens that were collected and identified using molecular techniques, as well as being from a known diverse ecosystem comprising of a relatively narrow strip of hills and gullies with widescale clearing to the east and west. The use of molecular analysis enabled resolution of distinct taxa which otherwise would be unable to be morphologically identified due to life stage (juveniles), sex (females), or a simple lack of taxonomic knowledge.

The evolution of endemism within the Jarrah Forest has been documented by Wardell-Johnson and Horwitz (2000) to be the outcome of the long and complex geological and climatic history of the region. Through the interrogation of molecular results and geographic datasets, it can be inferred that active speciation via sympatry is prominent within the northern Jarrah Forest. Examples from within the two most speciose taxon groups from the survey, mygalomorph spiders and millipedes,

demonstrate clear sister-species that overlap in distribution; however, are genetically dissimilar. This study highlights a clear gap of knowledge relating to uncovering cryptic, sympatric and/or allopatric speciation within the northern Jarrah Forest and highlights potential endemicity for many taxa.

**Table 6-1 Summary of all SRE known taxa in the study area**

| Survey area | Confirmed | Likely | Potential | Also collected outside baseline study area | Also collected from another survey area but not outside baseline study area | Known only from survey area |
|---|---|---|---|---|---|---|
| MN-MA | 5 | 5 | 49 | 38 | 5 | 16 |
| MN-CC | 2 | 3 | 17 | 20 | 2 | 0 |
| MN-HR | 0 | 1 | 5 | 4 | 2 | 0 |
| H-MA | 10 | 4 | 30 | 39 | 3 | 2 |
| H-CC | 0 | 1 | 6 | 6 | 1 | 0 |
| H-HR | 1 | 1 | 1 | 2 | 1 | 0 |
| Baseline study area total | 11 | 5 | 67 | 59 | n/a | 24 |
| Rehabilitation | 0 | 1 | 17 | 18 | 0 | 0 |

## 6.2 SRE HABITATS

The baseline study area has a very high proportion of native vegetation cover (96.4%). Of the ten SRE habitats defined within this, seven were classified as having High PHR with habitat attributes that often give rise to specialisation or dependency in invertebrate fauna, particularly more mesic habitats on lower slopes and valley floors and isolated granite outcrops. These represented 6,624.8 ha (23.5%) of the baseline study area.

Some SRE taxa were collected only from High PHR habitat/s (e.g. *Proshermacha* 'Phoenix0027', *Teyl* 'MYG355', Polyzoniida 'Phoenix0041') and it is possible these habitats harbour highly range-restricted species. Many SRE taxa were recorded from both Low and High PHR habitats however, with some of these having wider distributions than the current study area, e.g. *Proshermacha* 'MYG485', *Synothele* 'Phoenix0015', *Eucyrtops* 'Phoenix0003', *Eucyrtops* 'Phoenix0033', *Antichiropus* 'southern' and *Annoselix* cf. dolosa.

The Low PHR habitats in the remainder of native vegetation (21,708 ha, 74.8%), mainly woodlands on mid and upper slopes, occur more broadly and typically lacked distinguishing features that facilitate habitat specialisation. At the site level however, microhabitat features suitable for SREs were sometimes present that are not reflected in the much broader scale habitat mapping.

SRE records were not confined to High PHR habitats, with the most widespread habitat (4, Open forest of Jarrah/Marri on sandy-loam gravelly soils on mid slopes and ridges) recording the highest number of SRE taxa. Habitat 4 was the most sampled habitat type and therefore this result probably reflects sampling effort to a large extent. However, it may also reflect different scenarios for different species.

At least some species currently known only from within habitat 4 are unlikely to be highly constrained, as habitat is widely represented within and outside baseline study area. Some species records support this theory, for example *Aname* 'Phoenix0037' (from site MC-001 within habitat 4) was previously collected from the Worsley survey (records >55 km apart) and *Proshermacha* 'Phoenix0023' was recorded from both MNSA and HSA from sites over 44 km apart.

It is possible that finer habitat attributes within habitat 4 may be influencing distribution of some species but many of the species (e.g. Anamidae 'Phoenix0009', *Kwonkan* 'Phoenix0008', *Teyl*

'Phoenix0019', *Teyl* 'Phoenix0021', *Eucyrtops* 'Phoenix0030') were collected from a single site, making inferences about distribution and habitat preference difficult.

Several sites within habitat 4 contained *Allocasuarina* which is a common genus utilised by members of Idiopidae for trap-door lid construction (Main 1978; Rix *et al.* 2018; Phoenix, unpublished data). *Eucyrtops* 'Phoenix0030' and *Euoplos* 'Phoenix0012' were both recorded only from a site containing *Allocasuarina*; however, several other Idiopids were collected from sites lacking *Allocasuarina*.

## 6.3 SURVEY COMPLETENESS

A total of 60 sites were systematically surveyed in the baseline study area across an area of 28,132 ha and across eight habitat types. From this survey, 113 taxa from nine SRE groups were delineated. Species accumulation curves for three of the seven most speciose SRE groups (opiliones, scorpions or isopods) suggest few taxa remain undetected and that additional efforts focused on these Orders is likely to only marginally improve the knowledge concerning the species richness of these groups.

The curves of the indices of the remaining four SRE groups (mygalomorphs, pseudoscorpions, millipedes and land snails) continued to rise indicating that these groups are more speciose and additional taxa remain to be collected. These trends are considered reflective of the high level of endemicity, and hence diversity, in the northern Jarrah Forest as concluded by Wardell-Johnson and Horwitz (1996) and Wardell-Johnson and Horwitz (2000). This result was also consistent with the Worsley survey (Phoenix 2021a).

## 6.4 COMPARISON BETWEEN MNSA AND HSA

The SRE assemblages between the MNSA and HSA were considerably different with the two study areas sharing just 30 out of the 83 SRE taxa (36%), and 36 and 17 SRE taxa being exclusively recorded from the MNSA and HSA, respectively (Table 6-2). Mygalomorph spiders comprised the highest proportion of taxa that were recorded exclusively in either the MNSA or the HSA, followed by Millipedes. Both study areas recorded similar numbers of millipede species exclusively; however, the MNSA recorded four times the number of mygalomorph spiders unique to that area.

The group that appears to have the highest degree of similarity between the MNSA and HSA is the isopods, with over half of the taxa being recorded from both the MNSA and HSA. Opiliones also appear to be distributed between both study areas; however, this group is very data deficient and poorly studied, with all but one species from the survey being indeterminate.

While both the MNSA and HSA shared similar habitat types, the MNSA had more habitat diversity, with nine fauna habitats compared to seven fauna habitats in the HSA. The dominant habitat (4) covered 65% of its 17,672.2 ha study area leaving 35% of the MNSA study area split between the remaining eight fauna habitats, while the HSA dominant habitat (also habitat 4) covered 80% of its 10,456.4 ha study area, leaving only 20% comprising of other types of habitat, of which three occupied less than 0.1% of the HSA.

Some notable habitats were missing from the HSA or occupied less than 0.1% of the HSA, including *Melaleuca* woodlands/shrublands and granite associated woodland/shrublands. Valley floor habitats which often represent high value habitat for SREs were identical in both the MNSA and HSA, with 13.9%; however, habitats with a high habitat rating were 26.7% and 18.1% in the MNSA and HSA, respectively. The higher proportion of high value habitats in the MNSA is largely attributed to more areas of granite outcroppings, presence of drainage/creeklines and seasonally moist areas in that study area.

**Table 6-2 SRE taxa within the MNSA and HSA**

| | MNSA only | HSA only | Common to MNSA and HSA |
|---|---|---|---|
| Mygalomorph spiders | 20 | 6 | 9 |
| Opiliones | 2 | 0 | 5 |
| Scorpions | 1 | 0 | 1 |
| Pseudoscorpions | 2 | 0 | 0 |
| Millipedes | 5 | 6 | 5 |
| Isopods | 4 | 3 | 9 |
| Land snails | 2 | 2 | 1 |
| **Total** | **36** | **17** | **30** |

## 6.5 COMPARISON BETWEEN HUNTLY AND WORSLEY STUDIES

Comparisons between the current survey and the Worsley survey (Phoenix 2021a) revealed similar SRE invertebrate community structure but with mostly different SRE species (Table 6-3). The proportionate representation of the SRE groups is similar to that of the Worsley survey (Phoenix 2021a), where the SRE assemblage was also predominantly comprised of mygalomorphs, millipedes and isopods. A similar number of SRE species were recorded in each survey and the same proportion of taxa collected from SRE groups were classified as an SRE species (Table 6-3).

Of the SRE assemblage from the current survey and the Worsley survey (Phoenix 2021a), 13 SREs were collected from both areas (Table 6-4). Overlapping taxa included several mygalomorphs and isopods, an opilione, a millipede and a land snail (Table 6-4).

The overlapping species represent just 15% of the SRE assemblage known from the baseline study area and suggests many of the SREs may have restricted ranges at a scale much smaller than IBRA subregion.

**Table 6-3 Comparison of Huntly and Worsley (Phoenix 2021a) studies**

| | Huntly | Worsley |
|---|---|---|
| Baseline study area size (ha) | 28,132 ha | 124,651 ha<br>29,360 (CBME and WMDE)<br>95,291 (regional study area) |
| Number of sites (baseline survey) | 60 sites in total<br>• 28 MN-MA<br>• 22 H-MA<br>• 5 MN-CC<br>• 3 H-CC<br>• 1 MN-HR<br>• 1 H-HR | 47 sites in total<br>• 10 CBME (2019)<br>• 22 WMDE (2019)<br>• 15 regional study area (2020) |
| Number of taxa from SRE groups | 117 | 134 |
| Number of SRE taxa | Confirmed: 11<br>Likely: 5<br>Potential: 67<br>Total: 83 | Confirmed: 9<br>Likely: 12<br>Potential: 77<br>Total: 98 |
| % of taxa from SRE groups that are SREs | 73% | 73% |
| Number of families and genera | Families: 19 | Families: 19 |

| | Huntly | Worsley |
|---|---|---|
| | Genera: 24 | Genera: 30 |
| Number of taxa in each group | Mygalomorphs: 35 (42.2%)<br>Opiliones: 7 (8.4%)<br>Pseudoscorpions: 2 (2.4%)<br>Scorpions: 2 (2.4%)<br>Millipedes: 16 (19.3%)<br>Isopods: 16 (19.3%)<br>Land snails: 5 (6.0%) | Mygalomorphs: 40 (40.8%)<br>Opiliones: 8 (8.2%)<br>Pseudoscorpions: 4 (4.1%)<br>Scorpions: 0<br>Millipedes: 19 (19.4%)<br>Isopods: 24 (24.5%)<br>Land snails: 3 (3%) |
| Number of native habitat types | 8 | 9 |
| Number of sites (rehabilitation survey) | 12 | 8 |
| Age of rehabilitation | 5 YO (rehabilitated in 2015): 3 sites<br>10 YO (rehabilitated in 2010): 3 sites<br>20 YO (rehabilitated in 2000): 3 sites<br>30 YO (rehabilitated in 1990): 3 sites | 5 YO (rehabilitated in 2015): 1 site<br>9 YO (rehabilitated in 2011): 1 site<br>13 YO (rehabilitated in 2007): 1 site<br>15 YO (rehabilitated in 2005): 1 site<br>18 YO (rehabilitated in 2002): 1 site<br>22 YO (rehabilitated in 1998): 1 site<br>27 YO (rehabilitated in 1993): 1 site<br>36 YO (rehabilitated in 1984): 1 site |

**Table 6-4 Common SRE taxa from the Huntly and Worsley studies**

| Family | Species | Comments |
|---|---|---|
| Actinopidae | *Missulena* 'MYG198' | Also recorded by Phoenix (Phoenix 2012) and at Wungong Dam in 2010 |
| Anamidae | *Aname* 'Phoenix0037' | Collected from several rehabilitation sites (Worsley and Huntly), and a baseline site (Huntly) |
| Anamidae | *Proshermacha* 'MYG485' | Appears relatively common within a restricted range |
| Anamidae | *Teyl* 'MYG355' | Only one other known record outside Huntly and Worsley |
| Idiopidae | *Eucyrtops* 'Phoenix0033' | Only known from the Huntly and Worsley surveys |
| Idiopidae | *Eucyrtops* 'WorsleyDNA06' | Only known from the Huntly and Worsley surveys |
| Lomanellidae | *Abaddon despoliator* | Also collected from the Warren region; however, only from a few records |
| Siphonotidae | Siphonotidae 'DIPAAG' 'DIP189' 'collie' | Only known from the Huntly and Worsley surveys |
| Armadillidae | *Armadillo flavus* | Recorded from other areas of the Jarrah Forest |
| Philosciidae | *Laevophiloscia* '1' | Commonly collected from both study areas and the rehabilitation sites |
| Styloniscidae | *Styloniscus* '1' | Commonly recorded from both study areas and the rehabilitation sites |
| Styloniscidae | *Styloniscus* '7' | Commonly recorded from both study areas |
| Bothriembryontidae | *Bothriembryon* cf. *bradshawi* | Recorded from a baseline site (Huntly) and a rehabilitation site (Worsley) |

## 6.6 REVIEW OF TAXA KNOWN ONLY FROM THE BASELINE STUDY AREA

Sixteen of the 24 taxa restricted to the MNSA and/or the HSA are represented by mygalomorphs, seven are represented by millipedes and one is a land snail. Nineteen of these are known only from the MNSA, again supporting the position that this study area is more likely to harbour species with very restricted ranges. Eleven of the taxa were collected at a single site within the baseline study area making comments about habitat preferences and distributions difficult. The other species were collected at two or more sites allowing for more informed comment on these species (Table 6-5). All 24 taxa are considered potential SREs.

### *6.6.1 Aname*

Many *Aname* species appear to have restricted distributions (Harvey *et al.* 2012) and few are formally described. A large number of *Aname* taxa were identified in the desktop review, none of which were collected in the current survey with the exception of *Aname* 'Phoenix0037' which was previously recorded in the Worsley survey. All other *Aname* from the study area are new species. This was a similar result to Worsley, with a mainly unique assemblage recorded there also.

The results appear to support likelihood of the *Aname* from the survey being SREs. Several indeterminate Anamidae were collected throughout the study area that may represent additional specimens of the assigned morpho-species.

*Aname* specimens were collected from a range of habitat and site types, including a creekline, plains, and hill slopes (one associated with granite). Two *Aname* species were recorded from variable habitat types. Two habitat types most recorded *Aname* species, (2) Open Jarrah/Marri or Blackbutt woodlands on sands, clay-loam or sandy-gravel on lower slopes and valley floors and (4) Open forest to woodland of Jarrah/Marri on sandy-loam gravelly soils on mid-slopes and ridges. This included records of the same species from both habitats, but also single site records from either habitat 2 or 4. This may indicate preference for some of the *Aname* taxa to inhabit lower vs upper parts of the landscape.

Of all the sites where *Aname* taxa were collected, only one site (MN010) recorded two species, *Aname* 'Phoenix0004' and *Aname* 'Phoenix0036' from site MN-010. *Aname* 'Phoenix0004' and *Aname* 'Phoenix0036' therefore co-occur and probably share similar habitat requirements.

Based on current knowledge, the *Aname* species with most potential for highly restricted distribution is *Aname* 'Phoenix0010' as it is only known from a single High PHR habitat type (Table 6-5; Figure 5-3).

### *6.6.2 Kwonkan*

*Kwonkan* is also a poorly described genus and molecular analyses of mygalomorphs in the Pilbara have found *Kwonkan* species interspersed within *Aname* lineages (Castalanelli *et al.* 2014). It appears to be a poorly collected genus in the northern Jarrah Forest; limited records were returned from the desktop review (Table 5-2) and none were collected in the Worsley survey (Phoenix 2021a). The current survey also recorded no indeterminate collections of *Kwonkan* specimens.

The two *Kwonkan* species were both recorded from single sites in different habitats and are no match to any previous collections, therefore represent new species. Based on current knowledge, the *Kwonkan* species with most potential for restricted distribution is *Kwonkan* 'Phoenix005' as it is only known from a single High PHR habitat type 2, although this habitat is well represented throughout MNSA and HSA (Table 6-5; Figure 5-3).

### *6.6.3 Proshermacha*

*Proshermacha* is a genus of trap-door spider in the family Anamidae known mostly from southwestern Australia but extending along the southern coast.

*Proshermacha* specimens were collected from a variety of site types, 12 hill slopes, five plains and two drainage lines. The two species known only from the baseline study area, *P.* 'Phoenix0040' and *P.* 'Phoenix0027', were both collected from low lying areas (lower slope, valley floor along drainage) and may be confined to these habitats. Both habitats of the records (4 and 10) are well represented in the baseline study area. A large number of indeterminate *Proshermacha* specimens were returned in the desktop review and may include additional collections of *Proshermacha* 'Phoenix0040' and *P.* 'Phoenix0027'.

### *6.6.4 Teyl*

The trap-door spider genus *Teyl* is a poorly described yet widely distributed group in the family Anamidae; with highest diversity in the southwestern land division of WA (Huey *et al.* 2019). A number of species are dependent on southern-temperate mesic habitats in the far south of WA, but most occur in occur in semi-arid or arid inland regions (Main1985, in Huey *et al.* 2019).

Collection sites for *Teyl* specimens from the survey were variable, including hill slopes, gullies and plains. The two species known only from the baseline study area, *T.* 'Phoenix0019' and *T.* 'Phoenix0021, were collected from only single site each, limiting comment on habitat preferences and distribution, though both were collected within widespread habitat 4.

### *6.6.5 Synothele*

The genus *Synothele* is widespread throughout WA and South Australia with most species known only from limited ranges (Raven 1994). *Synothele* 'Phoenix0016' was collected from a diverse range of habitats and is unlikely to be highly restricted.

### *6.6.6 Eucyrtops*

*Eucyrtops* is a relatively small and geographically restricted genus endemic to the southern half of WA (Rix *et al.* 2017). Two of the three *Eucyrtops* known only from the baseline study area were recorded from a range of habitat types and are unlikely to be highly restricted (Table 6-5). The third, *E.* 'Phoenix0030', was recorded from a single site in Low PHR habitat 4 in a similar site matching records of the other two species. The distribution of *E.* 'Phoenix0030' may therefore be inferred from these two species to be wider than a single habitat type, and therefore unlikely to be highly restricted.

### *6.6.7 Euoplos*

*Euoplos* is a widely distributed genus in Australia. It includes *Euoplos inornatus*, a Priority 3 species, which was returned in the desktop review.

The two habitat records for *Euoplos* 'Phoenix0011' are distinctly different suggesting the species has broader habitat tolerances and therefore is unlikely to be highly restricted.

### *6.6.8 Antichiropus*

The genus *Antichiropus* is the most abundant and diverse millipede genus in WA and occurs throughout most of the State. Within the described species only a few have ranges that exceed the nominal limits of short-range endemism (Car & Harvey 2014). All other species of the genus are believed to be SREs and many are known from only a few hundred square kilometres (Car & Harvey 2014; Car *et al.* 2013; Wojcieszek & Simmons 2011). Several morphospecies in the genus *Antichiropus* have been found throughout the southwest and all are currently considered SREs (WA Museum database).

*Antichiropus* specimens were collected from most drainage/creekline, gully and granite outcrop sites, but were also recorded in broader hill slope habitats. Of the three *Antichiropus* species known only from the baseline study area, *Antichiropus* 'jarrah' is potentially the most restricted, being recorded from valley floor/lower slope sites in association with drainage lines. *Antichiropus* 'dwellingup' and *A.* 'mini' were both collected from variable habitats and from sites over 40 km apart.

### 6.6.9 Dalodesmidae

Dalodesmidae is a family of millipedes in the order Polydesmida, containing at least 250 species found in the Southern Hemisphere (ALA 2021). Narrow distributions have been documented for members of the family (Mesibov 2005). Dalodesmidae 'Phoenix0038' was collected from variable site types in widespread habitat 4 and is therefore unlikely to be highly restricted.

### 6.6.10Polyzoniida

Polyzoniida is an order of millipedes referred to as sucking millipedes containing three families of which only one, Siphonotidae, has a southern distribution, including representatives in Australia (ALA 2021). One described Siphonotidae, *Rhinotus michaelseni*, and several morphospecies, were returned in the desktop review, including confirmed SRE species (Table 5-2).

The polyzoniids from the survey represent new taxa that were not matched to any previous collections. Three are currently known only from the baseline study area (Table 6-5) and a fourth was collected from a reference site outside the HSA (Table 5-5). Nearly all polyzoniid records were associated with gully and/or granite outcropping features, suggesting this group have fairly narrow habitat requirements.

### *6.6.11Bothriembryon*

*Bothriembryon* cf. *indutus* was collected from three variable sites suggesting the species does not have highly narrow habitat requirements. The common feature apparent to all sites was high litter depth and cover (Appendix 1). The specimens were juveniles and therefore relationship to *B. indutus* is unconfirmed. The specimens were not matched to any sequences on Genbank. *B. indutus* has a widespread distribution in WA.

**Table 6-5 Review of SRE taxa known only from the baseline study area**

| Species | Comments |
|---|---|
| *Aname* 'Phoenix0004' | Recorded from three sites within the MN-MA (MN-010, MN-014, MN-023) in three woodland habitat types, two High PHR (2, 10) and one Low PHR (10).<br>Site descriptions:<br>- MN-010 – mature Jarrah/Marri forest with abundant *Xanthorrhoea* and thick understory along a creek line with brown sandy-loam soil. Mapped as habitat 2.<br>- MN-014 – Jarrah/Marri forest on plain with whitish, sandy-loam soil. Mapped as habitat 10<br>- MN-023 – Jarrah and *Allocasuarina* over *Banksia* with fallen logs on hill slope with clay loam, laterite soil. Mapped as habitat 4.<br>Indeterminate Anamidae (Anamidae 'sp. indet') were collected from 21 sites throughout the baseline study area, the ReSA and outside the study areas that may include additional specimens of *Aname* 'Phoenix0004'.<br>Variable habitats of the records, including from Low PHR habitats and records in high and low parts of the landscape suggest this species does not have very narrow habitat requirements and is therefore unlikely to be highly restricted. |

| Species | Comments |
|---|---|
| *Aname* 'Phoenix0010' | Three specimens collected from opportunistic collections in the H-MA (site8) in High PHR habitat 2 – Open Jarrah/Marri or Blackbutt woodlands on sands, clay-loam or sandy-gravel on lower slopes and valley floors.<br>The collections of indeterminate Anamidae throughout the study area may include additional specimens of *Aname* 'Phoenix0010'.<br>Species may be confined to lower slopes/valley floors, although single record limits inferences about habitat preferences and distribution. Habitat 2 is well represented throughout MNSA and HSA. |
| *Aname* 'Phoenix0020' | Recorded from one site in MNSA (M-CC, site MC-005) and one in HSA (H-CC, site HC003), in two similar habitat types (4, 5) of open Jarrah/Marri forest or woodland on slopes. Habitat 5 is considered High PHR due to seasonal moisture, (4) is Low PHR (4). Site descriptions also similar:<br>- HC003 – Jarrah over *Banksia* over ferns and *Zamia* on hill slope. Red-brown, sandy clay/ loam/laterite soils.<br>- MC-005 – Tall Jarrah forest on gentle slope with sparse midstory of Jarrah and *Gastrolobium* over understory of *Xanthorrhoea* and cycads, large stumps and logs abundant. Red-orange/brown gravel-alluvial, loam soils.<br>The collections of indeterminate Anamidae throughout the study area may include additional specimens of *Aname* 'Phoenix0020'.<br>Site descriptions similar. Habitat 4 widespread throughout baseline study area and site descriptions indicate variable habitats; species unlikely to be highly constrained. |
| *Anamidae* 'Phoenix009' | Recorded from one site within the MN-MA (MN-001) in Low PHR habitat 4.<br>Site description: Jarrah/Marri forest with *Allocasuarina* over *Banksia grandis*, with lots of large logs. Brown sandy loam, laterite soils.<br>Anamidae 'Phoenix009' may represent one of the *Aname*, *Kwonkan*, *Proshermacha* or *Teyl* species from the collection, or another Anamidae species.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area. |
| *Kwonkan* 'Phoenix005' | Recorded from one site within the MN-MA (MN-006) in High PHR habitat 2 – Open Jarrah/Marri or Blackbutt woodlands on sands, clay-loam or sandy-gravel on lower slopes and valley floors.<br>Site description: *Melaleuca* shrubland along drainage line under large granite outcrop with good understory. Brown/grey/whitish, sandy clay, sandy loam soils.<br>May represent specimens of indeterminate *Kwonkan* from desktop review (see Table 5-2) or a new species.<br>Species may be confined to valley floors along drainage lines, although single record limits inferences about habitat preferences and distribution. Habitat 2 is well represented throughout MNSA and HSA. |
| *Kwonkan* 'Phoenix008' | Recorded from one site within the H-MA (H-019) in Low PHR habitat 4.<br>Site description: Jarrah forest over *Xanthorrhoea* and *Zamia* on undulating plain. Brown/ yellow, clay loam/laterite soils.<br>May represent specimens of indeterminate *Kwonkan* from desktop review (Table 5-2) or a new species.<br>Habitat 4 widespread throughout baseline study area; however, single record limits inferences about habitat preferences and distribution. |
| *Proshermacha* 'Phoenix0027' | Recorded from two sites within the MN-MA (MN-011 and MN-014) in two High PHR habitats (2, 10). Both habitats in low lying areas (lower slope, valley floor).<br>Site descriptions:<br>- MN-011 – Jarrah and *Allocasuarina* over *Xanthorrhoea* on hill slope. Yellow/black, sandy clay/ loam/ laterite soils |

| Species | Comments |
|---|---|
| | - MN-014 – Jarrah/Marri forest on plain with whitish, sandy-loam soil.<br>Species may be confined to low lying areas but site descriptions variable therefore unlikely to be highly restricted. Habitat 2 and 10 well represented in MNSA and HSA.<br>Large number of indeterminate *Proshermacha* specimens returned in desktop, may include specimens of *Proshermacha* 'Phoenix0027'. |
| *Proshermacha* 'Phoenix0028' | Recorded from two sites within the MN-MA (MN-003, and MN-012) in both in Low PHR habitat 4.<br>Site descriptions:<br>- MN-003 – Jarrah Marri forest over *Banksia grandis* on hill slope. Brown, sandy clay-loam/laterite soils<br>- MN-012 – Jarrah *Allocasuarina* woodland over *Xanthorrhoea* dominant shrubs over sedge grasses and mixed herbs. Brown/yellow, sandy clay/loam/laterite soils.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area.<br>Large number of indeterminate *Proshermacha* specimens returned in desktop, may include specimens of *Proshermacha* 'Phoenix0028'. |
| *Proshermacha* 'Phoenix0040' | Recorded from one site within the MN-MA (MN-014) in High PHR habitat 10.<br>Site description: MN-014 – Jarrah/Marri forest on plain with whitish, sandy-loam soil.<br>Site 14 in low lying area (valley floor). Species may be confined to valley floors along drainage lines, although single record limits inferences about habitat preferences and distribution. Habitat 10 well represented in MNSA and HSA.<br>Large number of indeterminate *Proshermacha* specimens returned in desktop, may include specimens of *Proshermacha* 'Phoenix0040'. |
| *Teyl* 'Phoenix0019' | Recorded from one site within the MN-MA (MN-001) in Low PHR habitat 4.<br>Site description: Jarrah/Marri forest with *Allocasuarina* over *Banksia grandis*, with lots of large logs. Brown sandy loam, laterite soils.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area.<br>Several indeterminate *Teyl* specimens returned in desktop, may include specimens of *Teyl* 'Phoenix0019'. |
| *Teyl* 'Phoenix0021' | Recorded from one site within the MN-MA (MN-019) in Low PHR habitat 4.<br>Site description: Jarrah Marri *Allocasuarina* forest over *Banksia grandis* on hill slope. Brown/whitish, sandy loam/laterite soils.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area.<br>Several indeterminate *Teyl* specimens returned in desktop, may include specimens of *Teyl* 'Phoenix0021'. |
| *Synothele* 'Phoenix0016' | Recorded from six sites within the MN-MA and H-MA (MN-001, MN-006, MN-007, MN-018, MN-027 and H-014) in two High PHR habitats (2, 5) and one Low (4).<br>Site descriptions:<br>- MN-001 – Jarrah/Marri forest with *Allocasuarina* over *Banksia grandis*, with lots of large logs. Brown sandy loam, laterite soils<br>- MN-006 – *Melaleuca* shrubland along drainage line under large granite outcrop with good understory. Brown/grey/whitish, sandy clay, sandy loam soils<br>- MN-007 – Jarrah Marri forest with thick understory next to creek and granite outcropping in gully. Brown, sand-clay soils with granite rocks present<br>- MN-018 – Jarrah, Marri and *Allocasuarina* on north facing slope. Brown, sandy loam/laterite soils<br>- MN-027 – Jarrah woodland over *Banksia* over mixed shrubs and grasses on hill slope. Brown, sandy loam/laterite soils |

