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**Attachment 5**  
**Draft offset strategy**

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## Offset Strategy (Victoria) - Marinus Link

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**Marinus Link Pty. Ltd.**

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Template 2.8.1

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## Glossary and abbreviations

Term	Meaning
AoD	Area of disturbance; the area in which construction and operation works will occur and therefore result in direct impacts to ecological values.
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DEECA	Department of the Environment, Energy, and Climate Action
DELWP	Department of the Environment, Land, Water, and Planning
EE Act	<i>Environment Effects Act 1978</i> . Victorian legislation that requires the environmental effects of certain works to be assessed.
EIS/EES	Environmental Impact Statement/Environment Effects Statement
ELA	Eco Logical Australia Pty. Ltd.
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> . National legislation to protect and manage nationally and internationally important flora, fauna, ecological communities and heritage places.
EPR	Environmental Performance Requirement
EVC	Ecological Vegetation Class
FFG Act	<i>Flora and Fauna Guarantee Act 1988</i> . Victorian legislation for the conservation of threatened species and communities and for the management of potentially threatening processes.
GHU	General habitat unit used as a measure of offset requirements under Victoria's native vegetation removal regulations.
HDD	Horizontal Directional Drilling
MLPL	Marinus Link Pty Ltd
MNES	Matter of National Environmental Significance as defined under the Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
SHU	Species habitat unit used as a measure of offset requirements under Victoria's native vegetation removal regulations.
Study Area	An area sufficient to allow a determination of the likelihood of occurrence of ecological values within the survey area. This equates to roughly a 10 km search radius either side of the survey area depending on the nature of the landscape and the values in question.
Survey area	An approximately 220 m wide corridor encompassing the AoD in which the final cable alignment and associated infrastructure will occur. This area extends from the beach crossing on the shore of Waratah Bay to the greater Hazelwood area.
TPZ	Tree Protection Zone
VQA	Vegetation Quality Assessment

# 1. Introduction

Eco Logical Australia (ELA) was commissioned by Tetra Tech Coffey to prepare an offset strategy for native vegetation removal associated with the Victorian terrestrial component of the proposed Marinus Link project (the project), a high voltage direct current (HVDC) electricity interconnector between Tasmania and Victoria.

This offset strategy is informed by the Terrestrial Ecology Impact Assessment (ELA 2023) and prepared to support the Environmental Impact Statement/Environment Effects Statement (EIS/EES) for the project. This addresses the requirements of the Environmental Impact Statement guidelines and Environment Effects Statement scoping requirements issued under Commonwealth and Victorian legislation, including:

- ‘Information on proposed environmental performance requirements (EPRs), and any specific avoidance, management, and mitigation measures to deal with the relevant impacts of the proposed action on MNES’ (EIS guidelines).
- ‘Avoid, and where avoidance is not possible, minimise adverse effects on terrestrial, aquatic and marine biodiversity and ecology, including native vegetation, listed threatened species and ecological communities, other protected species and habitat for these species, and to address offset requirements consistent with state policies’ (EES scoping requirements).

## 1.1 Objectives

The broad objective of this strategy is to detail the availability and suitability of offsets to meet project requirements, and how the offsets are proposed to be secured to achieve a no net loss outcome for the project. As the final area of native vegetation removal has not yet been finalised, information has been provided which detail the likely offsets required for the removal of native vegetation using pre-mitigation (worst case) and post-mitigation (best case) scenarios. Impacts to seagrass has not been included in the offset calculations as the planning scheme does not extend into Waratah Bay, therefore the requirements for offsets do not apply under 52.17 of the *Guidelines for removal, destruction or lopping of native vegetation* (Department of Environment, Land, Water and Planning (DELWP), December 2017) (Guidelines).

Final offset requirements will be incorporated into this offset strategy based on the detailed project design and construction approach in accordance with the Guidelines.

## 1.2 Project overview

The project is a proposed 1500 MW High Voltage Direct Current (HVDC) electricity interconnector between Heybridge in northwest Tasmania and the Latrobe Valley in Victoria. Marinus Link would provide a second link between the Tasmanian renewable energy resources and the Victorian electricity grids enabling efficient energy trade, transmission and distribution from a diverse range of generation sources to where it is most needed and would increase energy capacity and security across the national electricity market.

Marinus Link Pty. Ltd. (MLPL) is the proponent for the project and is a wholly owned subsidiary of TasNetworks Pty. Ltd. (TasNetworks). TasNetworks is owned by the State of Tasmania and owns, operates and maintains the electricity transmission and distribution network in Tasmania.

Tasmania has significant renewable energy resource potential, particularly hydroelectric power and wind energy. The potential size of the resource exceeds both the Tasmanian demand and the capacity of the existing Basslink interconnector between Tasmania and Victoria. The growth in renewable energy generation in mainland states and territories participating in the national electricity market, coupled with the retiring of baseload coal-fired generators, is reducing the availability of dispatchable generation that is available on demand.

Tasmania's existing and potential renewable resources are a valuable source of dispatchable generation that could benefit electricity supply in the national electricity market. Marinus Link will allow for the continued trading, transmission and distribution of electricity within the national electricity market. It will also manage the risks to Tasmania of a single interconnector across Bass Strait and complement existing and future interconnectors on mainland Australia. Marinus Link is expected to facilitate the reduction in greenhouse gas emissions at a state and national level.

## 2. Offset requirements

Given the potential for the project to impact on values protected under both national and state legislation, offset requirements under both commonwealth and state (Victoria) legislation have been considered.

### 2.1 Commonwealth offsets

Significant impact assessments have been undertaken for all relevant EPBC Act listed threatened species according to Commonwealth guidelines (ELA 2023). These assessments have concluded that the project is unlikely to result in a significant impact on MNES.

With regard to the EPBC Act listed Gippsland Red Gum (*Eucalyptus tereticornis subsp. mediana*) Grassy Woodland and Associated Native Grassland Threatened Ecological Community (TEC), impacts were assessed based on the implementation of measures to comply with EPR EC01. Measures in accordance with EPR EC01 will avoid all impacts (direct and indirect) to the community and form a commitment of the project. 'Worst-case' scenario of terrestrial ecology impacts presented within this offset strategy therefore assume implementation of the EPR in relation to vegetation belonging to the community. All other impacts to vegetation, however, are as per the pre-mitigated impact assessment.

On this basis, Commonwealth offsets have not been triggered and are not subject to an offset strategy requirement. However, it is noted that the final requirement for EPBC Act offsets is pending the outcome of the EPBC Act referral determination and may be subject to change following this decision. In the event that EPBC Act offsets are required, the offset strategy will be updated to reflect the decision.

### 2.2 State offsets

State offsets arise through the removal of native vegetation, which sometimes corresponds with modelled habitat for rare or threatened flora and fauna. State biodiversity offsets have been calculated in accordance with the Guidelines, which is an incorporated document within the Victoria Planning Provisions under Clause 52.17. Losses and gains are measured in general or species habitat units.

This offset strategy provides as a response to the application requirements 1, 5, 9, 10 and 11 of the Guidelines, as per the proposed Incorporated Document. Specifically, these include:

- Requirement 1: Information about the native vegetation to be removed by the proposed works (Section 3.1).
- Requirement 5: An avoid and minimise statement (Section 3.2).
- Requirement 9: An offset statement (Section 3.3).
- Requirement 10: A site assessment report (Appendix A; Terrestrial Ecology Report (ELA, 2024)).
- Requirement 11: Rare or threatened species (Section 4.2; Appendix B).

Additional compensations may be required under the FFG Act for impacts to protected flora and will be determined by DEECA prior to project approval. Obligations for impacts to FFG Act listed seagrass will be assessed under the Marine and Coastal Act 2018 (MaC Act) and the FFG Act. Offsets and required



compensation will be determined by DEECA prior to an FFG Act 'permit to take protected flora' or MaC Act consent is granted.

### 3. State offsets (native vegetation)

A detailed assessment of the existing environment across the project area, including the nature and extent of native vegetation, and the impacts to native vegetation and habitats, is provided in the Terrestrial Ecology Impact Assessment (ELA 2023) attached as Technical Appendix V to the EIS/EES. The following is provided as a summary of the impacts that will require offsets under commonwealth and/or Victorian requirements subject to receipt of project approvals and the final alignment being confirmed.

#### 3.1 Nature and extent

The cable alignment falls within the Gippsland Plain and Strzelecki Ranges bioregions, and the South Gippsland Shire and Latrobe City Council local government areas.

The region through which the Victorian section of the align runs is dominated by productive agricultural landscapes, comprised primarily of intensive pastoral or horticultural operations, with higher elevation sections in the Strzelecki Ranges supporting dense pine plantations. As a result, the vast majority of native vegetation (scrubs, woodlands and forests) and associated habitat that would have once covered South Gippsland has been cleared, leaving small, fragmented patches remaining along road reserves, property boundaries and creek lines and scattered trees in paddocks. In some sections, such as the hills around Waratah Bay, the Great Southern Rail Reserve and the Strzelecki Ranges, larger patches of native vegetation persist in the landscape on private and public land, representing important areas of critical habitat for flora and fauna species.

Where access permitted, vegetation quality assessments (VQA) have been completed for all habitat zones proposed to be impacted by the project, and are presented in Appendix A. Where access to complete VQA assessments has not been available, the Department of the Environment, Energy and Climate Action (DEECA, previously DELWP) modelled condition scores (NVR2017; DELWP 2017) have been used.

#### 3.2 Impacts

The extent of native vegetation and associated habitat impacted by the project includes all direct impacts, where vegetation will be removed permanently during construction, assumed losses and consequential losses including indirect impacts, where vegetation loss may occur over the medium to long-term (e.g., impacts through encroachment of tree protection zones or trimming of branches, which may lead to the decline and/or death of the tree) in accordance with the Guidelines.

