



Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

Supplementary Surveys – Mt Marion

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Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Mineral Resources Limited (MinRes). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

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Executive Summary

Mineral Resources Limited (MRL) commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake a Targeted Arid Bronze Azure Butterfly (ABAB) survey for the proposed Mt Marion Lithium Mine expansion project (The Project). The Survey Area is located approximately 30 km south of the Kalgoorlie townsite, in the Coolgardie bioregion of Western Australia.

The objective of the survey was to delineate the previously discovered colonies of *Camponotus* sp. nr. *terebrans* within the Survey Area and, if the colonies are suitable to support the ABAB, to conduct a targeted ABAB search during the supplementary survey period in accordance with relevant guidelines. This report presents the findings of the survey.

Ant Colony Delineation

A likelihood of occurrence assessment was undertaken which determined that two significant lycaenid taxa have a high likelihood of occurrence within the Survey Area, the ABAB (*Ogyris petrina*), and Inland Hairstreak Butterfly (*Jalmenus aridus*).

A total of 2588 *Camponotus* spp. nests were recorded within the Survey Area, of which 2576 were confirmed to be C. sp. nr *terebrans*. The remaining nests were identified as *Aphaenogaster mediterrae*, *Brachyponera lutea*, *C. cinereus amperei*, *C. claripes* sp complex JDM288, *C. gouldianus*, *Crematogaster whitei*, *Froggattella kirbii*, and *Rhytidoponera punctata*. The C. sp. nr *terebrans* nests represent four separate colonies, the extents of which are approximately 145.26 ha, 45.89 ha, 133.79 ha and 937.24 ha. The four colonies have potential to comprise a metapopulation.

Targeted ABAB Searches

No ABAB were recorded within the Survey Area during the field survey. A total of 200 kms were traversed by foot over 24 days, of which 20 had fine weather suitable for ABAB survey. A total of 39 Inland Hairstreak Butterflies (*Jalmenus aridus*) (P1) were recorded opportunistically within the Survey Area during the field survey.



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Acronyms and Abbreviations

| | |
|--------------------|--|
| °C | Degree Celsius |
| ABAB | Arid Bronze Azure Butterfly |
| BAM Act | <i>Biosecurity and Agriculture Management Act 2007</i> |
| BC Act | <i>Biodiversity Conservation Act 2016</i> |
| BoM | Bureau of Meteorology |
| CR | Critically Endangered |
| DAWE | Department of Agriculture Water and Environment |
| DBCA | Department of Biodiversity, Conservation and Attractions |
| DCCEEW | Department of Climate Change, Energy, the Environment and Water |
| DEE | Department of the Environment and Energy |
| Desktop Study Area | The area that was studied during the desktop assessment encompassing the Survey Area and surrounds |
| DoE | Department of the Environment |
| DPIRD | Department of Primary Industries and Regional Development |
| DPLH | Department of Planning, Lands and Heritage |
| DWER | Department of Water and Environmental Regulation |
| EIA | Environmental Impact Assessment |
| EN | Endangered |
| EP Act | <i>Environmental Protection Act 1986</i> |
| EPA | Environmental Protection Authority |
| EPBC Act | <i>Environment Protection Biodiversity and Conservation Act 1999</i> |
| ESA | Environmentally Sensitive Area |
| GIS | Geographic Information System |
| GPS | Global Positioning System |
| ha | Hectare |
| IBRA | Interim Biogeographic Regionalisation for Australia |
| Kph | Kilometres per hour |
| km | Kilometres |
| Lat | Latitude |
| Long | Longitude |
| m | Metres |
| m ² | Metres Squared |
| mm | Millimetres |
| MinRes | Mineral Resources Limited |
| mths | Months |
| PMST | Protected Matters Search Tool |
| P | Priority |



| | |
|-------------|----------------------------------|
| SLR | SLR Consulting Australia Pty Ltd |
| Survey Area | The area that was surveyed |
| WA | Western Australia |
| WAM | Western Australian Museum |



1.0 Introduction

1.1 The Project

Mineral resources Limited (MinRes) commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake a targeted survey for the Arid Bronze Azure Butterfly (ABAB) for the proposed Mt Marion Lithium Mine expansion (the Project). The host ant for this species, *Camponotus* sp. nr. *terebrans*, was discovered at four locations during the 2023 terrestrial fauna surveys undertaken by SLR (SLR Consulting, 2024a, 2024b). This survey was designed to map the extent of the colonies and determine if ABAB was present during the supplementary survey period. The survey was undertaken approximately 30 km south of Kalgoorlie townsite, in the Coolgardie bioregion of Western Australia (Map 1). All maps are provided in Appendix A.

1.2 Objective and Scope

The objective of the survey was to delineate previously identified *C. sp. nr. terebrans* ant colonies within the Survey Area, and then conduct five targeted searches for the ABAB within these areas during the supplementary survey period as part of the environmental impact assessment process for the Project.

The following scope of work was completed:

- Undertake a desktop invertebrate fauna investigation for the Survey Area with a review of background environmental information, species and habitat inventories, and identification of significant species and habitats.
- Complete delineation of the four *C. sp. nr. terebrans* colonies identified on previous surveys.
- Complete five targeted search efforts of all *C. sp. nr. terebrans* colonies deemed to be large enough to support the ABAB in accordance with relevant guidelines.
- Complete targeted searches of the *C. gouldianus* colony identified in previous surveys in case ABAB host ant selection is broader than currently documented.
- Prepare and provide the following deliverables for the Survey Area:
 - Draft desktop assessment
 - Survey sampling plan
 - Post field survey memo
 - Technical report
 - GIS spatial data package.



2.0 Background

2.1 Statutory and Regulatory Framework

Western Australian fauna is protected by the following legislative measures:

- *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act). (Commonwealth of Australia, 1999).
- *Biodiversity Conservation Act 2016* (WA) (BC Act) (Government of Western Australia, 2016).
- *Environmental Protection Act 1986* (WA) (EP Act) (Government of Western Australia, 1986).

In addition to these legislative measures, the following non-legislative lists are considered on a case-by-case basis:

- WA Department of Biodiversity Conservation and Attractions (DBCA) Priority lists for fauna, flora, and ecological communities.
- Recognition of locally significant populations by DBCA.

The EIA process is supported by guidance documents published by the Environmental Protection Authority (EPA), DBCA and the Department of Agriculture Water and Environment (DAWE).

Western Australia

- *Arid bronze azure butterfly (ABAB) survey in Western Australia additional information* (DBCA, 2020a).
- *Guideline for the survey of arid bronze azure butterfly (ABAB) in Western Australia* (DBCA, 2020b).

Commonwealth

- *Matters of National Environmental Significance – Significant Impact Guidelines 1.1* (DoE, 2013).

2.2 Existing Environment

2.2.1 Climate

The closest long-term Bureau of Meteorology weather station with a complete dataset is Kalgoorlie-Boulder Airport Weather Station (Station 012038), located approximately 30 km north of the Survey Area. Climate statistics were calculated using data from the most current climate normal, which is defined as a 30-year interval where possible. A climate normal is a period long enough to include year-to-year variations while avoiding the influence of longer-term changes in climate (BoM, 2007).

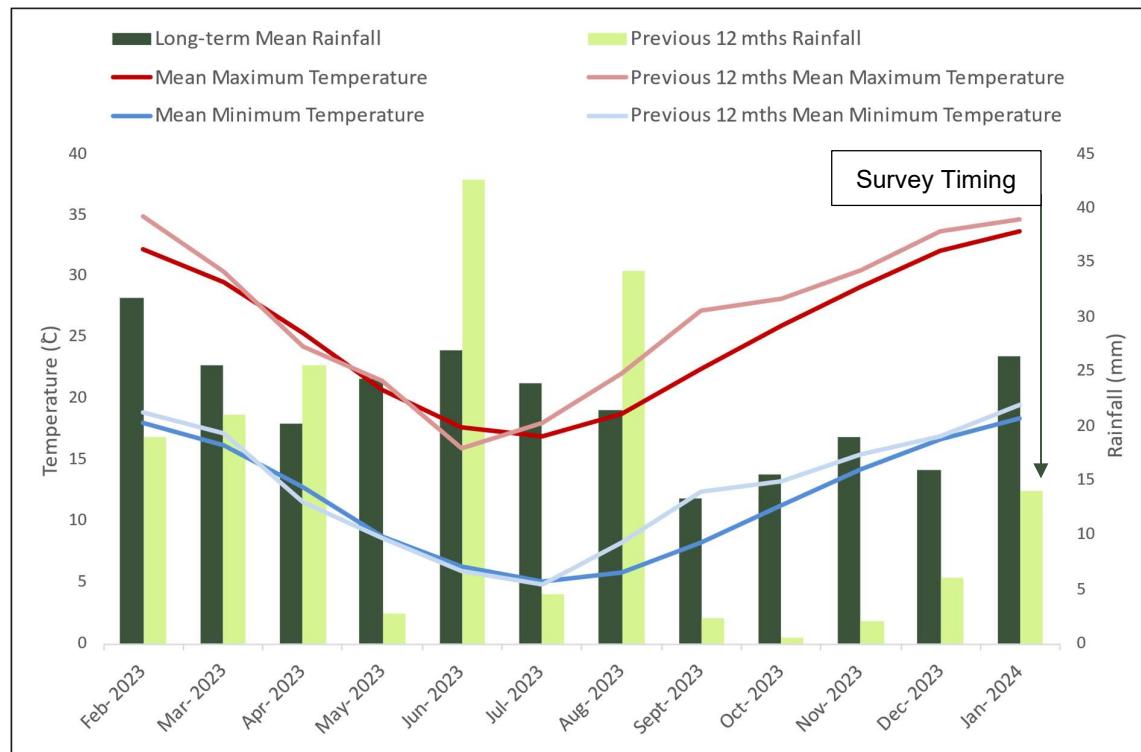
The long-term (1939 to 2024) mean minimum temperature for Kalgoorlie-Boulder Airport Weather Station ranges from 5.1°C (July) to 18.4°C (January) and the long-term mean maximum temperature ranges from 16.9°C (July) to 33.7°C (January) (Graph 1) (BoM, 2024).

The Kalgoorlie-Boulder Weather Station recorded 174.8 mm of rainfall in the 12 months prior to the survey (Feb 2023 - Jan 2024), which is 89.8 mm below the long-term average of 264.6 mm (BoM, 2024). In the three months prior to the survey (Nov 2023 - Jan 2024), 22 mm of rainfall was recorded, which is 39.2 mm below the long-term average of 61.2 mm for the



same period (BoM, 2024). There were large rainfall events in June and August of 2023 but above average temperatures and below average rainfall for the 6 months prior to the survey. This meant that despite the rainfall events the Survey Area was much drier than average at the time of survey, having missed nearly a third of its annual rainfall.

Graph 1: Climate summary of the Survey Area



2.2.2 Interim Biogeographic Regionalisation of Australia

The Interim Biogeographic Regionalisation of Australia (IBRA) divides Australia into 89 bioregions based on major biological, geographical, and geological attributes. These bioregions are subdivided into 419 subregions as part of a refinement of the IBRA framework (DEE, 2016). The Survey Area occurs within the Coolgardie (COO) bioregion and the Eastern Goldfields (COO3) and Southern Cross (COO2) subregion (Map 2).

The Eastern Goldfield (COO3) subregion lies on the 'Eastern Goldfields Terrains' of the Yilgarn Craton. The relief is subdued and comprises gently undulating plains interrupted in the west with low hills and ridges of Archaean greenstones and in the east by a horst of Proterozoic basic granulite. The vegetation is mallees, acacia thickets and shrub heaths on sandplains. Diverse eucalypt woodlands occur around salt lakes, on ranges, and in valleys. Salt lakes support dwarf shrublands of samphire. Woodlands and *Dodonaea* shrubland occur on basic granulites of the Fraser Range. The area is rich in endemic acacias. The climate is arid to semi-arid with 200-300 mm of rainfall, sometimes in summer but usually in winter. The subregional area is 5,102,428 ha (Cowan, 2001).

The Southern Cross (COO2) subregion lies on the 'Southern Cross Terrains' of the Yilgarn Craton and has a subdued relief comprising of gently undulating uplands and broad valleys with bands of low greenstone hills. The vegetation comprises of eucalypt woodlands which are rich in endemic eucalypts and occur around salt lakes on the low greenstone hills. Dwarf shrublands of samphire are supported by the surface of salt lakes. Upper levels of the landscape have eroded yielding yellow sandplains, gravelly sand plains and laterite breakaways, populated by mallees and scrub-heaths which are rich in endemic *Acacias* and



Myrtaceae species. The climate is arid to semi-arid with a warm mediterranean climate and a mainly winter rainfall of 250-300 mm. The subregional area is 7,041,232 ha (Cowan, Graham and McKenzie, 2001).

2.2.3 Soil Landscape Mapping

Soil landscape mapping of Western Australia consists of a compilation of various surveys at different scales varying between 1:20,000 and 1:3,000,000 (DPIRD, 2022). Soil and land systems have been described below to the highest level of detail available.

The Survey Area occurs across 10 land subsystems (Table 1; Map 3). Land subsystem level is the highest level of detail available for soil landscape mapping in the Survey Area at the time.

Table 1: Land systems within the Survey Area

| Land system | | Description | Area (ha) and extent within Survey Area |
|--------------------|-------|---|---|
| Name | Code | | |
| AC1 atlas system | 266d3 | Gently sloping to gently undulating plateau areas, or uplands, on granites, gneisses, and allied rocks, with long gentle slopes and, in places, abrupt erosional scarps | 618.26 2.58% |
| BB5 atlas system | 265g4 | Rocky ranges and hills of greenstones-basic igneous rocks | 1,386.82 5.78% |
| BB5 atlas system | 266g4 | Rocky ranges and hills of greenstones-basic igneous rocks | 2,893.74 12.06% |
| Mx41 atlas system | 265k7 | Flat to undulating pediments marginal to unit AC1; granitic rock outcrop; some low escarpments | 4,172.72 17.39% |
| Mx41 atlas system | 266k7 | Flat to undulating pediments marginal to unit AC1; granitic rock outcrop; some low escarpments | 2,129.25 8.88% |
| Mx42 atlas system | 266k8 | Broad flat to undulating valleys with isolated granitic rock outcrops and some low escarpments; some seasonal lakes and clay pans | 5,326.48 22.20% |
| Mx43 atlas system | 265k9 | Gently undulating valley plains and pediments; some outcrop of basic rock | 273.47 1.14% |
| Mx43 atlas system | 266k9 | Gently undulating valley plains and pediments; some outcrop of basic rock | 4,312.61 17.98% |
| My154 atlas system | 265l8 | Undulating country on acid volcanic rocks and sedimentary materials | 511.23 2.13% |
| My154 atlas system | 266l8 | Undulating country on acid volcanic rocks and sedimentary materials | 1,417.54 5.90% |
| My54 atlas system | 265m2 | Broad very gently undulating plains with scattered rock outcrops occurring as mesas | 366.49 1.53% |



| Land system | | Description | Area (ha) and extent within Survey Area |
|-------------------------|-------|---------------------------------------|--|
| Name | Code | | |
| SV15 atlas system | 266n6 | Salt lakes and their associated areas | 582.74 2.43% |

2.2.4 Hydrography

Hydrographic features that either intersect or occur in the vicinity of the Survey Area are described in Table 2 and shown in Map 4 (DWER, 2018).

Table 2: Hydrographical features in the vicinity of the Survey Area

| Hydrographical feature | Description |
|---------------------------|--|
| Non-perennial watercourse | An unnamed non-perennial watercourse running through the northwest polygon of the Survey Area. |
| Non-perennial watercourse | An unnamed non-perennial watercourse running through the north of the southeast polygon of the Survey Area. |
| Minor drainage | A series of tributary water courses running into the non-perennial watercourse in the northwestern polygon of the Survey Area. |
| Lake – non-perennial | Six non-perennial lakes within the Survey Area. |
| Lake Lefroy | Salt lake 21 km southeast of the Survey Area. |

2.2.5 Pre-European Vegetation

The major source of data for pre-European vegetation mapping in Western Australia are the published and unpublished mapping of J. S. Beard at 1:250,000 scale. These vegetation types were later refined by Shepherd, Beeston, and Hopkins (2002), resulting in 819 Vegetation Association-level units, and a subsequent reclassification resulted in the creation of over 2,175 finer-scale System Associations (Beard *et al.*, 2013). Five System Associations are mapped within the Survey Area (Table 3; Map 5).

Representation of Vegetation Associations at a State, regional, and local level is shown in Table 4 (Government of Western Australia, 2019).