| Species | Comments |
|---|---|
| | - H-014 – Jarrah/Marri over grass trees in low lying valley/drainage line. Brown/yellow, sandy clay/loam/laterite soils.<br>Species collected from a diverse range of habitats and unlikely to be highly restricted.<br>Several indeterminate *Synothele* specimens returned in desktop, may include specimens of *Synothele* 'Phoenix0016'. |
| *Eucyrtops* 'Phoenix0029' | Recorded from three sites within the MN-MA (MN-002, MN-005, MN-006) in one High PHR habitat (2) and one Low (4).<br>Site descriptions:<br>- MN-002 – Jarrah/Marri forest over *Allocasuarina* over *Banksia grandis* on hill slope. Lots of large logs. Brown, sandy loam/laterite soils.<br>- MN-005 – Jarrah/Marri *Allocasuarina* forest, *Banksia grandis* regrowth and low herbs on undulating plain. Brown, sandy loam/laterite soils.<br>- MN-006 – *Melaleuca* shrubland along drainage line under large granite outcrop with good understory. Brown/grey/whitish, sandy clay, sandy loam soils<br>Species collected from a range of habitats, including widespread habitat 4; unlikely to be highly restricted.<br>Idiopidae sp. indet collected from several sites throughout the study area, and several indetermine *Eucyrtops* from desktop may include additional specimens of *Eucyrtops* 'Phoenix0029'. |
| *Eucyrtops* 'Phoenix0030' | Recorded from one site within the MN-MA (MN-012) in Low PHR habitat 4.<br>Site description: Jarrah *Allocasuarina* woodland over *Xanthorrhoea* dominant shrubs on hill slope. Brown/yellow, sandy clay/loam/laterite soils.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area and site similar to that of records for *E.* 'Phoenix0029' and *E.* 'Phoenix0032'. Distribution may therefore be inferred from these two species to be wider than a single habitat type.<br>Idiopidae sp. indet collected from several sites throughout the study area, and several indetermine *Eucyrtops* from desktop may include additional specimens of *Eucyrtops* 'Phoenix0029'. |
| *Eucyrtops* 'Phoenix0032' | Recorded from three sites within the MNSA (MN-027, MC-001, HR-002) in High PHR habitat 5 and Low (4).<br>Site descriptions:<br>- MN-027– Jarrah woodland over *Banksia* over mixed shrubs and grasses on hill slope. Brown, sandy loam/laterite soils<br>- MC-001 – Hill slope dominated by Jarrah and *Allocasuarina* over sparse midstory of smaller Jarrah, *Banksia* and *Allocasuarina* and understory of diverse low shrubs. Red–orange/grey, gravel–alluvial/loam soils<br>- HR-002 – Marri/Jarrah forest, with *Banksia grandis*, *Zamia* and *Xanthorrhoea*, on north facing moderate slope. Red–orange/brown, sandy loam soils.<br>Habitats of records variable and include widespread habitat 4. Unlikely to be highly restricted.<br>Idiopidae sp. indet collected from several sites throughout the study area, and several indetermine *Eucyrtops* from desktop may include additional specimens of *Eucyrtops* 'Phoenix0032'. |
| *Euoplos* 'Phoenix0011' | Recorded from two sites in the MN-MA (MN-016 and MN-025) in High PHR habitat 1 and Low PHR habitat 4.<br>Site descriptions:<br>- Jarrah, Marri and *Melaleuca* woodland along drainage line/low lying channel/swamp area along drainage line<br>- Jarrah Marri forest with *Banksia sessilis* and *Xanthorrhoea* on undulating plain. |

| Species | Comments |
|---|---|
| | Habitats of records variable and include widespread habitat 4. Unlikely to be highly restricted. |
| *Antichiropus* 'dwellingup' | Recorded from four sites within the MNSA and HSA (MN-008, MN-020, HR-001, H-018) from one High PHR habitat (3) and one low (4).<br>Site descriptions:<br>- MN008 – Marri forest next to large granite outcropping and gully. Brown, laterite soils<br>- MN020 – *Acacia* shrubland with *Xanthorrhoea* and low herbs along creek in gully, lots of granite outcropping and boulders. Brown, sandy loam soils.<br>- HR-001 – description Jarrah/Marri woodland on east facing moderate slope next to creek line. X*anthorrhoea* common, with some *Banksia grandis*, lots of woody debris. Red–orange, brown/ sandy loam soils.<br>- H-018 – Jarrah forest over *Xanthorrhoea*, ferns, low shrubs and *Zamia* on undulating plain. Brown/yellow, clay loam/laterite soils.<br>Records 47 km apart across the two study areas (MNSA and HSA) and collected from variable habitats. Unlikely to have highly restricted distribution.<br>Large number of indeterminate *Antichiropus* collected from study area and returned in desktop may include additional specimens of *Antichiropus* 'dwellingup'. |
| *Antichiropus* 'jarrah' | Recorded from three sites within the MNSA (MN-007, MN-010, MN-027) in two High PHR habitats (2, 5) and one Low (4).<br>Site descriptions:<br>- MN-007 – Jarrah/Marri forest with thick understory, next to creek and granite outcropping in gully. Brown, sandy clay soils.<br>- MN-010 –mature Jarrah/Marri forest with abundant *Xanthorrhoea* and thick understory along a creek line with brown sandy-loam soil. Mapped as habitat 2<br>- MN-027 – Jarrah woodland over *Banksia* over mixed shrubs and grasses on hill slope. Sandy loam/laterite soils.<br>Variable site descriptions but all sites in valley floors and lower slopes. Likely to be restricted to these in association with drainage.<br>Large number of indeterminate *Antichiropus* collected from study area and returned in desktop may include additional specimens of *Antichiropus* 'jarrah'. |
| *Antichiropus* 'mini' | Recorded from five sites within the MNSA and HSA (MN-015, MN-018, MN-025, MN-026, H-002) in two High PHR habitats (2, 10) and one Low (4).<br>Site descriptions:<br>- MN-015 – Jarrah/Marri forest on steep slope in gully. Brown, sandy loam/laterite soils.<br>- MN-018 – Jarrah, Marri and *Allocasuarina* on north facing slope. Brown, sandy loam/laterite soils.<br>- MN-025 – Jarrah/Marri forest with *Banksia sessilis* and *Xanthorrhoea* on undulating plain. Brown, sandy loam/laterite soils.<br>- MN-026 – *Banksia grandis* and *Banksia sessilis* woodland on hill slope surrounded by *Allocasuarina* Jarrah/Marri forest. Brown, gravel–alluvial soils.<br>- H-002 – Jarrah over *Banksia* over ferns and *Zamia* on gentle hill slope. Yellow-red, sandy clay loam soils.<br>Recorded from sites over 42 km apart. Habitat descriptions variable and not confined to lower drainage areas. Unlikely to have highly restricted distribution.<br>Large number of indeterminate *Antichiropus* collected from study area and returned in desktop may include additional specimens of *Antichiropus* 'mini'. |
| Dalodesmidae 'Phoenix0038' | Recorded from two sites within the MN-MA (MN-012, HR-002) in one High PHR habitat (5) and one Low (4).<br>Site descriptions: |

| Species | Comments |
|---|---|
| | - MN-012 –Jarrah *Allocasuarina* woodland over *Xanthorrhoea* dominant shrubs over sedge grasses on gentle hill slope. Brown/yellow, sandy clay/loam/laterite soils.<br>- HR-002 – Marri/Jarrah forest, with *Banksia grandis*, *Zamia* and *Xanthorrhoea*, on north facing moderate slope. Red–orange/brown, sandy loam soils.<br>Records over 16 km apart at edges of MNSA. Site descriptions variable and habitat 4 widespread. Unlikely to be highly constrained. |
| Polyzoniida 'Phoenix0040' | Recorded from one site within the MN-MA (MN-027) in Low PHR habitat 4.<br>Site description: Jarrah woodland over *Banksia* over mixed shrubs and grasses on hill slope. Brown, sandy loam/laterite soil.<br>Single record limits inferences about habitat preferences and distribution but habitat 4 is widespread throughout baseline study area. |
| Polyzoniida 'Phoenix0041' | Recorded from two sites within the MN-MA (MN-007, MN-008) in two High PHR habitats (3, 5).<br>Site descriptions:<br>- MN-007 – Jarrah Marri forest with thick understory next to creek and granite outcropping in gully. Brown, sand-clay soils with granite rocks present<br>- MN-008 – Marri forest next to large granite outcropping and gully. Brown, laterite soils.<br>Both sites are gullies with granite outcroppings present, possibly habitat specialist and highly restricted. Habitat 3 and 5 well represented in MNSA, 5 present in HSA, 3 almost absent from HSA. |
| Polyzoniida 'Phoenix0042' | Recorded from one site within the MN-MA (MN-008) in High PHR habitat 3.<br>Site description: MN-008 – Marri forest next to large granite outcropping and gully. Brown, laterite soils.<br>Single record limits inferences about habitat preferences and distribution but site description indicates potential restricted to gullies with granite.<br>Co-occurs with Polyzoniida 'Phoenix0041'. Habitat 3 well represented in MNSA, almost absent from HSA. |
| *Bothriembryon* cf. *indutus* | Recorded from three sites within the MN-MA (MN-003, MN-009, MN-025) in High PHR habitat (2) and Low PHR habitat (4)<br>Site descriptions:<br>- MN-003 – Jarrah /Marri forest over *Banksia grandis* on gentle hill slope. Brown, sandy loam laterite soils.<br>- MN-009 – Jarrah/Marri forest over *Banksia grandis* on south facing side of gully, just above intermittent creek. Brown sandy loam/laterite soils.<br>- MN-025 – Jarrah/Marri forest with *Banksia* sessilis and *Xanthorrhoea* on undulating plain. Brown, sandy loam/laterite soils. Granite rocks present.<br>Not recorded from desktop. Variable site descriptions suggest not highly restricted habitat requirements, though at all sites high litter depth and cover were present. |

## 6.7 SURVEY OF REHABILITATION AREAS

Extensive research has been conducted into the success of bauxite mining rehabilitation in the northern Jarrah Forest (Armstrong & Nichols 2000; Gardner & Stoneman no date; Kabay & Nichols 1979; Koch & Hobbs 2007; Lee *et al.* 2013; Nichols & Bamford 1985; Nichols & Nichols 2003; Seiser 2001), principally for Alcoa's operations, and also into the effects of forestry activities (Calver & Wardell-Johnson 2004; Strehlow *et al.* 2002; Webala 2010; Webala *et al.* 2011), which occur in tandem with bauxite mining, including for invertebrates (Abbott *et al.* 2003; Brennan 2003; Brennan *et al.* 2003; Brennan *et al.* 2004; Farr *et al.* 2011; Kabay & Nichols 1979; Strehlow *et al.* 2002). These studies

have largely agreed that Alcoa's bauxite mining rehabilitation has been successful in restoring terrestrial vertebrate and invertebrate fauna and that the impacts of forestry activities are relatively short-lived. However, until this study and the Worsley survey (Phoenix 2021a) no studies have examined mining rehabilitation success in restoring SRE assemblages.

The results of the survey in the ReSA indicate that SRE taxa can re-colonise rehabilitated areas but, as expected, the diversity is overall considerably lower than that of remnant native vegetation. Twenty-eight taxa from nine groups known to include SREs were collected from the ReSA. This included 17 taxa considered likely or potential SREs (Table 5-5), with isopods, mygalomorphs, opiliones and a land snail making up the collection. All SRE taxa from rehabilitation sites were also recorded from other areas of the baseline survey or from outside the study areas.

Given that all the mygalomorph spiders recorded from burrows in the rehabilitation sites were from the family Anamidae, taxa within this family clearly appear more readily able to re-colonise rehabilitated areas than members in other mygalomorph families.

Results from SRE sampling in rehabilitated areas for the Worsley survey (Phoenix 2021a) were fairly consistent with this survey, with two Anamidae species recorded. One species of SRE Anamidae was collected from both burrow excavation and pitfall traps (*Proshermacha* 'MYG485'), one species was collected from wet pitfall traps only (*Aname* 'Phoenix0037'). The Worsley survey however also recorded a species from the Barychelidae family, the widespread *Idiommata blackwalli*, from a shallow burrow within rehabilitation.

As the numbers of SREs showed a moderate positive correlation with rehabilitation age, it may be concluded that SRE colonisation improves with age of rehabilitation. Other factors, such as rehabilitation method, flora species diversity, abundance of coarse woody debris or large trees, distance to/from mine and disturbances are also likely to have influenced recolonisation of SREs.

## 6.8 CONCLUSION

A rich assemblage of SRE taxa was recorded from the baseline study area with 83 SREs collected, represented by confirmed, likely and potential SREs. Taxa were recorded from several SRE groups but there was high variability in species richness between groups, with mygalomorph spiders, millipedes and isopods represented by much higher diversity than others.

Some overlap of SRE species was identified between the MNSA and HSA, and between the MNSA/HSA and records from the Worsley survey (or other desktop source), indicating wider distributions than the baseline study area. However, the survey results suggest at least some SRE invertebrates have narrow habitat preferences and potentially highly restricted distributions.

Overall, the MNSA is of higher value for SREs than the HSA, with greater diversity and abundance of SRE habitat features. This position is supported by the collection of a higher number SRE species overall from the MNSA and higher number of SREs known only from this study area. It is considered that the MNSA is more likely to harbour SREs with highly restricted distributions than the HSA.

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## Appendix 1 Site descriptions

| Site details | | | |
|---|---|---|---|
| **Site** | H-001 | **Position (WGS84)** | -32.663588, 116.191774 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah over *Xanthorrhoea preissii, Macrozamia riedlei* and ferns. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | pristine | **Total veg. cover (%)** | 70 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 85 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-002 | **Position (WGS84)** | -32.65535, 116.233904 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–orange, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah over *Banksia grandis* over ferns and *Macrozamia riedlei*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 65 |
| **Tree cover %** | 35 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 98 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-003 | **Position (WGS84)** | -32.693933, 116.195363 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah over *Banksia grandis* over ferns and *Macrozamia riedlei*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 50 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-004 | **Position (WGS84)** | -32.754473, 116.194401 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–orange, brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah Marri forest over *Banksia grandis* with *Acacia* and *Xanthorrhoea preissii* and mixed herbs. Gentle South facing slope. Lots of logs, coarse woody debris and leaf litter. | | | |
| **Habitat** | forest | | |
| **Disturbance** | historic clearing, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 50 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-005 | **Position (WGS84)** | -32.667207, 116.270834 |
| **Topography** | undulating plain | **Soil texture** | sandy clay, loam |
| **Slope** | negligible | **Rock type** | granite - rocks |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 15 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over ferns and *Macrozamia riedlei.* | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 50 | **Fire age** | >5 years |
| **Shrub cover (%)** | 60 | **Litter distribution** | even |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 98 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-006 | **Position (WGS84)** | -32.707319, 116.126034 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Xanthorrhoea preissii*, *Macrozamia riedlei* palms on hill slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 30 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-007 | **Position (WGS84)** | -32.63545, 116.190133 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Xanthorrhoea preissii*, *Macrozamia riedlei* palms on hill slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-008 | **Position (WGS84)** | -32.696, 116.151757 |
| **Topography** | undulating plain | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Macrozamia riedlei* palms and bracken ferns. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 35 | **Fire age** | >5 years |
| **Shrub cover (%)** | 50 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-009 | **Position (WGS84)** | -32.709507, 116.161885 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarra/Marri forest over *Macrozamia riedlei* and bracken fern. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-010 | **Position (WGS84)** | -32.622217, 116.205761 |
| **Topography** | undulating plain | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Macrozamia riedlei* and bracken fern. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 70 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-011 | **Position (WGS84)** | -32.607995, 116.181904 |
| **Topography** | undulating plain | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Banksia grandis* over *Macrozamia riedlei.* | | | |
| **Habitat** | forest | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 20 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-012 | **Position (WGS84)** | -32.680405, 116.197756 |
| **Topography** | hill slope | **Soil texture** | clay loam, rocks, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–orange, brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Banksia grandis* and *Xanthorrhoea preissii* over ferns. | | | |
| **Habitat** | forest | | |
| **Disturbance** | litter, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 50 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-013 | **Position (WGS84)** | -32.782201, 116.133475 |
| **Topography** | hill slope | **Soil texture** | loam, clay loam, laterite |
| **Slope** | moderate | **Rock type** | granite - rocks |
| **Soil colour** | red–brown | **Rock cover (%)** | 10 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Banksia* sp. and *Allocasuarina* sp. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | pristine | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 65 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 15 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-014 | **Position (WGS84)** | -32.725572, 116.193506 |
| **Topography** | drainage line | **Soil texture** | sandy clay, loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over grass trees in low lying valley. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 70 |
| **Tree cover %** | 30 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 3 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 7 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-015 | **Position (WGS84)** | -32.732287, 116.220446 |
| **Topography** | hill slope | **Soil texture** | sandy loam, loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | red–brown, red–orange, brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah Marri forest with *Banksia grandis*, *Acacia* sp. and *Xanthorrhoea preissii* over various native herbs on south facing slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | historic clearing, historic operations, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 50 |
| **Tree cover %** | 25 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 25 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-016 | **Position (WGS84)** | -32.696925, 116.236388 |
| **Topography** | drainage line | **Soil texture** | clay |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Xanthorrhoea preissii* in low lying area. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 70 |
| **Tree cover %** | 30 | **Fire age** | 0 |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-017 | **Position (WGS84)** | -32.785179, 116.176973 |
| **Topography** | hill slope | **Soil texture** | clay loam, rocks, laterite |
| **Slope** | gentle | **Rock type** | granite - boulders, granite - outcropping, granite - rocks |
| **Soil colour** | red–brown | **Rock cover (%)** | 50 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest with granite outcropping. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | pristine | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 15 | **Litter cover (%)** | 70 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-018 | **Position (WGS84)** | -32.772902, 116.180637 |
| **Topography** | undulating plain | **Soil texture** | clay loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Xanthorrhoea preissii*, ferns, low shrubs and *Macrozamia riedlei.* | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 3 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-019 | **Position (WGS84)** | -32.756181, 116.166837 |
| **Topography** | undulating plain | **Soil texture** | clay loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Xanthorrhoea preissii i*and *Macrozamia riedlei.* | | | |
| **Habitat** | forest | | |
| **Disturbance** | litter, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 65 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 45 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-020 | **Position (WGS84)** | -32.72182, 116.14473 |
| **Topography** | hill slope | **Soil texture** | loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–orange | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *xanthorrhoea preissii*, ferns and *Acacia pulchella* (or similar) of 1m high. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-021 | **Position (WGS84)** | -32.738363, 116.166647 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest with *Allocasuarina* over *Banksia grandis*, *Xanthorrhoea preissii* and *Macrozamia riedlei.* | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 70 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | H-022 | **Position (WGS84)** | -32.704612, 116.273304 |
| **Topography** | hill slope | **Soil texture** | sandy loam, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–orange | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah Marri forest over *Banksia grandis* over *Macrozamia riedlei* and *Xanthorrhoea preissii*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 30 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 7 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | HC-001 | **Position (WGS84)** | -32.623465, 116.116062 |
| **Topography** | Drainage line | **Soil texture** | sandy loam |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah and *Eucalyptus* sp. forest over *Banksia grandis*, *Xanthorrhoea preissii*, *Macrozamia riedlei*, ferns and grasses in drainage line | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 30 | **Fire age** | >5 years |
| **Shrub cover (%)** | 25 | **Litter distribution** | even |
| **Grass cover (%)** | 20 | **Litter depth (cm)** | 6 |
| **Herb cover (%)** | 15 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | HC-002 | **Position (WGS84)** | -32.621841, 116.130795 |
| **Topography** | hill slope | **Soil texture** | sandy loam, loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah, Marri and *Banksia* over *Xanthorrhoea preissii*, *Macrozamia riedlei* and *Gastrolobium* sp. (or similar) on south facing slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 15 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | HC-003 | **Position (WGS84)** | -32.649731, 116.177134 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over mixed low shrubs on east facing slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 30 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | HR-001 | **Position (WGS84)** | -32.621684, 116.185305 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | moderate | **Rock type** | laterite |
| **Soil colour** | red–orange, brown | **Rock cover (%)** | 20 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri woodland on east facing moderate slope next to creek line. *Xanthorrhoea preissii, Banksia grandis*. Lots of woody debris. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | HR-002 | **Position (WGS84)** | -32.431943, 116.213427 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | moderate | **Rock type** | laterite |
| **Soil colour** | red–orange, brown | **Rock cover (%)** | 10 |

| Site description | | | |
|---|---|---|---|
| Marri/Jarrah forest. *Banksia grandis*, *Macrozamia riedlei* and *Xanthorrhoea preissii,* and many other low shrubs, herbs and ground cover. North facing moderate slop, mid slope. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 10 | **Litter cover (%)** | 95 |

| Site details | | | |
|---|---|---|---|
| **Site** | MC-001 | **Position (WGS84)** | -32.435733, 116.182343 |
| **Topography** | hill slope | **Soil texture** | gravel–alluvial, loam |
| **Slope** | moderate | **Rock type** | ferrous - Ironstone |
| **Soil colour** | red–orange, grey | **Rock cover (%)** | 10 |

| Site description | | | |
|---|---|---|---|
| Hill slope dominated by Jarrah and *Allocasuarina* sp. to 19 m over sparse midstory of smaller Jarrah, *Banksia grandis* and *Allocasuarina* sp. and understory of diverse low shrubs. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | historic clearing | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 65 |
| **Tree cover %** | 25 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 70 |

| Site details | | | |
|---|---|---|---|
| **Site** | MC-002 | **Position (WGS84)** | -32.466081, 116.1597 |
| **Topography** | hill slope | **Soil texture** | sandy loam |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | red–brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Gastrolobium* sp.on Southeast facing hill slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 0 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MC-003 | **Position (WGS84)** | -32.472854, 116.160655 |
| **Topography** | hill slope | **Soil texture** | sandy loam, loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Gastrolobium* sp. on south facing slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | exploration (drill pads and access tracks) | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 35 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 10 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MC-004 | **Position (WGS84)** | -32.486709, 116.138692 |
| **Topography** | plain | **Soil texture** | gravel–alluvial, loam, rocks |
| **Slope** | gentle | **Rock type** | ferrous - Ironstone |
| **Soil colour** | red–orange, grey | **Rock cover (%)** | 15 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest to 23 m with midstory of *Banksia* sp., *Persoonia* sp.and *Gastrolobium* sp.and understory of ferns and *Cycads*. Large logs and stumps abundant. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | historic clearing, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 95 |

| Site details | | | |
|---|---|---|---|
| **Site** | MC-005 | **Position (WGS84)** | -32.502442, 116.131188 |
| **Topography** | plain | **Soil texture** | gravel–alluvial, loam |
| **Slope** | gentle | **Rock type** | ferrous - Ironstone |
| **Soil colour** | red–orange, brown | **Rock cover (%)** | 15 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest to 23 m with sparse midstory of Jarrah and *Gastrolobium* sp.over understory of *Xanthorrhoea preissii* and cycads. Large stumps and logs abundant. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | evidence of feral animals, historic clearing | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 65 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-001 | **Position (WGS84)** | -32.303079, 116.216739 |
| **Topography** | hill slope | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest with *Allocasuarina* sp. over *Banksia grandis*. Lots of large logs. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 60 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-002 | **Position (WGS84)** | -32.376548, 116.215786 |
| **Topography** | hill slope | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Allocasuarina* sp. over *Banksia grandis*. Lots of large logs. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 40 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-003 | **Position (WGS84)** | -32.340832, 116.076023 |
| **Topography** | hill slope | **Soil texture** | sandy clay, sandy loam, loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Banksia grandis*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 100 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-004 | **Position (WGS84)** | -32.385771, 116.244421 |
| **Topography** | undulating plain | **Soil texture** | sandy loam, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Allocasuarina* sp. over shrubs. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 100 |
| **Tree cover %** | 65 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-005 | **Position (WGS84)** | -32.395512, 116.222327 |
| **Topography** | undulating plain | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri/*Allocasuarina* sp. forest. *Banksia grandis* regrowth and low herbs. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 45 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 1 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-006 | **Position (WGS84)** | -32.417803, 116.233894 |
| **Topography** | drainage line | **Soil texture** | sandy clay, sandy loam |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, grey, whitish | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| *Melaleuca* shrubland under large granite outcrop and good understory. | | | |
| **Habitat** | shrubland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 95 |
| **Tree cover %** | 55 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-007 | **Position (WGS84)** | -32.437106, 116.230758 |
| **Topography** | gully | **Soil texture** | sand, sandy clay |
| **Slope** | moderate | **Rock type** | granite - rocks |
| **Soil colour** | brown | **Rock cover (%)** | 20 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest with thick understory, next to creek and granite outcropping. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 55 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-008 | **Position (WGS84)** | -32.418385, 116.184186 |
| **Topography** | gully | **Soil texture** | laterite |
| **Slope** | steep | **Rock type** | granite - outcropping |
| **Soil colour** | brown | **Rock cover (%)** | 60 |

| Site description | | | |
|---|---|---|---|
| Marri forest next to large granite outcropping and gully. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 65 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-009 | **Position (WGS84)** | -32.398943, 116.169828 |
| **Topography** | gully | **Soil texture** | sandy loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest over *Banksia grandis* on south facing side of gully, just above an intermittent creek. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 95 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-010 | **Position (WGS84)** | -32.367116, 116.166174 |
| **Topography** | creek | **Soil texture** | sandy loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest with lots of *Xanthorrhoea preissii i*and thick understory along a creek line. | | | |
| **Habitat** | riparian zone | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 25 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-011 | **Position (WGS84)** | -32.331985, 116.179003 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | yellow, black | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah and *Allocasuarina* sp. over *Xanthorrhoea preissii.* | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 10 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 20 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-012 | **Position (WGS84)** | -32.321645, 116.149616 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/*Allocasuarina* sp. woodland over *Xanthorrhoea preissii* dominant shrubs over sedge grasses and mixed herbs. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 15 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 15 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-013 | **Position (WGS84)** | -32.348842, 116.129025 |
| **Topography** | plain | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Bullich forest with Marri, some *Allocasuarina* sp.and thick leaf litter near creek line. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-014 | **Position (WGS84)** | -32.361989, 116.121877 |
| **Topography** | plain | **Soil texture** | sandy loam |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | whitish | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 60 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-015 | **Position (WGS84)** | -32.40483, 116.096674 |
| **Topography** | gully | **Soil texture** | sandy loam, laterite |
| **Slope** | steep | **Rock type** | granite - boulders, granite - rocks |
| **Soil colour** | brown | **Rock cover (%)** | 40 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 100 |
| **Tree cover %** | 55 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 3 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 7 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-016 | **Position (WGS84)** | -32.384408, 116.195906 |
| **Topography** | drainage line | **Soil texture** | clay loam, clay |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah, Marri and *Melaleuca* woodland along drainage line/low lying channel/swamp area. | | | |
| **Habitat** | open woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 40 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | UND |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 50 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-017 | **Position (WGS84)** | -32.318598, 116.198914 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah and *Allocasuarina* sp. over *Xanthorrhoea preissii* over mixed herbs. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 10 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 30 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-018 | **Position (WGS84)** | -32.363187, 116.198826 |
| **Topography** | hill slope | **Soil texture** | sandy loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah, Marri and *Allocasuarina* on north facing slope. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 60 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-019 | **Position (WGS84)** | -32.40841, 116.26289 |
| **Topography** | hill slope | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, whitish | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri/*Allocasuarina* sp. forest over *Banksia grandis*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 60 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-020 | **Position (WGS84)** | -32.414506, 116.199007 |
| **Topography** | gully | **Soil texture** | sandy loam |
| **Slope** | steep | **Rock type** | granite - boulders, granite - outcropping, granite - rocks |
| **Soil colour** | brown | **Rock cover (%)** | 20 |

| Site description | | | |
|---|---|---|---|
| *Acacia* sp. shrubland with *Xanthorrhoea preissii* and low herbs along creek. Lots of granite outcropping and boulders. | | | |
| **Habitat** | shrubland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 3 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 7 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-021 | **Position (WGS84)** | -32.38169, 116.157457 |
| **Topography** | hilltop | **Soil texture** | sandy loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah, Marri with *Allocasuarina* sp.over *Banksia grandis*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 55 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 40 | **Litter distribution** | even |
| **Grass cover (%)** | 3 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 7 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-022 | **Position (WGS84)** | -32.356087, 116.181994 |
| **Topography** | hill slope | **Soil texture** | sand, clay loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland over *Banksia grandis* tall shrubs over other mixed shrubs over mixed grasses and mixed herbs. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 50 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 10 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 15 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-023 | **Position (WGS84)** | -32.339901, 116.197789 |
| **Topography** | hill slope | **Soil texture** | clay loam, laterite |
| **Slope** | gentle | **Rock type** | Nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah and *Allocasuarina* sp. over *Banksia grandis* with fallen logs. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 20 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-024 | **Position (WGS84)** | -32.343334, 116.162655 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah forest over *Banksia grandis* and *Xanthorrhoea preissii* over *Macrozamia riedlei*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 80 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-025 | **Position (WGS84)** | -32.361723, 116.080348 |
| **Topography** | undulating plain | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | granite - rocks |
| **Soil colour** | brown | **Rock cover (%)** | 15 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri forest with *Banksia sessilis* and *Xanthorrhoea preissii.* | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 95 |
| **Tree cover %** | 50 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | even |
| **Grass cover (%)** | 5 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-026 | **Position (WGS84)** | -32.37917, 116.097647 |
| **Topography** | hill slope | **Soil texture** | gravel–alluvial, sandy loam, laterite |
| **Slope** | moderate | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| *Banksia grandis* and *Banksia sessilis* woodland surrounded by *Allocasuarina* sp./Jarrah/Marri forest. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 100 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-027 | **Position (WGS84)** | -32.359258, 116.140541 |
| **Topography** | hill slope | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland over *Banksia grandis* over other mixed shrubs over mixed grasses and mixed herbs on sandy clay loam. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 95 |
| **Tree cover %** | 60 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 5 | **Litter cover (%)** | 80 |