Areas supporting mapped native vegetation (including both patches and trees) and associated habitat were overlaid with the project's Area of Disturbance (AoD) to determine the extent of impacts. This analysis included native vegetation assessed on-ground (where access was available) and remotely using aerial imagery, modelled datasets and field observations. As not all properties have been accessed, the

tree numbers presented are a best-estimate and may change marginally once assessment of un-accessed land has been completed.

The pre-mitigation impact analysis determined a total of 10.56 ha of native vegetation, containing 49 large trees, will be directly impacted (removed) as a result of the proposed construction works. In addition, a further 10.69 ha of native vegetation will be consequentially lost over time, including 135 large trees. A summary of the pre-mitigation ('worst case') vegetation removal is provided in Table 1.

Table 1. Native vegetation removed as a result of the proposed Marinus Link project

Ecological Vegetation Class	Bioregional conservation status	Large trees removed	Impacted area (ha)
<b>Patches</b>			
GipP0053 : Swamp Scrub	En	1	0.26
GipP0055 : Plains Grassy Woodland	En	0	0.31
GipP0083 : Swampy Riparian Woodland	En	6	0.94
GipP0175 : Grassy Woodland	En	0	0.04
GipP0937 : Swampy Woodland	En	0	0.02
Strz0023 : Herb-rich Foothill Forest	En	72	3.29
Strz0029 : Damp Forest	En	30	3.58
Strz0045 : Shrubby Foothill Forest	En	7	0.40
Strz0053 : Swamp Scrub	En	0	0.12
GipP0016 : Lowland Forest	Vu	0	0.14
GipP0151 : Plains Grassy Forest	Vu	8	0.15
GipP0793 : Damp Heathy Woodland	Vu	1	3.25
Strz0016 : Lowland Forest	Vu	10	3.76
Strz0018 : Riparian Forest	Vu	0	0.02
Strz0793 : Damp Heathy Woodland	Vu	0	0.33
Strz0030 : Wet Forest	De	0	0.75
<b>Scattered trees</b>			
GipP0029 : Damp Forest	En	1	0.07
GipP0053 : Swamp Scrub	En	6	0.42
GipP0083 : Swampy Riparian Woodland	En	2	0.14
Strz0023 : Herb-rich Foothill Forest	En	6	0.45
Strz0029 : Damp Forest	En	18	1.30
GipP0016 : Lowland Forest	Vu	5	0.38
Strz0016 : Lowland Forest	Vu	7	0.74

Ecological Vegetation Class	Bioregional conservation status	Large trees removed	Impacted area (ha)
Strz0030 : Wet Forest	De	4	0.28
<b>TOTAL</b>		<b>184</b>	<b>21.14</b>

### 3.3 Avoidance and minimisation

Avoidance and minimisation has been, and will continue to be, achieved through the various stages of the projects conceptualisation and design. These are broadly described below.

#### *Route selection*

A preliminary desktop review and field survey of several proposed interconnector routes within Victoria was conducted by Eco Logical Australia in 2018. The assessment involved documenting the general nature of native vegetation and landscape character along each proposed route, including potential habitat for threatened flora and fauna species.

This information was reviewed by MLPL as part of a high-level feasibility and route selection study, taking into consideration potential impacts to ecological values and avoidance of environmentally sensitive areas including remnant vegetation, critical habitats for threatened species, parks and reserves, and waterways and wetlands.

#### *Refinement of design and construction approach*

After selecting a preferred route, further investigations were completed between 2019 – 2021 to inform the 'Terrestrial Ecology Baseline Study' (ELA 2019). This involved detailed desktop assessments and field surveys of public land throughout the preliminary study area, and included mapping of vegetation and associated protection zones to inform refinement of the project alignment, AoD and construction approach.

Prior to the finalisation of the impact assessment in 2023, 10 revisions of the project design had been prepared which have explicitly considered potential impacts to ecological values. This has resulted in the incorporation of the following measures into the current design to avoid and minimise impacts:

- Boring under the dune and beach at Waratah Bay.
- Realignment of the route to allow protection buffers within adjacent native vegetation and habitat based on tree protection zones.
- Refinement of the AoD, including narrowing the workspace from 36 metres to 20 metres in locations constrained by native vegetation and habitat.
- Use of horizontal direction drilling to avoid impacts to major waterways and high-quality remnant vegetation within roadsides.

#### *Environmental performance requirements*

As part of the Terrestrial Ecology Impact Assessment (ELA 2023), Environmental Performance Requirements (EPRs) and associated potential mitigation measures have been developed to further avoid and minimise impacts to native vegetation and habitat, with a particular focus on key locations

identified in the study. In particular, there is an emphasis on further refinement of the project design to avoid both direct impacts (removal) and consequential impacts (tree protection zone encroachment) to native vegetation and associated habitats.

Taking the potential mitigation measures outlined in the EPRs into account, it is expected that the impact on native vegetation and habitats could be significantly reduced in development of the final design and construction. Post-mitigation impacts are estimated to be as little as:

- Direct impacts involving 6.20 ha of native vegetation removed, including 39 large trees, representing approximately 3.1% of the native vegetation within the survey area.
- Indirect impacts in the form of consequential losses of 0.55 ha of native vegetation, including 12 large trees, representing approximately 0.27% of the native vegetation within the survey area.

## 4. Offset statement

In accordance with the guidelines, native vegetation removal scenario reports have been generated using DECCA's EnSYM Native Vegetation Regulations (NVR) tool. This tool is designed to test clearing and offset scenarios, and takes as an input the proposed extent of native vegetation to be removed (both patches and scattered trees).

The proposed pre- and post-mitigation vegetation loss is presented in the Terrestrial Ecology Impact Assessment (ELA 2023) and has been provided as an indication of the likely range of offsets required by the project (Appendix B). These two scenarios represent the likely upper and lower limits, or range, of vegetation removal and associated offset requirements. Details of offset availability is provided in section 4.3 and reports detailing the availability of general habitat offset credits for both the pre and post-mitigation scenarios have been provided in Appendix C.

Marinus Link Pty Ltd have been informed of the potential offset requirements for both scenarios and have funding available for the pre-mitigation scenario, however it is expected that following further refinement of the project design these offsets will be significantly reduced and will reflect the post-mitigation offset requirements. Purchasing of available offsets will be done through a registered native vegetation broker.

### 4.1 Offset requirements

For the purpose of addressing the approval requirements, the pre-mitigation (worst-case) impact scenario will be used to determine the native vegetation offset requirements for the project. This scenario assumes:

- The successful implementation of measures to comply with EPR EC01, which requires the avoidance of impacts to the EPBC Act listed Gippsland Red Gum (*Eucalyptus tereticornis subsp. mediana*) Grassy Woodland and Associated Native Grassland TEC including the related FFG Act listed threatened community.

- All other impacts as per the pre-mitigated impact assessment.

If native vegetation removal is less than the pre-mitigation estimates at the completion of the project, offsets may be reconciled in accordance with the *Assessor's handbook – Applications to remove, destroy or lop native vegetation* (DELWP 2018). A summary of the offset requirements is outlined in Table 2.

Table 2. Native vegetation offset requirements for the Victorian component of Marinus Link

	Pre-mitigation impact	Post-mitigation impacts
<b>Assessment pathway</b>	Detailed	Detailed
<b>Native vegetation removed*</b>	20.800 ha 184 large trees	6.649 ha 51 large trees
<b>General offset amount</b>	0.984 general habitat units	3.225 general habitat units
<b>Species offset amount</b>	3.833 species units of habitat for Eastern Spider-orchid, <i>Caladenia orientalis</i> 14.740 species units of habitat for Strzelecki Gum, <i>Eucalyptus strzeleckii</i>	Nil
<b>Tree offsets</b>	184 large trees	51 large trees
<b>Vicinity (general offsets)</b>	West Gippsland Catchment Management Authority (CMA) or Latrobe City, South Gippsland Shire Council	West Gippsland Catchment Management Authority (CMA) or Latrobe City, South Gippsland Shire Council
<b>Minimum strategic biodiversity score (general offsets)</b>	0.266	0.326

\* The extent of vegetation removed varies slightly from that quantified in the *Terrestrial Ecology Impact Report (ELA 2023)* and listed in Section 3.2 as a result of differences between the project standards and the ENYSM tool's projection/coordinate systems.

## 4.2 Species offsets

As outlined in Table 2, the pre-mitigation impact scenario would require:

- 3.833 species units of habitat for Eastern Spider-orchid, *Caladenia orientalis*
- 14.740 species units of habitat for Strzelecki Gum, *Eucalyptus strzeleckii*

Prior to the finalisation of offset requirements, a discussion with DEECA is recommended for potential removal of species offsets related to Strzelecki Gum based on the outcome of the Terrestrial Ecology Impact Assessment. The AoD has mapped habitat for Strzelecki Gum occurring which has resulted in the requirement for species specific offsets. However, the Terrestrial Ecology Impact Assessment found the below which is the basis for the discussion with DEECA:

- The impact assessment identifying one single tree proposed to be impacted under the pre-mitigation scenario. Impacts to this tree will occur as a result of the proposed access track encroaching on the tree protection zone, and will not involve direct removal of the tree in question. This impact is likely to be mitigated through further micro-sitting and controls recommended by an arborist. For further information, see Section 8.3.2 of the Terrestrial Ecology Impact Assessment report (ELA 2023).
- With the exception of the single tree above, no native vegetation that contain Strzelecki Gum as a canopy species will be impacted by the proposed works. Patches impacted by the proposed works support alternative canopy species, such as messmate *Eucalyptus obliqua*, swamp gum *Eucalyptus ovata* or Silvertop ash *Eucalyptus sieberi*. Therefore, if this vegetation was considered to be habitat for Strzelecki Gum, this species would be present and would have been recorded as being impacted. This information is based on the extensive tree census that was completed as part of the impact assessment, in which over 2800 trees were recorded throughout the survey area.