Table 3: Vegetation System Associations within the Survey Area

| System Association | Description | Area (ha) and extent within Survey Area |
|--------------------|--|---|
| Binneringe_9 | Wheatbelt; York gum, salmon gum etc. <i>Eucalyptus loxophleba</i> , <i>E. salmonophloia</i> . Goldfields; gimlet, redwood etc. <i>E. salubris</i> , <i>E. oleosa</i> . Riverine; rivergum <i>E. camaldulensis</i> . Tropical; messmate, woolybutt. | 583.03 2.43% |
| Boorabbin_1413 | Thicket: Wattle, <i>Casuarina</i> and teatree <i>Acacia-Allocasuarina-Melaleuca</i> alliance. | 483.51 2.02% |
| Coolgardie_123 | Mulga, other wattle, <i>Casuarina Atriplex</i> spp. <i>Maireana</i> spp. with <i>Acacia aneura</i> , <i>A. papyrocarpa</i> , <i>Allocasuarina cristata</i> | 98.59 0.41% |
| Coolgardie_125 | Rock. | 128.40 |



| System Association | Description | Area (ha) and extent within Survey Area |
|--------------------|--|---|
| | | 0.54% |
| Coolgardie_128 | Rock. | 2,537.39 10.58% |
| Coolgardie_1413 | Wattle, Casuarina and teatree <i>Acacia-Allocasuarina-Melaleuca</i> alliance. | 833.70 3.48% |
| Coolgardie_522 | Wheatbelt; York gum, salmon gum etc. <i>Eucalyptus loxophleba</i> , <i>E. salmonophloia</i> . Goldfields; gimlet, redwood etc. <i>E. salubris</i> , <i>E. oleosa</i> . Riverine; rivergum <i>E. camaldulensis</i> . Tropical; messmate, woolybush. | 2,503.53 10.44% |
| Coolgardie_9 | Woodland other: Wheatbelt; York gum, salmon gum etc. <i>Eucalyptus loxophleba</i> , <i>E. salmonophloia</i> . Goldfields; gimlet, redwood etc. <i>E. salubris</i> , <i>E. oleosa</i> . Riverine; rivergum <i>E. camaldulensis</i> . Tropical; messmate, woolybush. | 6,007.17 25.04% |
| Coolgardie_936 | Woodland other: Wheatbelt; York gum, salmon gum etc. <i>Eucalyptus loxophleba</i> , <i>E. salmonophloia</i> . Goldfields; gimlet, redwood etc. <i>E. salubris</i> , <i>E. oleosa</i> . Riverine; rivergum <i>E. camaldulensis</i> . Tropical; messmate, woolybush. | 10,815.92 45.08% |

Table 4: Vegetation Associations within the Survey Area and their representation at the state, regional, and local levels

| Vegetation Association | Extent | | | |
|---|-------------------|--------------|---------------|--|
| | Pre-European (ha) | Current (ha) | Remaining (%) | Managed in DBCA Lands (%) [*] |
| Representation across Western Australia | | | | |
| 9 | 240,509.33 | 235,161.94 | 97.78 | 8.07 |
| 1413 | 1,679,916.32 | 1,286,855.48 | 76.60 | 17.25 |
| 123 | 9,090.22 | 8,902.02 | 97.93 | 0.00 |
| 125 | 3,485,785.49 | 3,146,487.22 | 90.27 | 8.45 |
| 128 | 329,836.19 | 288,813.54 | 87.56 | 23.92 |
| 522 | 709,714.81 | 709,228.05 | 99.93 | 5.55 |
| 936 | 698,752.00 | 676,689.18 | 96.84 | 4.14 |
| Representation across the Coolgardie Bioregion | | | | |
| 9 | 240,441.99 | 235,100.97 | 97.78 | 8.07 |
| 1413 | 1,061,212.28 | 1,042,553.77 | 98.24 | 18.50 |
| 123 | 9,090.22 | 8,902.02 | 97.93 | 0.00 |
| 125 | 545,717.86 | 506,802.71 | 92.87 | 7.04 |
| 128 | 184,549.90 | 183,891.19 | 99.64 | 18.85 |
| 522 | 688,406.97 | 687,920.22 | 99.93 | 5.72 |
| 936 | 586,792.23 | 584,336.14 | 99.58 | 3.10 |



| Vegetation Association | Extent | | | |
|--|-------------------|--------------|---------------|--|
| | Pre-European (ha) | Current (ha) | Remaining (%) | Managed in DBCA Lands (%) [*] |
| Representation across the Southern Cross (COO02) Subregion | | | | |
| 9 | 5,394.84 | 5,343.90 | 99.06 | 0.06 |
| 1413 | 953,237.73 | 934,825.95 | 98.07 | 19.76 |
| 123 | 0 | 0 | 0 | 0 |
| 125 | 232,861.61 | 196,591.27 | 84.42 | 12.56 |
| 128 | 156,192.81 | 155,552.26 | 99.59 | 21.09 |
| 522 | 480,231.80 | 480,206.00 | 99.99 | 7.32 |
| 936 | 275,894.49 | 275,876.53 | 99.99 | 1.67 |
| Representation across the Eastern Goldfield (COO03) Subregion | | | | |
| 9 | 235,047.15 | 229,757.07 | 97.75 | 8.26 |
| 1413 | 107,974.55 | 107,727.82 | 99.77 | 7.54 |
| 123 | 9,090.22 | 8,902.02 | 97.93 | 0.00 |
| 125 | 303,090.73 | 300,445.92 | 99.13 | 3.22 |
| 128 | 26,871.74 | 26,853.58 | 99.93 | 6.53 |
| 522 | 208,175.17 | 207,714.22 | 99.78 | 2.02 |
| 936 | 310,897.74 | 308,459.61 | 99.22 | 4.38 |
| Representation across the Shire of Coolgardie | | | | |
| 9 | 166,572.37 | 163,720.39 | 98.29 | 9.81 |
| 1413 | 334,488.08 | 334,256.37 | 99.93 | 8.16 |
| 123 | 6,008.61 | 6,008.61 | 100.00 | 0.00 |
| 125 | 152,428.40 | 150,072.36 | 98.45 | 5.80 |
| 128 | 96,232.93 | 96,215.07 | 99.98 | 13.56 |
| 522 | 313,238.77 | 312,787.98 | 99.86 | 11.54 |
| 936 | 359,112.73 | 356,674.60 | 99.32 | 4.02 |

*as a portion of the current extent

2.2.6 Environmentally Sensitive and Conservation Areas

Environmentally Sensitive Areas (ESAs) are declared by the Department of Water and Environmental Regulation (DWER) to prevent the degradation of important environmental values such as Threatened flora, Threatened Ecological Communities (TECs), or significant wetlands. The Survey Area does not occur within a mapped ESA (DWER, 2023).

Conservation Areas consist of areas protected for the purpose of conservation, including but not limited to National Parks, Nature Reserves, Conservation Parks, and Regional Parks.

The Survey Area does not occur within a Conservation Area (DBCA, 2023a, 2023b) (Map 6). The nearest Conservation Areas are:

- Yallari Timber Reserve; overlaps the southeast polygon of the Survey Area and is vested under the Conservation Commission of WA.



- Scahill Timber Reserve; located approximately 4 km west of the southeast polygon of the Survey Area and is vested under the Conservation Commission of WA.
- Karamindie Forest; located approximately 5.8 km north of the southeast polygon, and 7 km east of the northwest polygon of the Survey Area and is vested under the Conservation Commission of WA.
- Kambalda Timber Reserve; located 3.5 east of the southeast polygon of the Survey Area and is vested under the Conservation Commission of WA.
- Kambalda Nature Reserve; located 5.7 km east of the southeast polygon of the Survey Area and is vested under the Conservation Commission of WA.
- Kangaroo Hills Timber Reserve; located 4 km west of the northwest polygon of the Survey Area and is vested under the Conservation Commission of WA.

2.2.7 Land Use

Woolibar Pastoral station (N050022, N050023) encompassed a portion of the southeast polygon and was immediately adjacent to the northwest polygon of the Survey Area. Calooli Pastoral Station also bordered the northwest polygon of the Survey Area. Exploration and mining leases identified within the Survey Area:

- Reed Industrial Minerals Pty Ltd (E 1501599; L 1500315; L 1500316; L 1500317; L 1500321; L 1500353; L 1500360; L 1500392; M 1501000; M 1500717; M 1500999)
- Mcaulay, Darren Michael (E 1502063; E 1502064)
- Equinox Resources Limited (E 1501902)
- Process Minerals International Pty Ltd (L 1500376)
- St Ives Gold Mining Company (E 1500972; E 1500984; M 1500841)

2.2.8 Indigenous Land Rights

The Survey Area falls within the Goldfields Land and Sea Council Aboriginal Group jurisdiction area (NNTT, 2017) and has one native title determination over the area (Landgate, 2023a), Marlinyu Ghoorlie People (NNTT no. WC2017/007).

There are no Indigenous Land Use Agreements (ILUAs) over the Survey Area (Landgate, 2023b).

3.0 Methods

The surveys documented in this report were undertaken in accordance with relevant EPA, DBCA, and DAWE guidelines (see Section 2.1).

3.1 Desktop Assessment

Background information on the Survey Area and surrounds (the Desktop Study Area) was compiled prior to the field survey (see Section 2.2), as well as a desktop assessment for significant invertebrate fauna taxa. The desktop assessment comprised a review of recent and nearby literature, a search of relevant databases, and a likelihood of occurrence assessment.

3.1.1 Literature Review

The literature review considered a selection of relevant reports detailing assessments undertaken in the region that were either publicly available or provided by the client. These reports are listed below and summarised in Appendix B.



- Mt Marion Hamptons Tenements Terrestrial Fauna Surveys (SLR Consulting, 2024a), overlaps the Survey Area.
- Mt Marion Mining Tenements Terrestrial Fauna Surveys (SLR Consulting, 2024b), overlaps the Survey Area.
- Mt Marion Fauna Assessment: Hamptons Lease Area 53, L15/353, M15/999, and East E15/1599 (Bamford Consulting Ecologists, 2022), overlaps the Survey Area.
- Targeted survey for the Arid Bronze Azure Butterfly – Spargos (Terrestrial Ecosystems, 2021), 3 km south of the Survey Area.
- Survey of the Arid Bronze Azure Butterfly Cracking and Leaching Plant and By-product Storage Unit (Onshore Environmental, 2021), 30 km north of the Survey Area.
- Basic and Targeted Fauna Survey for the Crossroads Project (Phoenix, 2023), 55 km north of the Survey Area.

3.1.2 Database Searches

Database searches were undertaken to compile a list of significant invertebrate fauna and identify previous records within the Desktop Study Area (Table 5).

Table 5: Database search details

| Database Name | Date Received | Search Target | Buffer around the Survey Area |
|---|---------------|-------------------------------|-------------------------------|
| Threatened and Priority Fauna database search (DBCA, 2023c) | 28 June 2023 | Threatened and Priority fauna | 100 km |
| Protected Matters Search Tool (PMST) (DCCEEW, 2023) | July 2023 | Threatened fauna | 50 km |
| NatureMap (DBCA, 2023d) | 28 June 2023 | Fauna | 100 km |

3.1.3 Likelihood of Occurrence

Significant invertebrate fauna taxa identified from the literature review and database searches were assessed to determine their likelihood of their occurrence within the Survey Area. The assessment used the likelihood of occurrence criteria presented in Table 6. Only taxa that have been recorded within the Survey Area or were assessed as having a high or medium likelihood of occurrence are discussed in detail.

Table 6: Likelihood of occurrence criteria

| Rank | Criteria |
|------------------------|---|
| Recorded | The taxon was recorded within the Survey Area during the current survey. |
| Previously Recorded | The taxon has been previously recorded within the Survey Area according to database search or literature review results. |
| High (Likely to occur) | There are existing records of the taxon near the Survey Area, suitable habitat is present within the Survey Area, and the taxon has been recorded within the Desktop Study Area in the last 15 years. |
| Medium (May occur) | There are existing records of the taxon within the Desktop Study Area, however, the taxon does not meet the criterion for high likelihood, or |



| Rank | Criteria |
|----------------------------|--|
| | suitable habitat within the Survey Area is marginal or limited in extent, or the taxon has not been recorded within the Desktop Study Area in the last 15 years. |
| Low (Unlikely to occur) | Suitable habitat is not present within the Survey Area, or the taxon is very infrequently recorded in the locality despite reasonable previous search effort, or the taxon is believed to be extinct or locally extinct. |

3.2 Field Surveys

3.2.1 Survey Timing

The field surveys were undertaken across five field trips as shown in Table 7. Survey effort is displayed in Map 7.

Table 7: Survey timing

| Survey trip | Tasks completed | Dates | Person field days |
|-------------|--|-----------------------|-------------------|
| 1 | Delineation of ant colonies, ABAB survey at all colonies | 19 – 23 February 2024 | 30 |
| 2 | ABAB survey at all colonies | 5 – 9 March 2024 | 10 |
| 3 | ABAB survey at all colonies | 18 – 22 March 2024 | 10 |
| 4 | ABAB survey at all colonies | 2 – 6 April 2024 | 10 |
| 5 | ABAB survey at all colonies | 15 – 19 April 2024 | 8 |

3.2.2 Field Personnel and Licences

Details of field personnel, including their level of experience, and role for each field trip are detailed in Table 8.

Fauna fieldwork was completed under Fauna Taking (Biological Assessment) License – Regulation 27 (BA27000901) and an authorisation to Take or Disturb Threatened Species under Section 40 of the BC Act (TFA 2223-0026) (Appendix C). Animal ethics approval was obtained under scientific use licence number U336 / 2023 - 2025 and permit number WAEC 24-02-12.

Table 8: Field personnel

| Personnel | Experience | Role | Trips |
|--|------------|---|---------|
| Dr. Michael Lohr – Principal Zoologist | 11 years | Project Director, field logistics, team lead | 1 & 2 |
| Dr. Rod Eastwood – ABAB Specialist | 50 years | Specialist ABAB and associated ant species consultant | 1 - 5 |
| Evan Webb – Associate Zoologist | 7 years | Field logistics, team lead | 1,3,4,5 |



| Personnel | Experience | Role | Trips |
|----------------------------------|------------|--|-------|
| Simon Girando – Senior Ecologist | 5 years | Project Manager, field lead, logistics coordinator | 1 |
| Datta Li – Zoologist | 2 years | Field hand | 1 |
| Lewis Berry – Ecologist | 2 years | Field hand | 1 |

3.2.3 Weather Conditions

The DBCA Guideline outlines that a survey for ABAB can only be conducted in fine weather with a forecast maximum temperature $\geq 23^{\circ}\text{C}$ (DBCA, 2020b). Of the 24 days surveyed, three of them had a maximum forecast below the recommended temperature for survey. Trip 2 recorded a large amount of cloud cover for the duration of the trip which may have affected butterfly activity. Likewise, trip 3 also recorded elevated cloud cover but it is unlikely to have affected butterfly activity. Weather conditions during the fauna surveys are presented in the tables below (Table 9 - Table 13). Daily temperature, rainfall, cloud cover, and wind speed data are taken from the Kalgoorlie-Boulder Airport Weather Station (Station 012038) (BoM, 2024).

Table 9: Trip 1 weather conditions

| Date | Temperature ($^{\circ}\text{C}$) | | Rainfall (mm) | Cloud Cover (%) | Wind (Avg kph) |
|------------|------------------------------------|------|---------------|-----------------|----------------|
| | Min | Max | | | |
| 19/02/2024 | 26.3 | 42.8 | 0 | 0 | 18.0 ENE |
| 20/02/2024 | 27.1 | 43.8 | 0 | 0 | 15.8 NE |
| 21/02/2024 | 27.1 | 46.5 | 0 | 0 | 20.9 NW |
| 22/02/2024 | 17.7 | 31.9 | 0 | 0 | 24.1 ESE |
| 23/02/2024 | 15.8 | 31.8 | 0 | 0 | 23.8 ESE |

Table 10: Trip 2 weather conditions

| Date | Temperature ($^{\circ}\text{C}$) | | Rainfall (mm) | Cloud Cover (%) | Wind (Avg kph) |
|------------|------------------------------------|------|---------------|-----------------|----------------|
| | Min | Max | | | |
| 05/03/2024 | 20.0 | 29.2 | 14.0 | 100 | 23.4 SE |
| 06/03/2024 | 19.2 | 28.8 | 0 | 100 | 26.3 ESE |
| 07/03/2024 | 19.4 | 26.7 | 0 | 100 | 20.2 ESE |
| 08/03/2024 | 19.8 | 32.8 | 0 | 87.5 | 14.0 N |
| 09/03/2024 | 15.2 | 16.9 | 50.2 | 100 | 23.0 S |

Table 11: Trip 3 weather conditions

| Date | Temperature ($^{\circ}\text{C}$) | | Rainfall (mm) | Cloud Cover (%) | Wind (Avg kph) |
|------------|------------------------------------|------|---------------|-----------------|----------------|
| | Min | Max | | | |
| 18/03/2024 | 21.4 | 30.4 | 0 | 50 | 15.1 S |
| 19/03/2024 | 15.6 | 21.7 | 0.6 | 62.5 | 25.9 S |



| Date | Temperature (°C) | | Rainfall (mm) | Cloud Cover (%) | Wind (Avg kph) |
|------------|------------------|------|---------------|-----------------|----------------|
| | Min | Max | | | |
| 20/03/2024 | 10.9 | 22.0 | 0 | 45 | 23.54 E |
| 21/03/2024 | 11.0 | 24.9 | 0 | 0 | 18.7 E |
| 22/03/2024 | 13.3 | 23.9 | 0 | 37.5 | 25.9 E |

Table 12: Trip 4 weather conditions

| Date | Temperature (°C) | | Rainfall (mm) | Cloud Cover (%) | Wind (Avg kph) |
|------------|------------------|------|---------------|-----------------|----------------|
| | Min | Max | | | |
| 02/04/2024 | 11.7 | 24.3 | 0 | 0 | 15.1 E |
| 03/04/2024 | 10.8 | 24.2 | 0 | 0 | 13.3 SE |
| 04/04/2024 | 11.5 | 23.9 | 0 | 0 | 15.5 E |
| 05/04/2024 | 13.6 | 27.1 | 0 | 0 | 13.3 ENE |
| 06/04/2024 | 13.7 | 29.4 | 0 | 0 | 11.2 E |

Table 13: Trip 5 weather conditions

| Date | Temperature (°C) | | Rainfall (mm) | Cloud Cover | Wind (Avg kph) |
|------------|------------------|------|---------------|-------------|----------------|
| | Min | Max | | | |
| 15/04/2024 | 12.3 | 25.3 | 0.2 | 0% | 14.4 ESE |
| 16/04/2024 | 12.9 | 26.7 | 0 | 0% | 19.4 ESE |
| 17/04/2024 | 12.8 | 27.1 | 0 | 0% | 15.8 E |
| 18/04/2024 | 13.4 | 24.1 | 0 | 0% | 15.1 ESE |

3.2.4 ABAB Ant Colony Delineation

The four colonies previously discovered were partially delineated during the 2023 surveys conducted by SLR (SLR Consulting, 2024a, 2024b). This survey expanded on the previous efforts and continued mapping the colony boundaries by searching for ant nests identified as C. sp. nr. *terebrans*. Evidence includes a sandy apron, fresh debris, and one or more irregularly shaped nest entrance holes. Trees were opportunistically observed with the nest evidence while traversing suitable habitat for the species. If evidence of a nest was observed, then the surface layer of soil around the nest was removed and visual presence of the ant was verified. Once verified, the nest location was recorded using the mobile app Fulcrum and this information was used to delineate the colony boundaries, as well as provide an estimate of nest densities within each colony.