| Site details | | | |
|---|---|---|---|
| **Site** | MN-028 | **Position (WGS84)** | -32.377177, 116.126104 |
| **Topography** | undulating plain | **Soil texture** | sandy loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah/Marri/*Allocasuarina* sp. over *Banksia grandis*. | | | |
| **Habitat** | forest | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 50 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | even |
| **Grass cover (%)** | 2 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 1 | **Litter cover (%)** | 90 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-5A | **Position (WGS84)** | -32.526657, 116.059788 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah dominant open woodland over *Acacia* sp. dominant shrubs. 5 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 40 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | Under vegetation |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 5 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-5B | **Position (WGS84)** | -32.499641, 116.153446 |
| **Topography** | gully | **Soil texture** | sandy clay, loam, clay, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah dominant open woodland over *Acacia* sp. dominant shrubs. 5 year old rehabilitation. | | | |
| **Habitat** | open woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 70 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 50 | **Litter distribution** | under vegetation |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 10 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-5C | **Position (WGS84)** | -32.521034, 116.131085 |
| **Topography** | hill slope | **Soil texture** | clay loam, rocks, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Young Jarrah and other eucalypts. 5 year old rehabilitation. | | | |
| **Habitat** | open woodland | | |
| **Disturbance** | historic operations, revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 50 |
| **Tree cover %** | 35 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | under vegetation |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 1 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 10 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-10A | **Position (WGS84)** | -32.514398, 116.121124 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah dominant woodland over *Acacia* sp. dominant shrubs. 10 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 70 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | under vegetation |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 30 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-10B | **Position (WGS84)** | -32.496203, 116.171628 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, rocks, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 10 year old rehabilitation. | | | |
| **Habitat** | open woodland | | |
| **Disturbance** | vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 30 | **Fire age** | >5 years |
| **Shrub cover (%)** | 60 | **Litter distribution** | under vegetation |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 10 | **Litter cover (%)** | 10 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-10C | **Position (WGS84)** | -32.535352, 116.102953 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 10 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | vehicle tracks, logging | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 30 | **Litter distribution** | Under vegetation |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 4 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 15 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-20A | **Position (WGS84)** | -32.560987, 116.065432 |
| **Topography** | gully | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 20 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | Under vegetation |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 10 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-20B | **Position (WGS84)** | -32.558972, 116.105018 |
| **Topography** | mesa | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 20 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 75 |
| **Tree cover %** | 65 | **Fire age** | 1–5 years |
| **Shrub cover (%)** | 35 | **Litter distribution** | Under vegetation |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 50 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-20C | **Position (WGS84)** | -32.589792, 116.101899 |
| **Topography** | undulating plain | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | negligible | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 20 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 60 |
| **Tree cover %** | 45 | **Fire age** | >5 years |
| **Shrub cover (%)** | 20 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 3 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 95 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-30B | **Position (WGS84)** | -32.634127, 116.093352 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 30 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 60 | **Fire age** | >5 years |
| **Shrub cover (%)** | 50 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 2 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 95 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-30C | **Position (WGS84)** | -32.608504, 116.10856 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland over *Acacia* sp. shrubs. 30 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | very good | **Total veg. cover (%)** | 90 |
| **Tree cover %** | 70 | **Fire age** | >5 years |
| **Shrub cover (%)** | 60 | **Litter distribution** | even |
| **Grass cover (%)** | 0 | **Litter depth (cm)** | 6 |
| **Herb cover (%)** | 2 | **Litter cover (%)** | 100 |

| Site details | | | |
|---|---|---|---|
| **Site** | RH-30D | **Position (WGS84)** | -32.634169, 116.093376 |
| **Topography** | hill slope | **Soil texture** | sandy clay, loam, laterite |
| **Slope** | gentle | **Rock type** | nil |
| **Soil colour** | brown, yellow | **Rock cover (%)** | 0 |

| Site description | | | |
|---|---|---|---|
| Jarrah woodland. 30 year old rehabilitation. | | | |
| **Habitat** | woodland | | |
| **Disturbance** | revegetation, vehicle tracks | | |
| **Vegetation condition** | excellent | **Total veg. cover (%)** | 85 |
| **Tree cover %** | 55 | **Fire age** | >5 years |
| **Shrub cover (%)** | 75 | **Litter distribution** | even |
| **Grass cover (%)** | 1 | **Litter depth (cm)** | 5 |
| **Herb cover (%)** | 3 | **Litter cover (%)** | 90 |

## Appendix 2 Site x Species matrix for Myara North Mining Area

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Acanthodillo* '1' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Acanthodillo* sp. indet. | P | | | • | | | | | | | | | | | • | | | | | | | | | | | | | | | 2 |
| *Akamptogonus novarae* | W | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | 1 |
| *Aname* 'Phoenix0004' | P | | | | | | | | | | • | | | | • | | | | | | | | | • | | | | | | 3 |
| *Aname* 'Phoenix0010' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0018' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0020' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0036' | P | | | | | | | | | | • | | | | | | | | | | | | | | | | | | | 1 |
| *Aname* 'Phoenix0037' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Anamidae 'Phoenix0009' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | • | 1 |
| Anamidae sp. indet. | P | | | | | | | • | | • | | • | | | | | | | • | | | | • | • | | | | | • | 7 |
| *Annoselix* cf. dolosa | P | | | • | | | | | | | | | | | | | | | | | | | | | | | | | • | 2 |
| *Antichiropus* 'dwellingup' | C | | | | | | | | • | | | | | | | | | | | | • | | | | | | | | | 2 |
| *Antichiropus* 'forest' | C | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | 1 |
| *Antichiropus* 'holyoake' | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* 'jarrah' | C | | | | | | | • | | | • | | | | | | | | | | | | | | | | | • | | 3 |
| *Antichiropus* 'Marradong' | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* 'mini' | C | | | | | | | | | | | | | | | • | | | • | | | | | | | • | • | | | 4 |
| *Antichiropus* 'Myara' | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* 'southern' | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* sp. indet. | P | | | • | | | | | • | | | | | | | • | | | • | | • | | | | | | | | | 5 |
| *Antichiropus variabilis* | W | | • | • | | | | | • | • | | | • | | | | | | | | | | • | | • | | • | | • | 9 |
| *Armadillo flavus* | P | | | | | | | | | • | | | | | | | | | | | | | | | | | | | | 1 |
| *Atelomastix nigrescens* | W | | | • | | | | • | | • | • | • | • | • | | • | | • | • | | • | • | • | • | • | • | • | • | • | 19 |

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix* sp. indet. | W | | | | | | • | | | • | | | | • | | • | | | | | | | | | | | | | | 4 |
| *Austrochthonius* 'grandis' | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Austrochthonius muchmorei* | W | | | • | | • | | | • | | | • | | | | | | • | | | | • | | • | • | | • | | | 9 |
| *Austrochthonius* 'PSE188' | W | | • | • | | • | | | | • | | • | • | | | • | | • | • | • | • | • | • | • | | • | | | • | 16 |
| *Austrochthonius* sp. indet. | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barychelidae sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | 1 |
| *Beierolpium bornemisszai* | W | | • | • | • | | | | | • | • | • | | | | | | | | • | • | • | • | | • | | | • | • | 13 |
| *Beierolpium* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | • | | | | | | | | 1 |
| *Bothriembryon* cf. *bradshawi* | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Bothriembryon* cf. *indutus* | P | | | • | | | | | | • | | | | | | | | | | | | | | | | • | | | | 3 |
| *Buddelundia* '5' (Huntly) | L | | | | | | | | | • | | | | | | • | | | | | | | | | | | • | • | • | 5 |
| *Buddelundia nitidissima* | W | | | • | • | | | | • | | | • | | | | | | | • | • | | | | | | | | | | 6 |
| *Buddelundia* sp. indet. | P | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | 1 |
| *Calliuncus* sp. indet. | P | | | • | | | | | | | | | | | | • | | | | | | | | • | | • | | • | | 4 |
| *Cercophonius sulcatus* | W | | | | | | | | | • | | | | | | • | | • | | | | | • | | • | • | | | • | 7 |
| cf.^*Westralaoma* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charopidae sp. indet. | P | | | | | | • | | | | | | | | | | | | | | • | | | | | | | | | 2 |
| Chernetidae 'boddington' | W | | | | | | • | • | | | | | | | | | | | • | | | | | | | | | | | 3 |
| Chernetidae sp. indet. | W | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | 1 |
| Dalodesmidae 'Phoenix0038' | P | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| *Eucyrtops latior* | P | • | | | | | | | | • | | • | • | | • | | | | • | | | • | • | • | | • | | | • | 11 |
| *Eucyrtops* 'Phoenix0003' | P | | • | • | | | | • | | | | | | | | | • | | | | • | | | | | | | | | 5 |
| *Eucyrtops* 'Phoenix0029' | P | | • | | | • | • | | | | | | | | | | | | | | | | | | | | | | | 3 |
| *Eucyrtops* 'Phoenix0030' | P | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| *Eucyrtops* 'Phoenix0032' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | 1 |
| *Eucyrtops* 'Phoenix0033' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PHOENIX
ENVIRONMENTAL SCIENCES

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Eucyrtops* 'WorsleyDNA06' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0011' | P | | | | | | | | | | | | | | | | • | | | | | | | | | • | | | | 2 |
| *Euoplos* 'Phoenix0012' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eupnoi sp. indet. | P | | | • | | • | | | • | | | • | | | | | | • | | | | • | | | | | • | | • | 8 |
| *Geogarypus* sp. indet. | W | | | | | | | | | | | | | | | | | | | | | • | | | | | | | | 1 |
| *Geogarypus taylori* | W | | | • | | | | | | | • | | | | | | | | | | • | | | | | | | | | 3 |
| Idiopidae sp. indet. | P | | • | | | | | | | • | • | | | • | | • | | • | | | | | • | | • | | • | | | 9 |
| *Idiosoma jarrah* | W | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Idiosoma* 'Phoenix0035' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Idiosoma* 'WAM T129362' | P | | | | • | | | | • | | | | | | | | | | | • | | • | • | | | | | | | 5 |
| *Isometroides* 'jarrah' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Karaops ellenae* | W | • | | | | | • | | | | | | • | | | | | | | | | | | | | | | | | 3 |
| *Karaops jarrit* | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0005' | P | | | | | | • | | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Kwonkan* 'Phoenix0008' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Laevophiloscia* '1' | P | • | | | • | • | • | • | • | • | | | | | | | • | | • | • | • | • | | • | | • | • | | • | 16 |
| *Laevophiloscia* '2' | W | • | | | | | | | | • | • | • | • | • | • | • | | • | | | | | • | • | • | | • | • | | 14 |
| *Laevophiloscia* sp. indet. | P | • | | | | | | | | • | | • | | | | | | | | | | | | | | • | | | | 4 |
| *Lagynochthonius australicus* | W | | | | | | | • | | | • | • | | | | | | | | | | | • | • | | | | • | | 6 |
| *Lychas* 'austroccidentalis' | W | | | | | | | | | | | | | | • | | | • | | | • | | | | | | | | | 3 |
| *Missulena* 'MYG198' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Nunciella* sp. indet. | P | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | 1 |
| *Occipperi patoides gilesii* | W | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| Olpiidae sp. indet. | P | | | | | | | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| Opiliones sp. indet. | P | | | | | | | | | | | | | • | • | | | | | | | | | | | | | | | 2 |

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Oratemnus* sp. indet. | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paraplatyarthridae sp. indet. | P | • | | | | | | | | | | • | | | | | | | | | | | • | | | • | | | | 4 |
| *Paraplatyarthrus* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Philosciidae 's' | L | • | • | | • | • | • | • | | | | • | • | | • | • | • | • | • | • | | • | • | | | • | | • | • | 19 |
| Philosciidae sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Podykipus leptoiuloides* | W | • | | • | • | | • | | | | | • | | • | • | • | • | • | • | | • | • | | | • | • | • | • | • | 18 |
| Polydesmida sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0039' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0040' | P | | | | | | | | | | | | | | | | | | | | | | | | | | | • | | 1 |
| Polyzoniida 'Phoenix0041' | P | | | | | | | • | • | | | | | | | | | | | | | | | | | | | | | 2 |
| Polyzoniida 'Phoenix0042' | P | | | | | | | | • | | | | | | | | | | | | | | | | | | | | | 1 |
| *Proshermacha* 'MYG485' | P | | | | | | | | | | | | | | | | | | | | | | | • | | | | | | 1 |
| *Proshermacha* 'Phoenix0023' | P | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Proshermacha* 'Phoenix0027' | P | | | | | | | | | | | • | | | • | | | | | | | | | | | | | | | 2 |
| *Proshermacha* 'Phoenix0028' | P | | | • | | | | | | | | | • | | | | | | | | | | | | | | | | | 2 |
| *Proshermacha* 'Phoenix0040' | P | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | 1 |
| *Protochelifer* 'boddington' | W | • | • | | | | | | | | • | • | • | | • | | • | • | • | | | • | • | • | • | | | | | 13 |
| *Protogarypinus giganteus* | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Pseudodiploexochus* sp. indet. | L | | | | | | | | | • | • | | | | | | | • | • | | | | | | | • | • | | | 6 |
| *Pseudotyrannochthonius* 'Harms sp. Darling Range 2' | W | | | | | • | | • | | | | • | | | | • | | | | | | • | | • | | | • | | | 7 |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Spherillo* '1' | L | | | | | | | | | • | | • | | | | | | | | | | | • | | | | | | | 3 |
| *Spherillo* '5' | W | • | | | • | • | | | | | | • | • | | • | • | | • | | | | • | • | • | | • | | • | • | 14 |
| *Styloniscus* '1' | P | • | | • | • | • | | | | | | • | • | | | • | | • | • | | | | • | • | • | | • | • | • | 15 |
| *Styloniscus* '7' | P | | | | | | | • | | | | • | | | | | | | | | | | | | | | | | | 2 |
| *Styloniscus* sp. indet. | P | | | • | | | | | | | | | | | | • | | | | | | | | | | | | | | 2 |

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Synothele michaelseni* | W | | | • | | | | | | | | | | | • | | | | | | | | | | | | | | | 2 |
| *Synothele* 'Phoenix0015' | P | | | | • | | | | | | | | | | | | | | | | | | | | | • | | | | 2 |
| *Synothele* 'Phoenix0016' | P | • | | | | | • | • | | | | | | | | | | | • | | | | | | | | • | | | 5 |
| *Teyl* 'MYG355' | P | | | | | | | • | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Teyl* 'Phoenix0007' | P | | | | | | | | | • | | | | | | | | • | | | | | | | | | | | | 2 |
| *Teyl* 'Phoenix0019' | P | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Teyl* 'Phoenix0021' | P | | | | | | | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| Trianonychidae 'genus 008' sp. indet. | P | • | | | | | | • | | | • | | • | | | • | | | | | | | | • | | • | | • | | 8 |
| Trianonychidae sp. indet. | P | | | • | | | | | | | | • | • | | | | | | | | | | | | • | | • | | | 5 |
| *Urodacus novaehollandiae* | W | | | | • | | | | • | | | | • | | | | • | | | | • | | • | | | | | | | 6 |
| *Urodacus planimanus* | C | • | | | | | • | | • | | | • | • | | | • | | | | • | | • | • | • | • | • | • | | | 13 |
| **Grand Total** | | **16** | **9** | **20** | **10** | **9** | **11** | **14** | **12** | **18** | **12** | **23** | **19** | **6** | **13** | **21** | **8** | **16** | **15** | **8** | **12** | **16** | **19** | **17** | **12** | **18** | **15** | **16** | **16** | **401** |

1 – C = confirmed, P =potential, W = widespread.

## Appendix 3 Site x species matrix for Holyoake Mining Area

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | P | • | | | | | | | | | | | | | | | | | | | | | | 1 |
| *Acanthodillo* '1' | P | | • | | | | | | | | | | | | | | | | | | | | | 1 |
| *Acanthodillo* sp. indet. | P | | | | | | | | | | • | | | | | | | | | | | | | 1 |
| *Akamptogonus novarae* | W | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0004' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0010' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0018' | P | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| *Aname* 'Phoenix0020' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0036' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Aname* 'Phoenix0037' | P | | | | | | | | | | | | | | | | | | | | | | | |
| Anamidae 'Phoenix0009' | P | | | | | | | | | | | | | | | | | | | | | | | |
| Anamidae sp. indet. | P | | | • | • | | • | • | • | | | • | | | | • | • | • | | | • | | | 10 |
| *Annoselix* cf. dolosa | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* 'dwellingup' | C | | | | | | | | | | | | | | | | | | • | | | | | 1 |
| *Antichiropus* 'forest' | C | | | | | | | • | | | | | | • | | | | | | | | | | 2 |
| *Antichiropus* 'holyoake' | C | | | | | | | | | | | • | | • | | | | | | | | | | 2 |
| *Antichiropus* 'jarrah' | C | | | | | | | | | | | | | | | | | | | | | | | |
| *Antichiropus* 'Marradong' | C | | | | • | • | | | • | | | | | | • | • | | | | | • | | | 6 |
| *Antichiropus* 'mini' | C | | • | | | | | | | | | | | | | | | | | | | | | 1 |
| *Antichiropus* 'Myara' | C | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| *Antichiropus* 'southern' | C | | | | • | | • | | | • | | | | | • | | | | | | • | • | | 6 |
| *Antichiropus* sp. indet. | P | • | • | | • | • | | • | • | • | | | • | | • | • | | • | | | | • | • | 13 |
| *Antichiropus variabilis* | W | • | • | • | | • | • | • | | • | • | • | • | | • | • | • | • | • | | • | • | • | 18 |
| *Armadillo flavus* | P | | | | | | • | | | | | | | | | | | | | | • | | | 2 |
| *Atelomastix nigrescens* | W | • | | | • | | | | • | | | | | | • | | | | • | | | • | | 6 |

PHOENIX ENVIRONMENTAL SCIENCES

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix* sp. indet. | W | | | | | • | | | | | | | | | | | | | | | | | | 1 |
| *Austrochthonius* 'grandis' | W | | | | | | | | | | • | | | | | | | | | | • | | | 2 |
| *Austrochthonius muchmorei* | W | • | | | • | | | | • | | | | | | • | | • | • | • | | • | • | | 9 |
| *Austrochthonius* 'PSE188' | W | | | | • | | • | • | | | • | | | | | | | | | | | | • | 5 |
| *Austrochthonius* sp. indet. | W | | | | | | | | | | | | | | | | | | | | | | | |
| Barychelidae sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Beierolpium bornemisszai* | W | | | | | | | | | | • | | | | | • | | | | • | | | | 3 |
| *Beierolpium* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Bothriembryon* cf. *bradshawi* | P | | | | | | | | | | | | | | | • | | | | | | | | 1 |
| *Bothriembryon* cf. *indutus* | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Buddelundia* '5' (Huntly) | L | | • | • | • | | • | • | • | | • | • | • | | • | | | • | | | • | • | | 13 |
| *Buddelundia nitidissima* | W | | | | | • | | | | • | • | | • | | • | • | • | | | • | | | • | 9 |
| *Buddelundia* sp. indet. | P | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| *Calliuncus* sp. indet. | P | • | | | | | | | | | • | • | | • | | | | | | | | | | 4 |
| *Cercophonius sulcatus* | W | | • | | • | | | | • | • | • | | | • | | | • | | | | • | | | 8 |
| cf.^*Westralaoma* sp. indet. | P | | | | | | | | • | | | | | | | | | | | | | | | 1 |
| Charopidae sp. indet. | P | | | | | | | | • | | | | | | | | | | • | | | | | 2 |
| Chernetidae 'boddington' | W | | | | | | | | | | | | | | | | | | | | | | | |
| Chernetidae sp. indet. | W | | | | | | | | | | | | | | | | | | | | | | | |
| Dalodesmidae 'Phoenix0038' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Eucyrtops latior* | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0003' | P | • | | | | | | | | | | • | | | | | | | | | | | | 2 |
| *Eucyrtops* 'Phoenix0029' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0030' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0032' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0033' | P | | | | | | | • | | | | • | | | | | | | | | | | | 2 |

PHOENIX
ENVIRONMENTAL SCIENCES

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Eucyrtops* 'WorsleyDNA06' | P | | | | | | | | • | | • | | | | | • | • | | | | | | | 4 |
| *Euoplos* 'Phoenix0011' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0012' | P | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| Eupnoi sp. indet. | P | | • | | • | | | • | • | | | | • | | | | | | | | • | • | | 7 |
| *Geogarypus* sp. indet. | W | | | | | | | | | | | | | | | | | | | | | | | |
| *Geogarypus taylori* | W | | | | | | | | | | | | | | | | | | | | | | | |
| Idiopidae sp. indet. | P | | | • | • | • | | | | | | | | | | | | | • | • | | | | 5 |
| *Idiosoma jarrah* | W | | | | | | | | | | | | | | • | | | | | | | | | 1 |
| *Idiosoma* 'Phoenix0035' | P | • | | | | | • | • | • | | | | | • | | | | | | | | • | | 6 |
| *Idiosoma* 'WAM T129362' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Isometroides* 'jarrah' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Karaops ellenae* | W | | | | | | | | | | | | | | | | | | | | | | • | 1 |
| *Karaops jarrit* | W | | | | | | | • | | | | • | | | | | | | | | | | | 2 |
| *Kwonkan* 'Phoenix0005' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0008' | P | | | | | | | | | | | | | | | | | | | • | | | | 1 |
| *Laevophiloscia* '1' | P | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | | | • | • | • | 19 |
| *Laevophiloscia* '2' | W | • | | • | | • | • | | • | • | • | • | • | • | • | | | • | • | | • | • | • | 16 |
| *Laevophiloscia* sp. indet. | P | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| *Lagynochthonius australicus* | W | | | | | | | | | | | | | | | | | | | | | | | |
| *Lychas* 'austroccidentalis' | W | | | | | | | | | | • | | | | | | | | | | • | | | 2 |
| *Missulena* 'MYG198' | P | | | | | | | | | | | | | | | | • | | | | | | | 1 |
| *Nunciella* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Occipperipatoides gilesii* | W | | | | | | | | • | | | | • | | | | • | | | | | | | 3 |
| Olpiidae sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| Opiliones sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Oratemnus* sp. indet. | W | | | | | | | | | | | | | | | | | | | • | | • | | 2 |

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paraplatyarthridae sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Paraplatyarthrus* sp. indet. | P | | | | | | | | | | | | | | | | | | • | | | | | 1 |
| Philosciidae 's' | L | | | | | | | | | • | | • | | | | | | | | | | | | 2 |
| Philosciidae sp. indet. | P | | | | | | | | | | | | • | | | | | | | | | | | 1 |
| *Podykipus leptoiuloides* | P | • | • | | • | • | • | • | • | • | • | • | • | • | • | | • | • | • | • | • | • | | 19 |
| Polydesmida sp. indet. | P | | | | | | | | | | | | | | | | | | • | | | | | 1 |
| Polyzoniida 'Phoenix0039' | P | | | | | | | | | | | | | • | | | | | | | | | | 1 |
| Polyzoniida 'Phoenix0040' | P | | | | | | | | | | | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0041' | P | | | | | | | | | | | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0042' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Proshermacha* 'MYG485' | P | | • | | | • | | | | • | | • | | | • | • | • | | | • | • | • | | 10 |
| *Proshermacha* 'Phoenix0023' | P | | | | | | | | | | | | | | | | | | | | | | • | 1 |
| *Proshermacha* 'Phoenix0027' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0028' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0040' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Protochelifer* 'boddington' | W | • | • | • | | | • | • | | | | • | • | • | | | | • | • | • | • | • | • | 14 |
| *Protogarypinus giganteus* | W | | | | | | | | | | | | | | | | | | • | | | | | 4 |
| *Pseudodiploexochus* sp. indet. | L | | | | | | | | | • | | | | • | | | | • | | • | • | | • | 6 |
| *Pseudotyrannochthonius* 'Harms sp. Darling Range 2' | W | • | | | | | • | | | | • | • | | | • | | | | | | | | | 5 |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | C | | | • | | • | | | | | | | | | | | • | • | | | | | • | 4 |
| *Spherillo* '1' | L | | | | | | | | | | | | | | | | | | | | | | | |
| *Spherillo* '5' | W | | | | | | • | | | | | | | | | | | | • | • | | | • | 4 |
| *Styloniscus* '1' | P | • | • | | | | • | • | | | • | • | • | | | | • | | • | | • | | | 10 |
| *Styloniscus* '7' | P | • | | | | | | | | | • | | | | | | | | | | | | • | 3 |
| *Styloniscus* sp. indet. | P | | | | | | | | | | | | | | | | | | | | | | | |

PHOENIX ENVIRONMENTAL SCIENCES

| Species | SRE status[1] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | Tot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Synothele michaelseni* | W | | | | | | • | | | | | | | | | | | | | | | | | 1 |
| *Synothele* 'Phoenix0015' | P | • | | | | • | | • | | | | | • | | | • | | • | • | • | | | • | 9 |
| *Synothele* 'Phoenix0016' | P | | | | | | | | | | | | | | • | | | | | | | | | 1 |
| *Teyl* 'MYG355' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Teyl* 'Phoenix0007' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Teyl* 'Phoenix0019' | P | | | | | | | | | | | | | | | | | | | | | | | |
| *Teyl* 'Phoenix0021' | P | | | | | | | | | | | | | | | | | | | | | | | |
| Trianonychidae 'genus 008' sp. indet. | P | | • | • | • | • | | | • | | | | • | | | | | • | • | • | | • | • | 11 |
| Trianonychidae sp. indet. | P | | | | | • | • | | | | | | | | | | | | | | | | | 2 |
| *Urodacus novaehollandiae* | W | | | | | | | | | | | | | | | | | • | | | | | | 1 |
| *Urodacus planimanus* | C | | • | | | | | | | | | | | | | | | | | | | | | 1 |
| **Grand Total** | | **16** | **14** | **9** | **14** | **14** | **17** | **15** | **17** | **11** | **17** | **16** | **13** | **15** | **15** | **11** | **13** | **14** | **16** | **12** | **18** | **15** | **15** | **318** |