It is understood that written approval must be obtained from the Secretary of DEECA prior to the species offsets being removed.

### 4.3 Offset availability

An accredited offset broker (VegetationLink) has been contacted to investigate the availability of offsets based on the pre-mitigation removal and offset scenario listed in Table 2. The broker has identified three third-party trade options for the required general and species habitat units based on registered and unregistered sites currently available in the market. These sites are summarised in Table 3.

Table 3. Third-party offsets available for pre-mitigation native vegetation offset requirements

Option	Details
<p><b>Option 1:</b></p> <p>2 x New unregistered site pathway – offset sites located in the South Gippsland &amp; Wellington Shire areas</p>	<p>Offset requirements met through purchase of the following across the two sites:</p> <ul style="list-style-type: none"> <li>• 0.984 General Habitat Units</li> <li>• 3.833 Species Habitat Units for Eastern Spider-orchid, <i>Caladenia orientalis</i></li> <li>• 14.74 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i></li> <li>• 184 Large Trees</li> </ul>
<p><b>Option 2:</b></p> <p>5 x 3-Party CTA pathway - offset sites located in the Wellington, Bass Coast, Latrobe, South Gippsland and Colac Otway Shire areas</p>	<p>Offset requirements met through purchase of the following across the five sites:</p> <ul style="list-style-type: none"> <li>• 0.984 General Habitat Units</li> <li>• 2.898 Species Habitat Units for Eastern Spider-orchid, <i>Caladenia orientalis</i> + 73 Large Trees</li> <li>• 0.935 Species Habitat Units for Eastern Spider-orchid, <i>Caladenia orientalis</i>, 0.935 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i> + 111 Large Trees</li> <li>• 6.612 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i></li> <li>• 7.193 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i></li> </ul>
<p><b>Option 3:</b></p> <p>5 x 3-Party CTA pathway - offset sites located in the Wellington, Bass Coast,</p>	<p>Offset requirements met through purchase of the following across the five sites:</p> <ul style="list-style-type: none"> <li>• 0.984 General Habitat Units</li> <li>• 2.433 Species Habitat Units for Eastern Spider-orchid, <i>Caladenia orientalis</i> + 73 Large Trees</li> </ul>

Option	Details
Latrobe, South Gippsland and Colac Otway Shire areas	<ul style="list-style-type: none"> <li>• 1.4 Species Habitat Units for Eastern Spider-orchid, <i>Caladenia orientalis</i>, 1.4 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i> + 111 Large Trees</li> <li>• 6.612 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i></li> <li>• 6.728 Species Habitat Units for Strzelecki Gum, <i>Eucalyptus strzeleckii</i></li> </ul>

Based on a search of the Native Vegetation Credit Register (NVCR) there is currently a large quantity of general habitat units (with large trees) currently available in the market that could meet the offset requirements of the post-mitigation removal and offset scenario listed in Table 2, which doesn't require species specific offsets (Appendix C).

Where species specific offsets are required and are not available to purchase, an alternative arrangement will be discussed with DEECA in accordance with the guidelines.

Where possible, the preference is to purchase offsets within the Gippsland region, in particular the large tree offsets.

## 5. Conclusion

National biodiversity offsets for MNES listed under the EPBC Act are not considered to be required given the project is not anticipated to have a significant impact on these values.

State biodiversity offsets for native vegetation have been calculated in accordance with the Guidelines (DELWP 2017), and as per the proposed Incorporated Document the following has been addressed specifically in this offset strategy:

Pre-mitigation impacts to native vegetation have been calculated to be as much as 21.14 ha and 184 large trees, whilst post-mitigation impacts could be as low as 6.65 ha and 51 large trees. Based on the worst-case scenario (pre-mitigation), offset requirements have been determined to be:

- 0.984 general habitat units
- 3.833 species units of habitat for Eastern Spider-orchid
- 14.740 species units of habitat for Strzelecki Gum
- 184 large trees

A review of the credit market and potential trade options for the above requirements indicates all offsets for the project are readily available (Appendix C). The proponent is aware of the estimated costs of the offsets required and will purchase them as required.

Final offset requirements will be incorporated into this offset strategy based on the detailed project design and construction approach. Prior to the finalisation of the offset strategy and securing offsets for the project, it is recommended the native vegetation team within DEECA be contacted to discuss the review of species offsets for Strzelecki Gum, as this may significantly reduce the costs offsets for the project.



## 6. References

DELWP 2017a. Guidelines for the removal, destruction or lopping of native vegetation, Victorian Department of Environment, Land, Water and Planning, Melbourne, Victoria.

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DELWP 2018. Assessor's handbook: Applications to remove, destroy or lop native vegetation (V1.1). Victorian Department of Environment, Land, Water and Planning, Melbourne, Victoria.

DEECA 2023. Native Vegetation Credit Register search tool. <https://nvcr.delwp.vic.gov.au/>, accessed 1/8/2023.

DSE 2004. Vegetation Quality Assessment Manual—Guidelines for applying the habitat hectares scoring method. Version 1.3. Victorian Government Department of Sustainability and Environment, Melbourne.

## Appendix A Vegetation quality assessment data

Table 4. Glossary and abbreviations (DSE, 2004).

Term	Meaning
Benchmark (BM)	A standard vegetation-quality reference point relevant to the vegetation type that is applied in habitat hectare assessments. Represents the average characteristics of a mature and apparently long-undisturbed state of the same vegetation type.
Bioregion	A landscape based approach to classifying the land surface using a range environmental attributes such as climate, geomorphology, lithology and vegetation.
Canopy Trees	Canopy trees are defined as the uppermost stratum of woody vegetation (at least 5 m tall) that contributes to, or forms the vegetation 'canopy'.
Diameter at Breast Height Over Bark (DBH)	The diameter of the main trunk of a tree measured over bark at 1.3 m above ground level.
Distance to Core	The distance of the native vegetation patch to a core area. A 'core area' is defined as any patch of native vegetation greater than 50 ha regardless of type, quality or tenure.
Ecological Vegetation Class (EVC)	A type of native vegetation classification that is described through a combination of its floristics, life form and ecological characteristics, and through an inferred fidelity to particular environment attributes. Each EVC includes a collection of floristic communities (i.e. lower level in the classification that is based solely on groups in the same species) that occur across a biogeographic range, and although differing in species, have similar habitat and ecological processes operating
Habitat Hectare	A site based measure of quality and quantity of native vegetation that is assessed in the context of the relevant native vegetation type.
Habitat Score	The score assigned to a habitat zone that indicates the quality of the vegetation relative to the Ecological Vegetation Class (EVC) benchmark – sum of the site condition score and landscape context score usually expressed as a percentage or on a scale of zero to 1.
Habitat Zone	A discrete area of native vegetation consisting of a single vegetation type (EVC) with an assumed similar averaged quality. This is the base spatial unit for conducting a habitat hectare assessment.
High Threat Weed	Introduced species (including non-indigenous 'natives') with the ability to outcompete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.
Lack of Weeds	An estimate of the total percentage weed (projective foliage) cover in the habitat zone and the proportion of this cover due to high threat weeds.
Landscape Context	Measure of the viability and functionality of a patch of vegetation in relation to its size and position in the landscape in relation to surrounding vegetation.
Logs	The length of logs present in the habitat zone and comparing this to the EVC benchmark log length. Large logs are defined as logs that have a diameter of at least half the large tree DBH, as defined in the EVC benchmark.
Neighbourhood	The amount and configuration of native vegetation within proximity of the habitat zone being assessed.
Observed (Obs)	The observed site characteristics at the time of the assessment.

Term	Meaning
Organic Litter	Litter is defined as organic material detached from the parent plant, including both coarse and fine plant debris, and material such as fallen leaves, twigs and small branches less than 10 cm diameter present at ground level.
Patch Size	The area of native vegetation.
Projective Foliage Cover	Projective Foliage Cover The proportion of the ground that is shaded by vegetation foliage when lit from directly above.
Recruitment	Evidence of immature plants that have survived for at least one year since germination or first establishment.
Remnant Patch	Evidence of immature plants that have survived for at least one year since germination or first establishment.
Site Condition	Measure of the 'naturalness' or 'intactness' of a patch of vegetation using a number of site-based attributes assessed against a defined benchmark.
Site	An area of interest that may contain contiguous or discrete patches of native vegetation on private or public land, requiring a habitat hectare assessment.
Tree Canopy	Uppermost stratum of woody vegetation usually consisting of trees greater than 5 m tall that contributes to or forms the vegetation 'canopy'.
Understorey Assessment Score	The understorey assessment involves estimating the number of understorey life forms present in the habitat zone in comparison to the EVC benchmark and then assessing their modification for either diversity or cover.
Vegetation Quality	Measure of the intactness and viability of vegetation in relation to its site condition and landscape context.

Table 5. Understorey life form categories applied in vegetation quality assessments (DSE, 2004).