3.2.5 Targeted ABAB Surveys

Five targeted ABAB surveys were conducted over the supplementary survey period, as per the DBCA guidelines (DBCA, 2020b). The four colonies were systematically surveyed following a modified Pollard Walk protocol (Pollard, 1977), focusing on roads and tracks (if present), as well as open areas where male butterflies may set up territories seeking females.

Butterflies were collected by hand nets and were euthanised in the field with ethyl acetate, then stored in small envelopes in a moist container at 3°C for transport back to Perth. All



specimens collected were transported, labelled, catalogued, and stored as per WA Museum (WAM) protocols.

3.2.6 Identification and Taxonomy

Terrestrial fauna taxa were sampled in the field and taken for laboratory identification. Ant specimens were formally identified by experienced taxonomist Brian Heterick, and butterfly specimens were formally identified by experienced taxonomist Dr Rod Eastwood.

Where there was doubt on a species name (through subsequent name changes or taxonomic reviews), an effort was made to determine the current scientific name for each taxon. Taxonomy and nomenclature in this report follows the WAM checklist 2024 (WAM, 2023) where relevant.

3.3 Limitations

Limitations and constraints of the survey are detailed below in Table 14.

Table 14: Limitations and constraints associated with the survey

| Variable | Degree of limitation | Potential constraints on survey outcomes |
|---|----------------------|---|
| Availability of data and information | No limitation | Sufficient data and information, including regional and local contextual information, was available to complete the scope of the survey. |
| Competency and experience of the survey team | No limitation | The survey was undertaken by a team with extensive experience undertaking similar scopes within the bioregion. <ul style="list-style-type: none">• Principle Zoologist, Dr Michael Lohr – 11 years' experience• Specialist Ecologist, Dr Rod Eastwood – 50 years' experience• Associate Zoologist, Evan Webb – 7 years' experience• Senior Ecologist, Simon Girando – 5 years' experience• Graduate Zoologist, Datta Li – 2 years' experience• Graduate Ecologist, Lewis Berry – 2 years' experience |
| The proportion of fauna identified, recorded, or collected | No limitation | Only one fauna taxon was recorded, which was identified in the field and verified by an experienced taxonomist from the WAM. No other target species were recorded during the survey effort. |
| Scope of the survey | No limitation | The scope of the survey was fulfilled and considered complete. |
| Adequacy of the survey intensity and proportion of survey achieved | No limitation | All ant colonies within the Survey Area were delineated and adequate intensity was allocated to systematically survey each colony for ABAB according to the guidelines. A full survey was achieved during the supplementary survey period. |
| Access problems | No limitation | The Survey Area was sufficiently accessed by vehicle and on foot. |
| Timing, weather, and season | Partial limitation | The recommended primary survey period for the ABAB is mid-September to late October, with a supplementary period between November and late April. The survey was conducted during the supplementary survey period. |



| Variable | Degree of limitation | Potential constraints on survey outcomes |
|---|----------------------|---|
| | | The weather during trip 2 of the survey was overcast and the final day of the trip recorded over 50 mm of rain. Trip 3 also recorded two days below the recommended temperature for survey and an elevated cloud cover. This reduces the number of suitable days for ABAB surveys and may affect survey adequacy. |
| Disturbance that may have affected the results of survey | No limitation | Areas of disturbance associated with mining activity, roads, and infrastructure were present within the Survey Area but were not a limitation on the results of the survey. |
| Problems with data and analysis, including sampling biases | No limitation | Survey effort for the target species was concentrated in areas of high ant-nest density within the preferred habitats. ABAB are known to be more plentiful near concentrations of ant nests (Dr Rod Eastwood pers. obs.). This may introduce a bias where the use of low nest density is underrepresented, however, this is not considered a limitation on the survey outcomes. |

4.0 Results

4.1 Desktop Assessment

The database searches and literature review identified two significant lepidopteran taxa occurring within the Desktop Study Area, comprising:

- Arid Bronze Azure Butterfly (*Ogyris petrina*) – CR (BC Act); CR (EPBC Act).
- Inland Hairstreak Butterfly (*Jalmenus aridus*) – P1 (DPCA).

Key findings of the desktop assessment are summarised in Table 15, a complete list of invertebrate fauna taxa recorded within the Desktop Study Area is presented in Appendix D, and database search results are displayed in



Map 8.



Table 15: Fauna likelihood of occurrence

| Family | Scientific Name | Conservation Status | | Habitat | Previous Records | Likelihood of Occurrence |
|----------------------|--|---------------------|--------------|---|--|--|
| | | State | Commonwealth | | | |
| Invertebrates | | | | | | |
| Lycaenidae | <i>Ogyris petrina</i> Arid Bronze Azure Butterfly | CR | CR | This species requires the host ant <i>Camponotus</i> sp. nr. <i>terebrans</i> to be present in large enough colonies (> 40 ha) to support the species within the colony (DBCA, 2020b). | The DBCA database search identified 55 records within 100 km of the Survey Area, including 18 km and 19 km north in 1991 (DBCA, 2023c) | High Four <i>Camponotus</i> sp. nr. <i>terebrans</i> colonies recorded, all of which are large enough to support ABAB. The proximity of these colonies to each other significantly increases the likelihood that ABAB may be present within the landscape. |
| Lycaenidae | <i>Jalmenus aridus</i> Inland Hairstreak Butterfly | P1 | - | This species prefers habitats of open woodland with stands of mixed young and mature <i>Senna</i> shrubs in an area $\geq 2000 \text{ m}^2$. They also prefer a variety of flowering shrubs such as <i>Eremophila</i> , <i>Scaveola</i> , and <i>Maireana</i> . This species is also associated with the ant species <i>Froggattella kirbii</i> (Eastwood et al., 2023). | The DBCA database identified 5 records within 100 km of the Survey Area, most of which are 20 km north in 1997 (DBCA, 2023c). SLR internal records show 16 records within 3 km of the Survey Area in 2021. | Recorded Recorded within the Survey Area during the survey effort |



4.2 ABAB Ant Colony Delineation

A total of 2588 *Camponotus* spp. nests were recorded within the Survey Area, of which 2576 were confirmed to be *C. sp. nr terebrans*. The remaining nests were identified as *Aphaenogaster mediterrae*, *Brachyponera lutea*, *C. cinereus amperei*, *C. claripes* sp complex JDM288, *C. gouldianus*, *Crematogaster whitei*, *Froggattella kirbii*, and *Rhytidoponera punctata*. The *C. sp. nr terebrans* nests were found across four separate colonies; a breakdown of each colony is provided in Table 16 below. Individual nest locations are presented in Appendix E and shown in Map 9. Inferred colony boundaries are shown in Map 9.

Table 16: Colony ID, area, abundance and portion of nests found during the survey

| Colony ID | Area (ha) | Abundance & portion of nests found |
|-----------|-----------|------------------------------------|
| 1 | 45.89 | 381, 14.79% |
| 2 | 133.79 | 370, 14.36% |
| 3 | 937.24 | 1082, 42.0% |
| 4 | 145.26 | 743, 28.84% |

4.3 Targeted ABAB Surveys

No ABAB were recorded within the Survey Area during the field survey at any of the four *C. sp. nr terebrans* colonies nor at the *C. gouldianus* colony. A total of 200 kms was traversed by foot over 24 days, of which 20 had fine weather suitable for ABAB survey.

A total of 39 Inland Hairstreak Butterflies (*Jalmenus aridus*) (P1) was recorded opportunistically within the Survey Area during the field survey. Of these records, 26 specimens were collected from four locations in the Survey Area and deposited in the WAM as primary records and for genetic studies (Plate 1). The *J. aridus* locations are displayed in Map 9. WAM submission information is displayed in Appendix F.





Plate 1: *Jalmenus aridus* specimens collected during the survey effort, fully prepared and deposited in the WAM.



6.0 Discussion

6.1 Ant Colony Delineation

Each of the four colonies that were delineated during this survey are considered large enough to support the ABAB, which a consensus of specialists (Matt Williams, Andy Williams, and Rod Eastwood) suggests a minimum of 40 ha should be considered for an isolated colony of ants. One of the four colonies was found to be the largest colony of *C. sp.* nr. *terebrans* currently known, further elevating its potential to support the ABAB. The four sites are also in close enough proximity that ABAB can migrate between them, meaning they should not be treated as isolated populations, but rather as a metapopulation so that context for the presence of ABAB should be considered over the combined area that the four ant colonies occupy.

Due to the size of the individual colonies, the proximity of the colonies to each other, and the proximity of previous records, there is the potential that the ABAB would be present at one or more of the colonies surveyed.

6.2 Butterfly Surveys

The targeted ABAB surveys utilised a variety of survey methods to adequately cover the four colonies within the timeframes allocated. A larger timeframe may have increased adequacy but is unlikely to have yielded additional results. The survey is considered adequate for an ABAB survey conducted within the supplementary survey period, however, a survey during the primary flight period has the potential to produce results. ABAB subpopulations are known to have two generations annually, one in spring and one in autumn. However, the Barbalin site which is monitored annually did not have an emergence in autumn during 2024; nor did a second subpopulation approximately 100 km from Barbalin (Dr Rod Eastwood pers. coms.). It is inferred that if ABAB is at the Mt Marion site, it too may have skipped an autumn flight this year. This is likely due to the extremely low rainfall and above average temperatures that were observed in this region over the 2023-2024 summer period.

The weather during the field surveys was a partially limiting factor, with four of the field days considered unsuitable for survey due to rain, overcast conditions, or temperatures below the recommended 23°C. Due to this, the survey effort was reduced from 24 person days in the field to 20 days of adequate conditions.

The *Jalmenus aridus* captures were not part of the initial scope of works but were collected opportunistically during the field survey. This was not an unexpected result as previous publications (SLR Consulting, 2024a, 2024b) predicted a high likelihood of occurrence in the area. The specimens were retained by the WAM as primary record data and will help to inform genetic studies on the species.



7.0 Conclusion

- Four ant colonies were delineated which were approximately 145.26 ha, 45.89 ha, 133.79 ha, 937.24 ha. All of these are considered large enough to support ABAB.
- The proximity of these four colonies is such that migration of butterflies between colonies is plausible.
- No ABAB were recorded during the supplementary survey period in either *C. sp. nr. terebrans* or *C. gouldianus* colonies.
- 39 Inland Hairstreak Butterflies (*Jalmenus aridus*) (P1) were opportunistically recorded during the field survey, of which 26 were retained as primary record specimens in the WAM.
- We recommend that a spring 2024 survey for ABAB be undertaken.



8.0 References

- Bamford Consulting Ecologists (2022) *Mt Marion Fauna Assessment: Hamptons Lease Area 53, L15/353, M15/999 and East E15/1599*. Perth.
- Beard, J.S. et al. (2013) 'The vegetation of Western Australia at the 1:3,000,000 scale. Explanatory memoir. Second edition', *Conservation Science W. Aust.*, 9(1), pp. 1–152.
- BoM (2007) *About Climate Statistics*. Available at: <http://www.bom.gov.au>.
- BoM (2024) *Climate Data Online*. Available at: <http://www.bom.gov.au>.
- Commonwealth of Australia (1999) *Environment Protection and Biodiversity Conservation Act 1999*. Australia. Available at: www.legislation.gov.au.
- Cowan, M. (2001) *Coolgardie 3 (COO3 – Eastern Goldfields subregion)*. Available at: https://www.dpaw.wa.gov.au/images/documents/about/science/projects/waaudit/coolgardie03_p156-169.pdf.
- Cowan, M., Graham, G. and McKenzie, N. (2001) *Coolgardie 2 (COO2 - Southern Cross subregion)*. Available at: https://www.dpaw.wa.gov.au/images/documents/about/science/projects/waaudit/coolgardie02_p143-155.pdf.
- DBCA (2020a) *Arid bronze azure butterfly (ABAB) survey in Western Australia additional information*.
- DBCA (2020b) *Guideline for the survey of arid bronze azure butterfly (ABAB) in Western Australia*.
- DBCA (2023a) *DBCA - Lands of Interest (DBCA-012)*. Available at: <https://catalogue.data.wa.gov.au>.
- DBCA (2023b) *DBCA - Legislated Lands and Waters (DBCA-011)*. Available at: <https://catalogue.data.wa.gov.au>.
- DBCA (2023c) *DBCA Threatened and Priority Fauna Database request (Custom Search)*.
- DBCA (2023d) *NatureMap Database Search*. Perth, Australia.
- DCCEEW (2023) *Protected Matters Search Tool*. Available at: <https://www.dcceew.gov.au/environment/epbc/protected-matters-search-tool>.
- DEE (2016) *Interim Biogeographic Regionalisation for Australia, Version 7*. Canberra, Australia. Available at: www.environment.gov.au.
- DoE (2013) *Matters of National Environmental Significance Significant impact guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999*. Canberra, Australia. Available at: <https://www.environment.gov.au>.
- DPIRD (2022) *Soil Landscape Mapping - Best Available (DPIRD-027)*. Perth, Australia. Available at: <https://catalogue.data.wa.gov.au>.
- DWER (2018) *Hydrography, Linear (Hierarchy) (DWER-031)*. Perth, Australia: Landgate. Available at: <https://catalogue.data.wa.gov.au>.
- DWER (2023) *Clearing Regulations - Environmentally Sensitive Areas (DWER-046)*. Perth, Australia. Available at: <https://catalogue.data.wa.gov.au/>.
- Eastwood, R. et al. (2023) 'Current distribution, preferred habitat, behaviour, and biology of the Inland Hairstreak, *Jalmenus aridus* Graham and Moulds, 1988 (Lepidoptera: Lycaenidae) in the Eastern Goldfields region of Western Australia', *Records of the Western Australian Museum*, 38(1), p. 68. Available at: <https://doi.org/10.18195/issn.0312-3162.38.2023.068-075>.



Government of Western Australia (1986) *Environmental Protection Act 1986*. Available at: www.legislation.wa.gov.au.

Government of Western Australia (2007) *Biosecurity and Agriculture Management Act 2007*. Available at: <https://www.legislation.wa.gov.au>.

Government of Western Australia (2016) *Biodiversity Conservation Act 2016*. Available at: www.legislation.wa.gov.au.

Government of Western Australia (2019) *2018 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of March 2019*. Available at: <https://catalogue.data.wa.gov.au>.

Landgate (2023a) *Native Title (Determinations) (LGATE066)*. Available at: <https://catalogue.data.wa.gov.au>.

Landgate (2023b) *Native Title (ILUA) (LGATE-067)*. Available at: <https://catalogue.data.wa.gov.au>.

NNTT (2017) *Representative Aboriginal and Torres Strait Islander Body Boundaries (NNTT-001)*. Available at: <https://catalogue.data.wa.gov.au>.

Onshore Environmental (2021) *Survey of the Arid Bronze Azure Butterfly Cracking and Leaching Plant and By-product Storage Site*. Perth, Australia.

Phoenix (2023) *Basic and Targeted Fauna Survey for the Crossroads Project*. Perth, Australia.

Pollard, E. (1977) 'A Method for Assessing Changes in the Abundance of Butterflies', *Biological Conservation*, 12, pp. 115–134.

Shepherd, D.P., Beeston, G.R. and Hopkins, A.J. (2002) *Native vegetation in Western Australia: Extent, type and status. Resource Management Technical Report 249*. Perth, Australia. Available at: <https://library.dpird.wa.gov.au>.