1 – C = confirmed, P =potential, W = widespread

## Appendix 4 Site x species matrix for the conveyor corridors and haul roads

| Species | SRE status[1] | HC001 | HC002 | HC003 | HCC Total | MC001 | MC002 | MC003 | MC004 | MC005 | MCC Total | HR001 | HR002 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | P | | | | | | • | | • | | 2 | | |
| *Acanthodillo* '1' | P | | | | | | | | | | | | |
| *Acanthodillo* sp. indet. | P | | | | | | | | | • | 1 | | |
| *Akamptogonus novarae* | W | | | | | | | | | | | | |
| *Aname* 'Phoenix0004' | P | | | | | | | | | | | | |
| *Aname* 'Phoenix0010' | P | | | | | | | | | | | | |
| *Aname* 'Phoenix0018' | P | | | | | | | | | | | | |
| *Aname* 'Phoenix0020' | P | | | • | 1 | | | | | • | 1 | | |
| *Aname* 'Phoenix0036' | P | | | | | | • | | • | | 2 | | |
| *Aname* 'Phoenix0037' | P | | | | | • | | | | | 1 | | |
| Anamidae 'Phoenix0009' | P | | | | | | | | | | | | |
| Anamidae sp. indet. | P | | | | | | • | • | | | 2 | | |
| *Annoselix* cf. dolosa | P | | | | | | | | | | | | |
| *Antichiropus* 'dwellingup' | C | | | | | | | | | | | • | |
| *Antichiropus* 'forest' | C | | | | | | | | | | | | |
| *Antichiropus* 'holyoake' | C | | | | | | | | | | | | |
| *Antichiropus* 'jarrah' | C | | | | | | | | | | | | |
| *Antichiropus* 'Marradong' | C | | | | | | | | | | | | |
| *Antichiropus* 'mini' | C | | | | | | | | | | | | |
| *Antichiropus* 'Myara' | C | | | | | | | | • | | 1 | | |
| *Antichiropus* 'southern' | C | | | | | | | | | | | | |
| *Antichiropus* sp. indet. | P | | • | | 1 | • | • | • | | • | 4 | | |
| *Antichiropus variabilis* | W | | • | • | 2 | | • | • | • | • | 4 | | |
| *Armadillo flavus* | P | | | | | | | | | | | | |

| Species | SRE status[1] | HC001 | HC002 | HC003 | HCC Total | MC001 | MC002 | MC003 | MC004 | MC005 | MCC Total | HR001 | HR002 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix nigrescens* | W | | • | | 1 | • | • | • | • | | 4 | | • |
| *Atelomastix* sp. indet. | W | | • | | 1 | | | • | | | •1 | | |
| *Austrochthonius* 'grandis' | W | | | | | | | | | | | | |
| *Austrochthonius muchmorei* | W | | • | | 1 | | | | | | | | |
| *Austrochthonius* 'PSE188' | W | | | | | | | | | | | | |
| *Austrochthonius* sp. indet. | W | | | | | | • | | | | 1 | | |
| Barychelidae sp. indet. | P | | | | | | | | | | | | |
| *Beierolpium bornemisszai* | W | | | | | • | | | | | 1 | | • |
| *Beierolpium* sp. indet. | P | | | | | | | | | | | | |
| *Bothriembryon* cf. *bradshawi* | P | | | | | | | | | | | | |
| *Bothriembryon* cf. *indutus* | P | | | | | | | | | | | | |
| *Buddelundia* '5' (Huntly) | L | • | • | • | 3 | • | • | • | • | • | 5 | • | |
| *Buddelundia nitidissima* | W | | | | | | | | | • | 1 | | • |
| *Buddelundia* sp. indet. | P | | | | | | | | | | | | |
| *Calliuncus* sp. indet. | P | | • | | 1 | | | | | • | 1 | | |
| *Cercophonius sulcatus* | W | | • | | 1 | | | • | | • | 2 | | |
| cf.^*Westralaoma* sp. indet. | P | | | | | | | | | | | | |
| Charopidae sp. indet. | P | | | | | | | | | | | | |
| Chernetidae 'boddington' | W | | | | | | | | | | | | |
| Chernetidae sp. indet. | W | | | | | | | | | | | | |
| Dalodesmidae 'Phoenix0038' | P | | | | | | | | | | | | • |
| *Eucyrtops latior* | P | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0003' | P | | | | | | | | | • | 1 | | |
| *Eucyrtops* 'Phoenix0029' | P | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0030' | P | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0032' | P | | | | | • | | | | | 1 | | • |

| Species | SRE status[1] | HC001 | HC002 | HC003 | HCC Total | MC001 | MC002 | MC003 | MC004 | MC005 | MCC Total | HR001 | HR002 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Eucyrtops* 'Phoenix0033' | P | | | | | | | | • | • | 2 | | |
| *Eucyrtops* 'WorsleyDNA06' | P | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0011' | P | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0012' | P | | | | | | | | | | | | |
| Eupnoi sp. indet. | P | • | | | 1 | • | | | | • | 2 | | |
| *Geogarypus* sp. indet. | W | | | | | | | | | | | | |
| *Geogarypus taylori* | W | | | | | | | | | | | | |
| Idiopidae sp. indet. | P | | | | | | | | | | | | |
| *Idiosoma jarrah* | W | | | | | | | | | | | | |
| *Idiosoma* 'Phoenix0035' | P | • | • | • | 3 | | | | • | | 1 | • | |
| *Idiosoma* 'WAM T129362' | P | | | | | | • | | | | 1 | | |
| *Isometroides* 'jarrah' | P | | | | | | | | | | | | |
| *Karaops ellenae* | W | | | | | | | | | | | | |
| *Karaops jarrit* | W | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0005' | P | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0008' | P | | | | | | | | | | | | |
| *Laevophiloscia* '1' | P | | • | • | 2 | • | | | • | • | 3 | | • |
| *Laevophiloscia* '2' | W | | • | • | 2 | | • | • | • | • | 4 | • | • |
| *Laevophiloscia* sp. indet. | P | | | | | | • | | | • | 2 | | |
| *Lagynochthonius australicus* | W | | | | | | | • | | | 1 | | |
| *Lychas* 'austroccidentalis' | W | | | | | | | • | | | 1 | | |
| *Missulena* 'MYG198' | P | | | | | | | | | | | | |
| *Nunciella* sp. indet. | P | | | | | | | | | | | | |
| *Occipperipatoides gilesii* | W | | | | | | | | • | | 1 | | |
| Olpiidae sp. indet. | P | | | | | | | | | | | | |
| Opiliones sp. indet. | P | | | | | | | • | | | 1 | | |

| Species | SRE status[1] | HC001 | HC002 | HC003 | HCC Total | MC001 | MC002 | MC003 | MC004 | MC005 | MCC Total | HR001 | HR002 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Oratemnus* sp. indet. | W | | | | | | | | | | | | |
| Paraplatyarthridae sp. indet. | P | | | | | | | | | | | | |
| *Paraplatyarthrus* sp. indet. | P | | | | | | | | | | | | |
| Philosciidae 's' | L | | | | | | | | | | | | • |
| Philosciidae sp. indet. | P | | | • | 1 | | | | | | | | |
| *Podykipus leptoiuloides* | W | • | • | | 2 | | • | | • | • | 3 | • | |
| Polydesmida sp. indet. | P | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0039' | P | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0040' | P | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0041' | P | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0042' | P | | | | | | | | | | | | |
| *Proshermacha* 'MYG485' | P | | | | | | | | | | | • | |
| *Proshermacha* 'Phoenix0023' | P | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0027' | P | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0028' | P | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0040' | P | | | | | | | | | | | | |
| *Protochelifer* 'boddington' | W | | • | • | 2 | | | • | | • | 2 | • | |
| *Protogarypinus giganteus* | W | | | | | | | | | | | | |
| *Pseudodiploexochus* sp. indet. | L | | | | | | • | | | | 1 | | |
| *Pseudotyrannochthonius* 'Harms sp. Darling Range 2' | W | | | | | | | | | | | | |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | C | | | | | | | | | | | | |
| *Spherillo* '1' | L | | | | | | | | | | | | |
| *Spherillo* '5' | W | | | | | • | | | | | 1 | | |
| *Styloniscus* '1' | P | | | | | | • | | • | • | 3 | | |
| *Styloniscus* '7' | P | | | • | **1** | | | | | | | | |

| Species | SRE status[1] | HC001 | HC002 | HC003 | HCC Total | MC001 | MC002 | MC003 | MC004 | MC005 | MCC Total | HR001 | HR002 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Styloniscus* sp. indet. | P | | | | | | | | | | | | |
| *Synothele michaelseni* | W | | | | | | | | | | | | |
| *Synothele* 'Phoenix0015' | P | | | • | **1** | | | | | | | | |
| *Synothele* 'Phoenix0016' | P | | | | | | | | | | | | |
| *Teyl* 'MYG355' | P | | | | | | | | | • | 1 | | |
| *Teyl* 'Phoenix0007' | P | | | | | | | | • | | **1** | | |
| *Teyl* 'Phoenix0019' | P | | | | | | | | | | | | |
| *Teyl* 'Phoenix0021' | P | | | | | | | | | | | | |
| Trianonychidae 'genus 008' sp. indet. | P | | | • | 1 | • | • | | • | • | 4 | | |
| Trianonychidae sp. indet. | P | | | | | | | | | | | | |
| *Urodacus novaehollandiae* | W | | | | | | | | | | | | |
| *Urodacus planimanus* | C | | | | | | | • | | | 1 | | |
| **Grand Total** | | **4** | **13** | **11** | | **10** | **15** | **13** | **15** | **19** | | **7** | **8** |

1 – C = confirmed, P =potential, W = widespread

## Appendix 5 Site x species matrix for the ReSA

| Species | SRE status[1] | RH05A | RH05B | RH05C | RH10A | RH10B | RH10C | RH20A | RH20B | RH20C | RH30B | RH30C | RH30D | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | P | | | | | | | | | | | | | |
| *Acanthodillo* '1' | P | | | | | | | | | | | | | |
| *Acanthodillo* sp. indet. | P | | | | | | | | | | | | | |
| *Akamptogonus novarae* | W | | | | | | | | | | | | | |
| *Aname* 'Phoenix0004' | P | | | | | | | | | | | | | |
| *Aname* 'Phoenix0010' | P | | | | | | | | | | | | | |
| *Aname* 'Phoenix0018' | P | | | | | | | | | | | | | |
| *Aname* 'Phoenix0020' | P | | | | | | | | | | | | | |
| *Aname* 'Phoenix0036' | P | | | | | | | | | | | | | |
| *Aname* 'Phoenix0037' | P | | | | | | | | | | | | | |
| Anamidae 'Phoenix0009' | P | | | | | | | | | | | | | |
| Anamidae sp. indet. | P | | | | • | | | | | | • | | | **2** |
| *Annoselix* cf. dolosa | P | | | | | | | | | • | | | | **1** |
| *Antichiropus* 'dwellingup' | C | | | | | | | | | | | | | |
| *Antichiropus* 'forest' | C | | | | | | | | | | | | | |
| *Antichiropus* 'holyoake' | C | | | | | | | | | | | | | |
| *Antichiropus* 'jarrah' | C | | | | | | | | | | | | | |
| *Antichiropus* 'Marradong' | C | | | | | | | | | | | | | |
| *Antichiropus* 'mini' | C | | | | | | | | | | | | | |
| *Antichiropus* 'Myara' | C | | | | | | | | | | | | | |
| *Antichiropus* 'southern' | C | | | | | | | | | | | | | |
| *Antichiropus* sp. indet. | P | | | | | | | | | | | • | | **1** |
| *Antichiropus variabilis* | W | | • | | | • | | | | • | | • | • | **5** |
| *Armadillo flavus* | P | | | | | | | | | | | | | |
| *Atelomastix nigrescens* | W | | • | | • | | | | | | | | | **2** |

| Species | SRE status[1] | RH05A | RH05B | RH05C | RH10A | RH10B | RH10C | RH20A | RH20B | RH20C | RH30B | RH30C | RH30D | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix* sp. indet. | W | | | | | | | | | | | | | |
| *Austrochthonius* 'grandis' | W | | | | | | | | | | | | | |
| *Austrochthonius muchmorei* | W | | | | | | | | | | | | | |
| *Austrochthonius* 'PSE188' | W | | | | | | | | | | | | | |
| *Austrochthonius* sp. indet. | W | | | | | | | | | | | | | |
| Barychelidae sp. indet. | P | | | | | | | | | | | | | |
| *Beierolpium bornemisszai* | W | | | | | | | | | | | | | |
| *Beierolpium* sp. indet. | P | | | | | | | | | | | | | |
| *Bothriembryon* cf. *bradshawi* | P | | | | | | | | | | | | | |
| *Bothriembryon* cf. *indutus* | P | | | | | | | | | | | | | |
| *Buddelundia* '5' (Huntly) | L | | • | | | | | • | | | | | • | **3** |
| *Buddelundia nitidissima* | W | | | | | • | | • | | | • | | | **3** |
| *Buddelundia* sp. indet. | P | | | | | | | | | | | | | |
| *Calliuncus* sp. indet. | P | | | | | | | | | | | | | |
| *Cercophonius sulcatus* | W | | | | • | | • | | | | | | | **2** |
| cf.^*Westralaoma* sp. indet. | P | | | | | | | | | | | • | | **1** |
| Charopidae sp. indet. | P | | | | | | | | | | | • | | **1** |
| Chernetidae 'boddington' | W | | | | | | | | | | | | | |
| Chernetidae sp. indet. | W | | | | | | | | | | | | | |
| Dalodesmidae 'Phoenix0038' | P | | | | | | | | | | | | | |
| *Eucyrtops latior* | P | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0003' | P | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0029' | P | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0030' | P | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0032' | P | | | | | | | | | | | | | |
| *Eucyrtops* 'Phoenix0033' | P | | | | | | | | | | • | • | • | **3** |

| Species | SRE status[1] | RH05A | RH05B | RH05C | RH10A | RH10B | RH10C | RH20A | RH20B | RH20C | RH30B | RH30C | RH30D | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Eucyrtops* 'WorsleyDNA06' | P | | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0011' | P | | | | | | | | | | | | | |
| *Euoplos* 'Phoenix0012' | P | | | | | | | | | | | | | |
| Eupnoi sp. indet. | P | | • | | • | | • | • | | | | • | • | **6** |
| *Geogarypus* sp. indet. | W | | | | | | | | | | | | | |
| *Geogarypus taylori* | W | | | | | | | | | | | • | | **1** |
| Idiopidae sp. indet. | P | | | | | | | | | | | | | |
| *Idiosoma jarrah* | W | | | | | | | | | | | | | |
| *Idiosoma* 'Phoenix0035' | P | | | | | | | | | | | | | |
| *Idiosoma* 'WAM T129362' | P | | | | | | | | | | | | | |
| *Isometroides* 'jarrah' | P | | | | | | | | | | | | | |
| *Karaops ellenae* | W | | | | | | • | | | | | | | **1** |
| *Karaops jarrit* | W | | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0005' | P | | | | | | | | | | | | | |
| *Kwonkan* 'Phoenix0008' | P | | | | | | | | | | | | | |
| *Laevophiloscia* '1' | P | • | • | • | • | • | • | • | • | • | • | • | • | **12** |
| *Laevophiloscia* '2' | W | • | • | • | • | • | • | • | • | • | • | • | • | **12** |
| *Laevophiloscia* sp. indet. | P | | | | • | | | | | | | | | |
| *Lagynochthonius australicus* | W | | | | | | | | | | • | | | **1** |
| *Lychas* 'austroccidentalis' | W | | | • | | | • | | | | | | | **2** |
| *Missulena* 'MYG198' | P | | | | | | | | | | | | | |
| *Nunciella* sp. indet. | P | | | | | | | | | | | | | |
| *Occipperipatoides gilesii* | W | | | | | | | | • | | | | | **1** |
| Olpiidae sp. indet. | P | | | | | | | | | | | | | |
| Opiliones sp. indet. | P | | | | | | | | | | • | | | **1** |
| *Oratemnus* sp. indet. | W | | | | | | | | | | | | | |

| Species | SRE status[1] | RH05A | RH05B | RH05C | RH10A | RH10B | RH10C | RH20A | RH20B | RH20C | RH30B | RH30C | RH30D | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paraplatyarthridae sp. indet. | P | | | | | | | | | | | | | |
| *Paraplatyarthrus* sp. indet. | P | | | | | | | | | | | | | |
| Philosciidae 's' | L | | | | | | | | | | | | | |
| Philosciidae sp. indet. | P | | | | | • | | • | • | | • | | | **4** |
| *Podykipus leptoiuloides* | W | | | | | | | | | | • | | | **1** |
| Polydesmida sp. indet. | P | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0039' | P | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0040' | P | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0041' | P | | | | | | | | | | | | | |
| Polyzoniida 'Phoenix0042' | P | | | | | | | | | | | | | |
| *Proshermacha* 'MYG485' | P | | | | | | | | | | | • | | **1** |
| *Proshermacha* 'Phoenix0023' | P | | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0027' | P | | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0028' | P | | | | | | | | | | | | | |
| *Proshermacha* 'Phoenix0040' | P | | | | | | | | | | | | | |
| *Protochelifer* 'boddington' | W | | | | | | | | | | | | | |
| *Protogarypinus giganteus* | W | | | | | | | | | | | | | |
| *Pseudodiploexochus* sp. indet. | L | | | | | | | | | | | | | |
| *Pseudotyrannochthonius* 'Harms sp. Darling Range 2' | W | | | | • | | | | • | | | | | **2** |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | C | | | | | | | | | | | | | |
| *Spherillo* '1' | L | | | | | | | | | | | | | |
| *Spherillo* '5' | W | | | | | | | | | | | | | |
| *Styloniscus* '1' | P | | | | • | | • | | | | | • | | **3** |
| *Styloniscus* '7' | P | | | | | | | | | | | | | |
| *Styloniscus* sp. indet. | P | | | | | | | | • | | | | • | **2** |

| Species | SRE status[1] | RH05A | RH05B | RH05C | RH10A | RH10B | RH10C | RH20A | RH20B | RH20C | RH30B | RH30C | RH30D | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Synothele michaelseni* | W | | | | | | | | | | | | | |
| *Synothele* 'Phoenix0015' | P | | | | | | | | | | | | | |
| *Synothele* 'Phoenix0016' | P | | | | | | | | | | | | | |
| *Teyl* 'MYG355' | P | | | | | | | | | | | | | |
| *Teyl* 'Phoenix0007' | P | | | | | • | | | | | | | | **1** |
| *Teyl* 'Phoenix0019' | P | | | | | | | | | | | | | |
| *Teyl* 'Phoenix0021' | P | | | | | | | | | | | | | |
| Trianonychidae 'genus 008' sp. indet. | P | | | | • | • | | • | • | | | | | **4** |
| Trianonychidae sp. indet. | P | | | | | | | | | | | | | |
| *Urodacus novaehollandiae* | W | | | | | | | | | | | | | |
| *Urodacus planimanus* | C | | | | | | | | | | | | | |
| **Grand Total** | | **2** | **6** | **3** | **10** | **7** | **7** | **7** | **7** | **4** | **9** | **11** | **7** | **80** |

1 – C = confirmed, P =potential, W = widespread

## Appendix 6 Site x species matrix comparison between study areas

| Species | SRE status[1] | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | Rehab | Opp |
|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | P | | • | | • | | | | |
| *Acanthodillo* '1' | P | | | | • | | | | |
| *Acanthodillo* sp. indet. | P | • | • | | • | | | | |
| *Akamptogonus novarae* | W | • | | | | | | | |
| *Aname* 'Phoenix0004' | P | • | | | | | | | |
| *Aname* 'Phoenix0010' | P | | | | | | | | • |
| *Aname* 'Phoenix0018' | P | | | | • | | | | |
| *Aname* 'Phoenix0020' | P | | • | | | • | | | |
| *Aname* 'Phoenix0036' | P | • | • | | | | | | |
| *Aname* 'Phoenix0037' | P | | • | | | | | | |
| Anamidae 'Phoenix0009' | P | • | | | | | | | |
| Anamidae sp. indet. | P | • | • | | • | | | • | |
| *Annoselix* cf. dolosa | P | • | | | | | | • | |
| *Antichiropus* 'dwellingup' | C | • | | | • | | • | | |
| *Antichiropus* 'forest' | C | • | | | • | | | | |
| *Antichiropus* 'holyoake' | C | | | | • | | | | |
| *Antichiropus* 'jarrah' | C | • | | | | | | | |
| *Antichiropus* 'Marradong' | C | | | | • | | | | |
| *Antichiropus* 'mini' | C | • | | | • | | | | |
| *Antichiropus* 'Myara' | C | | • | | • | | | | |
| *Antichiropus* 'southern' | C | | | | • | | | | |
| *Antichiropus* sp. indet. | P | • | • | | • | • | | • | |
| *Antichiropus variabilis* | W | • | • | | • | • | | • | • |
| *Armadillo flavus* | P | • | | | • | | | | |
| *Atelomastix nigrescens* | W | • | • | • | • | • | | • | |

| Species | SRE status[1] | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | Rehab | Opp |
|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix* sp. indet. | W | • | • | | • | • | | | |
| *Austrochthonius* 'grandis' | W | | | | • | | | | |
| *Austrochthonius muchmorei* | W | • | | | • | • | | | |
| *Austrochthonius* 'PSE188' | W | • | | | • | | | | |
| *Austrochthonius* sp. indet. | W | | • | | | | | | |
| Barychelidae sp. indet. | P | • | | | | | | | |
| *Beierolpium bornemisszai* | W | • | • | • | • | | | | |
| *Beierolpium* sp. indet. | P | • | | | | | | | |
| *Bothriembryon* cf. *bradshawi* | P | | | | • | | | | |
| *Bothriembryon* cf. *indutus* | P | • | | | | | | | |
| *Buddelundia* '5' (Huntly) | L | • | • | | • | • | • | • | • |
| *Buddelundia nitidissima* | W | • | • | • | • | | | • | • |
| *Buddelundia* sp. indet. | P | • | | | • | | | | |
| *Calliuncus* sp. indet. | P | • | • | | • | • | | | |
| *Cercophonius sulcatus* | W | • | • | | • | • | | • | • |
| cf.^*Westralaoma* sp. indet. | P | | | | • | | | • | |
| Charopidae sp. indet. | P | • | | | • | | | • | |
| Chernetidae 'boddington' | W | • | | | | | | | |
| Chernetidae sp. indet. | W | • | | | | | | | |
| Dalodesmidae 'Phoenix0038' | P | • | | • | | | | | |
| *Eucyrtops latior* | P | • | | | | | | | |
| *Eucyrtops* 'Phoenix0003' | P | • | • | | • | | | | |
| *Eucyrtops* 'Phoenix0029' | P | • | | | | | | | |
| *Eucyrtops* 'Phoenix0030' | P | • | | | | | | | |
| *Eucyrtops* 'Phoenix0032' | P | • | • | • | | | | | |
| *Eucyrtops* 'Phoenix0033' | P | | • | | • | | | • | |
| *Eucyrtops* 'WorsleyDNA06' | P | | | | • | | | | |

| Species | SRE status[1] | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | Rehab | Opp |
|---|---|---|---|---|---|---|---|---|---|
| *Euoplos* 'Phoenix0011' | P | • | | | | | | | |
| *Euoplos* 'Phoenix0012' | P | | | | • | | | | |
| Eupnoi sp. indet. | P | • | • | | • | • | | • | |
| *Geogarypus* sp. indet. | W | • | | | | | | | |
| *Geogarypus taylori* | W | • | | | | | | • | |
| Idiopidae sp. indet. | P | • | | | • | | | | • |
| *Idiosoma jarrah* | W | • | | | • | | | | |
| *Idiosoma* 'Phoenix0035' | P | | • | | • | • | • | | |
| *Idiosoma* 'WAM T129362' | P | • | • | | | | | | |
| *Isometroides* 'jarrah' | P | | | | | | | | • |
| *Karaops ellenae* | W | • | | | • | | | • | |
| *Karaops jarrit* | W | | | | • | | | | |
| *Kwonkan* 'Phoenix0005' | P | • | | | | | | | |
| *Kwonkan* 'Phoenix0008' | P | | | | • | | | | |
| *Laevophiloscia* '1' | P | • | • | • | • | • | | • | |
| *Laevophiloscia* '2' | W | • | • | • | • | • | • | • | |
| *Laevophiloscia* sp. indet. | P | • | • | | • | | | • | |
| *Lagynochthonius australicus* | W | • | • | | | | | • | |
| *Lychas* 'austroccidentalis' | W | • | • | | • | | | • | |
| *Missulena* 'MYG198' | P | | | | • | | | | |
| *Nunciella* sp. indet. | P | • | | | | | | | |
| *Occipperipatoides gilesii* | W | • | • | | • | | | • | |
| Olpiidae sp. indet. | P | • | | | | | | | |
| Opiliones sp. indet. | P | • | • | | | | | • | |
| *Oratemnus* sp. indet. | W | | | | • | | | | |
| Paraplatyarthridae sp. indet. | P | • | | | | | | | |
| *Paraplatyarthrus* sp. indet. | P | | | | • | | | | |

| Species | SRE status[1] | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | Rehab | Opp |
|---|---|---|---|---|---|---|---|---|---|
| Philosciidae 's' | L | • | | • | • | | | | |
| Philosciidae sp. indet. | P | | | | • | • | | • | |
| *Podykipus leptoiuloides* | W | • | • | | • | • | • | • | |
| Polydesmida sp. indet. | P | | | | • | | | | |
| Polyzoniida 'Phoenix0039' | P | | | | • | | | | |
| Polyzoniida 'Phoenix0040' | P | • | | | | | | | |
| Polyzoniida 'Phoenix0041' | P | • | | | | | | | |
| Polyzoniida 'Phoenix0042' | P | • | | | | | | | |
| *Proshermacha* 'MYG485' | P | • | | | • | | • | • | • |
| *Proshermacha* 'Phoenix0023' | P | • | | | • | | | | |
| *Proshermacha* 'Phoenix0027' | P | • | | | | | | | |
| *Proshermacha* 'Phoenix0028' | P | • | | | | | | | |
| *Proshermacha* 'Phoenix0040' | P | • | | | | | | | |
| *Protochelifer* 'boddington' | W | • | • | | • | • | • | | |
| *Protogarypinus giganteus* | W | | | | • | | | | |
| *Pseudodiploexochus* sp. indet. | L | • | • | | • | | | | |
| *Pseudotyrannochthonius* 'Harms sp. Darling Range 2' | W | • | | | • | | | • | |
| Siphonotidae 'DIPAAG' 'DIP189' 'collie' | C | | | | • | | | | |
| *Spherillo* '1' | L | • | | | | | | | |
| *Spherillo* '5' | W | • | • | | • | | | | |
| *Styloniscus* '1' | P | • | • | | • | | | • | |
| *Styloniscus* '7' | P | • | | | • | • | | | |
| *Styloniscus* sp. indet. | P | • | | | | | | • | |
| *Synothele michaelseni* | W | • | | | • | | | | |
| *Synothele* 'Phoenix0015' | P | • | | | • | • | | | |
| *Synothele* 'Phoenix0016' | P | • | | | • | | | | |
| *Teyl* 'MYG355' | P | • | • | | | | | | |

| Species | SRE status[1] | MN-MA | MN-CC | MN-HR | H-MA | H-CC | H-HR | Rehab | Opp |
|---|---|---|---|---|---|---|---|---|---|
| *Teyl* 'Phoenix0007' | P | • | • | | | | | • | |
| *Teyl* 'Phoenix0019' | P | • | | | | | | | |
| *Teyl* 'Phoenix0021' | P | • | | | | | | | |
| Trianonychidae 'genus 008' sp. indet. | P | • | • | | • | • | | • | • |
| Trianonychidae sp. indet. | P | • | | | • | | | | |
| *Urodacus novaehollandiae* | W | • | | | • | | | | |
| *Urodacus planimanus* | C | • | • | | • | | | | |
| **Grand Total** | | | | | | | | | |