Life form	Life Form Code	Definitions
Immature Tree	IT	Woody plants (consisting of the tree canopy species) greater than 5 m in height but less than 80% of the mature canopy height (refer to EVC Benchmark description).
Tree (sub-canopy)	T	Woody plants greater than 5 m in height, with single stems that never form part of the tree canopy.
Mallee Tree (sub-canopy)	MT	Woody mallee-type plants greater than 3 m in height with multiple stems that never form part of the tree canopy
Medium Shrub	MS	Woody plants between 1 m and 5 m in height
Small Shrub	SS	More or less erect, woody plants that are between 20 cm and 1 m in height.
Prostrate Shrub	PS	Woody plants with stems and branches that often trail along the ground and do not exceed 20 cm in height.
Large Herb	LH	More or less erect, non-woody plants with non-grassy leaves, greater than 50 cm tall
Medium Herb	MH	More or less erect, non-woody plants with non-grassy leaves, between 5 cm and 50 cm tall

Life form	Life Form Code	Definitions
Small or Prostrate Herb	SH	More or less erect, non-woody plants with non-grassy leaves, less than 5 cm in height. Many of this group are ephemerals (ie. germinate, reproduce and die within a few weeks). The group includes prostrate and carpet-forming herbs.
Large Tufted Graminoid	LTG	A robust grass, sedge, rush or similar, usually with more than one flower stalk. Usually large numbers of leaves arising from a common, often broad base or clump, more than 1m tall. Includes trunked <i>Xanthorrhoea</i> spp and palm-like sedges, such as <i>Gahnia clarkei</i> .
Medium to Small Tufted Graminoid	MTG	A grass, sedge, rush or similar, usually with more than one flower stalk. Usually large numbers of leaves arising from a common base or clump, between 10 cm and 1 m tall
Tiny Tufted Graminoid	TTG	A grass, sedge, rush or similar, usually with more than one flower stalk. Usually large numbers of leaves arising from a common base or clump, between 10 cm and 1 m tall
Large Non-tufted Graminoid	LNG	A robust grass or sedge, with leaves arranged along single, erect flower stalks, which in turn arise from rhizomes or stolons (creeping above or below ground stems), more than 1 m tall.
Medium to Tiny Non-tufted Graminoid	MNG	A grass, sedge, rush or similar with leaves arranged along single, erect flower stalks, which in turn arise from rhizomes or stolons (creeping above or below ground stems), not exceeding 1 m tall. Also includes plants with a few grass-like leaves arising from a common base (e.g. some lilies, orchids).
Hummock Grass	HG	A grass of semi-arid and arid environments that grows from a central point
Ground Fern	GF	A fern-like non-flowering plant, usually with several to many fronds (ie. deeply divided into leaflets or segments) arising from a common base. Usually growing less than 1 m.
Tree Fern / Palm	TF	A large tree-like fern or palm, with a distinct, fibrous or scaly trunk (made up of the persistent leaf bases) and a crown of very large divided fronds or leaves.
Epiphyte	EP	A plant that grows entirely upon other plants (root system not immersed in the soil or water). Includes aerial parasites, such as mistletoes but not dodder laurels (included under scrambler or climber)
Scrambler or Climber	SC	Woody or non-woody plants that rely upon other plants (dead or alive) or other structures (rocks or logs) for support. The main difference between this category and plants described as 'prostrate', is the habit of using other plants to lean on or climb. Species in this group may form dense colonies.
Bryophytes and Lichens	BL	A broad grouping of non-vascular terrestrial plants. Differentiated from soil crust below by its vertical structure.
Soil Crust	S/C	A hard 'crust-like' layer formed on the soil surface by a combination of algae / crustose cryptogamic life forms and soil particles. Often contains no vertical structure.

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.35</b>
ZONE ID	1	SITE CONDITION SCORE	33.00	
DATE	2023-08-10	LANDSCAPE SCORE	2.00	
EVC	Strz0023: Herb-rich Foothill Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Griffin Taylor-Dalton			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	7.00
Score		<b>4.00</b>

CANOPY TREES	BM	Obs
Health	N/A	30-70%
Cover %	40.00	8.00
Score		<b>2.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	30.00
Origin of litter	N/A	Native
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	7.00	0
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	14.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	30.00
Large logs within 1ha (m)	50	50.00
Score		<b>3.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	0.00
5km	20.00
Score	<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	2.9
Significantly disturbed	Yes
Score	<b>1.00</b>

PATCH SIZE	Obs
Area of patch (ha)	1.10
Significantly disturbed	Yes
Score	<b>1.00</b>

WEEDS	%	HT
<i>Anthoxanthum odoratum</i>	15.00	Yes
<i>Hypochaeris radicata</i>	4.00	No
<i>Cirsium vulgare</i>	0.10	No
<i>Rubus fruticosus</i> spp. agg.	5.00	Yes
<i>Plantago lanceolata</i>	0.50	No
<i>Pinus</i> spp.	1.00	No
<i>Lysimachia arvensis</i>	1.00	No
<i>Vicia sativa</i> subsp. <i>sativa</i>	0.50	No
<i>Centaureum</i> spp.	0.10	No
<i>Conyza bonariensis</i>	0.10	No
<i>Briza maxima</i>	2.00	No
<i>Sanchus oleraceus</i>	0.10	No
<i>Brassica</i> spp.	0.10	No
<i>Dactylis glomerata</i>	0.10	No
<i>Avena barbata</i>	0.10	No
Total Cover	29.70 %	
Cover of high threat species	20.00 %	
Score	<b>4.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	2		5			3	9	2	3	2	3	2			2			3	-	-		
Obs. no. species																							12	
Benchmark % cover		5	15		20			5	15	5	15	5	10	5			10			5	20			
Obs. % cover																					1	0		90.6
Present & Modified		P			P					P		P	P&M	P			P&M			P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Acacia mearnsii</i>	No		1		0.1																			1.1
<i>Austrostipa rudis</i> subsp. <i>nervosa</i>	No										0.1													0.1
<i>Acacia maidenii</i>	No		0.1																					0.1
<i>Acacia mucronata</i> subsp. <i>longifolia</i>	No				0.1																			0.1
<i>Acacia verniciflua</i> s.l.	Yes				55	5																		60
<i>Bursaria spinosa</i> subsp. <i>spinosa</i>	No				0.5																			0.5
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				0.3																			0.3
<i>Cassinia longifolia</i>	No				0.5																			0.5
<i>Cassytha glabella</i>	No																				0.1			0.1
<i>Clematis aristata</i>	No																				0.2			0.2
<i>Clematis glycinoides</i>	No																				0.1			0.1
<i>Coprosma quadrifida</i>	No					0.1																		0.1
<i>Eucalyptus cypellocarpa</i>	Yes		1																					1
<i>Eucalyptus globulus</i> subsp. <i>pseudoglobulus</i>	No																							
<i>Eucalyptus obliqua</i>	No		2																					2
<i>Eucalyptus radiata</i> subsp. <i>radiata</i>	No		0.1																					0.1
<i>Exocarpos cupressiformis</i>	No				0.5																			0.5
<i>Gahnia sieberiana</i>	No														10									10
<i>Geranium solanderi</i> s.l.	No								0.1															0.1
<i>Goodenia humilis</i>	No									0.1														0.1
<i>Goodenia ovata</i>	No				0.1																			0.1
<i>Hydrocotyle laxiflora</i>	No								0.1															0.1
	No				5																			5

Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Lomandra filiformis</i>	No													0.1										0.1
<i>Lomandra longifolia</i> subsp. <i>exilis</i>	No											0.1												0.1
<i>Olearia lirata</i>	No				0.1																			0.1
<i>Opercularia aspera</i>	No								0.1															0.1
<i>Polyscias sambucifolia</i>	No				0.1																			0.1
<i>Hypericum gramineum</i>	No								0.2															0.2
<i>Leptospermum continentale</i>	No				2																			2
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No												2											2
<i>Oxalis perennans</i>	No									0.1														0.1
<i>Poa morrisii</i>	No												0.1											0.1
<i>Rubus parvifolius</i>	No																			0.1				0.1
<i>Senecio glomeratus</i>	No				0.1																			0.1
<i>Senecio hispidulus</i> s.l.	No				0.1																			0.1
<i>Stellaria pungens</i>	No									0.1														0.1
<i>Tetrarrhena juncea</i>	No									1														1
<i>Thysanotus tuberosus</i>	No								0.1															0.1
<i>Viola hederacea</i> sensu <i>Willis</i> (1972)	No									0.1														0.1
<i>Wahlenbergia gracilis</i>	No								0.1															0.1
<i>Lomandra glauca</i> s.l.	No													0.2										0.2
<i>Dichondra repens</i>	No									0.5														0.5
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																1							1
<i>Senecio quadridentatus</i>	No				0.1																			0.1

# VQA Assessment Data

<b>PROJECT NAME</b>	Marinus	<b>MULTIPLIER</b>	1.00	<b>HABITAT SCORE</b> <b>0.22</b>
<b>ZONE ID</b>	2	<b>SITE CONDITION SCORE</b>	19.00	
<b>DATE</b>	2023-08-10	<b>LANDSCAPE SCORE</b>	3.00	
<b>EVC</b>	GipP0151: Plains Grassy Forest			
<b>BIOREGION</b>	Gippsland Plain			
<b>ASSESSOR</b>	Danielle Woodhams			
<b>DBH</b>	70 cm			

<b>LARGE TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Number/ha	20.00	2.00
<b>Score</b>		<b>2.00</b>

<b>CANOPY TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	>70%
Cover %	30.00	20.00
<b>Score</b>		<b>5.00</b>

<b>ORGANIC LITTER</b>	<b>BM</b>	<b>Obs</b>
Cover of litter (%)	20.00	40.00
Origin of litter	N/A	Non-Native
<b>Score</b>		<b>2.00</b>

<b>RECRUITMENT</b>	<b>BM</b>	<b>Obs</b>
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	12.00	0
<b>Score</b>		<b>1.00</b>

<b>RECRUITMENT (NON-WOODY)</b>	<b>BM</b>	<b>Obs</b>
Cover of recruitment area (%)		0.00
Herb Diversity	11.00	0
<b>Score</b>		<b>0.00</b>

<b>LOGS</b>	<b>BM</b>	<b>Obs</b>
Logs within 1ha (m)	200	0.00
Large logs within 1ha (m)	50	0.00
<b>Score</b>		<b>0.00</b>