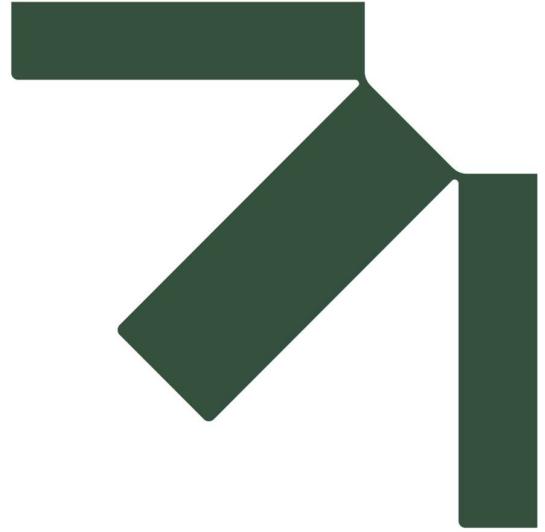
SLR Consulting (2024a) *Mt Marion Hamptons Tenements Terrestrial Fauna Survey - Basic Fauna and Targeted Malleefowl, Chuditch, and ABAB Surveys*.

SLR Consulting (2024b) *Mt Marion Mining Tenements Terrestrial Fauna Surveys - Basic Fauna and Targeted Malleefowl, Chuditch, and ABAB Surveys*.

Terrestrial Ecosystems (2021) *Targeted survey for the Arid Bronze Azure Butterfly – Spargos*. Perth, Australia.

WAM (2023) *Checklist of the Terrestrial Vertebrate Fauna of Western Australia*. Available at: <https://museum.wa.gov.au>.





Appendix A Maps

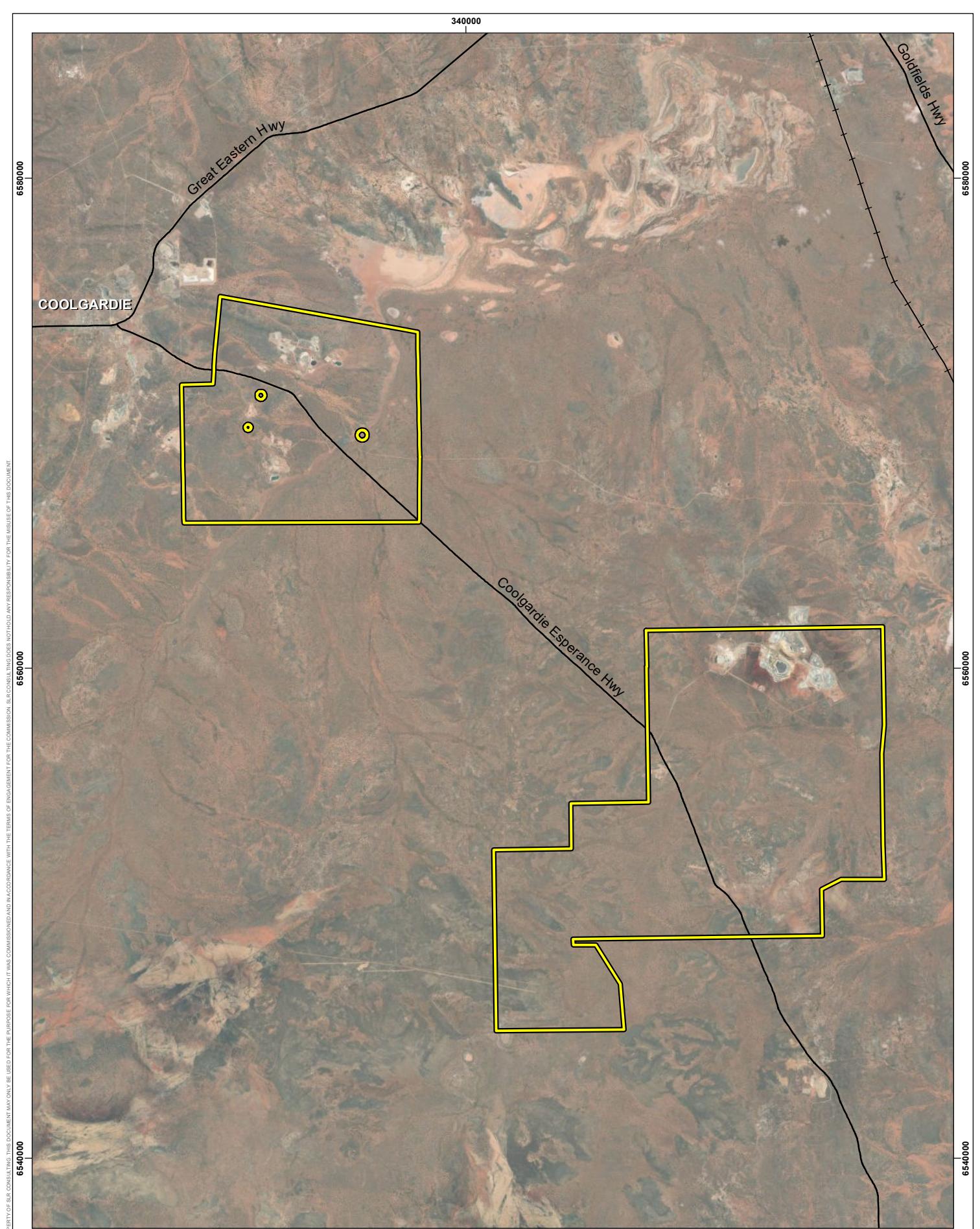
Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

Supplementary Surveys – Mt Marion

Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024



Service Layer Credits: Landgate / SLIP

Mineral Resources Limited

Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion



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Coordinate System: GDA2020 MGA Zone 51 @ A4

Scale : 1:200,000 @ A4

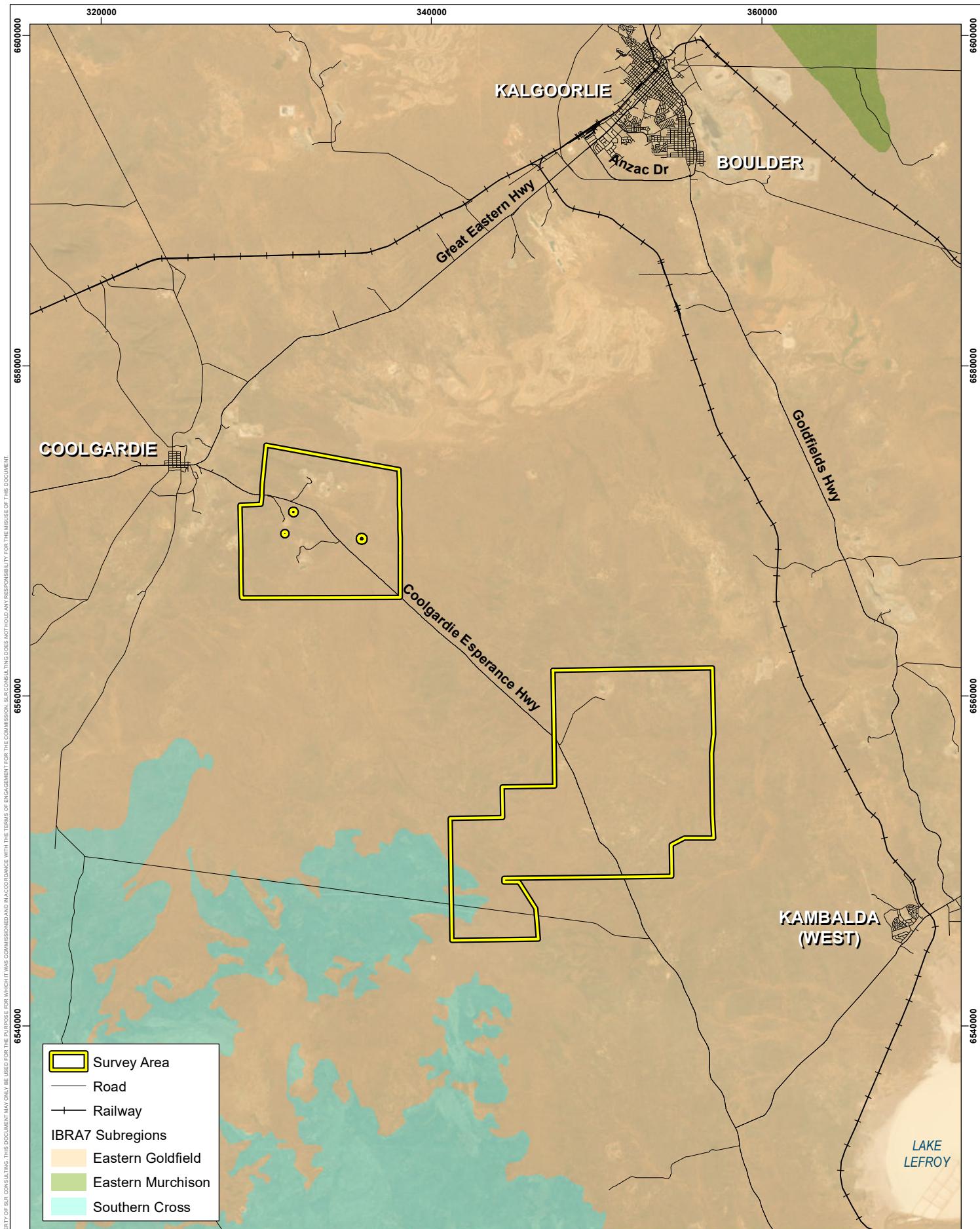
Project Number : 675.072272.00001

Date Drawn : 19/06/2024

Drawn By : Environmaps

Reviewed By : SG

Survey Area
MAP 1



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Coordinate System: GDA2020 MGA Zone 51 @ A4

Scale : 1:300,000 @ A4

Project Number : 675.072272.00001

Date Drawn : 19/06/2024

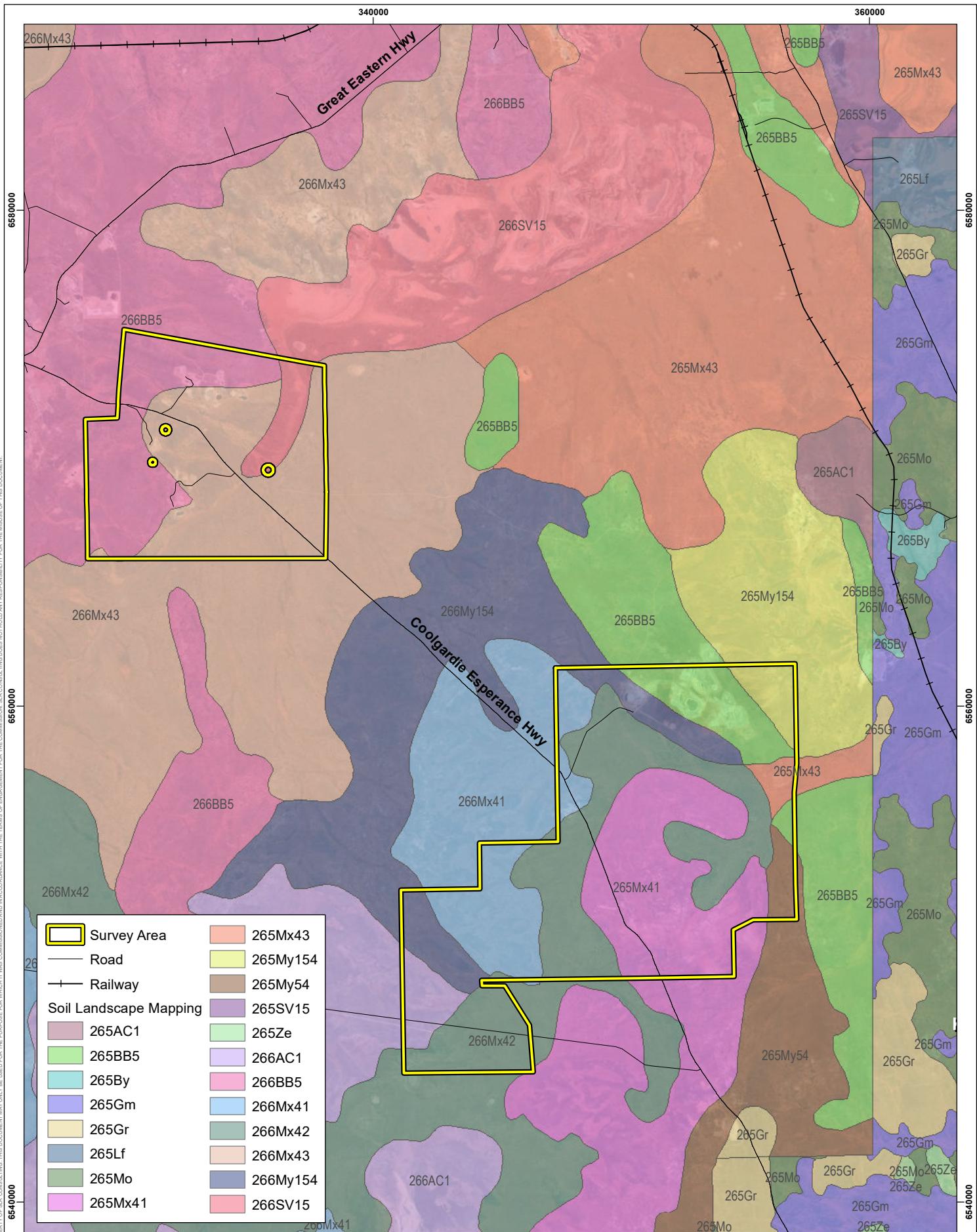
Drawn By : Environmaps

Reviewed By : SG

Mineral Resources Limited

Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

IBRA Subregions
MAP 2



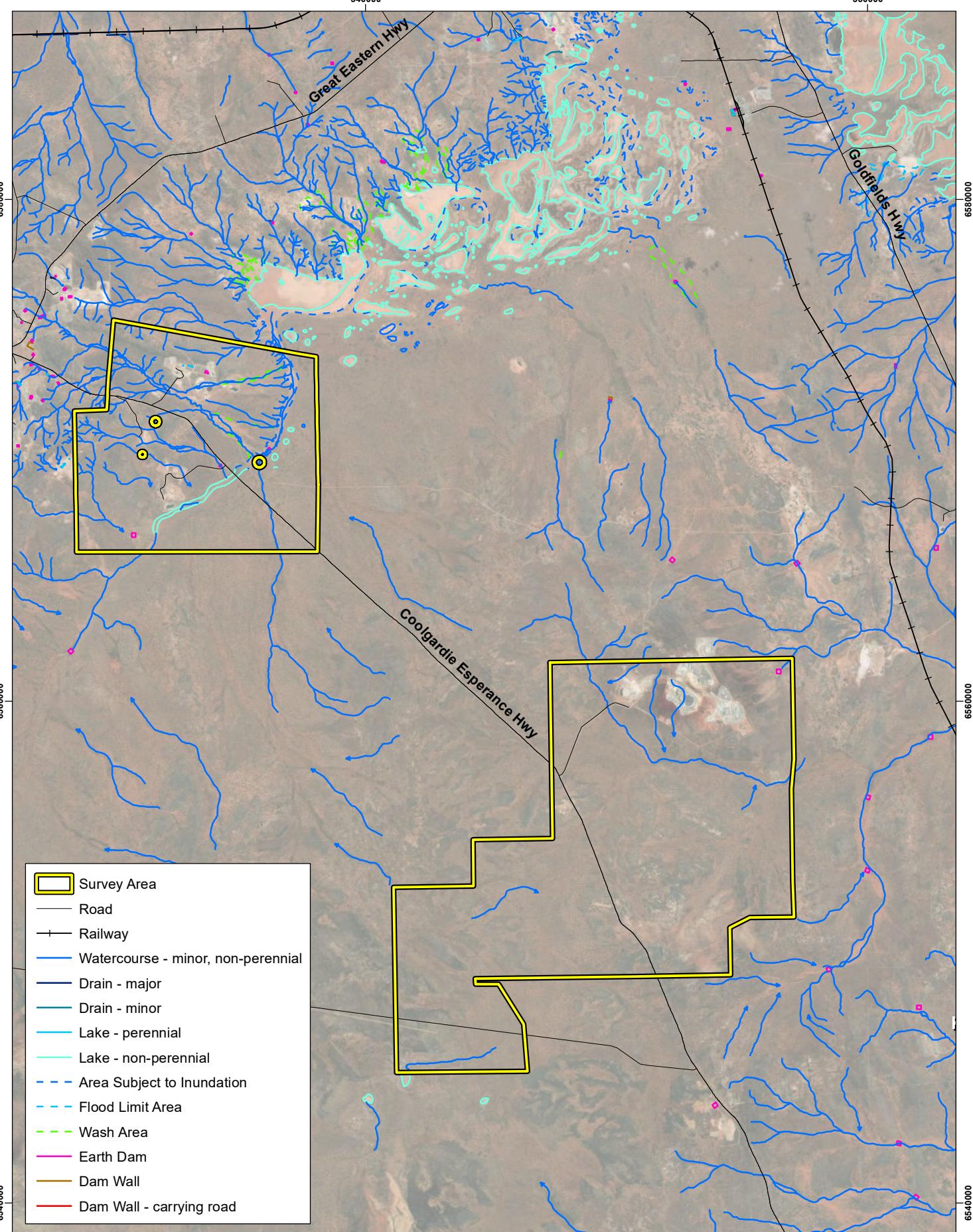
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A scale bar at the top left shows distances from 0 to 8 km. Below it is a north arrow pointing upwards. To the right is coordinate information: 'Coordinate System: GDA2020 MGA Zone 51 @ A4', 'Scale 1:200,000 @ A4', 'Project Number 675.072272.00001', 'Date Drawn 19/06/2024', 'Drawn By Environmaps', and 'Reviewed By SG'. The text is in a black sans-serif font.