1 – C = confirmed, P =potential, W = widespread

## Appendix 7 Survey records data (registration numbers, sample types, numbers and notes)

| Species | Phoenix reg no. | WAM reg no. | S.Judd Reg. no. | site code | Sample type | notes | indet | males | females | Juv. | tota | seq. notes | Genbank acc. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Abaddon despoliator* | 33141 | TBC | | MC004 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Abaddon despoliator* | 33432 | TBC | | MC002 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Abaddon despoliator* | 33574 | TBC | | H001 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Acanthodillo* '1' | 32239 | TBC | SJ5778 | H002 | For/LS | Under rocks (laterite) | 0 | 1 | 2 | 0 | 3 | | |
| *Acanthodillo* sp. indet. | 32469 | TBC | SJ5793 | MN-003 | WPp | Bumpy, rolled | 0 | 1 | 0 | 0 | 1 | | |
| *Acanthodillo* sp. indet. | 32492 | TBC | | MN-014 | WPp | Very small | 0 | 1 | 0 | 0 | 1 | | |
| *Acanthodillo* sp. indet. | 33291 | TBC | SJ5783 | H010 | WPp | Good, unrolled | 0 | 1 | 0 | 0 | 1 | | |
| *Acanthodillo* sp. indet. | 33318 | TBC | SJ5774 | MC005 | WPp | pale brown. | 0 | 0 | 1 | 0 | 1 | | |
| *Akamptogonus novarae* | 32508 | TBC | | MN-015 | WPp | | 2 | 0 | 2 | 0 | 4 | | |
| *Akamptogonus novarae* | 33744 | TBC | | MN-015 | WPp | | 0 | 1 | 2 | 0 | 3 | | |
| *Aname* 'Phoenix0004' | 31447 | TBC | | MN-010 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0004' | 31530 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0004' | 32491 | TBC | | MN-014 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0006' | 31597 | TBC | | H013 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0010' | 33858 | TBC | | GHD-Site8 | DP | | 0 | 3 | 0 | 0 | 3 | yes | TBC |
| *Aname* 'Phoenix0020' | 31741 | TBC | | HC003 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Aname* 'Phoenix0020' | 31810 | TBC | | MC005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0020' | 31823 | TBC | | HC003 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| *Aname* 'Phoenix0020' | 33389 | TBC | | HC003 | BE | Next to wetpit, no silk on lid, recently dug in disturbed soil, 8cm down | 0 | 0 | 1 | 0 | 1 | No | |
| *Aname* 'Phoenix0036' | 31432 | TBC | | MN-010 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0036' | 31734 | TBC | | MC002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0036' | 31801 | TBC | | MC004 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Aname* 'Phoenix0037' | 33149 | TBC | | MC001 | WPp | 92% SIMILAR WITH A. 'WorsleyDNA09' | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| Anamidae 'Phoenix0009' | 31448 | TBC | | MN-028 | BE | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| Anamidae 'Phoenix0009' | 31450 | TBC | | MN-028 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Anamidae 'Phoenix0009' | 32228 | TBC | | MN-028 | For/LS | Jarrah log litter | 0 | 0 | 0 | 1 | 1 | | |
| Anamidae sp. indet. | 31392 | TBC | | RH10A | For/LS | | 0 | 1 | 0 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31412 | TBC | | RH30B | BE | Ate spider in 31413 | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31413 | TBC | | RH30B | BE | Partially eaten by 31412 | 0 | 0 | 1 | 0 | 1 | | |
| Anamidae sp. indet. | 31482 | TBC | | MN-011 | For/LS | | 0 | 0 | 1 | 0 | 1 | No | TBC |
| Anamidae sp. indet. | 31485 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31503 | TBC | | MN-011 | For/LS | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31523 | TBC | | MN-022 | For/LS | | 0 | 0 | 0 | 1 | 1 | fail | TBC |
| Anamidae sp. indet. | 31554 | TBC | | MN-023 | For/LS | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31594 | TBC | | H017 | For/LS | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 31740 | TBC | | MC003 | BE | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 32341 | TBC | | H020 | For/LS | Under logs | 0 | 0 | 0 | 1 | 1 | | |
| Anamidae sp. indet. | 32412 | TBC | | MN-018 | For/LS | | 0 | 0 | 1 | 0 | 1 | No | TBC |
| Anamidae sp. indet. | 32413 | TBC | | MN-018 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| Anamidae sp. indet. | 32480 | TBC | | MN-009 | WPp | | 0 | 1 | 0 | 0 | 1 | No | TBC |
| Anamidae sp. indet. | 32789 | TBC | | H007 | WPp | common male | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 32828 | TBC | | H008 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 32853 | TBC | | H003 | WPp | | 0 | 0 | 0 | 1 | 1 | No | TBC |
| Anamidae sp. indet. | 32858 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 32859 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| Anamidae sp. indet. | 33136 | TBC | | H006 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 33393 | TBC | | MC002 | For/LS | Under logs | 0 | 0 | 1 | 0 | 1 | fail | TBC |
| Anamidae sp. indet. | 33537 | TBC | | H015 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 33577 | TBC | | H016 | WPp | Yellow legs | 0 | 0 | 1 | 0 | 1 | | |
| Anamidae sp. indet. | 33586 | TBC | | H011 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 33769 | TBC | | MN-007 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| Anamidae sp. indet. | 33785 | | | MN-028 | WPp | juvenile, discard | 0 | 0 | 0 | 1 | 1 | | |
| *Annoselix* cf. dolosa | 32099 | TBC | | MN-003 | For/LS | In/under log | 1 | 0 | 0 | 0 | 1 | | |
| *Annoselix* cf. dolosa | 32531 | TBC | | RH20C | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Annoselix* cf. dolosa | 33781 | TBC | | MN-028 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Antichiropus* `forest` | 31618 | TBC | | H007 | For/LS | n. sp 'forest' | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `forest` | 32855 | TBC | | H013 | WPp | | 1 | 1 | 0 | 0 | 2 | yes | TBC |
| *Antichiropus* `forest` | 33683 | TBC | | MN-016 | WPp | long body broken in half | 1 | 1 | 0 | 0 | 2 | yes | TBC |
| *Antichiropus* `holyoake` | 31685 | TBC | | H013 | For/LS | A.'holyoake' | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `holyoake` | 33590 | TBC | | H011 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `jarrah` | 32515 | TBC | | MN-010 | WPp | Broken, A. 'Jarrah' n.sp | 0 | 1 | 0 | 0 | 1 | No | TBC |
| *Antichiropus* `jarrah` | 33472 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `jarrah` | 33479 | TBC | | MN-007 | WPp | A. n.sp. 'jarrah' | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus* `Mini` | 32509 | TBC | | MN-015 | WPp | | 0 | 3 | 0 | 0 | 3 | | |
| *Antichiropus* `Mini` | 33500 | TBC | | MN-018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Antichiropus* `Mini` | 33501 | TBC | | MN-018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* `Mini` | 33507 | TBC | | MN-026 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* `Mini` | 33602 | TBC | | H002 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* `Mini` | 33682 | TBC | | MN-025 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `Myara` | 33622 | TBC | | H013 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `Myara` | 33641 | TBC | | MC004 | WPp | A. 'another' | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Antichiropus* `Myara` | 33642 | TBC | | MC004 | WPp | | 0 | 3 | 0 | 0 | 3 | yes | TBC |
| *Antichiropus* `southern` | 33448 | TBC | | H021 | WPp | broken in half | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* `southern` | 33534 | TBC | | H020 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* `southern` | 33545 | TBC | | H014 | WPp | | 0 | 4 | 0 | 0 | 4 | | |
| *Antichiropus* `southern` | 33558 | TBC | | H006 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* `southern` | 33606 | TBC | | H004 | WPp | | 0 | 3 | 0 | 0 | 3 | | |
| *Antichiropus* `southern` | 33611 | TBC | | H009 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus* 'dwellingup' | 31999 | TBC | | MN-008 | For/LS | Under rocks | 2 | 0 | 1 | 1 | 4 | yes | TBC |
| *Antichiropus* 'dwellingup' | 32423 | TBC | | MN-020 | For/LS | Pale yellow body | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus* 'dwellingup' | 32779 | TBC | | HR001 | WPp | | 2 | 2 | 0 | 0 | 4 | fail | TBC |
| *Antichiropus* 'dwellingup' | 33463 | TBC | | MN-008 | WPp | | 2 | 2 | 0 | 0 | 4 | yes | TBC |
| *Antichiropus* 'dwellingup' | 33518 | TBC | | H018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* 'Marradong' | 31614 | TBC | | H014 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* 'Marradong' | 32837 | TBC | | H020 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus* 'Marradong' | 32861 | TBC | | H004 | WPp | A. 'phoenix' n. sp | 1 | 1 | 0 | 0 | 2 | yes | TBC |
| *Antichiropus* 'Marradong' | 33526 | TBC | | H008 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus* 'Marradong' | 33539 | TBC | | H015 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus* 'Marradong' | 33565 | TBC | | H005 | WPp | | 1 | 0 | 1 | 0 | 2 | | |
| *Antichiropus* 'Marradong' | 33608 | TBC | | H004 | WPp | | 0 | 0 | 2 | 0 | 2 | yes | TBC |
| *Antichiropus* 'Marradong' | 34141 | TBC | | H014 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 31380 | TBC | | MN-008 | For/LS | 2 hatchlings | 0 | 0 | 0 | 2 | 2 | | |
| *Antichiropus* sp. indet. | 31387 | TBC | | MN-015 | For/LS | 1 hatchling 1 juvenile | 0 | 0 | 0 | 2 | 2 | No | |
| *Antichiropus* sp. indet. | 31462 | TBC | | MN-015 | For/LS | | 0 | 1 | 0 | 0 | 1 | No | |
| *Antichiropus* sp. indet. | 31629 | TBC | | H001 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 31667 | TBC | | H002 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 31668 | TBC | | H014 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Antichiropus* sp. indet. | 32138 | TBC | | RH30C | For/LS | Under/in leaf litter soil/lateritic gravel | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32261 | TBC | | H001 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32299 | TBC | | H014 | For/LS | Under leaf litter | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 32323 | TBC | | H008 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 32332 | TBC | | H014 | For/LS | Under logs/bark | 0 | 0 | 0 | 2 | 2 | | |
| *Antichiropus* sp. indet. | 32353 | TBC | | H008 | For/LS | Under rocks (laterite) | 1 | 0 | 0 | 1 | 2 | fail | |
| *Antichiropus* sp. indet. | 32467 | TBC | | MN-003 | WPp | 1 broken in half, only front half | 0 | 0 | 0 | 4 | 4 | | |
| *Antichiropus* sp. indet. | 32507 | TBC | | MN-015 | WPp | White, hatchlings | 5 | 0 | 0 | 5 | 10 | | |
| *Antichiropus* sp. indet. | 32526 | TBC | | MN-015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32615 | TBC | | H015 | For/LS | Under logs | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32773 | TBC | | RH30C | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 32788 | TBC | | H001 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32790 | TBC | | H007 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 32843 | TBC | | H009 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Antichiropus* sp. indet. | 33119 | TBC | | H004 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Antichiropus* sp. indet. | 33133 | TBC | | H021 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Antichiropus* sp. indet. | 33148 | TBC | | MC001 | WPp | | 0 | 0 | 0 | 1 | 1 | No | |
| *Antichiropus* sp. indet. | 33155 | TBC | | MC005 | WPp | missing? | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33338 | TBC | | H022 | For/LS | Under bark | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33343 | TBC | | H014 | For/LS | Under rocks (laterite), missing? | 1 | 0 | 1 | 0 | 2 | | |
| *Antichiropus* sp. indet. | 33442 | TBC | | MC003 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33512 | TBC | | H022 | WPp | broken in half | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33514 | TBC | | H022 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33538 | TBC | | H015 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33542 | TBC | | H015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33546 | TBC | | H014 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33547 | TBC | | H014 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33555 | TBC | | H017 | WPp | remains | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33562 | TBC | | H007 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33566 | TBC | | H005 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33567 | TBC | | H005 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33575 | TBC | | H001 | WPp | 2 damaged juveniles | 0 | 0 | 0 | 2 | 2 | No | |
| *Antichiropus* sp. indet. | 33627 | TBC | | H012 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus* sp. indet. | 33650 | TBC | | HC002 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus* sp. indet. | 33669 | TBC | | MN-020 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Antichiropus* sp. indet. | 33693 | TBC | | MN-018 | WPp | | 0 | 0 | 1 | 0 | 1 | No | |
| *Antichiropus* sp. indet. | 33743 | TBC | | MN-015 | WPp | | 0 | 0 | 0 | 3 | 3 | | |
| *Antichiropus* sp. indet. | 33832 | TBC | | MC002 | WPp | | 0 | 0 | 0 | 7 | 7 | No | |
| *Antichiropus variabilis* | 31359 | TBC | | MN-009 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 31391 | TBC | | RH30D | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 31411 | TBC | | RH20C | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 31440 | TBC | | MN-002 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Antichiropus variabilis* | 31615 | TBC | | H014 | For/LS | | 0 | 0 | 0 | 2 | 2 | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Antichiropus variabilis* | 31619 | TBC | | H007 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Antichiropus variabilis* | 31620 | TBC | | H009 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Antichiropus variabilis* | 31624 | TBC | | H010 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 31633 | TBC | | H020 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 31634 | TBC | | H020 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Antichiropus variabilis* | 31642 | TBC | | H021 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 31644 | TBC | | H018 | For/LS | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus variabilis* | 31648 | TBC | | H021 | For/LS | 1 Broken in half | 0 | 0 | 3 | 1 | 4 | | |
| *Antichiropus variabilis* | 31669 | TBC | | H002 | For/LS | | 0 | 0 | 1 | 0 | 1 | | TBC |
| *Antichiropus variabilis* | 31681 | TBC | | H005 | For/LS | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 31688 | TBC | | H011 | For/LS | | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus variabilis* | 31704 | TBC | | H006 | For/LS | 1 broken | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 31709 | TBC | | H017 | For/LS | | 0 | 0 | 1 | 1 | 2 | yes | TBC |
| *Antichiropus variabilis* | 31747 | TBC | | MC004 | For/LS | | 1 | 1 | 0 | 0 | 2 | | |
| *Antichiropus variabilis* | 31804 | TBC | | HC002 | For/LS | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 31817 | TBC | | MC002 | For/LS | | 0 | 0 | 1 | 3 | 4 | | |
| *Antichiropus variabilis* | 32003 | TBC | | MN-024 | For/LS | Under rocks | 1 | 0 | 1 | 0 | 2 | | |
| *Antichiropus variabilis* | 32133 | TBC | | RH30C | For/LS | Under rock | 0 | 1 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32226 | TBC | | MN-028 | For/LS | Jarrah log litter | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 32262 | TBC | | H012 | For/LS | Under logs/bark | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 32295 | TBC | | H011 | For/LS | Under logs/bark | 0 | 0 | 1 | 0 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32331 | TBC | | H014 | For/LS | Under logs/bark | 1 | 0 | 1 | 0 | 2 | | |
| *Antichiropus variabilis* | 32344 | TBC | | H020 | For/LS | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32398 | TBC | | MN-022 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 32466 | TBC | | MN-003 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32500 | TBC | | MN-028 | WPp | One broken | 0 | 1 | 0 | 2 | 3 | | |
| *Antichiropus variabilis* | 32528 | TBC | | RH20C | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 32713 | TBC | | RH30C | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus variabilis* | 32728 | TBC | | RH05B | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 32757 | TBC | | RH10B | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 32763 | TBC | | RH05B | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus variabilis* | 32797 | TBC | | H010 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32807 | TBC | | H022 | WPp | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 32834 | TBC | | H002 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 32842 | TBC | | H009 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 32851 | TBC | | H003 | WPp | | 1 | 0 | 1 | 0 | 2 | yes | TBC |
| *Antichiropus variabilis* | 33120 | TBC | | H014 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33121 | TBC | | H014 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33137 | TBC | | H006 | WPp | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 33142 | TBC | | MC004 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33156 | TBC | | MC005 | WPp | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 33337 | TBC | | H022 | For/LS | Under bark | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33355 | TBC | | H021 | For/LS | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33405 | TBC | | HC003 | For/LS | Under logs/bark | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33406 | TBC | | HC003 | For/LS | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33452 | TBC | | MN-012 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33464 | TBC | | MN-008 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33519 | TBC | | H018 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33540 | TBC | | H015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus variabilis* | 33541 | TBC | | H015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Antichiropus variabilis* | 33544 | TBC | | H014 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33557 | TBC | | H006 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33568 | TBC | | H005 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33576 | TBC | | H001 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33578 | TBC | | H016 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Antichiropus variabilis* | 33579 | TBC | | H016 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33615 | TBC | | H003 | WPp | | 1 | 0 | 0 | 0 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33653 | TBC | | HC003 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33662 | TBC | | MC003 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33674 | TBC | | MN-026 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33840 | TBC | | MC003 | WPp | | 0 | 0 | 0 | 2 | 2 | yes | TBC |
| *Antichiropus variabilis* | 33847 | TBC | | GHD-oppMN | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Antichiropus variabilis* | 33848 | TBC | | GHD-oppMN | DP | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 33851 | TBC | | GHD-TL5 | DP | | 0 | 0 | 0 | 5 | 5 | yes | TBC |
| *Antichiropus variabilis* | 33857 | TBC | | GHD-Site9 | DP | | 0 | 0 | 1 | 0 | 1 | | |
| *Antichiropus variabilis* | 33865 | TBC | | GHD-TL8 | DP | | 0 | 0 | 0 | 1 | 1 | yes | TBC |
| *Antichiropus variabilis* | 34140 | TBC | | H014 | For/LS | | 0 | 2 | 0 | 0 | 2 | | |
| *Armadillo flavus* | 32486 | TBC | SJ5784 | MN-009 | WPp | White colour, bumpy | 0 | 0 | 0 | 1 | 1 | | |
| *Armadillo flavus* | 33139 | TBC | SJ5777 | H006 | WPp | Sex indet. Rolled, juv poor. | 1 | 0 | 0 | 1 | 2 | | |
| *Armadillo flavus* | 33533 | TBC | SJ5772 | H020 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 31376 | TBC | | MN-013 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 31377 | TBC | | MN-013 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Atelomastix nigrescens* | 31455 | TBC | | MN-015 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Atelomastix nigrescens* | 31555 | TBC | | MN-011 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Atelomastix nigrescens* | 31559 | TBC | | H021 | For/LS | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 31657 | TBC | | H001 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 31748 | TBC | | MC004 | For/LS | | 22 | 0 | 0 | 0 | 22 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix nigrescens* | 31816 | TBC | | MC002 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 32134 | TBC | | RH05B | For/LS | Leaf litter | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 32201 | TBC | | MN-024 | For/LS | Under rocks | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 32216 | TBC | | MN-020 | For/LS | Under bark | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 32288 | TBC | | H004 | For/LS | Under logs | 5 | 0 | 0 | 0 | 5 | | |
| *Atelomastix nigrescens* | 32364 | TBC | | MN-007 | For/LS | Under rocks | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 32365 | TBC | | MN-028 | For/LS | Under logs | 8 | 0 | 0 | 0 | 8 | | |
| *Atelomastix nigrescens* | 32384 | TBC | | MN-015 | For/LS | Under rocks | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 32387 | TBC | | MN-021 | For/LS | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 32390 | TBC | | MN-010 | For/LS | Under rocks | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 32393 | TBC | | MN-015 | For/LS | Under logs/bark | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 32400 | TBC | | MN-013 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 32402 | TBC | | MN-007 | For/LS | | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 32403 | TBC | | MN-010 | For/LS | Under logs | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 32405 | TBC | | MN-027 | For/LS | Under logs | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 32409 | TBC | | MN-018 | For/LS | | 5 | 0 | 0 | 0 | 5 | | |
| *Atelomastix nigrescens* | 32414 | TBC | | MN-021 | For/LS | Under logs | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 32422 | TBC | | MN-020 | For/LS | Under rock | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 32425 | TBC | | MN-027 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 32430 | TBC | | MN-020 | WPp | | 1 | | 0 | 0 | | | |
| *Atelomastix nigrescens* | 32436 | TBC | | MN-023 | WPp | | 8 | 0 | 0 | 0 | 8 | | |
| *Atelomastix nigrescens* | 32440 | TBC | | MN-022 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 32461 | TBC | | MN-003 | WPp | | 20 | 0 | | 0 | | | |
| *Atelomastix nigrescens* | 32473 | TBC | | MN-021 | WPp | | 49 | 0 | 0 | 0 | 49 | | |
| *Atelomastix nigrescens* | 32484 | TBC | | MN-009 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 32499 | TBC | | MN-028 | WPp | | 17 | 0 | 0 | 0 | 17 | | |
| *Atelomastix nigrescens* | 32506 | TBC | | MN-015 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 32514 | TBC | | MN-010 | WPp | | 14 | 0 | 0 | 0 | 14 | | |
| *Atelomastix nigrescens* | 32521 | TBC | | MN-026 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 32525 | TBC | | MN-015 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 32611 | TBC | | MN-013 | WPp | site was burnt approximately halfway (3 weeks) into phase 2 | 8 | 0 | 0 | 0 | 8 | | |
| *Atelomastix nigrescens* | 32727 | TBC | | RH05B | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 32742 | TBC | | MN-024 | WPp | | 15 | 0 | 0 | 0 | 15 | | |
| *Atelomastix nigrescens* | 32744 | TBC | | MN-027 | WPp | | 29 | 0 | 0 | 0 | 29 | | |
| *Atelomastix nigrescens* | 32754 | TBC | | MN-010 | WPp | | 10 | 0 | 0 | 0 | 10 | | |
| *Atelomastix nigrescens* | 32765 | TBC | | RH10A | WPp | | 1 | 0 | 9 | 0 | 10 | | |
| *Atelomastix nigrescens* | 32823 | TBC | | H008 | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 32849 | TBC | | H018 | WPp | | 73 | 0 | 0 | 0 | 73 | | |
| *Atelomastix nigrescens* | 32864 | TBC | | H004 | WPp | | 53 | 0 | 0 | 0 | 53 | | |
| *Atelomastix nigrescens* | 33122 | TBC | | H014 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 33150 | TBC | | MC001 | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Atelomastix nigrescens* | 33154 | TBC | | HC002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33379 | TBC | | HR002 | For/LS | Under rocks/logs | 5 | 0 | 0 | 0 | 5 | | |
| *Atelomastix nigrescens* | 33385 | TBC | | HR002 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 33391 | TBC | | MC002 | For/LS | Under logs | 5 | 0 | 0 | 0 | 5 | | |
| *Atelomastix nigrescens* | 33394 | TBC | | MC004 | For/LS | | 5 | 0 | 0 | 0 | 5 | | |
| *Atelomastix nigrescens* | 33400 | TBC | | MC003 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Atelomastix nigrescens* | 33417 | TBC | | MC003 | For/LS | Under rocks (laterite) | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 33420 | TBC | | MC001 | For/LS | Under rocks (laterite) | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 33422 | TBC | | MC004 | For/LS | Under rocks (laterite) | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 33427 | TBC | | MC001 | For/LS | | 7 | 0 | 0 | 0 | 7 | | |
| *Atelomastix nigrescens* | 33454 | TBC | | MN-025 | WPp | | 36 | 0 | 0 | 0 | 36 | | |
| *Atelomastix nigrescens* | 33474 | TBC | | MN-027 | WPp | | 12 | 0 | 0 | 0 | 12 | | |
| *Atelomastix nigrescens* | 33480 | TBC | | MN-007 | WPp | | 45 | 0 | 0 | 0 | 45 | | |
| *Atelomastix nigrescens* | 33485 | TBC | | MN-013 | WPp | | 17 | 0 | 0 | 0 | 17 | | |
| *Atelomastix nigrescens* | 33492 | TBC | | MN-017 | WPp | | 10 | 0 | 0 | 0 | 10 | | |
| *Atelomastix nigrescens* | 33494 | TBC | | MN-012 | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Atelomastix nigrescens* | 33506 | TBC | | MN-026 | WPp | | 10 | 0 | 0 | 0 | 10 | | |
| *Atelomastix nigrescens* | 33527 | TBC | | H008 | WPp | | 12 | 0 | 0 | 0 | 12 | | |
| *Atelomastix nigrescens* | 33549 | TBC | | H014 | WPp | | 10 | 0 | 0 | 0 | 10 | | |
| *Atelomastix nigrescens* | 33603 | TBC | | H004 | WPp | | 20 | 0 | 0 | 0 | 20 | | |
| *Atelomastix nigrescens* | 33632 | TBC | | MC002 | WPp | | 67 | 0 | 0 | 0 | 67 | | |
| *Atelomastix nigrescens* | 33633 | TBC | | MC002 | WPp | | 53 | 0 | 0 | 0 | 53 | | |
| *Atelomastix nigrescens* | 33643 | TBC | | MC001 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 33657 | TBC | | MC003 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 33670 | TBC | | MN-020 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix nigrescens* | 33673 | TBC | | MN-026 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 33678 | TBC | | MN-025 | WPp | | 22 | 0 | 0 | 0 | 22 | | |
| *Atelomastix nigrescens* | 33689 | TBC | | MN-017 | WPp | | 12 | 0 | 0 | 0 | 12 | | |
| *Atelomastix nigrescens* | 33699 | TBC | | MN-011 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33710 | TBC | | MN-003 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 33718 | TBC | | MN-022 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33722 | TBC | | MN-012 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 33734 | TBC | | MN-009 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33740 | TBC | | MN-015 | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Atelomastix nigrescens* | 33748 | TBC | | HR002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33762 | TBC | | MN-021 | WPp | | 12 | 0 | 0 | 0 | 12 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Atelomastix nigrescens* | 33767 | TBC | | MN-007 | WPp | | 10 | 0 | 0 | 0 | 10 | | |
| *Atelomastix nigrescens* | 33778 | TBC | | MN-028 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Atelomastix nigrescens* | 33779 | TBC | | MN-028 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Atelomastix nigrescens* | 33830 | TBC | | MC002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix nigrescens* | 33831 | TBC | | MC002 | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Atelomastix nigrescens* | 33837 | TBC | | MC002 | WPp | | 36 | 0 | 0 | 0 | 36 | | |
| *Atelomastix nigrescens* | 33841 | TBC | | MC003 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix* sp. indet. | 31456 | TBC | | MN-015 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Atelomastix* sp. indet. | 31457 | TBC | | MN-015 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Atelomastix* sp. indet. | 31730 | TBC | | MC003 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Atelomastix* sp. indet. | 31805 | TBC | | HC002 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix* sp. indet. | 32377 | TBC | | MN-009 | For/LS | Under logs/rocks | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix* sp. indet. | 33486 | TBC | | MN-013 | WPp | | 0 | 0 | 0 | 3 | 3 | yes | |
| *Atelomastix* sp. indet. | 33569 | TBC | | H005 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Atelomastix* sp. indet. | 33656 | TBC | | MC003 | WPp | very small legs taken for DNA | 2 | 0 | 0 | 0 | 2 | yes | |
| *Atelomastix* sp. indet. | 33738 | TBC | | MN-006 | WPp | part of body mid-section taken for DNA, | 1 | 0 | 0 | 0 | 1 | yes | |
| Austrochthonius 'grandis' | 34178 | TBC | | H020 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| Austrochthonius 'grandis' | 34180 | TBC | | H010 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 32070 | TBC | | MN-024 | For/LS | | 0 | | 1 | 0 | | | |
| *Austrochthonius muchmorei* | 32468 | TBC | | MN-003 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 32838 | TBC | | H020 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 32860 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33509 | TBC | | MN-026 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33520 | TBC | | H018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33528 | TBC | | H008 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Austrochthonius muchmorei* | 33551 | TBC | | H017 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33571 | TBC | | H001 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Austrochthonius muchmorei* | 33584 | TBC | | H016 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33651 | TBC | | HC002 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33668 | TBC | | H020 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Austrochthonius muchmorei* | 33696 | TBC | | MN-023 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 33717 | TBC | | MN-008 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34184 | TBC | | H014 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34185 | TBC | | H021 | WPp | | 0 | 4 | 2 | 0 | 6 | | |
| *Austrochthonius muchmorei* | 34190 | TBC | | MN-011 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34191 | TBC | | MN-021 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34192 | TBC | | MN-017 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34193 | TBC | | MN-005 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius muchmorei* | 34194 | TBC | | MN-011 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Austrochthonius* '188' | 32071 | TBC | | MN-020 | For/LS | | 0 | 4 | 0 | 0 | 4 | | |
| *Austrochthonius* '188' | 32081 | TBC | | MN-012 | For/LS | in tree stump | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 32097 | TBC | | MN-003 | For/LS | In/under log. | 0 | 0 | 0 | 1 | 1 | | |
| *Austrochthonius* '188' | 32438 | TBC | | MN-023 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 32450 | TBC | | MN-022 | WPp | | 0 | 3 | 1 | 0 | 4 | | |
| *Austrochthonius* '188' | 32479 | TBC | | MN-021 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Austrochthonius* '188' | 32485 | TBC | | MN-009 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 32495 | TBC | | MN-028 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Austrochthonius* '188' | 32522 | TBC | | MN-015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Austrochthonius* '188' | 33459 | TBC | | MN-025 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Austrochthonius* '188' | 33461 | TBC | | MN-012 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33489 | TBC | | MN-017 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Austrochthonius* '188' | 33505 | TBC | | MN-018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33513 | TBC | | H022 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33564 | TBC | | H007 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33672 | TBC | | MN-020 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33725 | TBC | | MN-012 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius* '188' | 33733 | TBC | | MN-009 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33755 | TBC | | MN-002 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 33761 | TBC | | MN-019 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius* '188' | 33786 | TBC | | MN-028 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Austrochthonius* '188' | 34181 | TBC | | H010 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 34182 | TBC | | H006 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Austrochthonius* '188' | 34183 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius* '188' | 34195 | TBC | | MN-005 | WPp | | 0 | 5 | 0 | 1 | 6 | | |
| *Austrochthonius* '188' | 34196 | TBC | | MN-003 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Austrochthonius* '188' | 34197 | TBC | | MN-011 | WPp | | 0 | 1 | 0 | 1 | 2 | | |
| *Austrochthonius* sp. indet. | 33636 | TBC | | MC002 | WPp | *A. muchmorei*? | 0 | 1 | 0 | 0 | 1 | | |