<b>NEIGHBOURHOOD</b>	<b>%</b>
Significantly disturbed	Yes
100m	40
1km	20.00
5km	20.00
<b>Score</b>	<b>1.00</b>

<b>DISTANCE TO CORE (50ha area)</b>	<b>Obs</b>
Distance to core (km)	3.7
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

<b>PATCH SIZE</b>	<b>Obs</b>
Area of patch (ha)	0.96
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

<b>WEEDS</b>	<b>%</b>	<b>HT</b>
<i>Ehrharta erecta</i> var. <i>erecta</i>	10.00	Yes
<i>Dactylis glomerata</i>	30.00	Yes
Total Cover	40.00 %	
Cover of high threat species	40.00 %	
<b>Score</b>	<b>4.00</b>	

<b>UNDERSTOREY ASSESSMENT SCORE: 5</b>	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	3		6	3	2	3	6	2	2	1	4	2			2				-	-		
Obs. no. species																					-	-	4	
Benchmark % cover		5	15		20	5	5	5	10	5	10	5	15	1			10				10			
Obs. % cover																					0	0		45
Present & Modified					P&M		P	P	P&M															
<b>Reproductively mature specimens</b>	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Hypericum gramineum</i>	No						1																	1
<i>Leptospermum continentale</i>	No						1																	1
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No							20																20
<i>Oxalis perennans</i>	No							1																1
<i>Poa morrisii</i>	No																							
	No				5																			5
<i>Acaena novae-zelandiae</i>	No						1																	1
<i>Austrorhiza</i> spp.	No						2																	2
<i>Dichondra repens</i>	No						1																	1
<i>Drosera peltata</i> s.l.	No						1																	1
<i>Eucalyptus ovata</i>	No																							
<i>Euchiton japonicus</i> s.s.	No						1																	1
<i>Gahnia radula</i>	No						3																	3
<i>Geranium</i> spp.	No																							
<i>Gonocarpus teucrioides</i> s.l.	No						3																	3
<i>Juncus subsecundus</i>	No						1																	1
<i>Melaleuca ericifolia</i>	No							1																1
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No								2															2
<i>Rytidosperma</i> spp.	No																							
<i>Senecio quadridentatus</i>	No								1															1
<i>Themeda triandra</i>	No																							
<i>Tricoryne</i> spp.	No																							
<i>Thelymitra</i> spp.	No																							
<i>Geranium</i> sp. 3	No																							
<i>Einadia nutans</i>	No																							
<i>Poaceae</i> spp.	No																							
<i>Eucalyptus pauciflora</i>	No																							

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.57</b>
ZONE ID	3	SITE CONDITION SCORE	48.00	
DATE	2023-08-10	LANDSCAPE SCORE	9.00	
EVC	Strz0045: Shrubby Foothill Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	James Garden			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	30-70%
Number/ha	20.00	10.00
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Episodic	Yes
% of woody species with adeq. recruit.		0
Diversity of woody species	13.00	0
Score		<b>6.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	20.00
5km	20.00
Score	<b>0.00</b>

CANOPY TREES	BM	Obs
Health	N/A	30-70%
Cover %	40.00	15.00
Score		<b>2.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	4.00	0
Score		<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	3.7
Significantly disturbed	Yes
Score	<b>1.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	80.00
Origin of litter	N/A	Native
Score		<b>3.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	60.00
Large logs within 1ha (m)	50	1.00
Score		<b>2.00</b>

PATCH SIZE	Obs
Area of patch (ha)	33.00
Significantly disturbed	Yes
Score	<b>8.00</b>

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	1		8	4	1		3	1	1	1	2				2			1	-	-		
Obs. no. species																					-	-	13	
Benchmark % cover		5	5		35	15	5		5	1	5	10	5				10			1	10	10		
Obs. % cover																					0	0		71.5
Present & Modified		P	P		P	P&M	P		P	P		P&M								P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Acacia verniciflua</i> s.l.	Yes		5		10	2																		17
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	Yes				5	1	1																	7
<i>Cassinia longifolia</i>	No				0.1																			0.1
<i>Clematis aristata</i>	No																			2				2
<i>Coprosma quadrifida</i>	Yes				1	1																		2
<i>Eucalyptus obliqua</i>	Yes	1																						1
<i>Goodenia ovata</i>	No				2	2																		4
<i>Olearia lirata</i>	No						0.1																	0.1
<i>Polyscias sambucifolia</i>	No				0.1																			0.1
<i>Adiantum aethiopicum</i>	No																							
<i>Asperula conferta</i>	No								1	1														2
<i>Billardiera mutabilis</i>	No																			1				1
<i>Billardiera scandens</i> s.l.	No																			1				1
<i>Gahnia radula</i>	No											2		5										7
<i>Gonocarpus teucrioides</i> s.l.	No								1	1														2
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																							
<i>Senecio hispidulus</i> s.l.	No								0.1															0.1
<i>Tetrarrhena juncea</i>	No											2		3										5
<i>Wahlenbergia gracilis</i>	No								0.1															0.1
<i>Caladenia carnea</i> sensu Willis (1970)	No													0.1										0.1
<i>Cyathea australis</i>	No																	0.1						0.1
<i>Dichondra repens</i>	No									1														1
<i>Eucalyptus baxteri</i> s.l.	No	0.1																						0.1
<i>Eucalyptus radiata</i> s.l.	Yes	1																						1
<i>Eucalyptus sieberi</i>	Yes	1																						1
<i>Exocarpos cupressiformis</i>	Yes		0.1																					0.1
<i>Geranium potentilloides</i>	No									1														1
<i>Geranium</i> sp. 2	No									0.1														0.1
<i>Glycine clandestina</i>	No																				0.1			0.1
<i>Gonocarpus tetragynus</i>	No								1	1														2
<i>Hydrocotyle hirta</i>	No									5														5
<i>Logenophora stipitata</i> s.l.	No									1														1
<i>Lepidosperma laterale</i>	No																							
<i>Opercularia varia</i>	No								0.1															0.1
<i>Oxalis corniculata</i> s.l.	No																							
<i>Oxalis exilis</i>	No																							
<i>Ozothamnus rosmarinifolius</i>	No																							



Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Pandorea pandorana</i> subsp. <i>pandorana</i>	No																		1					1
<i>Poa tenera</i>	No													5										5
<i>Senecio linearifolius</i>	No								0.1															0.1
<i>Solanum aviculare</i>	No																							
<i>Stellaria flaccida</i>	No								0.1															0.1
<i>Thelymitra media</i> s.s.	No														0.1									0.1
<i>Viola hederacea</i> sensu Entwisle (1996)	No									1														1
<i>Xanthorrhoea minor</i> subsp. <i>lutea</i>	No																							

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.48</b>
ZONE ID	4	SITE CONDITION SCORE	44.00	
DATE	2023-08-10	LANDSCAPE SCORE	4.00	
EVC	Strz0045: Shrubby Foothill Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Griffin Taylor-Dalton			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	30-70%
Number/ha	20.00	0.00
<b>Score</b>		<b>0.00</b>

CANOPY TREES	BM	Obs
Health	N/A	30-70%
Cover %	40.00	20.00
<b>Score</b>		<b>4.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	70.00
Origin of litter	N/A	Native
<b>Score</b>		<b>3.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Episodic	No
% of woody species with adeq. recruit.		0
Diversity of woody species	13.00	0
<b>Score</b>		<b>5.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	4.00	0
<b>Score</b>		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	148.00
Large logs within 1ha (m)	50	12.00
<b>Score</b>		<b>4.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	20.00
5km	20.00
<b>Score</b>	<b>1.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	1.5
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

PATCH SIZE	Obs
Area of patch (ha)	2.10
Significantly disturbed	Yes
<b>Score</b>	<b>2.00</b>

WEEDS	%	HT
<i>Rubus fruticosus</i> spp. agg.	0.50	Yes
<i>Hypochaeris radicata</i>	0.50	No
<i>Palaris aquatica</i>	0.50	No
<i>Briza maxima</i>	0.10	No
<i>Lysimachia arvensis</i>	0.10	No
<i>Cirsium vulgare</i>	0.10	No
<i>Solanum nigrum</i> s.s.	0.10	No
<i>Ulex europaeus</i>	0.10	No
Total Cover	2.00 %	
Cover of high threat species	0.50 %	
<b>Score</b>	<b>13.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	1		8	4	1		3	1	1	1	2				2			1	-	-		
Obs. no. species																					-	-	11	
Benchmark % cover		5	5		35	15	5		5	1	5	10	5				10			1	10	10		
Obs. % cover																					2	0		98.5
Present & Modified		P	P		P	P&M			P&M	P	P						P			P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Acacia verniciflua</i> s.l.	No				60																			60
<i>Bursaria spinosa</i> subsp. <i>spinosa</i>	No									0.1														0.1
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No									0.5														0.5
<i>Clematis aristata</i>	No																				0.1			0.1
<i>Coprosma quadrifida</i>	No				0.5																			0.5
<i>Eucalyptus cypellocarpa</i>	No	0.1	0.1																					0.2
<i>Eucalyptus obliqua</i>	No																							
<i>Gahnia sieberiana</i>	No												1											1
<i>Geranium solanderi</i> s.l.	No									0.1														0.1
<i>Goodenia ovata</i>	No				1																			1
<i>Hydrocotyle laxiflora</i>	No									0.1														0.1
<i>Lomandra filiformis</i>	No													0.1										0.1
<i>Polyscias sambucifolia</i>	No				0.1																			0.1
<i>Acaena novae-zelandiae</i>	No									0.1														0.1
<i>Senecio glomeratus</i>	No								0.5															0.5
<i>Tetrarrhena juncea</i>	No										1													1
<i>Viola hederacea</i> sensu Willis (1972)	No									1														1
<i>Acacia mucronata</i> subsp. <i>longifolia</i>	No				0.2																			0.2
	No				0.1																			0.1
<i>Epacris impressa</i>	No					0.1																		0.1
<i>Eucalyptus baxteri</i> s.s.	No		0.1																					0.1
<i>Eucalyptus sieberi</i>	Yes	5	5																					10
<i>Glycine clandestina</i>	No																			0.1				0.1
<i>Gonocarpus tetragynus</i>	No									0.1														0.1
<i>Lomandra longifolia</i> subsp. <i>longifolia</i>	No											0.1												0.1
<i>Olearia lirata</i>	No				1																			1
<i>Opercularia varia</i>	No									0.2														0.2
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																20							20
<i>Cassinia</i> spp.	No				0.1																			0.1