Mineral Resources Limited
Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Soil Landscapes

MAP 3

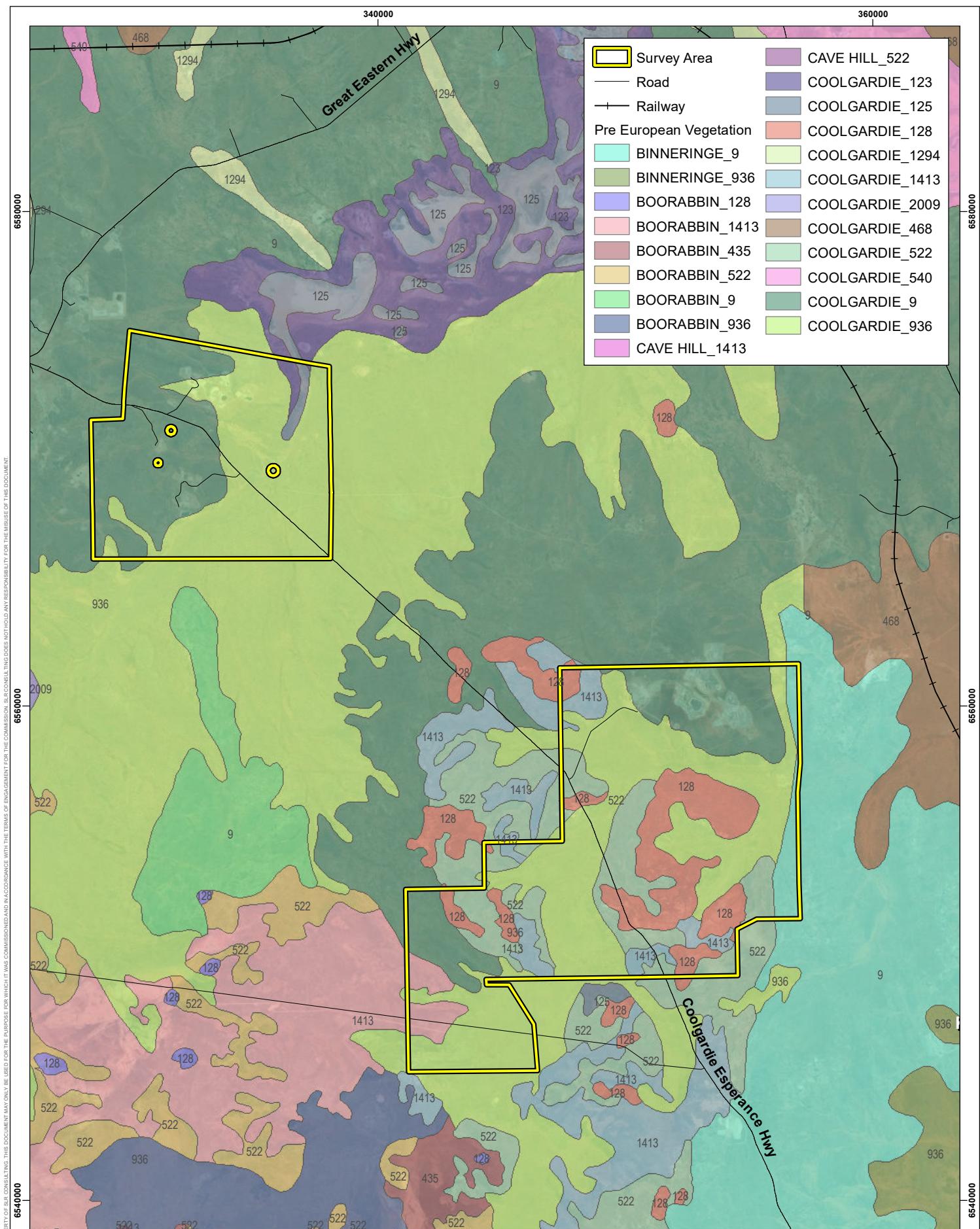


DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding data's accuracy or reliability for any purpose.

N 0 2 4 8 km
Service Layer Credits: Landgate / SLIP
Coordinate System: GDA2020 MGA Zone 51 @ A4
Scale : 1:200,000 @ A4
Project Number : 675.072272.00001
Date Drawn : 19/06/2024
Drawn By : Environmaps
Reviewed By : SG

Mineral Resources Limited
Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Hydrography
MAP 4



N 0 2 4 8 km
Service Layer Credits: Landgate / SLIP

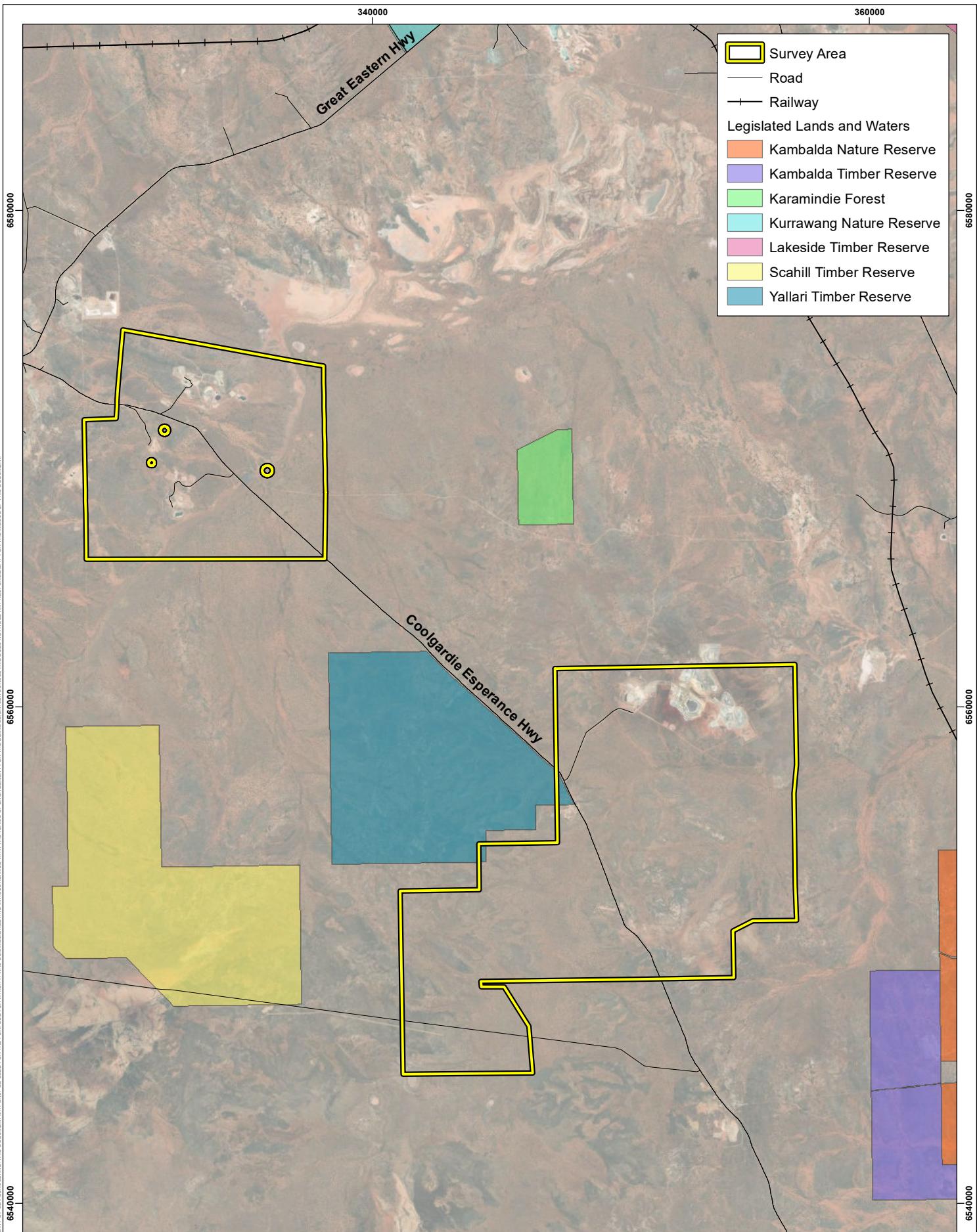
Mineral Resources Limited
Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion



Coordinate System: GDA2020 MGA Zone 51 @ A4
Scale : 1:200,000 @ A4
Project Number : 675.072272.00001
Date Drawn : 19/06/2024
Drawn By : Environmaps
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Pre-European Vegetation Associations MAP 5



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Service Layer Credits: Landgate / SLIP

Coordinate System: GDA2020 MGA Zone 51 @ A4

Scale : 1:200,000 @ A4

Project Number : 675.072272.00001

Date Drawn : 19/06/2024

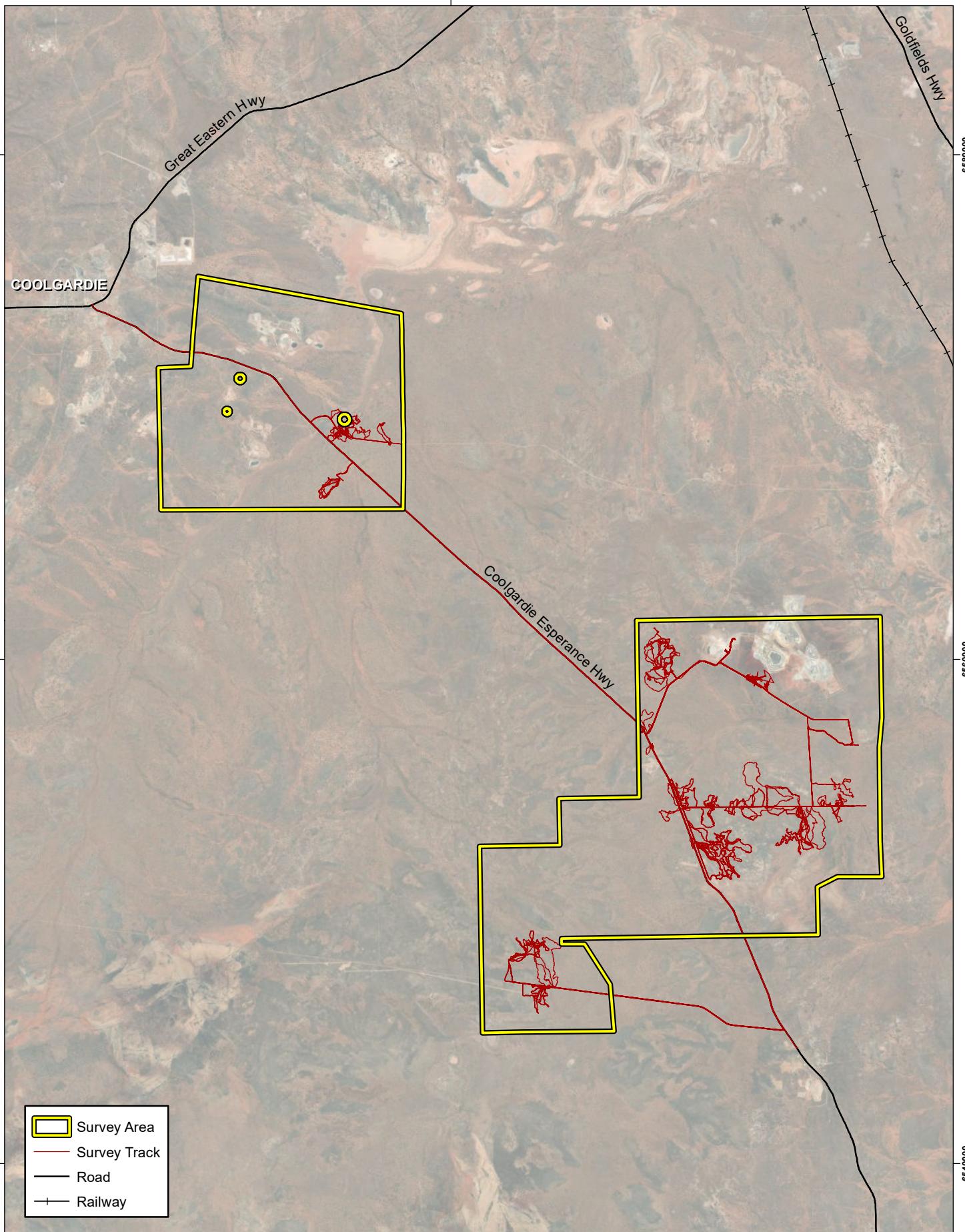
Drawn By : Environmaps

Reviewed By : SG

Mineral Resources Limited

Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Conservation Areas
MAP 6



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Coordinate System: GDA2020 MGA Zone 51 @ A4

Scale : 1:200,000 @ A4

Project Number : 675.072272.00001

Date Drawn : 19/06/2024

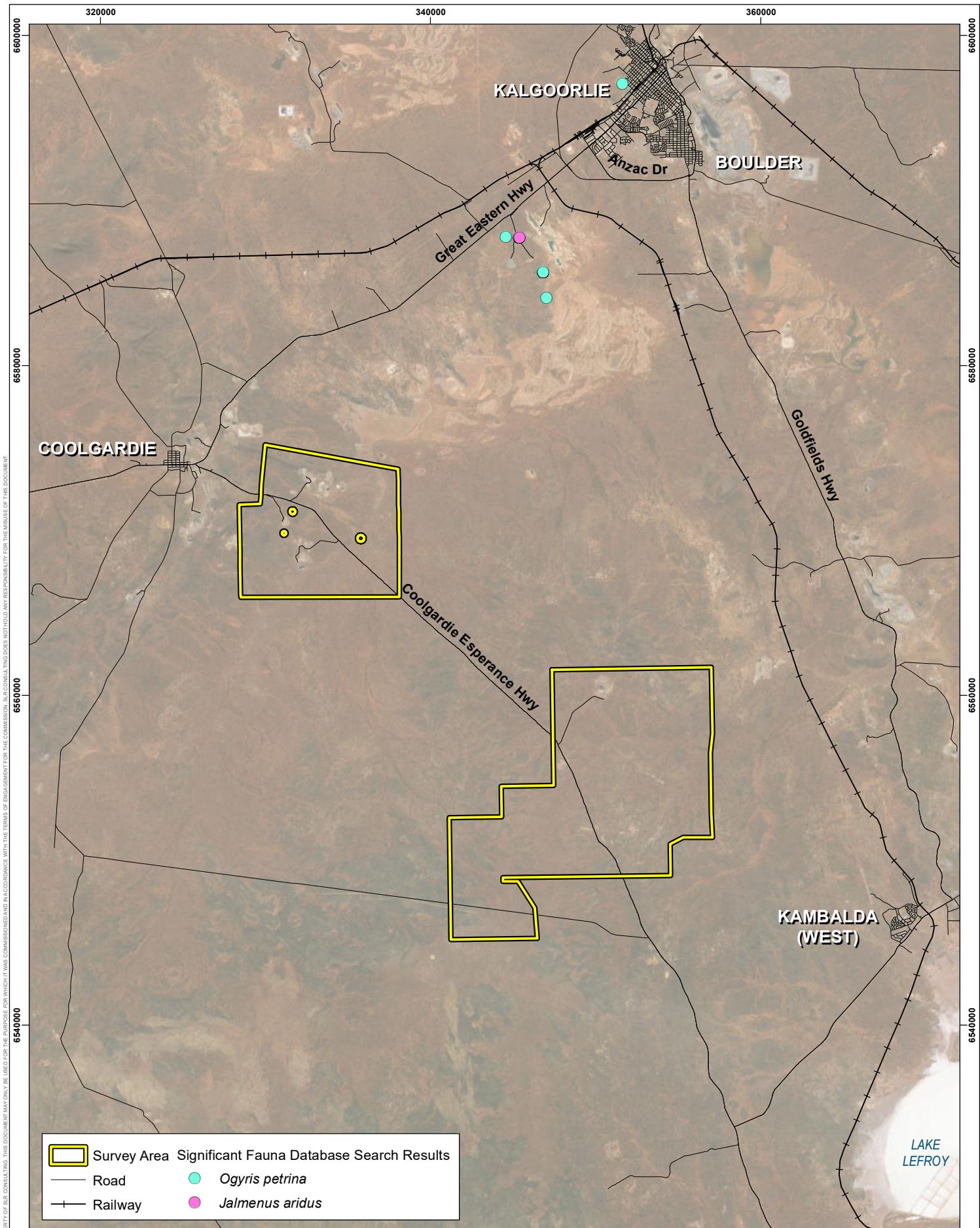
Drawn By : Environmaps

Reviewed By : SG

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Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Survey Effort
MAP 7