| Barychelidae sp. indet. | 31372 | TBC | | MN-027 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Beierolpium bornemisszai* | 32069 | TBC | | MN-024 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32096 | TBC | | MN-003 | For/LS | In/under log. | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32215 | TBC | | MN-009 | For/LS | Grass tree | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32451 | TBC | | MN-022 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32454 | TBC | | MN-011 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32751 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32752 | TBC | | MN-010 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 32799 | TBC | | H010 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33129 | TBC | | H019 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33144 | TBC | | MC001 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33498 | TBC | | MN-004 | WPp | | 0 | 1 | 0 | 0 | 1 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Beierolpium bornemisszai* | 33536 | TBC | | H015 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33698 | TBC | | MN-011 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33747 | TBC | | HR002 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33756 | TBC | | MN-002 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33760 | TBC | | MN-019 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33765 | TBC | | MN-021 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 33787 | TBC | | MN-028 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium bornemisszai* | 34201 | TBC | | MN-020 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Beierolpium* sp. indet. | 32478 | TBC | | MN-021 | WPp | probably *beierolpium bornemisszai,* | 0 | 0 | 0 | 2 | 2 | | |
| *Bothriembryon* cf. bradshawi | 32844 | S73676 | | H015 | WPp | Relationship to *B.bradshawi* undetermined at present | 0 | 0 | 0 | 1 | 1 | yes | |
| *Bothriembryon* cf. indutus | 32462 | S73705 | | MN-003 | WPp | Relationship to *B.inductus* undetermined at present | 0 | 0 | | 1 | | yes | |
| *Bothriembryon* cf. indutus | 32481 | S73701 | | MN-009 | WPp | | 0 | 0 | 0 | 1 | 1 | yes | |
| *Bothriembryon* cf. indutus | 33455 | S73700 | | MN-025 | WPp | | 0 | 0 | 0 | 1 | 1 | No: rev red failed | |
| *Buddelundia* '5' (Huntly) | 31399 | TBC | | RH05B | For/LS | | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* '5' (Huntly) | 31558 | TBC | | H021 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 31609 | TBC | | H003 | For/LS | White spot | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 31637 | TBC | | H020 | For/LS | missing flagellum of right antenna | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 31651 | TBC | | H021 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 31663 | TBC | | H011 | For/LS | | 0 | 0 | 3 | 0 | 3 | | |
| *Buddelundia* '5' (Huntly) | 31696 | TBC | | H007 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 31732 | | | MC003 | For/LS | Small and rolled. Discarded | 1 | 0 | 1 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 31744 | TBC | | HC001 | For/LS | | 0 | 1 | 4 | 0 | 5 | | |
| *Buddelundia* '5' (Huntly) | 31802 | TBC | | HC003 | For/LS | | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* '5' (Huntly) | 31808 | TBC | | HC002 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 31813 | TBC | SJ5775 | MC005 | For/LS | | 25 | 0 | 0 | 0 | 25 | | |
| *Buddelundia* '5' (Huntly) | 32022 | TBC | | MN-027 | For/LS | Under banksia bark | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32126 | TBC | | RH30D | For/LS | Under log | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* '5' (Huntly) | 32210 | TBC | | MN-015 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32256 | TBC | | H002 | For/LS | | 0 | 1 | 2 | 2 | 5 | | |
| *Buddelundia* '5' (Huntly) | 32268 | TBC | | H012 | For/LS | Grass tree | 0 | 2 | 1 | 0 | 3 | | |
| *Buddelundia* '5' (Huntly) | 32271 | TBC | | H003 | For/LS | Grass tree. Male and female both small. Discarded | 0 | 1 | 1 | 1 | 3 | | |
| *Buddelundia* '5' (Huntly) | 32283 | | | H021 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32320 | TBC | | H006 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32321 | TBC | | H008 | For/LS | Grass tree | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32360 | TBC | | HR001 | For/LS | Good | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32518 | TBC | | MN-026 | WPp | | 0 | 2 | 2 | 0 | 4 | | |
| *Buddelundia* '5' (Huntly) | 32524 | TBC | | MN-015 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 32585 | TBC | | H021 | For/LS | Grass tree | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* '5' (Huntly) | 32768 | TBC | | RH20A | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32780 | TBC | | HR001 | WPp | | 0 | 1 | 1 | 2 | 4 | | |
| *Buddelundia* '5' (Huntly) | 32801 | TBC | | H010 | WPp | | 0 | 3 | 2 | 0 | 5 | | |
| *Buddelundia* '5' (Huntly) | 32820 | TBC | | H012 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32825 | TBC | | H008 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 32862 | TBC | | H004 | WPp | | 0 | 0 | 2 | 1 | 3 | | |
| *Buddelundia* '5' (Huntly) | 33134 | TBC | | H021 | WPp | | 0 | 2 | 3 | 1 | 6 | | |
| *Buddelundia* '5' (Huntly) | 33138 | TBC | | H006 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* '5' (Huntly) | 33145 | TBC | SJ5776 | MC001 | WPp | | 0 | 5 | 2 | 0 | 7 | | |
| *Buddelundia* '5' (Huntly) | 33152 | TBC | | HC002 | WPp | | 0 | 0 | 3 | 3 | 6 | | |
| *Buddelundia* '5' (Huntly) | 33158 | TBC | SJ5779 | MC005 | WPp | Males, females and juvs. | 13 | 0 | 0 | 0 | 13 | | |
| *Buddelundia* '5' (Huntly) | 33232 | | | H002 | For/LS | Under rocks (laterite). Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33234 | TBC | | H003 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33243 | | | H010 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33287 | | | H010 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33290 | | | H010 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33330 | TBC | | H002 | For/LS | Grass tree | 0 | 0 | 3 | 2 | 5 | | |
| *Buddelundia* '5' (Huntly) | 33333 | TBC | | H006 | For/LS | Grass tree | 0 | 2 | 3 | 1 | 6 | | |
| *Buddelundia* '5' (Huntly) | 33336 | TBC | SJ5773 | H020 | For/LS | Grass tree. Good condition | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33347 | TBC | | H007 | For/LS | Grass tree | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33348 | TBC | | H014 | For/LS | Under Jarrah bark | 0 | 1 | 1 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 33349 | | | H007 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33357 | TBC | | H021 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* '5' (Huntly) | 33366 | TBC | | H011 | For/LS | Grass tree | 0 | 0 | 2 | 0 | 2 | | |
| *Buddelundia* '5' (Huntly) | 33372 | TBC | | H021 | For/LS | Grass tree | 0 | 3 | 2 | 1 | 6 | | |
| *Buddelundia* '5' (Huntly) | 33376 | TBC | | H004 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Buddelundia* 'S' (Huntly) | 33383 | TBC | | HR001 | For/LS | Grass tree | 14 | 0 | 0 | 0 | 14 | | |
| *Buddelundia* 'S' (Huntly) | 33388 | TBC | | HR001 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Buddelundia* 'S' (Huntly) | 33392 | TBC | | MC002 | For/LS | Underlogs | 0 | 1 | 2 | 0 | 3 | | |
| *Buddelundia* 'S' (Huntly) | 33411 | | | MC004 | For/LS | Discarded | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia* 'S' (Huntly) | 33413 | TBC | | MC005 | For/LS | | 0 | 0 | 3 | 1 | 4 | | |
| *Buddelundia* 'S' (Huntly) | 33428 | TBC | | MC005 | For/LS | | 8 | 0 | 0 | 0 | 8 | | |
| *Buddelundia* 'S' (Huntly) | 33435 | TBC | SJ5770 | MC002 | For/LS | Good condition | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33437 | TBC | | HC002 | For/LS | | 0 | 2 | 2 | 0 | 4 | | |
| *Buddelundia* 'S' (Huntly) | 33439 | TBC | | HC003 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33441 | | | MC003 | For/LS | Discarded | 0 | 0 | 4 | 2 | 6 | | |
| *Buddelundia* 'S' (Huntly) | 33443 | TBC | | MC003 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33508 | TBC | | MN-026 | WPp | Good condition | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33553 | TBC | | H017 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33588 | TBC | | H011 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33593 | | | H010 | WPp | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33634 | TBC | | MC002 | WPp | | 5 | 5 | 0 | 0 | 10 | | |
| *Buddelundia* 'S' (Huntly) | 33639 | TBC | | MC004 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Buddelundia* 'S' (Huntly) | 33645 | TBC | | MC001 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33649 | TBC | | HC002 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33654 | TBC | | MC003 | WPp | | 0 | 0 | 1 | 3 | 4 | | |
| *Buddelundia* 'S' (Huntly) | 33666 | TBC | | MC005 | WPp | | 0 | 0 | 4 | 4 | 8 | | |
| *Buddelundia* 'S' (Huntly) | 33675 | TBC | | MN-026 | WPp | | 0 | 2 | 2 | 0 | 4 | | |
| *Buddelundia* 'S' (Huntly) | 33731 | TBC | | MN-009 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33741 | TBC | SJ5791 | MN-015 | WPp | | 9 | 0 | 0 | 0 | 9 | | |
| *Buddelundia* 'S' (Huntly) | 33784 | TBC | | MN-028 | WPp | | 0 | 0 | 2 | 2 | 4 | | |
| *Buddelundia* 'S' (Huntly) | 33835 | TBC | SJ5768 | MC002 | WPp | Light and dark | 45 | 0 | 0 | 0 | 45 | | |
| *Buddelundia* 'S' (Huntly) | 33838 | TBC | SJ5784 | MC003 | WPp | | 14 | 0 | 0 | 0 | 14 | | |
| *Buddelundia* 'S' (Huntly) | 33844 | TBC | | HC003 | WPp | Darker than usual | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* 'S' (Huntly) | 33853 | TBC | SJ5771 | GHD-TL5 | DP | 1 unrolled | 0 | 2 | 0 | 0 | 2 | | |
| *Buddelundia* 'S' (Huntly) | 33856 | TBC | | GHD-Site9 | DP | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 31390 | TBC | | RH30B | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 31406 | TBC | | RH20A | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 31524 | TBC | | MN-011 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 31625 | TBC | | H010 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 31678 | TBC | | H022 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 32309 | TBC | | H022 | For/LS | Grass tree | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia nitidissima* | 32316 | | | H009 | For/LS | Largish. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 32369 | TBC | | MN-008 | For/LS | Under logs | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 32759 | TBC | | RH10B | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 32795 | TBC | | H010 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Buddelundia nitidissima* | 32808 | TBC | | H022 | WPp | | 0 | 1 | 0 | 1 | 2 | | |
| *Buddelundia nitidissima* | 32822 | TBC | | H016 | WPp | | 0 | 0 | 3 | 1 | 4 | | |
| *Buddelundia nitidissima* | 32830 | TBC | | H005 | WPp | | 0 | 1 | 4 | 1 | 6 | | |
| *Buddelundia nitidissima* | 32846 | TBC | | H015 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33295 | | | H014 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33319 | TBC | | MC005 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Buddelundia nitidissima* | 33364 | TBC | | H010 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33370 | TBC | | H019 | For/LS | Grass tree | 0 | 1 | 0 | 1 | 2 | | |
| *Buddelundia nitidissima* | 33468 | TBC | | MN-008 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33630 | | | H012 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 33695 | TBC | | MN-018 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33707 | TBC | | MN-004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33711 | TBC | | MN-003 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 33715 | | | MN-008 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33750 | | | HR002 | WPp | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Buddelundia nitidissima* | 33759 | | | MN-019 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Buddelundia nitidissima* | 33854 | TBC | | GHD-TL5 | DP | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Buddelundia* sp. indet. | 32504 | TBC | | MN-015 | WPp | Poor condition | 1 | 0 | 0 | 0 | 1 | | |
| *Buddelundia* sp. indet. | 33560 | TBC | | H006 | WPp | Partly dehydrated | 0 | 1 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 31369 | TBC | | MN-025 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 31736 | TBC | | MC005 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 31809 | TBC | | HC002 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 32101 | TBC | | MN-003 | For/LS | In/under log. Yellow colour | 2 | 0 | 0 | 0 | 2 | | |
| *Calliuncus* sp. indet. | 32115 | TBC | | MN-023 | For/LS | Debris in tree stump | 2 | 0 | 0 | 0 | 2 | | |
| *Calliuncus* sp. indet. | 32248 | TBC | | H013 | For/LS | Under logs | 2 | 0 | 0 | 0 | 2 | | |
| *Calliuncus* sp. indet. | 32406 | TBC | | MN-027 | For/LS | Under logs | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 32523 | TBC | | MN-015 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 32787 | TBC | | H001 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 33365 | TBC | | H010 | For/LS | Damaged | 1 | 0 | 0 | 0 | 1 | | |
| *Calliuncus* sp. indet. | 33587 | TBC | | H011 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Cercophonius sulcatus* | 31382 | TBC | | MN-015 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 31701 | TBC | | H004 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 31995 | TBC | | MN-025 | For/LS | Under rock | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32068 | TBC | | MN-024 | For/LS | | 0 | 0 | 1 | 4 | 5 | | |
| *Cercophonius sulcatus* | 32108 | TBC | | MN-017 | For/LS | Under rock beneath allocasuarina | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32441 | TBC | | MN-022 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32482 | TBC | | MN-009 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Cercophonius sulcatus* | 32494 | TBC | | MN-028 | WPp | | 0 | 0 | 5 | 3 | 8 | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Cercophonius sulcatus* | 32700 | TBC | | RH10A | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32720 | TBC | | RH10C | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 32802 | TBC | | H010 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32827 | TBC | | H008 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 32839 | TBC | | H009 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 32857 | TBC | | H013 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33153 | TBC | | HC002 | WPp | | 0 | 0 | 0 | 3 | 3 | | |
| *Cercophonius sulcatus* | 33157 | TBC | | MC005 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33458 | TBC | | MN-025 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33531 | TBC | | H020 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 33580 | TBC | | H016 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33594 | TBC | | H010 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33595 | TBC | | H010 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 33601 | TBC | | H002 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33607 | TBC | | H004 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33609 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 33646 | TBC | | HC002 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Cercophonius sulcatus* | 33655 | TBC | | MC003 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33664 | TBC | | MC005 | WPp | | 0 | 0 | 0 | 5 | 5 | | |
| *Cercophonius sulcatus* | 33692 | TBC | | MN-017 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33782 | TBC | | MN-028 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Cercophonius sulcatus* | 33849 | TBC | | GHD-oppMN | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Cercophonius sulcatus* | 34188 | TBC | | MC003 | WPp | | 0 | 0 | 1 | 2 | 3 | | |
| *Cercophonius sulcatus* | 34237 | TBC | | MN-009 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| cf.^Westralaoma sp. indet. | 32716 | S73679 | | RH30C | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| cf.^Westralaoma sp. indet. | 33530 | S73674 | | H008 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Charopidae sp. indet. | 32431 | S73678 | | MN-020 | WPp | too small to ID | 1 | | 0 | 0 | | | |
| Charopidae sp. indet. | 32717 | S73680 | | RH30C | WPp | tiny | 1 | 0 | 0 | 0 | 1 | | |
| Charopidae sp. indet. | 33484 | S73677 | | MN-006 | WPp | very small, too small to ID | 1 | 0 | 0 | 0 | 1 | | |
| Charopidae sp. indet. | 33521 | S73675 | | H018 | WPp | very small | 1 | 0 | 0 | 0 | 1 | | |
| Charopidae sp. indet. | 33529 | S73673 | | H008 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Chernetidae 'boddington' | 32220 | TBC | | MN-006 | For/LS | Grass tree husk | 0 | 3 | 2 | 0 | 5 | | |
| Chernetidae 'boddington' | 32221 | TBC | | MN-007 | For/LS | Under grass tree | 0 | 0 | 1 | 1 | 2 | | |
| rnetidae 'boddington' | 32424 | TBC | | MN-018 | For/LS | Grass tree | 0 | 2 | 2 | 10 | 14 | | |
| rnetidae 'boddington' | 32741 | TBC | | MN-018 | For/LS | ex-32424 | 0 | 1 | 1 | 0 | 2 | | |
| Chernetidae sp. indet. | 34189 | TBC | | MN-017 | For/LS | Grass tree, Probably Chernetidae 'boddington' | 0 | 0 | 0 | 1 | 1 | | |
| Dalodesmidae 'Phoenix0038' | 32083 | TBC | | MN-012 | For/LS | Debris in tree stump | 0 | 0 | 0 | 1 | 1 | yes | |
| Dalodesmidae 'Phoenix0038' | 33384 | TBC | | HR002 | For/LS | small, pink | 1 | 0 | 1 | 0 | 2 | yes | |
| Diplopoda sp. indet. | 31623 | TBC | | H009 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Diplopoda sp. indet. | 31797 | TBC | | MC001 | For/LS | | 31 | 0 | 0 | 0 | 31 | | |
| Diplopoda sp. indet. | 31994 | TBC | | MN-025 | For/LS | Under rock | 3 | 0 | 0 | 0 | 3 | | |
| Diplopoda sp. indet. | 32009 | TBC | | MN-008 | For/LS | Under granite | 6 | 0 | 0 | 0 | 6 | | |
| Diplopoda sp. indet. | 32065 | TBC | | MN-024 | For/LS | | 5 | | 0 | 0 | | | |
| Diplopoda sp. indet. | 32745 | TBC | | MN-027 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Eucyrtops latior* | 31363 | TBC | | MN-009 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31422 | TBC | | MN-012 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops latior* | 31423 | TBC | | MN-012 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31434 | TBC | | MN-018 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops latior* | 31436 | TBC | | MN-018 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31439 | TBC | | MN-018 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops latior* | 31443 | TBC | | MN-021 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31449 | TBC | | MN-028 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops latior* | 31452 | TBC | | MN-014 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops latior* | 31475 | TBC | | MN-025 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops latior* | 31477 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops latior* | 31478 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31480 | TBC | | MN-022 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31525 | TBC | | MN-011 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops latior* | 31528 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops latior* | 31529 | TBC | | MN-011 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops latior* | 31537 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31438 | TBC | | MN-007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31451 | TBC | | MN-020 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31453 | TBC | | MN-007 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0003' | 31464 | TBC | | MN-020 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0003' | 31466 | TBC | | MN-003 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31473 | TBC | | MN-002 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops* 'Phoenix0003' | 31575 | TBC | | H011 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31666 | TBC | | H001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31703 | TBC | | RHopp01 | BE | ~92% similar to *Bungulla harrisonae* from John Forrest NP | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0003' | 31815 | TBC | | MC005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Eucyrtops* 'Phoenix0003' | 32381 | TBC | | MN-007 | For/LS | Under deep buried rock | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0003' | 33469 | TBC | | MN-016 | WPp | very flat carapace | 0 | 1 | 0 | 0 | 1 | No | |
| *Eucyrtops* 'Phoenix0029' | 31446 | TBC | | MN-006 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0029' | 31459 | TBC | | MN-005 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Eucyrtops* 'Phoenix0029' | 31467 | TBC | | MN-002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0030' | 31421 | TBC | | MN-012 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0030' | 31424 | TBC | | MN-012 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0032' | 31737 | TBC | | MC001 | BE | | 0 | 0 | 0 | 0 | 0 | yes | |
| *Eucyrtops* 'Phoenix0032' | 31738 | TBC | | MC001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0032' | 31739 | TBC | | MC001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'Phoenix0032' | 32607 | TBC | | HR002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0032' | 33477 | TBC | | MN-027 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Eucyrtops* 'Phoenix0032' | 33478 | TBC | | MN-027 | WPp | | 0 | 0 | 0 | 1 | 1 | No | |
| *Eucyrtops* 'Phoenix0033' | 31415 | TBC | | RH30C | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31416 | TBC | | RH30B | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31417 | TBC | | RH30D | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31576 | TBC | | H011 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31616 | TBC | | H007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31728 | TBC | | MC005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'Phoenix0033' | 31821 | TBC | | MC004 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'WorsleyDNA06' | 31561 | TBC | | H008 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'WorsleyDNA06' | 31563 | TBC | | H008 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'WorsleyDNA06' | 31565 | TBC | | H010 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'WorsleyDNA06' | 31571 | TBC | | H016 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'WorsleyDNA06' | 31572 | TBC | | H016 | BE | Damaged | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'WorsleyDNA06' | 31573 | TBC | | H016 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Eucyrtops* 'WorsleyDNA06' | 31582 | TBC | | H015 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Eucyrtops* 'WorsleyDNA06' | 31583 | TBC | | H015 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Euoplos 'Phoenix0011' | 31430 | TBC | | MN-016 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| Euoplos 'Phoenix0011' | 31465 | TBC | | MN-025 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| Euoplos 'Phoenix0012' | 31598 | TBC | | H013 | BE | Biting leg of 31599 | 0 | 0 | 1 | 0 | 1 | yes | |
| Euoplos 'Phoenix0012' | 31600 | TBC | | H013 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Eupnoi sp. indet. | 31407 | TBC | | RH20A | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 31746 | TBC | | HC001 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| Eupnoi sp. indet. | 32208 | TBC | | MN-005 | For/LS | Under logs. Badly damaged | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 32455 | TBC | | MN-011 | WPp | | 2 | 0 | | 0 | | | |
| Eupnoi sp. indet. | 32465 | TBC | | MN-003 | WPp | | 3 | | 0 | 0 | | | |
| Eupnoi sp. indet. | 32475 | TBC | | MN-021 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 32496 | TBC | | MN-028 | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| Eupnoi sp. indet. | 32517 | TBC | | MN-026 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| Eupnoi sp. indet. | 32701 | TBC | | RH10A | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 32705 | TBC | | RH30D | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Eupnoi sp. indet. | 32712 | TBC | | RH30C | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 32722 | TBC | | RH10C | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| Eupnoi sp. indet. | 32725 | TBC | | RH05B | WPp | 2 missing all legs | 3 | 0 | 0 | 0 | 3 | | |
| Eupnoi sp. indet. | 32792 | TBC | | H007 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33147 | TBC | | MC001 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33449 | TBC | | H021 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Eupnoi sp. indet. | 33465 | TBC | | MN-008 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33490 | TBC | | MN-017 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Eupnoi sp. indet. | 33524 | TBC | | H008 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33535 | TBC | | H020 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33561 | TBC | | H007 | WPp | Missing legs | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33600 | TBC | | H002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33604 | TBC | | H004 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33629 | TBC | | H012 | WPp | missing legs | 1 | 0 | 0 | 0 | 1 | | |
| Eupnoi sp. indet. | 33667 | TBC | | MC005 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Geogarypus sp. indet. | 33766 | TBC | | MN-021 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Geogarypus taylori* | 32095 | TBC | | MN-003 | For/LS | In/under log. Large and flat | 0 | 1 | 0 | 0 | 1 | | |
| *Geogarypus taylori* | 32511 | TBC | | MN-010 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Geogarypus taylori* | 34199 | TBC | | RH30C | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Geogarypus taylori* | 34200 | TBC | | MN-020 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| Idiopidae sp. indet. | 31364 | TBC | | MN-009 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31379 | TBC | | MN-013 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31383 | TBC | | MN-015 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| Idiopidae sp. indet. | 31384 | TBC | | MN-013 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31385 | TBC | | MN-026 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31418 | TBC | | MN-024 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31419 | TBC | | MN-024 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31427 | TBC | | MN-026 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31428 | TBC | | MN-010 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31445 | TBC | | MN-013 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31472 | TBC | | MN-010 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31474 | TBC | | MN-010 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31479 | TBC | | MN-022 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| Idiopidae sp. indet. | 31481 | TBC | | MN-017 | BE | | 0 | 0 | 1 | 0 | 1 | fail | |
| Idiopidae sp. indet. | 31483 | TBC | | MN-017 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31566 | TBC | | H018 | BE | | 0 | 0 | 1 | 0 | 1 | No | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Idiopidae sp. indet. | 31585 | TBC | | H019 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31586 | TBC | | H019 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31587 | TBC | | H019 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31591 | TBC | | H003 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| Idiopidae sp. indet. | 31602 | TBC | | H005 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| Idiopidae sp. indet. | 31631 | TBC | | H004 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| Idiopidae sp. indet. | 31692 | TBC | | H003 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| Idiopidae sp. indet. | 31693 | TBC | | H003 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| Idiopidae sp. indet. | 33754 | | | MN-002 | WPp | missing abdomen, Discarded. | 0 | 0 | 0 | 1 | 1 | | |
| *Idiosoma* jarrah | 31357 | TBC | | H014 | BE | On display at Boola Bardip | 0 | 0 | 1 | 0 | 1 | | |
| *Idiosoma* jarrah | 31471 | TBC | | MN-002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31560 | TBC | | H008 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Idiosoma* 'Phoenix0035' | 31569 | TBC | | H006 | BE | | 0 | 0 | 0 | 1 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31574 | TBC | | H007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31577 | TBC | | H001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31599 | TBC | | H013 | BE | Back left leg bitten by 31598 | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31643 | TBC | | H021 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31753 | TBC | | HC001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31796 | TBC | | MC004 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31799 | TBC | | HC002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31800 | TBC | | HC002 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Idiosoma* 'Phoenix0035' | 31824 | TBC | | HC003 | BE | | 0 | 0 | 0 | 1 | 1 | yes | |
| *Idiosoma* 'Phoenix0035' | 31825 | TBC | | HC003 | BE | | 0 | 0 | 0 | 0 | 0 | | |
| *Idiosoma* 'Phoenix0035' | 33378 | TBC | | HR001 | BE | 8cm, closed lid, surrounded by leaves | 1 | 0 | 1 | 0 | 2 | yes | |
| *Idiosoma* 'WAM T129362' | 31365 | TBC | | MN-019 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 31433 | TBC | | MN-004 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 31441 | TBC | | MN-008 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 31444 | TBC | | MN-021 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 31526 | TBC | | MN-022 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 31733 | TBC | | MC002 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Idiosoma* 'WAM T129362' | 33462 | TBC | | MN-008 | WPp | thick setae | 0 | 1 | 0 | 0 | 1 | yes | |
| *Isometroides* 'jarrah' | 33866 | TBC | | GHD-TL9 | DP | | 0 | 0 | 1 | 0 | 1 | | |
| *Karaops ellenae* | 31366 | TBC | | MN-006 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Karaops ellenae* | 31426 | TBC | | MN-012 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Karaops ellenae* | 32123 | TBC | | MN-001 | For/LS | Under rock on granite outcrop | 0 | 1 | 0 | 0 | 1 | | |
| *Karaops ellenae* | 32142 | TBC | | RH10C | For/LS | Under laterite rock on laterite | 0 | 0 | 0 | 1 | 1 | | |
| *Karaops ellenae* | 32335 | TBC | | H022 | For/LS | Under logs | 0 | 1 | 0 | 0 | 1 | | |
| *Karaops jarrit* | 31689 | TBC | | H011 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Karaops jarrit* | 31694 | TBC | | H007 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Kwonkan* 'Phoenix0005' | 33736 | TBC | | MN-006 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Kwonkan* 'Phoenix0005' | 34213 | TBC | | MN-006 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Kwonkan* 'Phoenix0008' | 33125 | TBC | | H019 | WPp | | 0 | 1 | 0 | 0 | 1 | No | |
| *Laevophiloscia* '1' | 31360 | | | MN-009 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31362 | | | MN-005 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31368 | | | MN-021 | For/LS | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31395 | | | RH10A | For/LS | Discarded | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '1' | 31402 | TBC | | RH10C | For/LS | | 0 | 1 | 4 | 0 | 5 | | |
| *Laevophiloscia* '1' | 31487 | TBC | | RH30D | For/LS | | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '1' | 31556 | | | MN-023 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31608 | TBC | | H003 | For/LS | | 0 | 2 | 1 | 0 | 3 | | |