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.56</b>
ZONE ID	5	SITE CONDITION SCORE	51.00	
DATE	2023-08-10	LANDSCAPE SCORE	5.00	
EVC	Strz0029: Damp Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Danielle Woodhams			
DBH	90 cm			

<b>LARGE TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Number/ha	20.00	3.00
<b>Score</b>		<b>2.00</b>

<b>RECRUITMENT</b>	<b>BM</b>	<b>Obs</b>
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	11.00	0
<b>Score</b>		<b>10.00</b>

<b>NEIGHBOURHOOD</b>	<b>%</b>
Significantly disturbed	Yes
100m	60
1km	20.00
5km	40.00
<b>Score</b>	<b>2.00</b>

<b>WEEDS</b>	<b>%</b>	<b>HT</b>
<i>Anthoxanthum odoratum</i>	0.20	No
<i>Hypochaeris radicata</i>	0.20	No
Total Cover	0.40 %	
Cover of high threat species	0.00 %	
<b>Score</b>	<b>15.00</b>	

<b>CANOPY TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Cover %	40.00	30.00
<b>Score</b>		<b>4.00</b>

<b>RECRUITMENT (NON-WOODY)</b>	<b>BM</b>	<b>Obs</b>
Cover of recruitment area (%)		0.00
Herb Diversity	11.00	0
<b>Score</b>		<b>0.00</b>

<b>DISTANCE TO CORE (50ha area)</b>	<b>Obs</b>
Distance to core (km)	1.7
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

<b>ORGANIC LITTER</b>	<b>BM</b>	<b>Obs</b>
Cover of litter (%)	50.00	40.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

<b>LOGS</b>	<b>BM</b>	<b>Obs</b>
Logs within 1ha (m)	300	0.00
Large logs within 1ha (m)	50	0.00
<b>Score</b>		<b>0.00</b>

<b>PATCH SIZE</b>	<b>Obs</b>
Area of patch (ha)	2.50
Significantly disturbed	Yes
<b>Score</b>	<b>2.00</b>

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	4		6	1		2	8	1	1	1	3	2			3	1		3	-	-		
Obs. no. species																					-	-	14	
Benchmark % cover		5	20		30	1		1	10	1	1	5	10	5			10	5		5	20			
Obs. % cover																					0	0		92
Present & Modified		P			P	P		P	P&M	P	P	P	P	P			P	P		P				
<b>Reproductively mature specimens</b>	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				20	2																		22
<i>Clematis aristata</i>	No																			1				1
<i>Eucalyptus cypellocarpa</i>	Yes	1																						1
<i>Gahnia sieberiana</i>	No										2													2
<i>Goodenia ovata</i>	Yes																							
<i>Lomandra longifolia</i> subsp. <i>exilis</i>	No																							
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No																							
<i>Polyscias sambucifolia</i>	Yes				5	1																		6
<i>Acaena novae-zelandiae</i>	No								1															1
<i>Gonocarpus teucrioides</i> s.l.	No																							
<i>Senecio glomeratus</i>	No								1															1
<i>Tetrarrhena juncea</i>	No											5		5										10
<i>Cyathea australis</i>	No																	1						1
<i>Eucalyptus radiata</i> s.l.	Yes	2																						2
<i>Geranium potentilloides</i>	No																							
<i>Hydrocotyle hirta</i>	No																							
<i>Olearia lirata</i>	Yes				1	1																		2
<i>Oxalis exilis</i>	No																							
<i>Poa tenera</i>	No													5										5
<i>Senecio linearifolius</i>	No							1																1
<i>Viola hederacea</i> sensu Entwisle (1996)	No									1														1
<i>Acacia melanoxylon</i>	No		1																					1
<i>Acacia verticillata</i> subsp. <i>verticillata</i>	Yes				5	1																		6
<i>Blechnum watsii</i>	No																3							3
<i>Calochlaena dubia</i>	No																3							3
<i>Cassytha melantha</i>	No																			1				1
<i>Dianella tasmanica</i>	No										5	6												11
<i>Euchiton japonicus</i> s.l.	No																							
<i>Goodia latifolia</i> s.l.	Yes																							
<i>Lepidosperma elatius</i>	No										10													10
<i>Oreomyrrhis eriopoda</i>	No																							
<i>Poa spp.</i>	No												1											1
<i>Poranthera micrrophylla</i> s.l.	No																							

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.28</b>
ZONE ID	12	SITE CONDITION SCORE	28.00	
DATE	2023-08-10	LANDSCAPE SCORE	0.00	
EVC	GipP0016: Lowland Forest			
BIOREGION	Gippsland Plain			
ASSESSOR	James Garden			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	7.00
<b>Score</b>		<b>4.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	30.00	25.00
<b>Score</b>		<b>5.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	10.00
Origin of litter	N/A	Native
<b>Score</b>		<b>3.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	14.00	0
<b>Score</b>		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	15.00	0
<b>Score</b>		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	0.00
Large logs within 1ha (m)	50	0.00
<b>Score</b>		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	0
1km	20.00
5km	20.00
<b>Score</b>	<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	10.3
Significantly disturbed	Yes
<b>Score</b>	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.93
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

WEEDS	%	HT
<i>Aira praecox</i>	4.00	Yes
Total Cover	4.00 %	
Cover of high threat species	4.00 %	
<b>Score</b>	<b>11.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 5	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	2		7	5	2	1	7	7	2	1	7	1			2			3	-	-		
Obs. no. species																					-	-	1	
Benchmark % cover		5	10		30	10	5	1	10	5	15	5	15	1			15			1	10			
Obs. % cover																					0	0		3
Present & Modified					P&M																			
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Abutilon fraseri</i>	No				3																			3

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.25	<b>HABITAT SCORE</b>  <b>0.26</b>
ZONE ID	13	SITE CONDITION SCORE	26.25	
DATE	2023-08-10	LANDSCAPE SCORE	0.00	
EVC	GipP0053: Swamp Scrub			
BIOREGION	Gippsland Plain			
ASSESSOR	Danielle Woodhams			
DBH	cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	0.00	0.00
Score		<b>0.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	4.00	0
Score		<b>6.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	0
1km	0.00
5km	20.00
Score	<b>0.00</b>

WEEDS	%	HT
<i>Paspalum distichum</i>	1.00	No
<i>Dactylis glomerata</i>	40.00	No
Total Cover	41.00 %	
Cover of high threat species	0.00 %	
Score	<b>7.00</b>	

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	50.00	0.00
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	7.00	0
Score		<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	5.4
Significantly disturbed	Yes
Score	<b>0.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	10.00
Origin of litter	N/A	Native
Score		<b>3.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	0	0.00
Large logs within 1ha (m)	50	0.00
Score		<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.08
Significantly disturbed	Yes
Score	<b>1.00</b>

UNDERSTOREY ASSESSMENT SCORE: 5	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		0			2	2		2	3	2	2	3	2	2			1			1	-	-		
Obs. no. species																					-	-	3	
Benchmark % cover					10	1		5	15	5	10	10	5	15			5			1	20			
Obs. % cover																					0	0		55
Present & Modified					P	P							P											
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Leptospermum continentale</i>	No					2																		2
<i>Melaleuca ericifolia</i>	Yes				50	2																		52
<i>Poa spp.</i>	No												1											1

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.44</b>
ZONE ID	11	SITE CONDITION SCORE	35.00	
DATE	2023-08-10	LANDSCAPE SCORE	9.00	
EVC	GipP0083: Swampy Riparian Woodland			
BIOREGION	Gippsland Plain			
ASSESSOR	Griffin Taylor-Dalton			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	15.00	1.00
Score		<b>3.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	20.00	25.00
Score		<b>5.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	20.00	10.00
Origin of litter	N/A	Native
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	10.00	0
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	13.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	25.00
Large logs within 1ha (m)	50	20.00
Score		<b>3.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	No
100m	40
1km	20.00
5km	20.00
Score	<b>3.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	11
Significantly disturbed	Yes
Score	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	15.60
Significantly disturbed	Yes
Score	<b>6.00</b>