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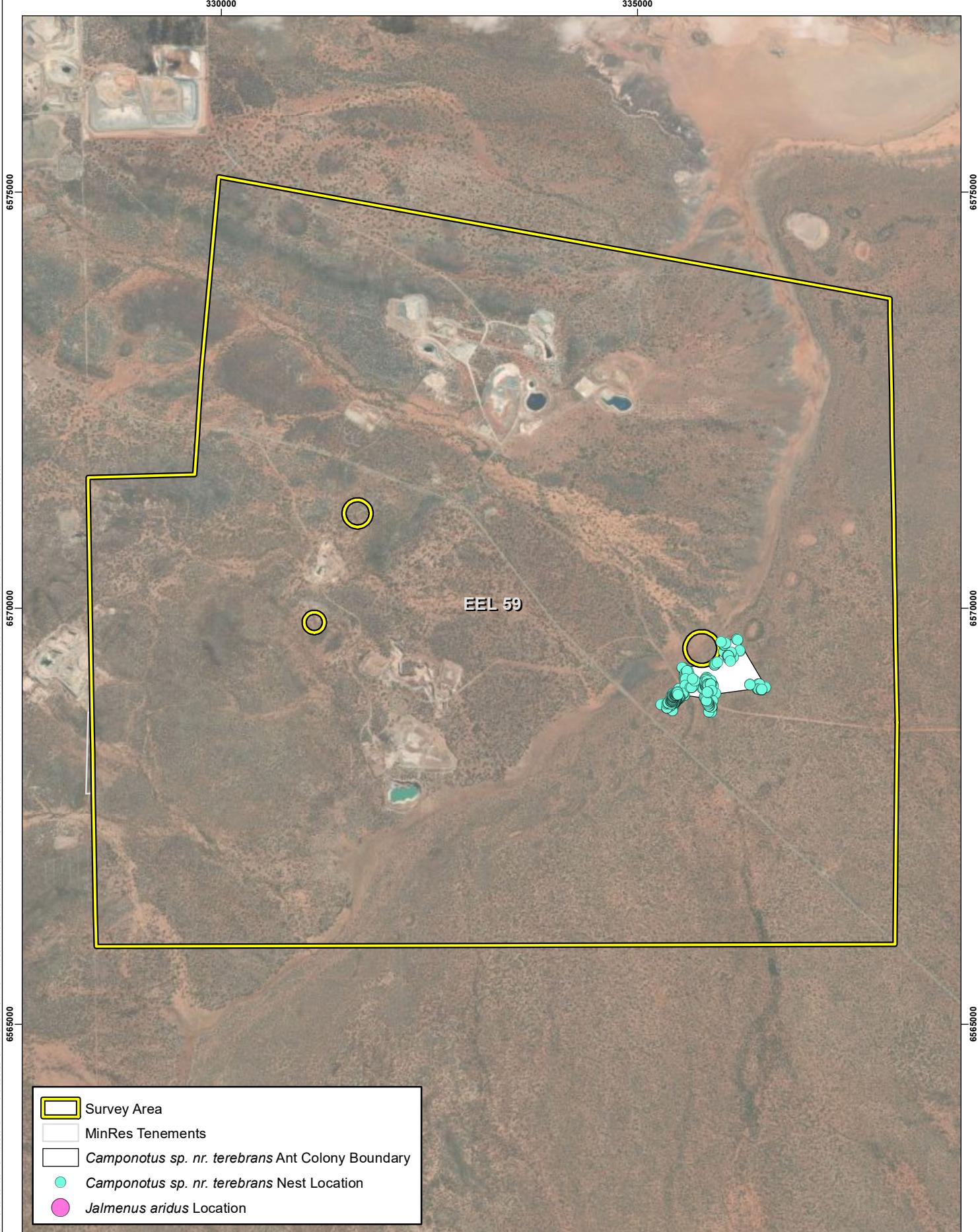


Service Layer Credits: Landgate / SLIP
Coordinate System: GDA2020 MGA Zone 51 @ A4
Scale : 1:300,000 @ A4
Project Number : 675.072272.00001
Date Drawn : 19/06/2024
Drawn By : Environmaps
Reviewed By : SG

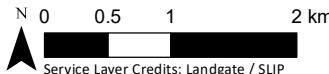
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Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Significant Fauna Database Search Results
MAP 8



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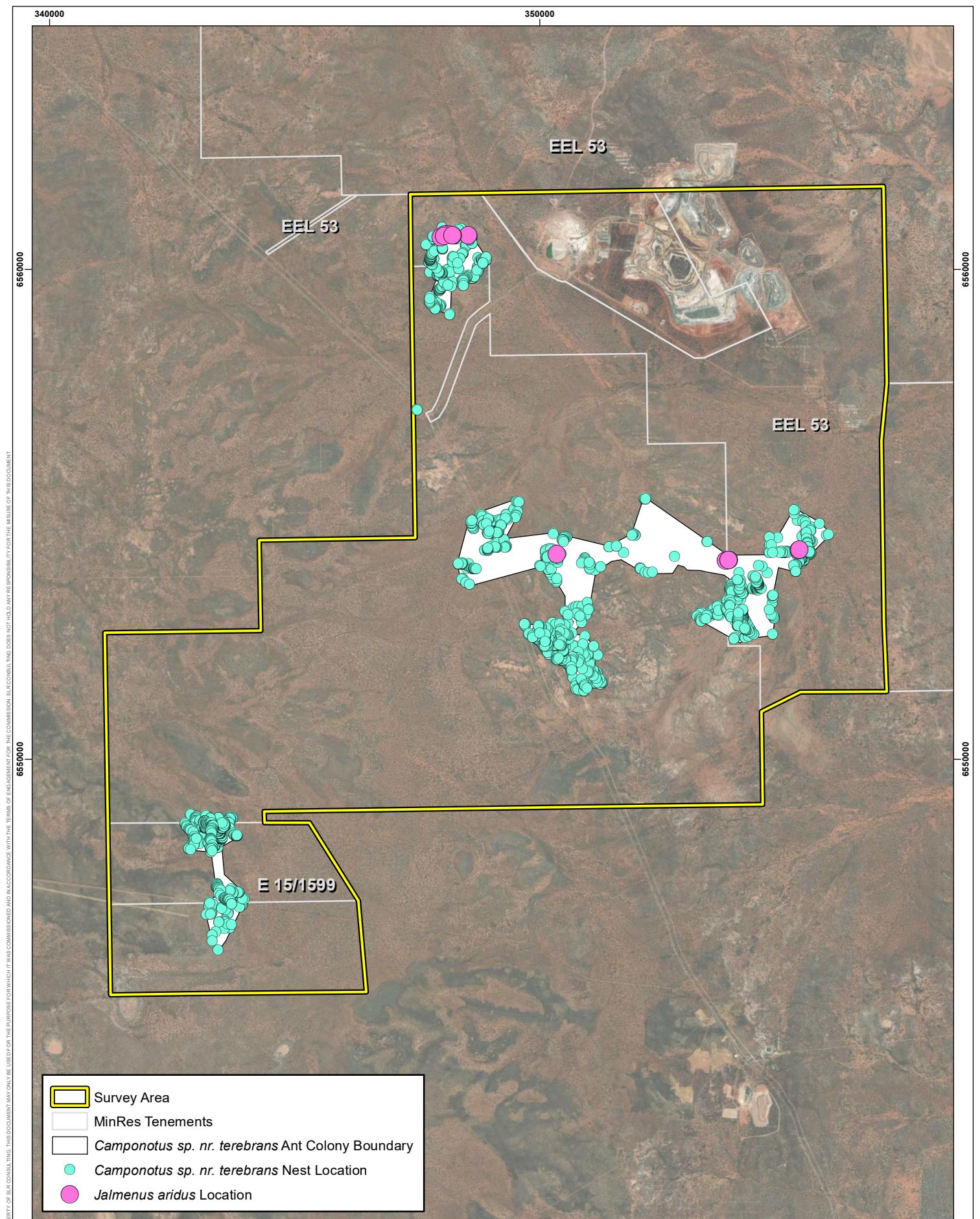
Service Layer Credits: Landgate / SLIP
Coordinate System: GDA2020 MGA Zone 51 @ A4
Scale : 1:60,000 @ A4
Project Number : 675.072272.00001
Date Drawn : 23/07/2024
Drawn By : Environmaps
Reviewed By : SG

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Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Ant Colony Boundaries, Ant Nest Locations
and *Jalmenus aridus* Locations

MAP 9A



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N 0 1 2 4 km
Service Layer Credits: Landgate / SLIP

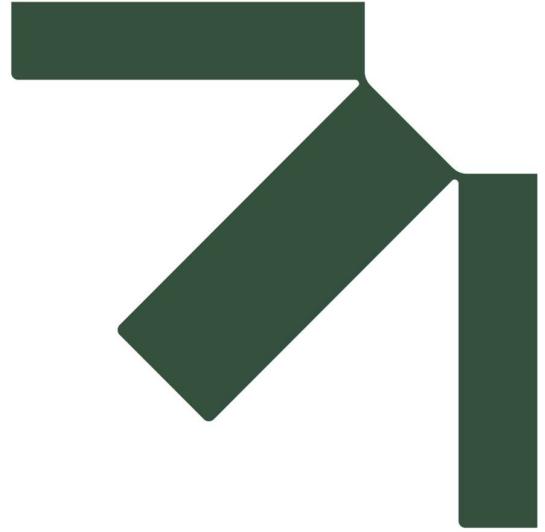
Coordinate System: GDA2020 MGA Zone 51 @ A4
Scale : 1:100,000 @ A4
Project Number : 675.072272.00001
Date Drawn : 23/07/2024
Drawn By : Environmaps
Reviewed By : SG

Mineral Resources Limited

Targeted Survey for Arid Bronze Azure Butterfly
ABAB Supplementary Surveys – Mt Marion

Ant Colony Boundaries, Ant Nest Locations
and *Jalmenus aridus* Locations

MAP 9B



Appendix B Literature Review Summary

Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

Supplementary Surveys – Mt Marion

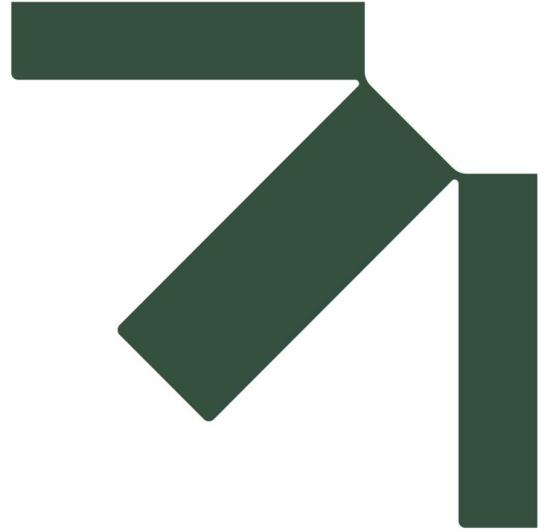
Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024

| Report | Project Area | Survey Timing | Survey Effort | Significant Fauna Recorded Onsite | Fauna Habitats |
|--|--------------------------------|----------------|--|--|--|
| Mt Marion Hamptons Tenements Terrestrial Fauna Surveys (SLR Consulting, 2024) | Overlaps the Survey Area | August 2023 | Basic Fauna Survey Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> Targeted Malleefowl Targeted Chuditch | • <i>Camponotus</i> sp. nr. <i>terebrans</i> • Malleefowl | Eight fauna habitats were identified: • Chenopod Shrubland • Claypan • Drainage Line • Eucalypt Woodland • Low Hills and Slopes • Rocky Hill • Rocky Outcrop • Shrubland/Heathland |
| Mt Marion Mining Tenements Terrestrial Fauna Surveys (SLR Consulting, 2024) | Overlaps the Survey Area | August 2023 | Basic Fauna Survey Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> Targeted Malleefowl Targeted Chuditch | • <i>Camponotus</i> sp. nr. <i>terebrans</i> • Malleefowl | Six fauna habitats were identified: • Drainage Line • Eucalypt Woodland • Low Hills and Slopes • Rocky Hill • Rocky Outcrop • Shrubland/Heathland |
| Mt Marion Fauna Assessment: Hamptons Lease Area 53,L15/353,M15/999 and East E15/1599 (Bamford, 2022) | Overlaps the Survey Area | September 2021 | Basic fauna survey Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> Targeted Malleefowl Targeted Chuditch Targeted Trapdoor Spiders | • Malleefowl • | Three fauna habitats were identified: • Mixed Eucalypt Woodland • Acacia Shrubland • Dense Mallee and Eucalypt Woodland |
| Targeted survey for the Arid Bronze Azure Butterfly – Spargos (Terrestrial Ecosystems, 2021) | 3 km south of the Survey Area | February 2021 | Targeted <i>Camponotus</i> <i>terebrans</i> and ABAB surveys | • Nil | • Nil |
| Survey of the Arid Bronze Azure Butterfly Cracking and Leaching Plant | 30 km North of the Survey Area | March 2021 | Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> survey | • Nil | • Nil |

| Report | Project Area | Survey Timing | Survey Effort | Significant Fauna Recorded Onsite | Fauna Habitats |
|--|--------------------------------|---------------|---|-----------------------------------|---------------------|
| and By-product Storage Unit (Onshore Environmental, 2021) | | | | | |
| Basic and Targeted Fauna Survey for the Crossroads Project (Phoenix, 2023) | 55 km north of the Survey Area | November 2022 | Basic Fauna Survey Targeted <i>Camponotus</i> sp. nr. <i>terebrans</i> Targeted Malleefowl Targeted Chuditch Targeted Inland Hairstreak butterfly | • Nil | • Eucalypt Woodland |



Appendix C Licences and Permits

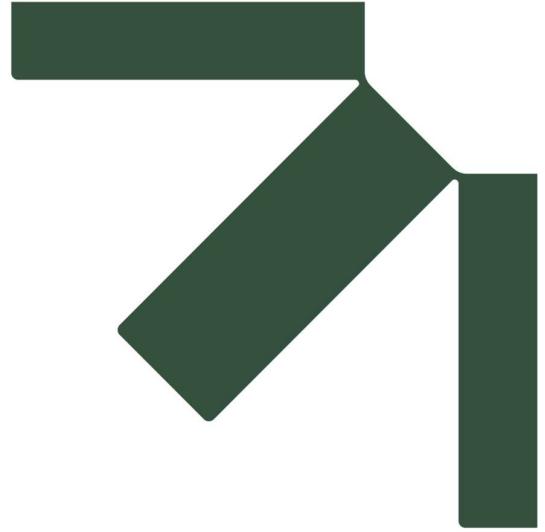
Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

Supplementary Surveys – Mt Marion

Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024



Appendix D Database Search Results

Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

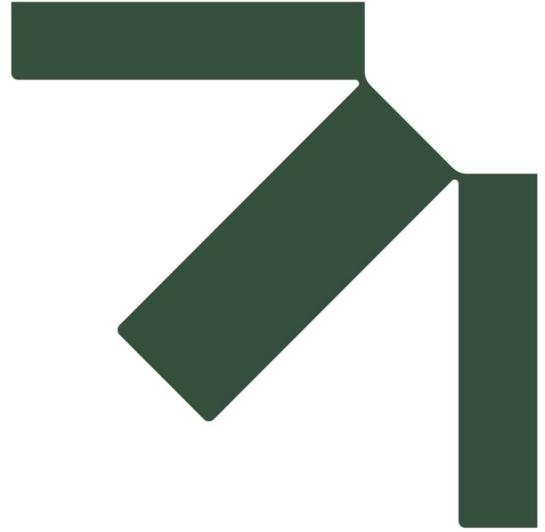
Supplementary Surveys – Mt Marion

Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024

| Scientific Name | Conservation Status | | Sum of NM | Sum of PMST | Sum of DBCA |
|-------------------------------------|---------------------|---------|-----------|-------------|-------------|
| | State | Federal | | | |
| <i>Ogyris subterrestris petrina</i> | CR | CR | | 1 | 55 |
| <i>Jalmenus aridus</i> | P1 | - | | | 5 |
| <i>Ahamitermes hillii</i> | - | - | 1 | | |
| <i>Tumulitermes comatus</i> | - | | 1 | | |
| <i>Aname</i> | - | - | 1 | | |
| <i>Lamponina scutata</i> | - | - | 1 | | |
| <i>Nicodamus mainae</i> | - | - | 2 | | |
| <i>Araneinae</i> | - | - | 1 | | |