| *Laevophiloscia* '1' | 31621 | TBC | | H009 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 31626 | | | H010 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31630 | | | H001 | For/LS | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31635 | | | H020 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31640 | | | H008 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31650 | | | H021 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31664 | | | H011 | For/LS | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31673 | TBC | | H016 | For/LS | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31677 | TBC | | H022 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 31695 | TBC | | H007 | For/LS | poor specimen | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 31705 | | | H006 | For/LS | Gravid. Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 31710 | TBC | | H017 | For/LS | Unusual, long and thin with long antennae. Missing appendages, falling apart. | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31798 | | | MC001 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31803 | TBC | | HC003 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 31806 | TBC | | HC002 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 31814 | | | MC005 | For/LS | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32001 | | | MN-016 | For/LS | Under logs. Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32017 | | | MN-006 | For/LS | Leaf Litter. Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32072 | TBC | | RH20A | For/LS | Under leaf litter. Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32073 | TBC | | RH10A | For/LS | | 0 | 1 | 1 | 0 | 2 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Laevophiloscia* '1' | 32089 | TBC | | RH20B | For/LS | Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32094 | | | MN-023 | For/LS | Under log. Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32117 | TBC | | MN-023 | For/LS | Debris in tree stump. Very smooth, no setae. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32125 | | | RH30D | For/LS | Under log. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32127 | | | RH30C | For/LS | Leaf litter at base of tree. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32137 | TBC | | RH30B | For/LS | Under log | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32143 | | | RH10C | For/LS | Leaf litter. Gravid. Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32211 | | | MN-006 | For/LS | Under logs/bark. Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32227 | | | MN-028 | For/LS | Jarrah log litter. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32229 | TBC | | MN-005 | For/LS | Burnt tree hollow. Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32232 | | | H003 | For/LS | Under logs. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32235 | | | H001 | For/LS | Under logs/bark. Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32240 | TBC | | H002 | For/LS | Under rocks (laterite). Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32244 | TBC | | H016 | For/LS | Under log. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32252 | | | H001 | For/LS | Under rocks (laterite). Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32255 | | | H002 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32267 | | | H015 | For/LS | Under logs. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32282 | TBC | | H021 | For/LS | Gravid | 1 | 0 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32290 | TBC | | H007 | For/LS | Under logs. 2 Gravid, 1 with parasitic insect larvae | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '1' | 32294 | TBC | | H010 | For/LS | Under logs. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32301 | | | H014 | For/LS | Under leaf litter. Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32302 | | | H015 | For/LS | Under rocks (laterite). Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32307 | | | H005 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32319 | TBC | | H006 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32325 | | | H020 | For/LS | Under rocks (laterite). Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32330 | | | H009 | For/LS | Under logs. Gravid. Discarded | 0 | 0 | 5 | 0 | 5 | | |
| *Laevophiloscia* '1' | 32338 | | | H006 | For/LS | Under logs. Discarded | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32350 | | | H003 | For/LS | Under rocks (laterite). Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32357 | | | H015 | For/LS | Under logs/bark. Gravid Discarded | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '1' | 32366 | | | MN-028 | For/LS | Under logs. Discarded | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '1' | 32396 | | | MN-020 | For/LS | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32420 | TBC | | MN-026 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32429 | TBC | | MN-025 | For/LS | Under logs | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32434 | TBC | | MN-001 | WPp | Gravid, 1 antenna missing | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32530 | | | RH20C | WPp | Good condition, Discarded | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32555 | TBC | | MN-005 | WPp | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32563 | TBC | | MN-019 | WPp | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32702 | TBC | | RH10A | WPp | | 0 | 4 | 1 | 0 | 5 | | |
| *Laevophiloscia* '1' | 32706 | TBC | | RH30D | WPp | One very small | 0 | 3 | 1 | 0 | 4 | | |
| *Laevophiloscia* '1' | 32715 | TBC | | RH30C | WPp | One very small | 0 | 1 | 2 | 0 | 3 | | |
| *Laevophiloscia* '1' | 32721 | TBC | | RH10C | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32723 | TBC | | RH05C | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32724 | TBC | | RH10B | WPp | | 0 | 1 | 5 | 0 | 6 | | |
| *Laevophiloscia* '1' | 32726 | | | RH05B | WPp | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 32761 | TBC | | RH10B | WPp | | 0 | 2 | 8 | 0 | 10 | | |
| *Laevophiloscia* '1' | 32764 | TBC | | RH10A | WPp | | 0 | 1 | 8 | 0 | 9 | | |
| *Laevophiloscia* '1' | 32769 | TBC | | RH20B | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32770 | | | RH30D | WPp | Discarded | 33 | 0 | 0 | 0 | 33 | | |
| *Laevophiloscia* '1' | 32771 | TBC | | RH20C | WPp | Good condition | 0 | 1 | 5 | 0 | 6 | | |
| *Laevophiloscia* '1' | 32772 | TBC | | RH30C | WPp | | 0 | 0 | 7 | 0 | 7 | | |
| *Laevophiloscia* '1' | 32774 | TBC | | RH30B | WPp | | 0 | 0 | 8 | 0 | 8 | | |
| *Laevophiloscia* '1' | 32781 | TBC | | HR002 | WPp | Poor condition | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 32786 | | | H001 | WPp | Discarded | 0 | 0 | 2 | 2 | 4 | | |
| *Laevophiloscia* '1' | 32794 | TBC | | H010 | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 32800 | TBC | | H010 | WPp | Good condition | 0 | 2 | 16 | 0 | 18 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Laevophiloscia* '1' | 32805 | TBC | | H022 | WPp | | 0 | 0 | 13 | 0 | 13 | | |
| *Laevophiloscia* '1' | 32824 | TBC | | H008 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 32831 | TBC | | H005 | WPp | | 0 | 1 | 0 | 1 | 2 | | |
| *Laevophiloscia* '1' | 32835 | TBC | | H020 | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 32845 | TBC | | H015 | WPp | | 0 | 0 | 8 | 0 | 8 | | |
| *Laevophiloscia* '1' | 32850 | TBC | | H003 | WPp | | 19 | 0 | 0 | 0 | 19 | | |
| *Laevophiloscia* '1' | 32856 | TBC | | H013 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33123 | TBC | | H014 | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 33135 | TBC | | H021 | WPp | | 0 | 0 | 17 | 0 | 17 | | |
| *Laevophiloscia* '1' | 33143 | TBC | | MC004 | WPp | Good condition | 0 | 0 | 5 | 0 | 5 | | |
| *Laevophiloscia* '1' | 33151 | TBC | | HC002 | WPp | | 0 | 5 | 9 | 0 | 14 | | |
| *Laevophiloscia* '1' | 33206 | TBC | | RH05A | WPp | female (antennae missing) | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33207 | TBC | | RH05A | WPp | 1 Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33208 | TBC | | RH05B | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33215 | TBC | | RH10A | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 33219 | | | RH10C | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33221 | TBC | | RH20A | WPp | 18 best specimens retained. | 18 | 0 | 0 | 0 | 18 | | |
| *Laevophiloscia* '1' | 33222 | TBC | | RH20B | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '1' | 33229 | | | HR002 | WPp | Discarded | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '1' | 33238 | | | H006 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33239 | | | H007 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33293 | | | H011 | WPp | Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33302 | TBC | | H021 | For/LS | Ex PES 33357 | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33314 | | | MC004 | For/LS | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33321 | TBC | | MC005 | WPp | | 0 | 4 | 0 | 0 | 4 | | |
| *Laevophiloscia* '1' | 33322 | TBC | | MC005 | WPp | | 0 | 0 | 28 | 0 | 28 | | |
| *Laevophiloscia* '1' | 33339 | TBC | | H022 | For/LS | Under bark. Poor condition, 1 female with larval parasite in marsupium | 0 | 1 | 2 | 0 | 3 | | |
| *Laevophiloscia* '1' | 33342 | | | H014 | For/LS | Under rocks (laterite). Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33380 | | | HR002 | For/LS | Under rocks/logs. With mankas. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33398 | | | MC004 | For/LS | Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33404 | | | MC005 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33407 | | | HC003 | For/LS | Discarded | 0 | 1 | 4 | 0 | 5 | | |
| *Laevophiloscia* '1' | 33414 | | | MC005 | For/LS | Gravid, discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33419 | | | HC002 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33423 | | | MC004 | For/LS | 1 female with parastic insect larvae. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33446 | TBC | | H021 | WPp | | 0 | 2 | 2 | 0 | 4 | | |
| *Laevophiloscia* '1' | 33456 | TBC | | MN-025 | WPp | | 0 | 1 | 2 | 0 | 3 | | |
| *Laevophiloscia* '1' | 33467 | | | MN-008 | WPp | Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33471 | TBC | | MN-016 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33482 | | | MN-007 | WPp | Gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33496 | TBC | | MN-004 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33516 | TBC | | H022 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Laevophiloscia* '1' | 33543 | TBC | | H015 | WPp | Good condition | 0 | 2 | 0 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33548 | TBC | | H014 | WPp | | 0 | 3 | 3 | 0 | 6 | | |
| *Laevophiloscia* '1' | 33573 | TBC | | H001 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33599 | TBC | | H002 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33605 | TBC | | H004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33610 | TBC | | H009 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33613 | | | H003 | WPp | Discarded | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33640 | TBC | | MC004 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33644 | TBC | | MC001 | WPp | Good condition | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33648 | TBC | | HC002 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33652 | TBC | | HC003 | WPp | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33665 | TBC | | MC005 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '1' | 33685 | TBC | | MN-001 | WPp | Mostly good condition | 0 | 1 | 3 | 0 | 4 | | |
| *Laevophiloscia* '1' | 33694 | | | MN-018 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33763 | TBC | | MN-021 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '1' | 33783 | TBC | | MN-028 | WPp | | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '1' | 33845 | TBC | | HC003 | WPp | | 0 | 0 | 6 | 0 | 6 | | |
| *Laevophiloscia* '2' | 31371 | | | MN-009 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31381 | | | MN-014 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31396 | TBC | | RH05B | For/LS | Gravid | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '2' | 31398 | | | RH05B | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31403 | TBC | | RH30C | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31409 | TBC | | RH20B | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31461 | TBC | | MN-015 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31505 | TBC | | MN-017 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31517 | TBC | | MN-022 | For/LS | Dark form | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31521 | | | MN-011 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31611 | TBC | | H014 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Laevophiloscia* '2' | 31684 | TBC | | H013 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 31819 | TBC | | MC002 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32066 | TBC | | MN-024 | For/LS | | 0 | 2 | 0 | 0 | 2 | | |
| *Laevophiloscia* '2' | 32074 | TBC | | RH10A | For/LS | Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 32114 | TBC | | MN-012 | For/LS | Under bark and leaf litter. Female with mancas. Discarded | 0 | 0 | 1 | 10 | 11 | | |
| *Laevophiloscia* '2' | 32135 | | | RH05B | For/LS | Leaf litter. Discarded | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '2' | 32141 | | | RH05B | For/LS | Leaf litter. Discarded | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '2' | 32199 | TBC | | MN-010 | For/LS | Grass tree leaves | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32303 | | | H017 | For/LS | Under logs. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32343 | TBC | | H020 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32378 | TBC | | MN-009 | For/LS | Under logs/rocks. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32392 | | | MN-010 | For/LS | Under rocks. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32404 | | | MN-010 | For/LS | Under logs. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32439 | TBC | | MN-023 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32488 | TBC | | MN-009 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '2' | 32513 | TBC | | MN-010 | WPp | Mancas discarded | 0 | 1 | 2 | 4 | 7 | | |
| *Laevophiloscia* '2' | 32546 | TBC | | MN-001 | WPp | good cond. | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32608 | TBC | | MN-013 | WPp | site was burnt approximately halfway (3 weeks) into phase 2 | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '2' | 32704 | TBC | | RH05A | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '2' | 32707 | TBC | | RH20B | WPp | Female no antennae | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '2' | 32743 | TBC | | MN-024 | WPp | | 0 | 0 | 1 | 2 | 3 | | |
| *Laevophiloscia* '2' | 32756 | TBC | | MN-010 | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Laevophiloscia* '2' | 32762 | TBC | | RH05B | WPp | | 0 | 1 | 5 | 0 | 6 | | |
| *Laevophiloscia* '2' | 32766 | TBC | | RH20A | WPp | 21 Best specimens retained | 50 | 0 | 0 | 0 | 50 | | |
| *Laevophiloscia* '2' | 32777 | TBC | | RH05C | WPp | | 0 | 0 | 3 | 2 | 5 | | |
| *Laevophiloscia* '2' | 32819 | TBC | | H012 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 32841 | TBC | | H009 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Laevophiloscia* '2' | 33140 | TBC | | H006 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33159 | TBC | | MC005 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33202 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33209 | TBC | | RH05C | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33211 | TBC | | RH10A | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33213 | TBC | | RH10A | WPp | | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '2' | 33217 | TBC | | RH10B | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33218 | TBC | | RH10B | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33220 | | | RH10C | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33223 | | | RH20C | WPp | ok condition. Discarded | 0 | 0 | 5 | 0 | 5 | | |
| *Laevophiloscia* '2' | 33224 | TBC | | RH30B | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33225 | TBC | | RH30C | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33226 | TBC | | RH30D | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33228 | | | RH30D | WPp | Discarded | 0 | 1 | 4 | 0 | 5 | | |
| *Laevophiloscia* '2' | 33230 | | | H001 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33233 | TBC | | H003 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33235 | | | H005 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33240 | TBC | | H008 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33241 | | | H009 | WPp | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33288 | | | H010 | WPp | gravid. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33300 | TBC | | H020 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33301 | TBC | | H021 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33303 | TBC | | H021 | WPp | | 0 | 0 | 4 | 0 | 4 | | |
| *Laevophiloscia* '2' | 33305 | TBC | | H022 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33307 | TBC | | H022 | WPp | | 0 | 0 | 5 | 0 | 5 | | |
| *Laevophiloscia* '2' | 33308 | TBC | | HC002 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33310 | TBC | | HC003 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33315 | | | MC004 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33329 | TBC | | H005 | For/LS | Under rock. 1 Pereopod detached | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33358 | TBC | | H021 | For/LS | 3 pereopods missing | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33386 | TBC | | HR002 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33387 | | | HR001 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33403 | | | HC002 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33487 | TBC | | MN-013 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33523 | TBC | | H018 | WPp | 1 male (1 antenna missing), 1 female both antennae missing. | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33532 | TBC | | H020 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '2' | 33559 | | | H006 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Laevophiloscia* '2' | 33589 | TBC | | H011 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '2' | 33596 | TBC | | H010 | WPp | Gravid and large | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33676 | TBC | | MN-026 | WPp | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33690 | TBC | | MN-017 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33719 | TBC | | MN-022 | WPp | Right antenna missing | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* '2' | 33728 | TBC | | RH05A | WPp | | 0 | 5 | 2 | 0 | 7 | | |
| *Laevophiloscia* '2' | 33729 | TBC | | RH10A | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Laevophiloscia* '2' | 33746 | TBC | | MN-015 | WPp | | 0 | 0 | 3 | 1 | 4 | | |
| *Laevophiloscia* '2' | 33774 | TBC | | MN-014 | WPp | | 2 | 0 | 0 | 2 | 4 | | |
| *Laevophiloscia* '2' | 33833 | TBC | | MC002 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Laevophiloscia* '2' | 33839 | | | MC003 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* sp. indet. | 32075 | | | RH10A | For/LS | Tiny and pale coloured. Mancas. Discarded | 0 | 0 | 0 | 26 | 26 | | |
| *Laevophiloscia* sp. indet. | 32379 | | | MN-009 | For/LS | Under logs/rocks. Mancas. Discarded | 0 | 0 | 0 | 4 | 4 | | |
| *Laevophiloscia* sp. indet. | 32435 | | | MN-001 | WPp | Discarded | 0 | 0 | 0 | 2 | 2 | | |
| *Laevophiloscia* sp. indet. | 33362 | | | H013 | For/LS | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Laevophiloscia* sp. indet. | 33425 | | | MC005 | For/LS | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Laevophiloscia* sp. indet. | 33635 | | | MC002 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Laevophiloscia* sp. indet. | 33680 | | | MN-025 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Laevophiloscia* sp. indet. | 33705 | | | MN-011 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Lagynochthonius australicus* | 32449 | TBC | | MN-022 | WPp | | 0 | 0 | | 3 | | | |
| *Lagynochthonius australicus* | 32718 | TBC | | RH30B | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 32750 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 32753 | TBC | | MN-010 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 33663 | TBC | | MC003 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 33697 | TBC | | MN-011 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 33770 | TBC | | MN-007 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lagynochthonius australicus* | 34198 | TBC | | MN-023 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Lychas* 'austroccidentalis' | 31401 | TBC | | RH10C | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Lychas* 'austroccidentalis' | 31504 | TBC | | MN-017 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Lychas* 'austroccidentalis' | 32010 | TBC | | MN-014 | For/LS | Grass tree | 0 | 0 | 0 | 1 | 1 | | |
| *Lychas* 'austroccidentalis' | 32336 | TBC | | H020 | For/LS | Under Jarrah bark | 0 | 0 | 1 | 0 | 1 | | |
| *Lychas* 'austroccidentalis' | 32397 | TBC | | MN-020 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Lychas* 'austroccidentalis' | 32776 | TBC | | RH05C | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Lychas* 'austroccidentalis' | 32796 | TBC | | H010 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Lychas* 'austroccidentalis' | 33843 | TBC | | MC003 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Missulena* 'MYG198' | 31570 | TBC | | H016 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Nunciella* sp. indet. | 32510 | TBC | | MN-015 | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Occipperipatoides gilesii* | 31639 | TBC | | H008 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Occipperipatoides gilesii* | 31661 | TBC | | H012 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Occipperipatoides gilesii* | 31675 | TBC | | H016 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Occipperipatoides gilesii* | 31820 | TBC | | MC004 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Occipperipatoides gilesii* | 32087 | TBC | | RH20B | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Occipperipatoides gilesii* | 32113 | TBC | | MN-012 | For/LS | Under bark and leaf litter | 1 | 0 | 0 | 0 | 1 | | |
| Olpiidae sp. indet. | 33726 | TBC | | MN-012 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| Opiliones sp. indet. | 32610 | TBC | | MN-013 | WPp | site was burnt approximately halfway (3 weeks) into phase 2 | 6 | 0 | 0 | 0 | 6 | | |
| Opiliones sp. indet. | 32775 | TBC | | RH30B | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Opiliones sp. indet. | 33444 | TBC | | MC003 | For/LS | | 4 | 0 | 0 | 0 | 4 | | |
| Opiliones sp. indet. | 33777 | TBC | | MN-014 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Oratemnus* sp. indet. | 33445 | TBC | | H021 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Oratemnus* sp. indet. | 34176 | TBC | | H019 | For/LS | Grass tree | 0 | 0 | 1 | 0 | 1 | | |
| | 32086 | TBC | | MN-011 | For/LS | Elongated, full pigment. Prominent eyes. Unusual. | 1 | 0 | 0 | 0 | 1 | | |
| | 32547 | TBC | | MN-001 | WPp | wide, some pigment. Usual type. | 0 | 0 | 2 | 0 | 2 | | |
| | 32548 | TBC | | MN-001 | WPp | narrow, full pigment. Small. | 0 | 1 | 0 | 0 | 1 | | |
| | 32565 | TBC | | MN-022 | WPp | elongated, pigmented, eyes. | 1 | 0 | 0 | 0 | 1 | | |
| Paraplatyarthridae sp. indet. | 32571 | TBC | | MN-025 | WPp | 1 female? Missing appendages, karri forest type? | 0 | 0 | 1 | 0 | 1 | | |
| Paraplatyarthrus sp. indet. | 33522 | TBC | | H018 | WPp | Very wide and pale. Left uropod exopdite and 1 pereopod | 0 | 1 | 0 | 0 | 1 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | missing, otherwise good. | | | | | | | |
| *Philosciidae* 's' | 31996 | TBC | | MN-025 | For/LS | Under rock | 0 | 1 | 0 | 0 | 1 | | |
| *Philosciidae* 's' | 32315 | | | H009 | For/LS | Gravid, Poor. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Philosciidae* 's' | 32448 | TBC | | MN-022 | WPp | | 0 | 1 | 0 | 3 | 4 | | |
| *Philosciidae* 's' | 32460 | TBC | | MN-011 | WPp | | 0 | 0 | 2 | 1 | 3 | | |
| *Philosciidae* 's' | 32472 | | | MN-005 | WPp | 1 Discarded | 5 | 0 | 0 | 0 | 5 | | |
| *Philosciidae* 's' | 32477 | TBC | | MN-021 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Philosciidae* 's' | 32493 | TBC | | MN-014 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Philosciidae* 's' | 32497 | TBC | | MN-028 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Philosciidae* 's' | 32550 | TBC | | MN-001 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Philosciidae* 's' | 32551 | TBC | | MN-004 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Philosciidae* 's' | 32560 | TBC | | MN-015 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Philosciidae* 's' | 32566 | TBC | | MN-022 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Philosciidae* 's' | 32572 | TBC | | MN-025 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Philosciidae* 's' | 32747 | TBC | | MN-027 | WPp | | 0 | 2 | 1 | 0 | 3 | | |
| *Philosciidae* 's' | 33453 | | | MN-002 | WPp | Good condition. Discarded | 0 | 0 | 3 | 0 | 3 | | |
| *Philosciidae* 's' | 33476 | TBC | | MN-027 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Philosciidae* 's' | 33488 | TBC | | MN-019 | WPp | | 0 | 2 | 0 | 1 | 3 | | |
| *Philosciidae* 's' | 33495 | TBC | | MN-012 | WPp | | 5 | 0 | 0 | 0 | 5 | | |
| *Philosciidae* 's' | 33503 | TBC | | MN-018 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Philosciidae* 's' | 33510 | TBC | | MN-017 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Philosciidae* 's' | 33684 | TBC | | MN-016 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Philosciidae* 's' | 33687 | TBC | | MN-005 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Philosciidae* 's' | 33724 | TBC | | MN-012 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Philosciidae* 's' | 33739 | | | MN-006 | WPp | Discarded | 0 | 1 | 1 | 0 | 2 | | |
| *Philosciidae* 's' | 33749 | | | HR002 | WPp | Antenna missing. Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Philosciidae* 's' | 33753 | TBC | | MN-002 | WPp | 1 Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Philosciidae* 's' | 33757 | TBC | | MN-019 | WPp | | 0 | 1 | 0 | 1 | 2 | | |
| *Philosciidae* 's' | 33768 | | | MN-007 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Philosciidae* sp. indet. | 32131 | TBC | | RH20B | For/LS | 2 gravid | 2 | 0 | 0 | 5 | 7 | | |
| *Philosciidae* sp. indet. | 32140 | TBC | | RH10B | For/LS | Under leaf litter. 2 gravid popped | 4 | 0 | 0 | 5 | 9 | | |
| *Philosciidae* sp. indet. | 32527 | TBC | | RH20A | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Philosciidae* sp. indet. | 32719 | TBC | | RH30B | WPp | | 1 | 0 | 0 | 3 | 4 | | |
| *Philosciidae* sp. indet. | 33416 | TBC | | HC003 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Philosciidae* sp. indet. | 33631 | TBC | | H012 | WPp | | 1 | 0 | 0 | 1 | 2 | | |
| *Podykipus leptoiuloides* | 31378 | TBC | | MN-013 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Podykipus leptoiuloides* | 31388 | TBC | | RH30B | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 31458 | TBC | | MN-015 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 31470 | TBC | | MN-020 | For/LS | | 0 | 0 | 5 | 0 | 5 | | |
| *Podykipus leptoiuloides* | 31507 | TBC | | MN-017 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 31552 | TBC | | MN-001 | For/LS | | 0 | 0 | 3 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 31607 | TBC | | H019 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 31613 | TBC | | H014 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 31658 | TBC | | H001 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 31660 | TBC | | H012 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 31674 | TBC | | H016 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 31742 | TBC | | HC001 | For/LS | | 6 | 0 | 0 | 0 | 6 | | |
| *Podykipus leptoiuloides* | 31811 | TBC | | MC005 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32004 | TBC | | MN-024 | For/LS | Under rocks | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32019 | TBC | | MN-004 | For/LS | Under rocks/bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32100 | TBC | | MN-003 | For/LS | In/under log | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32209 | TBC | | MN-015 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32225 | TBC | | MN-028 | For/LS | Jarrah log litter | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32233 | TBC | | H001 | For/LS | Under logs/bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32236 | TBC | | H001 | For/LS | Under logs/bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32237 | TBC | | H001 | For/LS | Under logs/bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32238 | TBC | | H002 | For/LS | Under rocks (laterite) | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32245 | TBC | | H012 | For/LS | Under rocks (laterite) | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32251 | TBC | | H018 | For/LS | Under rocks (laterite) | 5 | 0 | 0 | 0 | 5 | | |
| *Podykipus leptoiuloides* | 32253 | TBC | | H001 | For/LS | Under rocks (laterite) | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32257 | TBC | | H012 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32260 | TBC | | H001 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32263 | TBC | | H012 | For/LS | Under logs/bark | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32273 | TBC | | H019 | For/LS | Under logs | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32275 | TBC | | H018 | For/LS | Under logs | 5 | 0 | 0 | 0 | 5 | | |
| *Podykipus leptoiuloides* | 32276 | TBC | | H013 | For/LS | Broken, under bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32277 | TBC | | H007 | For/LS | Under rocks (laterite) | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32286 | TBC | | H018 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32289 | TBC | | H004 | For/LS | Small | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32300 | TBC | | H014 | For/LS | Under leaf litter | 4 | 0 | 0 | 0 | 4 | | |
| *Podykipus leptoiuloides* | 32304 | TBC | | H017 | For/LS | Under logs | 7 | 0 | 0 | 0 | 7 | | |
| *Podykipus leptoiuloides* | 32313 | TBC | | H008 | For/LS | Under logs | 3 | 0 | 0 | 0 | 3 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Podykipus leptoiuloides* | 32317 | TBC | | H009 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32322 | TBC | | H008 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32324 | TBC | | H020 | For/LS | Under rocks (laterite) | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32334 | TBC | | H014 | For/LS | Under logs/bark | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32346 | TBC | | H017 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32351 | TBC | | H017 | For/LS | Under granite | 5 | 0 | 0 | 0 | 5 | | |
| *Podykipus leptoiuloides* | 32373 | TBC | | MN-021 | For/LS | Under rocks | 4 | 0 | 0 | 0 | 4 | | |
| *Podykipus leptoiuloides* | 32385 | TBC | | MN-024 | For/LS | Under logs (moist) | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32394 | TBC | | MN-015 | For/LS | Under logs/bark | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32416 | TBC | | MN-026 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32417 | TBC | | MN-026 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32418 | TBC | | MN-026 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32426 | TBC | | MN-027 | For/LS | Small | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32427 | TBC | | MN-025 | For/LS | Under logs | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32457 | TBC | | MN-011 | WPp | | 1 | 0 | | 0 | | | |
| *Podykipus leptoiuloides* | 32614 | TBC | | MN-025 | For/LS | under rocks | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32778 | TBC | | HR001 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 32817 | TBC | | H012 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32818 | TBC | | H012 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 32832 | TBC | | H002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32854 | TBC | | H013 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 32865 | TBC | | H004 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 33118 | TBC | | H004 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 33128 | TBC | | H019 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33328 | TBC | | H005 | For/LS | Under rock | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33334 | TBC | | H006 | For/LS | Grass tree | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33344 | TBC | | H014 | For/LS | Under rocks (laterite) | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33360 | TBC | | H013 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33373 | TBC | | H021 | For/LS | Grass tree | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33375 | TBC | | H013 | For/LS | Grass tree | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 33377 | TBC | | H004 | For/LS | Grass tree | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33401 | TBC | | HC002 | For/LS | | 5 | 0 | 0 | 0 | 5 | | |
| *Podykipus leptoiuloides* | 33408 | TBC | | MC002 | For/LS | Under rocks (laterite) | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 33418 | TBC | | HC002 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| *Podykipus leptoiuloides* | 33433 | TBC | | MC002 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33470 | TBC | | MN-016 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33483 | TBC | | MN-006 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Podykipus leptoiuloides* | 33493 | TBC | | MN-017 | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Podykipus leptoiuloides* | 33499 | TBC | | MN-004 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33502 | TBC | | MN-018 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33517 | TBC | | H018 | WPp | | 42 | 0 | 0 | 0 | 42 | | |
| *Podykipus leptoiuloides* | 33563 | TBC | | H007 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33572 | TBC | | H001 | WPp | | 8 | 0 | 0 | 0 | 8 | | |
| *Podykipus leptoiuloides* | 33591 | TBC | | H011 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33597 | TBC | | H010 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33598 | TBC | | H002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33612 | TBC | | H009 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33621 | TBC | | H013 | WPp | | 6 | 0 | 0 | 0 | 6 | | |
| *Podykipus leptoiuloides* | 33625 | TBC | | H019 | WPp | | 4 | 0 | 0 | 3 | 7 | | |
| *Podykipus leptoiuloides* | 33628 | TBC | | H012 | WPp | | 16 | 0 | 0 | 0 | 16 | | |