Appendix E Ant Nest Locations

Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

Supplementary Surveys – Mt Marion

Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024

| Recorded By | Date | Taxon | Abundance | Collection No. | Note | Latitude | Longitude |
|-------------|------------|------------------------------|-----------|------------------|---|--------------|--------------|
| ML | 2024-02-19 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp. nr. terebrans nest. Not dug. | -31.08420870 | 121.41405840 |
| ML | 2024-02-19 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp. nr. terebrans nest. Not dug. | -31.08440760 | 121.41404290 |
| ML | 2024-02-19 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest. Not dug | -31.08392580 | 121.41012740 |
| LB | 2024-02-19 | Camponotus sp. nr. terebrans | 2 | M.M - ABAB - 168 | | -31.08571300 | 121.41303220 |
| LB | 2024-02-19 | Camponotus sp. nr. terebrans | 3 | | | -31.08544030 | 121.41338170 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Confirmed Camponotus sp nr terebrans | -31.08428600 | 121.40740490 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | M.M - ABAB - 146 | Camponotus sp nr terebrans collected | -31.13392360 | 121.41882800 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 149 | | -31.13455120 | 121.41721830 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp. nr terebrans. Not dug | -31.13403350 | 121.41773020 |
| SG | 2024-02-20 | Camponotus sp. nr. terebrans | 3 | M.M - ABAB - 162 | | -31.13291330 | 121.42959670 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13855270 | 121.48223100 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13862350 | 121.48215070 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13868330 | 121.48216220 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13882540 | 121.48207650 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13928830 | 121.48167310 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13938100 | 121.48158850 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13933900 | 121.48147070 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13935960 | 121.48112680 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13943330 | 121.48090340 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14051090 | 121.48133560 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13759520 | 121.46712510 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14278200 | 121.46747950 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14315100 | 121.46739270 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14328930 | 121.46715550 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14337580 | 121.46719240 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14344200 | 121.46727010 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14557530 | 121.46716690 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14661720 | 121.46703030 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14823710 | 121.46712960 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | | | -31.14872510 | 121.46734510 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15249010 | 121.46808170 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15275870 | 121.46792270 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15258930 | 121.47027330 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15233710 | 121.47102680 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15199250 | 121.47217360 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15115380 | 121.47094290 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15121810 | 121.47053570 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15111500 | 121.47044620 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.15086870 | 121.46970780 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 3 | | | -31.15016950 | 121.46903880 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14944500 | 121.46869370 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | | | -31.14437080 | 121.46993250 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14297810 | 121.46930700 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | M.M - ABAB - 132 | Close to old point. Camponotus sp nr terebrans | -31.19993600 | 121.35484910 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest dug and observed ants | -31.20057720 | 121.35476570 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 3 | | Not dug or observed | -31.20060220 | 121.35473410 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | Not dug or observed | -31.20033200 | 121.35549800 |
| ML | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | Not dug or observed | -31.20026100 | 121.35560710 |
| DL | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.08482810 | 121.40678990 |
| DL | 2024-02-20 | Camponotus sp. nr. terebrans | 3 | M.M - ABAB - 174 | | -31.13395430 | 121.41901860 |
| DL | 2024-02-20 | Camponotus sp. nr. terebrans | 3 | | | -31.20005170 | 121.35491180 |
| SG | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.18772570 | 121.35181370 |
| SG | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | -31.18759960 | 121.35167240 |

| | | | | | | | | |
|----|------------|------------------------------|---|---------------------------|--|--|--------------|--------------|
| SG | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | | -31.18756330 | 121.35162930 |
| LB | 2024-02-20 | Camponotus sp. nr. terebrans | 1 | | | | -31.18597820 | 121.35088500 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 2 | | | | -31.18776100 | 121.35186440 |
| EW | 2024-02-20 | Camponotus sp. nr. terebrans | 5 | | | | -31.18751310 | 121.35169160 |
| RE | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | Old nest Point (verified) | | | -31.13731113 | 121.43037636 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | Sp. Nr. Terebrans | | | -31.13723720 | 121.43030320 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | Confirmed by digging | | | -31.13667950 | 121.43009406 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13630780 | 121.42955540 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13674300 | 121.42929620 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13764810 | 121.42991120 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13714220 | 121.43056170 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13718190 | 121.43062480 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13716970 | 121.43071280 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 136 | | | -31.13872900 | 121.42658390 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 144 | | | -31.14184140 | 121.43009080 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.14162650 | 121.43018360 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.14122080 | 121.42950220 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.14044020 | 121.42895130 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13992870 | 121.42856900 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13945670 | 121.42834630 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13945510 | 121.42847120 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13856990 | 121.42871450 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13863910 | 121.42868450 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13732830 | 121.42790730 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13731990 | 121.42789960 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13726860 | 121.42795420 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13713020 | 121.42796610 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13726640 | 121.42821750 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13737560 | 121.42818630 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13786390 | 121.42830770 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13767660 | 121.42876850 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13735610 | 121.42910800 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13732670 | 121.42914190 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13733190 | 121.42924910 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 153 | | | -31.13891430 | 121.42675050 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.14119220 | 121.43019950 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13944220 | 121.42909560 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13815450 | 121.43027400 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13831250 | 121.43037550 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13762460 | 121.43046670 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13754170 | 121.43004510 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13762170 | 121.42935960 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13655520 | 121.42864940 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | Confirmed with digging | | | -31.13623850 | 121.42855740 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13604460 | 121.42866020 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13587940 | 121.42866510 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13587550 | 121.42883950 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13573970 | 121.42853850 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13602070 | 121.42792100 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13602530 | 121.42783700 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13596030 | 121.42782480 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13658920 | 121.42781710 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13574560 | 121.42916770 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13614580 | 121.43019410 |

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|----|------------|------------------------------|---|--|---|--|--------------|--------------|
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13663730 | 121.43084780 |
| SG | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13667400 | 121.43120370 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 4 | | | | -31.18885950 | 121.35460570 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18890240 | 121.35480520 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18959390 | 121.35617670 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18875740 | 121.35722080 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 177 | | | -31.18867500 | 121.35715750 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18540710 | 121.35929330 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18750730 | 121.36027930 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18765770 | 121.36095760 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18524980 | 121.35804560 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18524010 | 121.35788940 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 5 | | | | -31.18519640 | 121.35780260 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18465280 | 121.35733710 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18458870 | 121.35720950 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 4 | | | | -31.18437900 | 121.35708710 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18500140 | 121.35564930 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18506730 | 121.35559020 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18505370 | 121.35532020 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18426470 | 121.35471170 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 4 | | | | -31.18413420 | 121.35471710 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18389820 | 121.35437630 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18491750 | 121.35400210 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 4 | | | | -31.18507550 | 121.35389970 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18807680 | 121.35223570 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13750470 | 121.43625860 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13763670 | 121.43618820 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13815160 | 121.43582380 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13825770 | 121.43574440 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13944600 | 121.43721810 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13961810 | 121.43739340 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13978610 | 121.43842700 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13864520 | 121.43734410 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 4 | Nest dug camponotus sp. Near terabrans | | | -31.20193830 | 121.35853280 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 2 | Not dug camponotus sp. Near terabrans | | | -31.20409700 | 121.35782040 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.20466960 | 121.35910300 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.20093930 | 121.35746900 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.20088240 | 121.35745080 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.20180580 | 121.35526180 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.20201590 | 121.35490140 |
| LB | 2024-02-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.20214170 | 121.35418190 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13838900 | 121.43718650 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13693680 | 121.42886410 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13593540 | 121.42871700 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13586670 | 121.42871670 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13608970 | 121.42806210 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13610840 | 121.42782030 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13581640 | 121.42896370 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13597100 | 121.43015190 |
| DL | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.13613250 | 121.43009520 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 154 | Camponotus sp nr terebrans collected | | -31.20157060 | 121.35879830 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 2 | | Nest dug. Camponotus sp nr terebrans observed | | -31.20170690 | 121.35884750 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | | -31.20198210 | 121.35876620 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest not dug | | -31.20198050 | 121.35874190 |

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|----|------------|------------------------------|---|------------------|---|--------------|--------------|
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | Nest dug. Camponotus sp nr terebrans observed | -31.20326800 | 121.35801650 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | Camponotus sp nr terebrans nests not dug | -31.20335060 | 121.35800470 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 3 | | Camponotus sp nr terebrans nests not dug | -31.20362200 | 121.35810220 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 123 | Camponotus sp nr terebrans nest dug. Ants collected | -31.20414710 | 121.35801390 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20475830 | 121.35793000 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20394620 | 121.35865050 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20402670 | 121.35941300 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 2 | | Nest dug. Camponotus sp nr terebrans observed | -31.20132220 | 121.35823740 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20111930 | 121.35747780 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20182760 | 121.35531380 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest not dug | -31.20195600 | 121.35523830 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest not dug | -31.20205650 | 121.35504010 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed. | -31.20358520 | 121.35675820 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans nests not dug | -31.20362840 | 121.35678880 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20528290 | 121.35616690 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 117 | Nest dug. Camponotus sp. nr terebrans collected | -31.20595160 | 121.35531010 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20703390 | 121.35529050 |
| ML | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.20870010 | 121.35652870 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13548760 | 121.44142050 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13544770 | 121.44149860 |
| EW | 2024-02-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13535150 | 121.44302720 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 3 | | Not dug. Camponotus sp nr terebrans | -31.14634030 | 121.46680480 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | -31.14625450 | 121.46624990 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 5 | | Camponotus sp nr terebrans observed at entrance | -31.14657860 | 121.46592900 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14663950 | 121.46472470 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | M.M - ABAB - 107 | Nest dug. Camponotus sp nr terebrans collected. Winged queen. | -31.14734760 | 121.46355520 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | -31.14849240 | 121.46295570 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14817300 | 121.46249720 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14852530 | 121.46207370 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Nest not dug | -31.14830370 | 121.46182840 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | -31.14806900 | 121.46121600 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14789260 | 121.46111990 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14803000 | 121.46074380 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | -31.14846530 | 121.46007420 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14884870 | 121.46060230 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14901540 | 121.46077700 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Not dug. Camponotus sp nr terebrans | -31.14912160 | 121.46090020 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14940840 | 121.46095890 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14899250 | 121.46170850 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed. | -31.14804990 | 121.46387280 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans | -31.14819000 | 121.46393140 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | -31.14820250 | 121.46432000 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | -31.14837380 | 121.46476890 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14731700 | 121.46613080 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | Not dug. Camponotus sp nr terebrans | -31.14684230 | 121.46653930 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans | -31.14665050 | 121.46653020 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans | -31.14653720 | 121.46661160 |
| ML | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | -31.14608260 | 121.46658590 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | -31.14633500 | 121.46653000 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | -31.14676860 | 121.46607340 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | -31.14677740 | 121.46444400 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | -31.14838360 | 121.46240800 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | -31.14846880 | 121.46223640 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | -31.14896510 | 121.46196980 |

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|----|------------|------------------------------|---|------------------------|--|--|--------------|--------------|
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.14833970 | 121.46449090 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.14744510 | 121.46472590 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.14687140 | 121.46671530 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.14567460 | 121.46650500 |
| LB | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.14976610 | 121.42908070 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00071010 | 121.27839830 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00070810 | 121.27855430 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 188 | | | -31.00001300 | 121.27896990 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99979420 | 121.27866980 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99833450 | 121.28153440 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99825460 | 121.28149870 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99690880 | 121.28274470 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99691090 | 121.28265810 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99615750 | 121.28271790 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99555000 | 121.28436990 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99684480 | 121.28468880 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99727270 | 121.28337860 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99728140 | 121.28333550 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -30.99766360 | 121.28323590 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | Confirmed with digging | | | -31.00032500 | 121.28019080 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00054840 | 121.28030360 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00059050 | 121.28025810 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00054250 | 121.28025150 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00065340 | 121.28051780 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00067120 | 121.28044670 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00063560 | 121.28065680 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00055700 | 121.28085090 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00058180 | 121.28105500 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00062380 | 121.28110050 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00053120 | 121.28124260 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00044030 | 121.28117090 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00063070 | 121.28126870 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00113150 | 121.28103810 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00108220 | 121.28099200 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00104270 | 121.28094740 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00104190 | 121.28067370 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00099010 | 121.28053460 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00080640 | 121.28003460 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00083930 | 121.27997030 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00083630 | 121.27988920 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | Confirmed with digging | | | -31.00154770 | 121.27765470 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00137080 | 121.27754300 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00143760 | 121.27723760 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00150110 | 121.27723410 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00153110 | 121.27730180 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00135930 | 121.27694050 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00120140 | 121.27723810 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00176850 | 121.27685850 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00172880 | 121.27686820 |
| SG | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.00167710 | 121.27690320 |
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| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15646830 | 121.43190780 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15655010 | 121.43194270 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15654280 | 121.43208380 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15663890 | 121.43219980 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15704610 | 121.43229590 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | | -31.15742240 | 121.43271400 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15744210 | 121.43279780 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15764170 | 121.43298330 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | | -31.15788180 | 121.43290600 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 4 | | | | -31.15793670 | 121.43299590 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 3 | | | | -31.15813050 | 121.43302680 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15829610 | 121.43310980 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15944530 | 121.43330700 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16044110 | 121.43411050 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 5 | | | | -31.16106330 | 121.43383710 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 4 | | | | -31.16165060 | 121.43404700 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16166740 | 121.43440700 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | | -31.16193480 | 121.43559900 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16027080 | 121.43528960 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16019060 | 121.43536460 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15989920 | 121.43599280 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 2 | | | | -31.15967380 | 121.43636150 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15979050 | 121.43710550 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15983150 | 121.43738360 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16023960 | 121.43776300 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16024820 | 121.4378190 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16057030 | 121.43834280 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16054710 | 121.43875920 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16060030 | 121.43884560 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16079680 | 121.43912430 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16045710 | 121.43953150 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.16035320 | 121.43938410 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15974640 | 121.43898540 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 3 | | | | -31.15856510 | 121.43845900 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15866670 | 121.43815360 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15855820 | 121.43799930 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15829090 | 121.43781520 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15811780 | 121.43768360 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15732470 | 121.43700980 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15696050 | 121.43697510 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 5 | | | | -31.15530230 | 121.43670230 |

| | | | | | | | | |
|----|------------|------------------------------|---|---|--|--|--------------|--------------|
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15523310 | 121.43660970 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15189030 | 121.43608170 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15365170 | 121.43385700 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15857570 | 121.43724500 |
| EW | 2024-02-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.15988210 | 121.43817890 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15993830 | 121.43847660 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15929110 | 121.43789800 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.16049440 | 121.43853280 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15971980 | 121.43835410 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15925250 | 121.43769850 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Nest dug. Camponotus sp nr terebrans observed | | | -31.15055030 | 121.42978170 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.15012550 | 121.43052930 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | Camponotus sp nr terebrans observed at entrance | | | -31.15001620 | 121.43070310 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans. Not dug. | | | -31.14977430 | 121.43097640 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Nest dug. Camponotus sp nr terebrans observed. | | | -31.14960500 | 121.43152000 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14958020 | 121.43152980 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Nest dug. Camponotus sp nr terebrans observed | | | -31.14940600 | 121.43240940 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15115530 | 121.42554770 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15094930 | 121.42573320 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Confirmed | | | -31.15162290 | 121.42767420 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15165830 | 121.42768830 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15172340 | 121.42778950 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15173530 | 121.42781890 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15142910 | 121.42788920 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15136840 | 121.42793600 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15126090 | 121.42776850 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15089570 | 121.42801000 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15078240 | 121.42804140 |
| LB | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15056050 | 121.42989710 |
| LB | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14980360 | 121.43181370 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15861210 | 121.43685760 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15824110 | 121.43664580 |
| DL | 2024-02-23 | Rhytidoponera lutea | 1 | M.M - ABAB - 152 | | | -31.15896430 | 121.43700620 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.15866950 | 121.43649210 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15854330 | 121.43652170 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14760590 | 121.43223030 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed. Nest dug | | | -31.14721650 | 121.43199570 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14662810 | 121.43362380 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14638670 | 121.43420170 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14633180 | 121.43466950 |
| LB | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14732140 | 121.43186660 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14636350 | 121.43551020 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14569590 | 121.43663980 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14689770 | 121.43700580 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | Camponotus sp nr terebrans observed at entrance | | | -31.14797810 | 121.43635490 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15569420 | 121.43603190 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15510100 | 121.43573310 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15386370 | 121.43781770 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15374310 | 121.43787700 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15043160 | 121.42822750 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14961370 | 121.42917710 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 172 | | | -31.14933470 | 121.42910240 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14964350 | 121.42981680 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14951590 | 121.43068290 |

| | | | | | | | | |
|----|------------|------------------------------|---|------------------|---|--|--------------|--------------|
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Confirmed | | -31.15049990 | 121.43087880 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15071640 | 121.43125230 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Confirmed | | -31.15132730 | 121.43330560 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Confirmed | | -31.15370770 | 121.43348800 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15381640 | 121.43187720 |
| LB | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14703060 | 121.43686800 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 091 | | | -31.15366250 | 121.43556710 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15609970 | 121.43446080 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15623650 | 121.43479880 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15654560 | 121.43483020 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.14881720 | 121.43531530 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 189 | Nest dug. Camponotus sp nr terebrans collected. | | -31.14934750 | 121.43538670 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15332790 | 121.43147350 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15287440 | 121.43138600 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15255280 | 121.43198930 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15242690 | 121.43223160 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15233220 | 121.43253910 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15171530 | 121.43236970 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15160500 | 121.43242660 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15150250 | 121.43225610 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15144200 | 121.43199390 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15133060 | 121.43167920 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15101140 | 121.43067820 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15177670 | 121.42988660 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15188000 | 121.42991630 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15186980 | 121.42993340 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15195840 | 121.43006440 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15200540 | 121.43012290 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15202110 | 121.42981380 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15224370 | 121.42971790 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15254820 | 121.43023840 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15252160 | 121.43044380 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15280460 | 121.43094310 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15467880 | 121.43150780 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15500480 | 121.43152770 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15451150 | 121.43034490 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15359860 | 121.42971180 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15352230 | 121.42971610 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15347440 | 121.42976580 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15346850 | 121.42964330 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15277180 | 121.42879960 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15266390 | 121.42881080 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15237840 | 121.42887840 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15210570 | 121.42872330 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15203970 | 121.42873490 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15160920 | 121.42854500 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15157770 | 121.42852070 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15146290 | 121.42854570 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15140090 | 121.42864260 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15097580 | 121.42858570 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15056840 | 121.42817390 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15045460 | 121.42803520 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15027140 | 121.42769480 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15006330 | 121.42678420 |

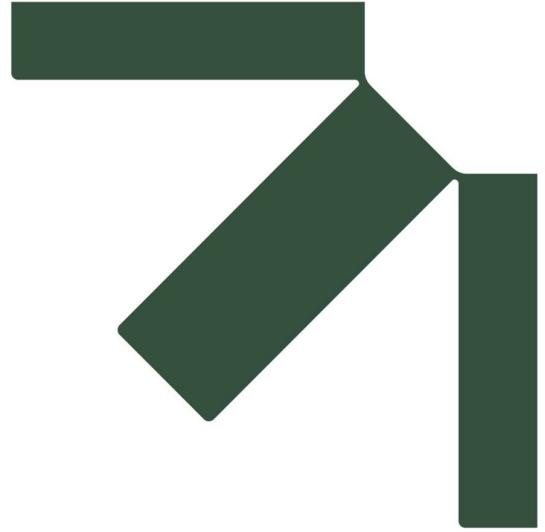
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|----|------------|------------------------------|---|------------------|--|--|--------------|--------------|
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14996090 | 121.42662950 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 3 | | | | -31.15667920 | 121.43488500 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15678240 | 121.43499600 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15692120 | 121.43511560 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15778350 | 121.43541930 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15330080 | 121.43558770 |
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| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.15583372 | 121.43432591 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15627630 | 121.43484210 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.15663660 | 121.43456080 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.14812760 | 121.43483310 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans | | -31.14808280 | 121.43477910 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Nest dug. Camponotus sp nr terebrans observed | | -31.14757650 | 121.43473400 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans. | | -31.14760170 | 121.43433150 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | Not dug. Camponotus sp nr terebrans | | -31.14761410 | 121.43424680 |
| ML | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 169 | Nest dug. Camponotus sp nr terebrans collected with Pogonoscopus | | -31.14795440 | 121.43247370 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14818460 | 121.43507280 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.16091990 | 121.43570610 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.16086400 | 121.43574360 |
| DL | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.14980010 | 121.42326560 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.15573860 | 121.43346230 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 3 | | | | -31.15574610 | 121.43321220 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 3 | | | | -31.15613150 | 121.43319270 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.15640890 | 121.43314820 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.15972490 | 121.43512430 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.16083590 | 121.43585150 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 2 | | | | -31.16105590 | 121.43587850 |
| EW | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | | -31.16150350 | 121.43633520 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest. Not dug | | -31.00052110 | 121.27878970 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.00179490 | 121.28028230 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | | -31.00179670 | 121.28022040 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans. Not dug. | | -31.00189940 | 121.28018380 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans nest not dug | | -31.00197120 | 121.28038270 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest dug | | -31.00208880 | 121.28056940 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest dug | | -31.00218000 | 121.28077830 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans nest not dug | | -31.00289330 | 121.28102350 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans nest dug | | -30.99968890 | 121.27768020 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -30.99929930 | 121.27769630 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | | -30.99916430 | 121.27780980 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | | -30.99906330 | 121.27800150 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -30.99932940 | 121.27827770 |
| ML | 2024-03-05 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -30.99992030 | 121.27771900 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13087220 | 121.48317680 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13109810 | 121.48297960 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13110960 | 121.48275050 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13127560 | 121.48278700 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 3 | | Camponotus sp nr terebrans observed at entrance | | -31.13239310 | 121.48461100 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | | -31.13298820 | 121.48465900 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13389740 | 121.48804320 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13380830 | 121.48849000 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13175810 | 121.48653230 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance | | -31.13108760 | 121.48188620 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 2 | | Camponotus sp nr terebrans observed at entrance | | -31.12987030 | 121.48113900 |
| ML | 2024-03-06 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance. On acacia shrub | | -31.12910500 | 121.48135050 |

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|----|------------|------------------------------|---|------------------|--|--------------|---------------|
| ML | 2024-03-08 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance to nest | -31.13069370 | 121.41216530 |
| ML | 2024-03-08 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance to nest | -31.13043310 | 121.41196940 |
| ML | 2024-03-08 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance to nest | -31.13029830 | 121.41227190 |
| ML | 2024-03-08 | Camponotus sp. nr. terebrans | 1 | | Camponotus sp nr terebrans observed at entrance to nest | -31.00082960 | 121.28785360 |
| ML | 2024-03-08 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 150 | Camponotus sp nr terebrans collected. Rod previously collected here. | -31.10972060 | 121.40074350 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 1 | | | -30.99971750 | 121.28051180 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 3 | | | -30.99979180 | 121.28044790 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 4 | | | -31.00038560 | 121.28065230 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 4 | | | -31.00044530 | 121.28054900 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 5 | | | -31.00035690 | 121.28088450 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 3 | | | -31.00026500 | 121.28081480 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 1 | | | -31.00047890 | 121.28591400 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 1 | | | -31.00263170 | 121.28084350 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 2 | | | -31.00263400 | 121.28079880 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 2 | | | -31.00256760 | 121.28062520 |
| EW | 2024-03-18 | Camponotus sp. nr. terebrans | 1 | | | -31.00225190 | 121.28052070 |
| EW | 2024-03-19 | Camponotus sp. nr. terebrans | 1 | | | -31.15115790 | 121.42631570 |
| EW | 2024-03-19 | Camponotus sp. nr. terebrans | 1 | | | -31.15275930 | 121.42742260 |
| EW | 2024-03-19 | Camponotus sp. nr. terebrans | 1 | | | -31.13226559 | 121.41579090 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 2 | | | -31.13950719 | 121.44802090 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13744770 | 121.45549810 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13478969 | 121.46245510 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.12674280 | 121.44916120 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13340140 | 121.446693690 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13334319 | 121.44703650 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13337850 | 121.44711030 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13320180 | 121.44677580 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13339060 | 121.44652560 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.13337320 | 121.44644330 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14351050 | 121.47222360 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14332410 | 121.47268170 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14341560 | 121.47263810 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14339150 | 121.47271440 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14342770 | 121.47305260 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14334940 | 121.47335420 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14328190 | 121.47352500 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14263899 | 121.47325560 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14160560 | 121.47267070 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14139190 | 121.47217720 |
| EW | 2024-03-20 | Camponotus sp. nr. terebrans | 1 | | | -31.14124930 | 121.47216100 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13885610 | 121.41148370 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13902140 | 121.41092450 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13855090 | 121.41107150 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | -31.13832420 | 121.41009500 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13834820 | 121.40997750 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13830030 | 121.40986540 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.13831240 | 121.40920500 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.14115330 | 121.41020710 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.19928410 | 121.36190900 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | -31.19886490 | 121.36156880 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.19860820 | 121.36131770 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 3 | | | -31.19849460 | 121.36133100 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.19820380 | 121.36114680 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | -31.19809470 | 121.36104920 |

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|----|------------|------------------------------|---|--|--|--|--------------|--------------|
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19846220 | 121.36025220 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19818680 | 121.36028130 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19746280 | 121.35945080 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 5 | | | | -31.19002600 | 121.35543050 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18994000 | 121.35536290 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18827330 | 121.35726210 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18827310 | 121.35726070 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18834360 | 121.35733250 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18812760 | 121.35744700 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 3 | | | | -31.18810120 | 121.35751880 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18797190 | 121.35746350 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18789050 | 121.35767220 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18566870 | 121.35781260 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18564190 | 121.35780090 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18559830 | 121.35785990 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18549340 | 121.35779890 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.18554389 | 121.35819850 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18563839 | 121.35828280 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.18567920 | 121.35831490 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18534670 | 121.35778000 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18442310 | 121.35533380 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.18483470 | 121.35442500 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18487580 | 121.35402180 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18490170 | 121.35400290 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18544429 | 121.35426130 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18593130 | 121.35566640 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18820740 | 121.35539240 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18865440 | 121.35552430 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.18910690 | 121.35559640 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18983830 | 121.35568920 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.18989710 | 121.35556950 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19680190 | 121.35664670 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19709520 | 121.35665720 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.19725590 | 121.35657510 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19726760 | 121.35655930 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19730510 | 121.35681910 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.19751820 | 121.35705450 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 2 | | | | -31.19782880 | 121.35734010 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19821040 | 121.35730780 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19913120 | 121.35806060 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19913280 | 121.35806520 |
| EW | 2024-03-21 | Camponotus sp. nr. terebrans | 1 | | | | -31.19938070 | 121.35869630 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 2 | | | | -31.08930950 | 121.40412350 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08959390 | 121.40462780 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.09002460 | 121.40516670 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08513130 | 121.41218820 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08443190 | 121.41427360 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08403540 | 121.41440640 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08385000 | 121.41445590 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08293630 | 121.41523220 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08268720 | 121.41522830 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07931390 | 121.41307320 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07858230 | 121.41249610 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07854410 | 121.41235300 |

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|----|------------|------------------------------|---|------------------|--|--|--------------|--------------|
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07794950 | 121.41202170 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07785560 | 121.41199760 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07756600 | 121.41208560 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07733610 | 121.41195100 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07746420 | 121.40885380 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07754040 | 121.40884050 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.07842210 | 121.40949150 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08586170 | 121.41145610 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08602630 | 121.41131440 |
| EW | 2024-03-22 | Camponotus sp. nr. terebrans | 1 | | | | -31.08696400 | 121.41092290 |
| EW | 2024-04-02 | Camponotus sp. nr. terebrans | 3 | | | | -31.14757190 | 121.46655630 |
| EW | 2024-04-02 | Camponotus sp. nr. terebrans | 1 | | | | -31.14776040 | 121.46672390 |
| EW | 2024-04-02 | Camponotus sp. nr. terebrans | 1 | | | | -31.14820950 | 121.46973120 |
| EW | 2024-04-02 | Camponotus sp. nr. terebrans | 1 | | | | -31.14737490 | 121.46949270 |
| EW | 2024-04-03 | Camponotus sp. nr. terebrans | 1 | | | | -31.19996890 | 121.36139970 |
| EW | 2024-04-03 | Camponotus sp. nr. terebrans | 1 | | | | -31.20034640 | 121.36188960 |
| EW | 2024-04-03 | Camponotus sp. nr. terebrans | 1 | | | | -31.20041150 | 121.36190140 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 022 | | | -31.09213920 | 121.40820150 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09051640 | 121.40618230 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09002060 | 121.40482760 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09005760 | 121.40475250 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08996400 | 121.40455370 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09012840 | 121.40446460 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09005860 | 121.40438400 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09016250 | 121.40429750 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.09125370 | 121.40504090 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08964870 | 121.40443280 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08894940 | 121.40391130 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08788310 | 121.40580430 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08766850 | 121.40615110 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08765080 | 121.40624600 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08566520 | 121.41276960 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08571160 | 121.41300430 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08189900 | 121.41429370 |
| EW | 2024-04-04 | Camponotus sp. nr. terebrans | 1 | | | | -31.08203340 | 121.41551700 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.00244880 | 121.27503160 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.00251980 | 121.27471230 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | M.M - ABAB - 199 | | | -31.08246009 | 121.40377970 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08508440 | 121.40565900 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08514070 | 121.40577440 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08517130 | 121.40574270 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08514740 | 121.40593570 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 2 | | | | -31.08523860 | 121.40584570 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08518610 | 121.40596570 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08515920 | 121.40609420 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08522710 | 121.40612950 |
| EW | 2024-04-05 | Camponotus sp. nr. terebrans | 1 | | | | -31.08619230 | 121.40686060 |
| EW | 2024-04-15 | Camponotus sp. nr. terebrans | 1 | | | | -31.13350960 | 121.43253250 |
| EW | 2024-04-16 | Camponotus sp. nr. terebrans | 1 | | | | -31.08435360 | 121.40598330 |
| EW | 2024-04-17 | Camponotus sp. nr. terebrans | 1 | | | | -31.13683030 | 121.47890830 |
| EW | 2024-04-17 | Camponotus sp. nr. terebrans | 1 | | | | -31.13676140 | 121.47893700 |
| EW | 2024-04-17 | Camponotus sp. nr. terebrans | 1 | | | | -31.13679050 | 121.47941640 |
| EW | 2024-04-17 | Camponotus sp. nr. terebrans | 1 | | | | -31.13691540 | 121.47832980 |
| EW | 2024-04-18 | Crematogaster whitei | 1 | M.M - ABAB - 058 | | | -31.13622889 | 121.48201560 |

| | | | | | | | |
|----|------------|------------------------------|---|--|--|--------------|--------------|
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | -31.14986680 | 121.42627210 |
| SG | 2024-02-23 | Camponotus sp. nr. terebrans | 1 | | | -31.14979980 | 121.42621400 |



Appendix F *Jalmenus aridus* WAM Submission Information

Targeted Survey for Arid Bronze Azure Butterfly (ABAB)

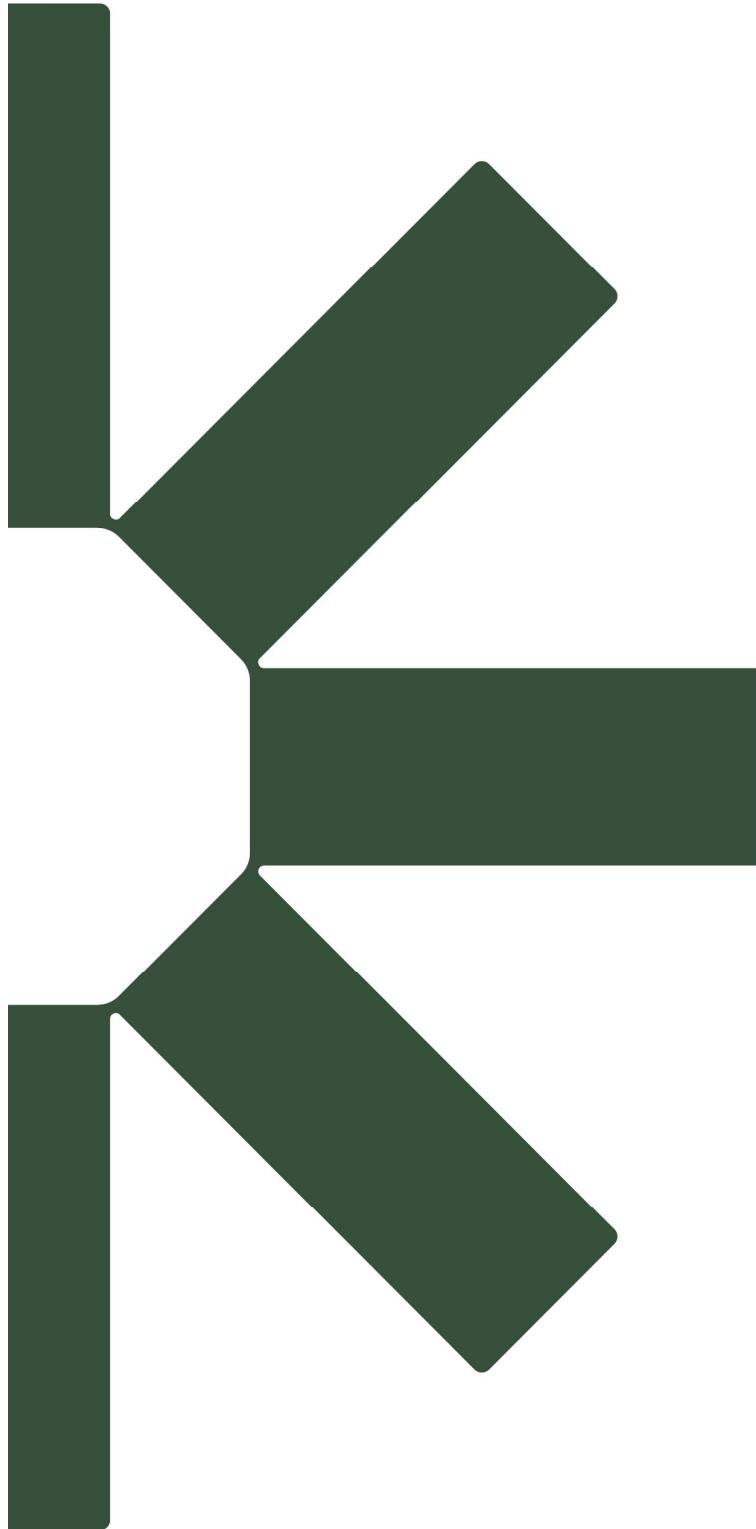
Supplementary Surveys – Mt Marion

Mineral Resources Limited

SLR Project No.: 675.072273.00001

5 August 2024

| Registration Number | CollectorNo | Institution | Catalogued By | DateEntered | CLASS | ORDER | SUPERFAMILY | FAMILY | SUBFAMILY | TRIBE | GENUS | SPECIES | DeterminedBy | LifeHistory Stage | SEX |
|---------------------|-------------|-------------|---------------|-------------|---------|-------------|-------------|------------|-----------|-----------|-----------------|---------------|----------------|-------------------|--------|
| E113348 | RE-24-Y001 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113349 | RE-24-Y002 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113350 | RE-24-Y003 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113351 | RE-24-Y004 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113352 | RE-24-Y005 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113353 | RE-24-Y006 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113354 | RE-24-Y007 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113355 | RE-24-Y008 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113356 | RE-24-Y009 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113357 | RE-24-Y010 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113358 | RE-24-Y011 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113359 | RE-24-Y013 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113360 | RE-24-Y014 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113361 | RE-24-Y015 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113362 | RE-24-Y016 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113363 | RE-24-Y017 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113364 | RE-24-Y019 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113365 | RE-24-Y020 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113366 | RE-24-Y021 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113367 | RE-24-Y022 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113368 | RE-24-Y023 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113369 | RE-24-Y024 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113370 | RE-24-Y025 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113371 | RE-24-Y026 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |
| E113372 | RE-24-Y027 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | female |
| E113373 | RE-24-Y028 | WAM | RGE | 28/05/2024 | Insecta | Lepidoptera | Papilioidea | Lycaenidae | Theclinae | Zesiusini | <i>Jalmenus</i> | <i>aridus</i> | Eastwood, R.G. | adult | male |



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