| *Podykipus leptoiuloides* | 33638 | TBC | | MC004 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33647 | TBC | | HC002 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Podykipus leptoiuloides* | 33776 | TBC | | MN-014 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Polydesmida sp. indet. | 31646 | TBC | | H018 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Polyzoniida 'Phoenix0039' | 32345 | TBC | | H013 | WPp | ex PES33621; very small legs taken for DNA | 3 | 0 | 0 | 0 | 3 | yes | |
| Polyzoniida 'Phoenix0040' | 33473 | TBC | | MN-027 | WPp | part of body mid-section taken for DNA | 3 | 1 | 0 | 0 | 4 | yes | |
| Polyzoniida 'Phoenix0041' | 33466 | TBC | | MN-008 | WPp | very small legs taken for DN | 1 | 0 | 0 | 0 | 1 | yes | |
| Polyzoniida 'Phoenix0041' | 33481 | TBC | | MN-007 | WPp | smaller, thicker, with pointy antenna; part of body mid-section taken for DNA | 1 | 0 | 0 | 0 | 1 | yes | |
| Polyzoniida 'Phoenix0042' | 32371 | TBC | | MN-008 | For/LS | Under logs | 1 | 0 | 0 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 31414 | TBC | | RH30C | BE | Poor condition - brittle | 0 | 0 | 1 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 31527 | TBC | | MN-023 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 31564 | TBC | | H015 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 31601 | TBC | | H005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 31612 | TBC | | H014 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 31655 | TBC | | H020 | BE | | 0 | 0 | 0 | 1 | 1 | No | |
| *Proshermacha* 'MYG485' | 31656 | TBC | | H020 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| *Proshermacha* 'MYG485' | 32136 | TBC | | RH30C | BE | No lid, fine silk, 20cm deep. Dug at site of previous *Aname* burrow from first trip. | 0 | 0 | 1 | 0 | 1 | yes | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Proshermacha* 'MYG485' | 32241 | TBC | | H002 | For/LS | Under rocks (laterite) | 0 | 0 | 0 | 1 | 1 | yes | |
| *Proshermacha* 'MYG485' | 32242 | TBC | | H016 | For/LS | Under rocks, olive | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 32281 | TBC | | H021 | For/LS | Under logs | 0 | 0 | 0 | 1 | 1 | yes | |
| *Proshermacha* 'MYG485' | 32292 | TBC | | H005 | For/LS | Organic litter on decomposing jarrah log, flat carapace | 0 | 0 | 0 | 1 | 1 | | |
| *Proshermacha* 'MYG485' | 32297 | TBC | | H011 | For/LS | Open tunnel with web curtain under log/bark | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 32298 | TBC | | H011 | For/LS | Open tunnel with web curtain under log/bark, WHITE carapace, pedipalps missing | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 32327 | TBC | | H009 | For/LS | Under logs | 1 | 0 | 1 | 0 | 2 | yes | |
| *Proshermacha* 'MYG485' | 32352 | TBC | | HR001 | BE | 10-15cm | 0 | 0 | 1 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 32358 | TBC | | H015 | For/LS | Under logs/bark (curtain web) | 1 | 0 | 1 | 0 | 2 | | |
| *Proshermacha* 'MYG485' | 32361 | TBC | | H005 | For/LS | Under logs/bark (curtain web) | 0 | 0 | 0 | 1 | 1 | | |
| *Proshermacha* 'MYG485' | 32847 | TBC | | H015 | WPp | | 1 | 0 | 1 | 0 | 2 | | |
| *Proshermacha* 'MYG485' | 33126 | TBC | | H019 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 33341 | TBC | | H005 | For/LS | Jarrah stump, 5cm deep, inside chamber 3cm | 0 | 0 | 0 | 1 | 1 | yes | |
| *Proshermacha* 'MYG485' | 33381 | TBC | | HR001 | BE | 7cm deep, no lid, orange legs, golden hairs | 0 | 1 | 1 | 0 | 2 | yes | |
| *Proshermacha* 'MYG485' | 33624 | TBC | | H019 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 33850 | TBC | | GHD-TL5 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33855 | TBC | | GHD-Site9 | DP | | 1 | 0 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33859 | TBC | | GHD-Site8 | DP | | 0 | 2 | 0 | 0 | 2 | | |
| *Proshermacha* 'MYG485' | 33860 | TBC | | GHD-Site8 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33861 | TBC | | GHD-TLSite2 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33862 | TBC | | GHD-TLSite2 | DP | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 33863 | TBC | | GHD-Site12 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33864 | TBC | | GHD-TL8 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33867 | TBC | | GHD-Site4 | DP | | 0 | 1 | 0 | 0 | 1 | | |
| *Proshermacha* 'MYG485' | 33868 | TBC | | GHD-Site1 | DP | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'MYG485' | 33869 | TBC | | GHD-TL7 | DP | | 0 | 2 | 0 | 0 | 2 | | |
| *Proshermacha* 'MYG485' | 33870 | TBC | | GHD-Site3 | DP | | 0 | 2 | 0 | 0 | 2 | | |
| *Proshermacha* 'Phoenix0023' | 31588 | TBC | | H022 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0023' | 31589 | TBC | | H022 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Proshermacha* 'Phoenix0023' | 32432 | TBC | | MN-001 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0024' | 32489 | TBC | | MN-014 | WPp | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0027' | 31522 | TBC | | MN-011 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0027' | 32490 | TBC | | MN-014 | WPp | very flat carapace | 0 | 1 | 0 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0028' | 31420 | TBC | | MN-012 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Proshermacha* 'Phoenix0028' | 32463 | TBC | | MN-003 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Protochelifer* 'boddington' | 32011 | TBC | | MN-014 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 32078 | TBC | | MN-011 | For/LS | Tree bark debris | 0 | 1 | 0 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 32084 | TBC | | MN-011 | For/LS | Grass tree | 0 | 1 | 4 | 0 | 5 | | |
| *Protochelifer* 'boddington' | 32091 | TBC | | MN-002 | For/LS | Grass tree | 0 | 2 | 0 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 32092 | TBC | | MN-002 | For/LS | Grass tree | 0 | 0 | 0 | 1 | 1 | | |
| *Protochelifer* 'boddington' | 32107 | TBC | | MN-023 | For/LS | Grass tree | 0 | 2 | 2 | 3 | 7 | | |
| *Protochelifer* 'boddington' | 32111 | TBC | | MN-012 | For/LS | Grass tree | 0 | 3 | 1 | 1 | 5 | | |
| *Protochelifer* 'boddington' | 32116 | TBC | | MN-023 | For/LS | Debris in tree stump. | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 32119 | TBC | | MN-017 | For/LS | Grass tree | 0 | 3 | 1 | 0 | 4 | | |
| *Protochelifer* 'boddington' | 32122 | TBC | | MN-001 | For/LS | Grass tree at base of granite outcrop | 0 | 2 | 3 | 1 | 6 | | |
| *Protochelifer* 'boddington' | 32198 | TBC | | MN-010 | For/LS | Grass tree leaves | | 5 | 10 | 0 | | | |
| *Protochelifer* 'boddington' | 32219 | TBC | | MN-024 | For/LS | Grass tree | 0 | 2 | 4 | 1 | 7 | | |
| *Protochelifer* 'boddington' | 32224 | TBC | | MN-016 | For/LS | Grass tree | 0 | 0 | 2 | 1 | 3 | | |
| *Protochelifer* 'boddington' | 32230 | TBC | | MN-021 | For/LS | Grass tree | 0 | 2 | 2 | 4 | 8 | | |
| *Protochelifer* 'boddington' | 32269 | TBC | | H012 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 32270 | TBC | | H003 | For/LS | Grass tree | 0 | 0 | 0 | 3 | 3 | | |
| *Protochelifer* 'boddington' | 32308 | TBC | | H022 | For/LS | Grass tree | 0 | 1 | 1 | 5 | 7 | | |
| *Protochelifer* 'boddington' | 32408 | TBC | | MN-022 | For/LS | | 0 | 0 | 0 | 3 | 3 | | |
| *Protochelifer* 'boddington' | 32437 | TBC | | MN-023 | WPp | | 0 | 1 | 1 | 2 | 4 | | |
| *Protochelifer* 'boddington' | 32452 | TBC | | MN-022 | WPp | flat wide | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 32575 | TBC | | H021 | For/LS | Grass tree | 0 | 0 | 3 | 2 | 5 | | |
| *Protochelifer* 'boddington' | 32784 | TBC | | H001 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33331 | TBC | | H002 | For/LS | Grass tree | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 33332 | TBC | | H006 | For/LS | Grass tree | 0 | 2 | 5 | 0 | 7 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Protochelifer* 'boddington' | 33335 | TBC | | H020 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33345 | TBC | | H017 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33346 | TBC | | H007 | For/LS | Grass tree | 0 | 0 | 2 | 1 | 3 | | |
| *Protochelifer* 'boddington' | 33353 | TBC | | H019 | For/LS | Grass tree | 0 | 2 | 2 | 0 | 4 | | |
| *Protochelifer* 'boddington' | 33367 | TBC | | H011 | For/LS | Grass tree | 0 | 1 | 0 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 33369 | TBC | | H018 | For/LS | Grass tree | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 33371 | TBC | | H019 | For/LS | Grass tree | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 33374 | TBC | | H013 | For/LS | Grass tree | 0 | 3 | 3 | 0 | 6 | | |
| *Protochelifer* 'boddington' | 33382 | TBC | | HR001 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33429 | TBC | | MC005 | For/LS | | 0 | 0 | 2 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33436 | TBC | | HC002 | For/LS | | 0 | 1 | 2 | 0 | 3 | | |
| *Protochelifer* 'boddington' | 33438 | TBC | | HC003 | For/LS | | 0 | 2 | 1 | 0 | 3 | | |
| *Protochelifer* 'boddington' | 33440 | TBC | | MC003 | For/LS | | 0 | 1 | 1 | 0 | 2 | | |
| *Protochelifer* 'boddington' | 33721 | TBC | | MN-022 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Protochelifer* 'boddington' | 34177 | TBC | | HC002 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 34187 | TBC | | HC003 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Protochelifer* 'boddington' | 34267 | TBC | | MN-018 | For/LS | Grass tree | 0 | 1 | 1 | 0 | 2 | | |
| *Protogarypinus giganteus* | 34186 | TBC | | H018 | For/LS | Grass tree | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 31375 | TBC | | MN-026 | For/LS | Very small | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 32104 | TBC | | MN-017 | For/LS | Damaged | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 32487 | TBC | SJ5790 | MN-009 | WPp | | 3 | 0 | 0 | 0 | 3 | | |
| *Pseudodiploexochus* sp. indet. | 32512 | TBC | | MN-010 | WPp | Very small | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 32836 | TBC | SJ5769 | H020 | WPp | Very small | 0 | 0 | 2 | 0 | 2 | | |
| *Pseudodiploexochus* sp. indet. | 33242 | TBC | | H009 | For/LS | Very small sex indet. adult with unusual scale-setae. SRE. | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33296 | TBC | | H017 | WPp | Very small, relatively lge eyes | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33312 | TBC | | MC002 | WPp | very small. | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33323 | TBC | SJ5794 | MN-026 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33352 | TBC | | H022 | For/LS | Very pale, tightly rolled | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33361 | TBC | SJ5780 | H013 | For/LS | Definite scale-setae, unusual, not previously seen. | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33457 | TBC | SJ5792 | MN-025 | WPp | 1 antenna missing | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33504 | TBC | SJ5786 | MN-018 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Pseudodiploexochus* sp. indet. | 33626 | TBC | SJ5782 | H019 | WPp | poorly preserved. Unrolled, characters visible. | 0 | 1 | 0 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 32090 | TBC | | RH20B | For/LS | gravid? | 0 | 1 | 0 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 32453 | TBC | | MN-011 | WPp | | 0 | 1 | 2 | 0 | 3 | | |
| *Pseudotyrannochthonius* 'DS2' | 32471 | TBC | | MN-005 | WPp | | 0 | 1 | 0 | 1 | 2 | | |
| *Pseudotyrannochthonius* 'DS2' | 32520 | TBC | | MN-026 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 32703 | TBC | | RH10A | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 32785 | TBC | | H001 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 33124 | TBC | | H014 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 33550 | TBC | | H014 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 33556 | TBC | | H006 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 33585 | TBC | | H011 | WPp | | 0 | 0 | 2 | 0 | 2 | yes | |
| *Pseudotyrannochthonius* 'DS2' | 33771 | TBC | | MN-007 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 33772 | TBC | | MN-007 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 34179 | TBC | | H010 | WPp | | 0 | 2 | 0 | 0 | 2 | | |
| *Pseudotyrannochthonius* 'DS2' | 34202 | TBC | | MN-023 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Pseudotyrannochthonius* 'DS2' | 34203 | TBC | | MN-021 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Pseudotyrannochthonius* 'DS2' | 34236 | TBC | | MN-015 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| Siphonotidae DIPAAG DIP189 collie | 31662 | TBC | | H005 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Siphonotidae DIPAAG DIP189 collie | 32804 | TBC | | H022 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Siphonotidae DIPAAG DIP189 collie | 32821 | TBC | | H016 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Siphonotidae DIPAAG DIP189 collie | 33340 | TBC | | H022 | For/LS | Under bark | 2 | 0 | 0 | 0 | 2 | | |
| Siphonotidae DIPAAG DIP189 collie | 33515 | TBC | | H022 | WPp | | 8 | 0 | 0 | 0 | 8 | | |
| Siphonotidae DIPAAG DIP189 collie | 33554 | TBC | | H017 | WPp | | 24 | 0 | 0 | 0 | 24 | | |
| Siphonotidae DIPAAG DIP189 collie | 33582 | TBC | | H016 | WPp | | 5 | 0 | 0 | 0 | 5 | | |
| Siphonotidae DIPAAG DIP189 collie | 33614 | TBC | | H003 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Spherillo* '1' | 32380 | TBC | SJ5788 | MN-009 | For/LS | Under logs/rocks | 1 | 0 | 0 | 0 | 1 | | |
| *Spherillo* '1' | 32443 | TBC | SJ5787 | MN-022 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '1' | 32458 | TBC | SJ5789 | MN-011 | WPp | White. Uropod exopodites unusual. | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '1' | 32556 | TBC | SJ5785 | MN-009 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Spherillo* '5' | 32012 | TBC | | MN-014 | For/LS | Grass tree | 1 | 0 | 0 | 2 | 3 | | |
| *Spherillo* '5' | 32077 | TBC | | MN-011 | For/LS | Tree bark debris | 6 | 0 | 0 | 0 | 6 | | |
| *Spherillo* '5' | 32085 | TBC | | MN-011 | For/LS | Grass tree | 0 | 0 | 0 | 3 | 3 | | |
| *Spherillo* '5' | 32106 | TBC | | MN-023 | For/LS | Grass tree | 3 | 0 | 0 | 0 | 3 | | |
| *Spherillo* '5' | 32110 | TBC | | MN-012 | For/LS | Grass tree. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 32118 | TBC | | MN-017 | For/LS | Grass tree | 6 | 0 | 0 | 0 | 6 | | |
| *Spherillo* '5' | 32121 | TBC | | MN-001 | For/LS | Under marri bark | 0 | 1 | 1 | 0 | 2 | | |
| *Spherillo* '5' | 32231 | TBC | | MN-021 | For/LS | Grass tree | 0 | 0 | 1 | 1 | 2 | | |
| *Spherillo* '5' | 32433 | TBC | | MN-001 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 32442 | TBC | | MN-022 | WPp | | 7 | 0 | 0 | 0 | 7 | | |
| *Spherillo* '5' | 32476 | | | MN-021 | WPp | Discarded | 0 | 0 | 0 | 1 | 1 | | |
| *Spherillo* '5' | 32553 | TBC | | MN-004 | WPp | | 11 | 0 | 0 | 0 | 11 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Spherillo* '5' | 32559 | TBC | | MN-015 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Spherillo* '5' | 32564 | TBC | | MN-021 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 32748 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Spherillo* '5' | 33205 | TBC | | MN-028 | WPp | Ex PES 33784. Small | 3 | 0 | 0 | 0 | 3 | | |
| *Spherillo* '5' | 33237 | TBC | | H006 | For/LS | Grass tree. Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 33298 | TBC | | H019 | For/LS | Grass tree. | 0 | 0 | 2 | 1 | 3 | | |
| *Spherillo* '5' | 33306 | TBC | | H022 | For/LS | Grass tree. | 0 | 1 | 0 | 0 | 1 | | |
| *Spherillo* '5' | 33311 | TBC | | MC001 | WPp | very small. | 0 | 0 | 0 | 1 | 1 | | |
| *Spherillo* '5' | 33354 | TBC | | H019 | For/LS | Grass tree. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 33368 | TBC | | H018 | For/LS | Grass tree. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 33497 | TBC | | MN-004 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Spherillo* '5' | 33681 | TBC | | MN-025 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Spherillo* '5' | 33686 | TBC | | MN-001 | WPp | Good condition | 0 | 0 | 1 | 1 | 2 | | |
| *Spherillo* '5' | 33688 | TBC | | MN-005 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Spherillo* '5' | 33691 | TBC | | MN-017 | WPp | | 0 | 0 | 0 | 2 | 2 | | |
| *Spherillo* '5' | 33706 | TBC | | MN-011 | WPp | Small | 2 | 0 | 0 | 0 | 2 | | |
| *Spherillo* '5' | 33720 | TBC | | MN-022 | WPp | | 8 | 0 | 0 | 0 | 8 | | |
| *Spherillo* '5' | 33723 | TBC | | MN-012 | WPp | | 0 | 0 | 3 | 0 | 3 | | |
| *Spherillo* '5' | 33751 | TBC | | MN-004 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Spherillo* '5' | 33764 | TBC | | MN-021 | WPp | | 0 | 0 | 1 | 1 | 2 | | |
| *Spherillo* '5' | 33775 | TBC | | MN-014 | WPp | | 0 | 0 | 0 | 3 | 3 | | |
| *Styloniscus* '1' | 31373 | TBC | | MN-003 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 31512 | TBC | | MN-024 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 31547 | TBC | | MN-001 | For/LS | Gravid. Good condition | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 31735 | TBC | | MC005 | For/LS | Gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Styloniscus* '1' | 31750 | TBC | | MC004 | For/LS | Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32082 | TBC | | MN-012 | For/LS | Debris in tree stump. Very small | 1 | 0 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 32098 | | | MN-003 | For/LS | In/under log. Poor condition, some discards | 5 | 0 | 0 | 0 | 5 | | |
| *Styloniscus* '1' | 32103 | | | MN-017 | For/LS | Discarded | 5 | 0 | 0 | 0 | 5 | | |
| *Styloniscus* '1' | 32139 | TBC | | RH30C | For/LS | Under/in leaf litter soil/lateritic gravel | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 32258 | | | H012 | For/LS | Discarded | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* '1' | 32386 | | | MN-024 | For/LS | Under logs (moist). Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32505 | | | MN-015 | WPp | Damaged. Discarded | 1 | 0 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 32519 | TBC | | MN-026 | WPp | | 0 | 0 | 0 | 1 | 1 | | |
| *Styloniscus* '1' | 32549 | TBC | | MN-001 | WPp | gravid. | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32552 | TBC | | MN-004 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32554 | TBC | | MN-005 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32557 | TBC | | MN-011 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 32558 | TBC | | MN-015 | For/LS | 1 gravid | 0 | 0 | 2 | 0 | 2 | | |
| *Styloniscus* '1' | 32562 | TBC | | MN-018 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Styloniscus* '1' | 32567 | TBC | | MN-022 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* '1' | 32568 | TBC | | MN-023 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* '1' | 32569 | TBC | | MN-024 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 32570 | TBC | | MN-024 | WPp | | 0 | 0 | 2 | 0 | 2 | | |
| *Styloniscus* '1' | 32573 | TBC | | MN-026 | WPp | | 0 | 0 | 1 | 6 | 7 | | |
| *Styloniscus* '1' | 32793 | TBC | | H007 | WPp | Good condition | 0 | 0 | 2 | 2 | 4 | | |
| *Styloniscus* '1' | 32833 | | | H002 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33203 | TBC | | MN-027 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 33204 | TBC | | MN-028 | WPp | | 0 | 0 | 1 | 3 | 4 | | |
| *Styloniscus* '1' | 33210 | TBC | | RH10A | WPp | Under logs/bark. gravid. | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33212 | TBC | | RH10A | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Styloniscus* '1' | 33214 | TBC | | RH10A | WPp | | 0 | 1 | 2 | 0 | 3 | | |
| *Styloniscus* '1' | 33216 | TBC | | RH10A | WPp | | 4 | 0 | 0 | 0 | 4 | | |
| *Styloniscus* '1' | 33231 | | | H001 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33236 | | | H006 | For/LS | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 33289 | | | H010 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33292 | | | H010 | WPp | Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 33294 | TBC | | H011 | WPp | Very small. Discarded | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 33297 | TBC | | H018 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '1' | 33299 | TBC | | H020 | WPp | | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33313 | TBC | | MC002 | WPp | very small | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33316 | TBC | | MC004 | WPp | Good condition | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33317 | TBC | | MC005 | WPp | | 0 | 1 | 2 | 0 | 3 | | |
| *Styloniscus* '1' | 33320 | | | MC005 | WPp | Discarded | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33350 | TBC | | H007 | For/LS | Damaged | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '1' | 33363 | TBC | | H010 | For/LS | some juveniles Discarded | 6 | 0 | 0 | 0 | 6 | | |
| *Styloniscus* '1' | 33410 | TBC | | MC004 | For/LS | Gravid, 1 poor condition | 0 | 0 | 2 | 0 | 2 | | |
| *Styloniscus* '1' | 33434 | | | MC002 | For/LS | Discarded | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* '1' | 33583 | | | H016 | WPp | Discarded | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* '1' | 33730 | | | RH10C | WPp | Discarded | 4 | 0 | 0 | 0 | 4 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Styloniscus* '7' | 32076 | | | MN-011 | For/LS | Tree bark debris. Gravid. Heavily damaged | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '7' | 32222 | TBC | | MN-007 | For/LS | Under grass tree. Gravid | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '7' | 32259 | TBC | | H001 | For/LS | Gravid | 0 | 0 | 3 | 0 | 3 | | |
| *Styloniscus* '7' | 33286 | TBC | | H010 | For/LS | tuberculate setae. | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '7' | 33304 | TBC | | H022 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Styloniscus* '7' | 33309 | TBC | | HC003 | WPp | Good con. | 0 | 1 | 0 | 0 | 1 | | |
| *Styloniscus* '7' | 33351 | TBC | | H022 | For/LS | 1 Gravid, | 0 | 3 | 2 | 1 | 6 | | |
| *Styloniscus* sp. indet. | 32470 | | | MN-003 | WPp | Incomplete damaged specimen. Discarded | 1 | 0 | 0 | 0 | 1 | | |
| *Styloniscus* sp. indet. | 32561 | TBC | | MN-015 | WPp | Pe2 pereopod detached. No antennae. Tuberculate/setae | 1 | 0 | 0 | 0 | 1 | | |
| *Styloniscus* sp. indet. | 32708 | TBC | | RH20B | WPp | Very small | 2 | 0 | 0 | 0 | 2 | | |
| *Styloniscus* sp. indet. | 33227 | TBC | | RH30D | WPp | very tiny | 0 | 0 | 0 | 1 | 1 | | |
| *Synothele michaelseni* | 31568 | TBC | | H006 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele michaelseni* | 32464 | TBC | | MN-003 | WPp | | 0 | 0 | 1 | 0 | 1 | No | |
| *Synothele michaelseni* | 33773 | TBC | | MN-014 | WPp | | 0 | 1 | 0 | 0 | 1 | No | |
| *Synothele* 'Phoenix0015' | 31476 | TBC | | MN-025 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31567 | TBC | | H018 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31578 | TBC | | H001 | BE | close to S.*rubripes* | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31579 | TBC | | H001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0015' | 31580 | TBC | | H015 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31581 | TBC | | H015 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0015' | 31584 | TBC | | H019 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31590 | TBC | | H022 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31592 | TBC | | H012 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31593 | TBC | | H017 | For/LS | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31603 | TBC | | H005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31604 | TBC | | H005 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0015' | 31605 | TBC | | H005 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0015' | 31617 | TBC | | H007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 31822 | TBC | | HC003 | BE | | 0 | 0 | 0 | 1 | 1 | yes | |
| *Synothele* 'Phoenix0015' | 32020 | TBC | | MN-004 | For/LS | Under rocks/bark | 0 | 0 | 0 | 1 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31367 | TBC | | MN-007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31370 | TBC | | MN-007 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| *Synothele* 'Phoenix0016' | 31431 | TBC | | MN-027 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31435 | TBC | | MN-018 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31454 | TBC | | MN-006 | BE | | 0 | 0 | 1 | 0 | 1 | No | |
| *Synothele* 'Phoenix0016' | 31502 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0016' | 31534 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31535 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0016' | 31538 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0016' | 31544 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | | |
| *Synothele* 'Phoenix0016' | 31595 | TBC | | H014 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Synothele* 'Phoenix0016' | 31596 | TBC | | H014 | BE | | 0 | 0 | 0 | 1 | 1 | | |
| *Teyl* 'MYG355' | 31437 | TBC | | MN-007 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Teyl* 'MYG355' | 33846 | TBC | | MC005 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0007' | 32758 | TBC | | RH10B | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0007' | 33491 | TBC | | MN-017 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0007' | 33637 | TBC | | MC004 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0007' | 33732 | TBC | | MN-009 | WPp | | 0 | 1 | 0 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0019' | 31533 | TBC | | MN-001 | BE | | 0 | 0 | 1 | 0 | 1 | yes | |
| *Teyl* 'Phoenix0021' | 33758 | TBC | | MN-019 | WPp | | 0 | 0 | 1 | 0 | 1 | yes | |
| Trianonychidae 'genus 008' sp. | 31394 | TBC | | RH10A | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31460 | TBC | | MN-015 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31515 | TBC | | MN-023 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31548 | TBC | | MN-001 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31649 | TBC | | H021 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31659 | TBC | | H012 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 31749 | TBC | | MC004 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| Trianonychidae 'genus 008' sp. | 31752 | TBC | | HC003 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32088 | TBC | | RH20B | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32112 | TBC | | MN-012 | For/LS | Under bark and leaf litter | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32128 | TBC | | RH20B | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32200 | TBC | | MN-010 | For/LS | Grass tree leaves | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 32223 | TBC | | MN-007 | For/LS | Under grass tree | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32254 | TBC | | H002 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32287 | TBC | | H018 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32305 | TBC | | H005 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 32310 | TBC | | H022 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| Trianonychidae 'genus 008' sp. | 32347 | TBC | | H017 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32348 | TBC | | H003 | For/LS | Under rocks (laterite) | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32391 | TBC | | MN-010 | For/LS | Under rocks | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32501 | TBC | | MN-015 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32749 | TBC | | MN-027 | WPp | | 2 | 0 | 0 | 0 | 2 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trianonychidae 'genus 008' sp. | 32755 | TBC | | MN-010 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 32760 | TBC | | RH10B | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32767 | TBC | | RH20A | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32806 | TBC | | H022 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32826 | TBC | | H008 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 32863 | TBC | | H004 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33127 | TBC | | H019 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33132 | TBC | | H021 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 33146 | TBC | | MC001 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33356 | TBC | | H021 | For/LS | | 1 | 0 | 1 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 33399 | TBC | | MC004 | For/LS | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 33409 | TBC | | MC004 | For/LS | | 3 | 0 | 0 | 0 | 3 | | |
| Trianonychidae 'genus 008' sp. | 33412 | TBC | | MC005 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33415 | TBC | | HC003 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33679 | TBC | | MN-025 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 33745 | TBC | | MN-015 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae 'genus 008' sp. | 33834 | TBC | | MC002 | WPp | | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae 'genus 008' sp. | 33852 | TBC | | GHD-TL5 | DP | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 32079 | TBC | | MN-011 | For/LS | Tree bark debris | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 32080 | TBC | | MN-012 | For/LS | Debris in tree stump | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 32102 | TBC | | MN-003 | For/LS | In/under log. Brown colour | 2 | 0 | 0 | 0 | 2 | | |
| Trianonychidae sp. indet. | 32218 | TBC | | MN-024 | For/LS | Grass tree | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 32306 | TBC | | H005 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 32318 | TBC | | H006 | For/LS | | 1 | 0 | 0 | 0 | 1 | | |
| Trianonychidae sp. indet. | 33677 | TBC | | MN-026 | WPp | | 1 | 0 | 0 | 0 | 1 | | |
| *Urodacus novaehollandiae* | 31429 | TBC | | MN-016 | For/LS | | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus novaehollandiae* | 31468 | TBC | | MN-020 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus novaehollandiae* | 31708 | TBC | | H017 | For/LS | | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus novaehollandiae* | 32002 | TBC | | MN-016 | For/LS | Under logs | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus novaehollandiae* | 32015 | TBC | | MN-022 | For/LS | Under logs | 0 | 0 | 1 | 0 | 1 | | |
| *Urodacus novaehollandiae* | 32018 | TBC | | MN-004 | For/LS | Under rocks/bark | 0 | 1 | 1 | 0 | 2 | | |
| *Urodacus novaehollandiae* | 32395 | TBC | | MN-020 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus novaehollandiae* | 32421 | TBC | | MN-020 | For/LS | Under rock | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus novaehollandiae* | 33714 | TBC | | MN-008 | WPp | | 0 | 1 | 1 | 0 | 2 | | |
| *Urodacus novaehollandiae* | 33727 | TBC | | MN-012 | WPp | | 0 | 1 | 0 | 0 | 1 | | |
| *Urodacus planimanus* | 31386 | TBC | | MN-015 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31425 | TBC | | MN-012 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31442 | TBC | | MN-008 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31484 | TBC | | MN-011 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31508 | TBC | | MN-001 | For/LS | | 0 | 0 | 1 | 3 | 4 | | |
| *Urodacus planimanus* | 31509 | TBC | | MN-024 | For/LS | | 0 | 1 | 0 | 1 | 2 | | |
| *Urodacus planimanus* | 31531 | TBC | | MN-022 | For/LS | | 0 | 0 | 1 | 0 | 1 | | |
| *Urodacus planimanus* | 31532 | TBC | | MN-023 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31670 | TBC | | H002 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31993 | TBC | | MN-025 | For/LS | Under rock | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus planimanus* | 31997 | TBC | | MN-006 | For/LS | under grass tree | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 31998 | TBC | | MN-008 | For/LS | Under rocks | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus planimanus* | 32005 | TBC | | MN-024 | For/LS | Under rocks | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32006 | TBC | | MN-024 | For/LS | Under rocks | 1 | 0 | 0 | 0 | 1 | | |
| *Urodacus planimanus* | 32007 | TBC | | MN-024 | For/LS | Under rocks | 0 | 1 | 0 | 0 | 1 | | |
| *Urodacus planimanus* | 32008 | TBC | | MN-008 | For/LS | Under granite | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32013 | TBC | | MN-025 | For/LS | Under rocks | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32093 | TBC | | MN-023 | For/LS | Under laterite rock, SRE | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32120 | TBC | | MN-001 | For/LS | Under sheet of granite | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32203 | TBC | | MN-024 | For/LS | Under rocks, SRE | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus planimanus* | 32204 | TBC | | MN-024 | For/LS | Under rocks (larger specimen) | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32212 | TBC | | MN-019 | For/LS | | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32370 | TBC | | MN-008 | For/LS | Dead grass tree, SRE | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32372 | TBC | | MN-021 | For/LS | Under rocks, SRE | 0 | 0 | 0 | 2 | 2 | | |
| *Urodacus planimanus* | 32389 | TBC | | MN-026 | For/LS | Under log, SRE | 0 | 1 | 0 | 0 | 1 | | |
| *Urodacus planimanus* | 32415 | TBC | | MN-021 | For/LS | Under logs, SRE | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 32428 | TBC | | MN-025 | For/LS | Under logs, SRE | 0 | 0 | 0 | 1 | 1 | | |
| *Urodacus planimanus* | 33390 | TBC | | MC003 | For/LS | Under rocks (laterite) | 0 | 0 | 0 | 1 | 1 | | |