WEEDS	%	HT
<i>Anthoxanthum odoratum</i>	5.00	Yes
<i>Hypochaeris radicata</i>	1.00	No
<i>Cirsium vulgare</i>	0.10	No
<i>Rubus fruticosus</i> spp. agg.	5.00	Yes
<i>Cerastium glomeratum</i> s.l.	0.10	No
<i>Dactylis glomerata</i>	10.00	Yes
<i>Vicia sativa</i>	0.50	No
<i>Tradescantia fluminensis</i>	5.00	Yes
<i>Lysimachia arvensis</i>	0.20	No
<i>Trifolium repens</i> var. <i>repens</i>	0.10	No
<i>Briza maxima</i>	0.10	No
<i>Holcus lanatus</i>	2.00	No
Total Cover	29.10 %	
Cover of high threat species	25.00 %	
Score	<b>4.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	4		5	1	1	3	7	3	3	1	5	2			2			2	-	-		
Obs. no. species																							14	
Benchmark % cover		5	30		20	1	1	5	10	5	15	5	10	10			10			5	10			
Obs. % cover																					2	0		88.2
Present & Modified		P	P		P	P		P	P&M	P&M	P&M	P					P			P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Coprosma quadrifida</i>	No				0.1																			0.1
<i>Eucalyptus radiata</i> subsp. <i>radiata</i>	No																							
<i>Gahnia sieberiana</i>	No											3												3
<i>Geranium solanderi</i> s.l.	No																							3
<i>Leptospermum continentale</i>	No				5	0.5																		5.5
<i>Lomandra filiformis</i>	No													0.1										0.1
<i>Lomandra longifolia</i> subsp. <i>exilis</i>	No											0.1												0.1
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No												0.5											0.5
<i>Oxalis perennans</i>	No									0.1														0.1
<i>Polyscias sambucifolia</i>	No				5																			5
<i>Acaena novae-zelandiae</i>	No								3															3
<i>Billardiera scandens</i> s.l.	No																			0.1				0.1
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				2																			2
<i>Clematis aristata</i>	No																			0.1				0.1
<i>Eucalyptus ovata</i>	Yes	1																						1
<i>Rubus parvifolius</i>	No																			0.2				0.2
<i>Senecio glomeratus</i>	No							0.2																0.2
<i>Melaleuca ericifolia</i>	Yes		20		2																			22
<i>Cyathea australis</i>	No																	0.1						0.1
<i>Salanum aviculare</i>	No							0.1																0.1
<i>Tetrarrhena juncea</i>	No										3													3
<i>Xanthorrhoea minor</i> subsp. <i>lutea</i>	No											0.1												0.1
<i>Goodenia ovata</i>	No				4																			4
<i>Olearia lirata</i>	No				10																			10
<i>Senecio minimus</i>	No							0.1																0.1
<i>Eucalyptus kitsoniana</i>	Yes		0.5																					0.5
<i>Bauera rubioides</i>	No								0.5															0.5
<i>Eucalyptus obliqua</i>	Yes	2																						2
<i>Gahnia radula</i>	No											0.1												0.1
<i>Gonocarpus humilis</i>	No								0.1															0.1
<i>Melaleuca squarrosa</i>	No				10	0.1																		10.1
<i>Pericaria decipiens</i>	No													0.1										0.1
<i>Poa labillardierei</i> var. <i>labillardierei</i>	No										0.2													0.2
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																5							5
<i>Stylidium graminifolium</i> s.l.	No							0.1																0.1
<i>Pittosporum undulatum</i>	No		1		5																			6
<i>Phragmites australis</i>	No											0.1												0.1

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.23</b>
ZONE ID	6	SITE CONDITION SCORE	16.00	
DATE	2023-08-10	LANDSCAPE SCORE	7.00	
EVC	Strz0029: Damp Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Danielle Woodhams			
DBH	90 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	0.00
<b>Score</b>		<b>0.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	11.00	0
<b>Score</b>		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	20.00
5km	40.00
<b>Score</b>	<b>1.00</b>

WEEDS	%	HT
<i>Hedera helix</i>	2.00	Yes
<i>Dactylis glomerata</i>	35.00	No
<i>Acacia floribunda</i>	1.00	Yes
Total Cover	38.00 %	
Cover of high threat species	3.00 %	
<b>Score</b>	<b>6.00</b>	

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	40.00	0.00
<b>Score</b>		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	11.00	0
<b>Score</b>		<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	0
Significantly disturbed	No
<b>Score</b>	<b>5.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	50.00	40.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	300	20.00
Large logs within 1ha (m)	50	2.00
<b>Score</b>		<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.27
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

UNDERSTOREY ASSESSMENT SCORE: 5	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	4		6	1		2	8	1	1	1	3	2			3	1		3	-	-		
Obs. no. species																					-	-	6	
Benchmark % cover		5	20		30	1		1	10	1	1	5	10	5			10	5		5	20			
Obs. % cover																					0	0		66
Present & Modified			P		P&M	P					P	P		P										
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Pittosporum bicolor</i>	Yes				2	1																		3
<i>Cassinia aculeata subsp. aculeata</i>	Yes				1																			1
<i>Pomaderris aspera</i>	No		1		1																			2
<i>Tetrarrhena juncea</i>	No											2		15										17
<i>Acacia melanoxylon</i>	Yes		30		3																			33
<i>Lepidosperma elatius</i>	No										10													10

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.38</b>
ZONE ID	7	SITE CONDITION SCORE	37.00	
DATE	2023-08-10	LANDSCAPE SCORE	1.00	
EVC	Strz0029: Damp Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Danielle Woodhams			
DBH	90 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	1.00
Score		<b>3.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	40.00	30.00
Score		<b>5.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	50.00	40.00
Origin of litter	N/A	Native
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	11.00	0
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	11.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	300	10.00
Large logs within 1ha (m)	50	5.00
Score		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	20.00
5km	20.00
Score	<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	8.8
Significantly disturbed	Yes
Score	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.50
Significantly disturbed	Yes
Score	<b>1.00</b>

WEEDS	%	HT
<i>Raphanus raphanistrum</i>	5.00	No
<i>Pittosporum undulatum</i>	1.00	Yes
<i>Galium aparine</i>	2.00	No
<i>Rubus anglocandicans</i>	1.00	Yes
<i>Pinus radiata</i> var. <i>radiata</i>	1.00	Yes
Total Cover	10.00 %	
Cover of high threat species	3.00 %	
Score	<b>9.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	4		6	1		2	8	1	1	1	3	2			3	1		3	-	-		
Obs. no. species																					-	-	11	
Benchmark % cover		5	20		30	1		1	10	1	1	5	10	5			10	5		5	20			
Obs. % cover																					0	0		42
Present & Modified		P	P&M			P		P		P	P	P		P			P&M			P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Clematis aristata</i>	No																			2				2
<i>Coprosma quadrifida</i>	Yes				1																			1
<i>Eucalyptus cypellocarpa</i>	Yes	1																						1
<i>Goodenia ovata</i>	No					1																		1
<i>Acaena novae-zelandiae</i>	No																							
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				1																			1
<i>Geranium potentilloides</i>	No									1														1
<i>Pandorea pandorana</i> subsp. <i>pandorana</i>	No																			1				1
<i>Senecio linearifolius</i>	No							5																5
<i>Tetrarrhena juncea</i>	No											10		5										15
<i>Acacia melanoxylon</i>	Yes		2		1																			3
<i>Dianella tasmanica</i>	No											1		2										3
<i>Lepidosperma elatius</i>	No										3													3
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																5							5



# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	HABITAT SCORE
ZONE ID	8	SITE CONDITION SCORE	32.00	
DATE	2023-08-10	LANDSCAPE SCORE	3.00	0.35
EVC	Strz0023: Herb-rich Foothill Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Danielle Woodhams			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	4.00
Score		3.00

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	40.00	20.00
Score		5.00

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	40.00
Origin of litter	N/A	Native
Score		5.00

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	Yes
% of woody species with adeq. recruit.		0
Diversity of woody species	7.00	0
Score		0.00

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	14.00	0
Score		0.00

LOGS	BM	Obs
Logs within 1ha (m)	200	5.00
Large logs within 1ha (m)	50	0.00
Score		0.00

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	20.00
5km	20.00
Score	1.00

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	3.4
Significantly disturbed	Yes
Score	1.00

PATCH SIZE	Obs
Area of patch (ha)	1.90
Significantly disturbed	Yes
Score	1.00

WEEDS	%	HT
<i>Briza maxima</i>	2.00	No
<i>Rubus fruticosus</i> spp. agg.	2.00	Yes
<i>Anthoxanthum odoratum</i>	15.00	Yes
<i>Briza minor</i>	2.00	No
<i>Pinus radiata</i>	5.00	No
<i>Hypochaeris radicata</i>	1.00	No
<i>Erica lusitanica</i>	1.00	No
<i>Oxalis</i> spp. (naturalised)	2.00	No
<i>Anagallis</i> spp.	1.00	No
<i>Carthamus</i> spp.	1.00	Yes
<i>Dactylis glomerata</i>	1.00	No
<i>Medicago lupulina</i>	1.00	No
<i>Prunella vulgaris</i>	1.00	No
Total Cover	35.00 %	
Cover of high threat species	18.00 %	
Score	4.00	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	2		5			3	9	2	3	2	3	2			2			3	-	-		
Obs. no. species																					-	-	12	
Benchmark % cover		5	15		20			5	15	5	15	5	10	5			10			5	20			
Obs. % cover																					5	0		56
Present & Modified					P			P	P&M	P	P	P	P	P						P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Acacia mucronata</i> subsp. <i>longifolia</i>	No				0.2																			0.2
<i>Cassinia longifolia</i>	No				2																			2
<i>Eucalyptus cypellocarpa</i>	No																							
<i>Eucalyptus obliqua</i>	No																							
<i>Exocarpos cupressiformis</i>	No		1																					1
<i>Galium leiocarpum</i>	No								0.5															0.5
	No				3																			3
<i>Lomandra filiformis</i>	No								0.1				2											2.1
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No													2										2
<i>Micratis</i> spp.	No							0.1																0.1
<i>Polyscias sambucifolia</i>	No												1											1
<i>Acaena novae-zelandiae</i>	No								0.1															0.1
<i>Asperula conferta</i>	No								0.2															0.2
<i>Billardiera scandens</i> s.l.	No																				0.2			0.2
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				2	1																		3
<i>Clematis aristata</i>	No																				0.2			0.2
<i>Geranium</i> spp.	No								0.1															0.1
<i>Rytidosperma</i> spp.	No												2											2
<i>Senecio quadridentatus</i>	No								0.1															0.1
<i>Wahlenbergia gracilis</i>	No							0.5																0.5
<i>Austrostipa rudis</i> subsp. <i>nervosa</i>	No												8											8
<i>Glycine clandestina</i>	No																				0.1			0.1
<i>Gonocarpus tetragynus</i>	No								1															1
<i>Loganophora stipitata</i> s.l.	No																							

Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Lomandra longifolia</i> subsp. <i>longifolia</i>	No										1		2											3
<i>Opecularia varia</i>	No								0.2															0.2
<i>Oxalis exilis</i>	No									1														1
<i>Poa tenera</i>	No												1											1
<i>Tetrarrhena juncea</i>	No											2												2
<i>Viola hederacea</i> sensu <i>Entwisle (1996)</i>	No								0.1															0.1
<i>Acacia verniciflua</i> s.s.	No				10																			10
<i>Bursaria spinosa</i> subsp. <i>spinosa</i>	No				1	1																		2
<i>Coronidium scorpioides</i> s.s.	No																							
<i>Gahnia radula</i>	No											2												2
<i>Goodenia ovata</i>	No				1																			1
<i>Olearia lirata</i>	No				1	1																		2
<i>Pimelea humilis</i>	No					0.1																		0.1
<i>Poa hothamensis</i> var. <i>parviflora</i>	No																							
<i>Poa morrisii</i>	No												1											1
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																0.1							0.1
<i>Senecio hispidulus</i> s.l.	No								1															1
<i>Senecio minimus</i>	No								1															1
<i>Veronica plebeia</i>	No								0.5															0.5
<i>Arthropodium strictum</i> s.l.	No								0.5															0.5
<i>Bossiaea prostrata</i>	No				0.1																			0.1

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.36</b>
ZONE ID	9	SITE CONDITION SCORE	34.00	
DATE	2023-08-10	LANDSCAPE SCORE	2.00	
EVC	GipP0937: Swampy Woodland			
BIOREGION	Gippsland Plain			
ASSESSOR	Danielle Woodhams			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	30-70%
Number/ha	15.00	9.00
Score		<b>5.00</b>

CANOPY TREES	BM	Obs
Health	N/A	30-70%
Cover %	15.00	20.00
Score		<b>4.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	20.00	60.00
Origin of litter	N/A	Native
Score		<b>3.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	3.00	0
Score		<b>6.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	8.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	150	3.00
Large logs within 1ha (m)	50	1.00
Score		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	20.00
5km	20.00
Score	<b>1.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	7.3
Significantly disturbed	Yes
Score	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.30
Significantly disturbed	Yes
Score	<b>1.00</b>

WEEDS	%	HT
<i>Trifolium spp.</i>	1.00	No
<i>Dactylis glomerata</i>	30.00	No
<i>Asparagus asparagoides</i>	2.00	Yes
<i>Solanum nigrum s.l.</i>	1.00	Yes
Total Cover	34.00 %	
Cover of high threat species	3.00 %	
Score	<b>6.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 10	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov	
Benchmark no. species		1	1		2				5	3	4	2	4									-	-		
Obs. no. species																						-	-	9	
Benchmark % cover		5	5		20				10	10	30	10	10									20			
Obs. % cover																						1	0		43
Present & Modified		P	P		P				P&M			P&M	P&M												
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov	
<i>Gahnia sieberiana</i>	No										1													1	
<i>Leptospermum continentale</i>	Yes				1	1																		2	
<i>Acaena novae-zelandiae</i>	No								1															1	
<i>Eucalyptus ovata</i>	No		1																					1	
<i>Geranium spp.</i>	No								1															1	
<i>Melaleuca ericifolia</i>	Yes				10	5																		15	
<i>Gonocarpus tetragynus</i>	No								1															1	
<i>Xanthorrhoea minor subsp. lutea</i>	No										1													1	
<i>Banksia marginata</i>	No				1																			1	
<i>Dianella revoluta s.l.</i>	No												1											1	
<i>Eucalyptus cephalocarpa s.l.</i>	Yes	2																						2	
<i>Eucalyptus kitsoniana</i>	Yes		1																					1	
<i>Eucalyptus viminalis</i>	No																								
<i>Olearia lirata</i>	No				1																			1	
<i>Gahnia radula</i>	No											2												2	
<i>Ozothamnus ferrugineus</i>	No				1																			1	
<i>Phragmites australis</i>	No										1													1	
<i>Pteridium esculentum subsp. esculentum</i>	No																10							10	

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.19</b>
ZONE ID	10	SITE CONDITION SCORE	17.00	
DATE	2023-08-10	LANDSCAPE SCORE	2.00	
EVC	GipP0016: Lowland Forest			
BIOREGION	Gippsland Plain			
ASSESSOR	Danielle Woodhams			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	0.00
<b>Score</b>		<b>0.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	14.00	0
<b>Score</b>		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	40.00
5km	20.00
<b>Score</b>	<b>1.00</b>

WEEDS	%	HT
<i>Ehrharta erecta</i> var. <i>erecta</i>	30.00	Yes
<i>Dactylis glomerata</i>	20.00	Yes
Total Cover	50.00 %	
Cover of high threat species	50.00 %	
<b>Score</b>	<b>4.00</b>	

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	30.00	0.00
<b>Score</b>		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	15.00	0
<b>Score</b>		<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	8
Significantly disturbed	Yes
<b>Score</b>	<b>0.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	5.00
Origin of litter	N/A	Native
<b>Score</b>		<b>3.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	0.00
Large logs within 1ha (m)	50	0.00
<b>Score</b>		<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.50
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

UNDERSTOREY ASSESSMENT SCORE: 10	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	2		7	5	2	1	7	7	2	1	7	1			2			3	-	-		
Obs. no. species																					-	-	9	
Benchmark % cover		5	10		30	10	5	1	10	5	15	5	15	1			15			1	10			
Obs. % cover																					2	0		40
Present & Modified		P	P		P&M	P&M			P&M				P	P			P			P&M				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Leptospermum continentale</i>	No				1																			1
<i>Acaena novae-zelandiae</i>	No								1															1
<i>Gonocarpus tetragynus</i>	No								2						2									2
<i>Tetrarrhena juncea</i>	No																							2
<i>Xanthorrhoea minor</i> subsp. <i>lutea</i>	No																							
<i>Acacia melanoxylon</i>	No		10																					10
<i>Cassya melantha</i>	No																			1				1
<i>Goodenia ovata</i>	No																							
<i>Olearia lirata</i>	Yes				3	1																		4
<i>Eucalyptus obliqua</i>	Yes	1																						1
<i>Gahnia radula</i>	No				1							2												3
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																15							15

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.32</b>
ZONE ID	14	SITE CONDITION SCORE	31.00	
DATE	2023-08-10	LANDSCAPE SCORE	1.00	
EVC	GipP0793: Damp Heathy Woodland			
BIOREGION	Gippsland Plain			
ASSESSOR	Danielle Woodhams			
DBH	60 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	10.00	0.00
<b>Score</b>		<b>0.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	15.00	0.00
<b>Score</b>		<b>0.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	20.00	10.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Episodic	No
% of woody species with adeq. recruit.		0
Diversity of woody species	9.00	0
<b>Score</b>		<b>5.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	6.00	0
<b>Score</b>		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	100	0.00
Large logs within 1ha (m)	50	0.00
<b>Score</b>		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	20.00
5km	20.00
<b>Score</b>	<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	5.3
Significantly disturbed	Yes
<b>Score</b>	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.12
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

WEEDS	%	HT
<i>Hypochaeris radicata</i>	5.00	Yes
<i>Paspalum distichum</i>	1.00	No
<i>Rubus fruticosus</i> spp. agg.	1.00	Yes
<i>Dactylis glomerata</i>	20.00	No
Total Cover	27.00 %	
Cover of high threat species	6.00 %	
<b>Score</b>	<b>6.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1			5	4	2		3	3	2		3	1			1				-	-		
Obs. no. species																					-	-	6	
Benchmark % cover		5			30	5	1		5	20	5		10	5			5				20	10		
Obs. % cover																					1	0		42
Present & Modified					P&M	P			P				P	P			P							
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Leptospermum continentale</i>	No					2																		2
<i>Acaena novae-zelandiae</i>	No								1															1
<i>Eucalyptus ovata</i>	No																							
<i>Poa</i> spp.	No												4											4
<i>Melaleuca ericifolia</i>	Yes				25	3																		28
<i>Pteridium esculentum subsp. esculentum</i>	No																3							3
<i>Empodisma minus</i>	No													1										1
<i>Lepidosperma filiforme</i>	No												1											1
<i>Hydrocotyle</i> spp.	No								2															2

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.41</b>
ZONE ID	15	SITE CONDITION SCORE	41.00	
DATE	2023-08-10	LANDSCAPE SCORE	0.00	
EVC	GipP0793: Damp Heathy Woodland			
BIOREGION	Gippsland Plain			
ASSESSOR	James Garden			
DBH	60 cm			

LARGE TREES	BM	Obs
Health	N/A	30-70%
Number/ha	10.00	9.00
Score		<b>7.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	15.00	0.00
Score		<b>0.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	20.00	30.00
Origin of litter	N/A	Native
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Episodic	No
% of woody species with adeq. recruit.		0
Diversity of woody species	9.00	0
Score		<b>6.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	6.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	100	15.00
Large logs within 1ha (m)	50	2.00
Score		<b>2.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	0.00
5km	0.00
Score	<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	5.5
Significantly disturbed	Yes
Score	<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.36
Significantly disturbed	Yes
Score	<b>1.00</b>

WEEDS	%	HT
<i>Coprosma repens</i>	5.00	Yes
<i>Ehrharta erecta var. erecta</i>	30.00	No
<i>Watsonia spp.</i>	1.00	Yes
<i>Dactylis glomerata</i>	10.00	No
<i>Galium aparine</i>	3.00	No
<i>Rubus fruticosus spp. agg.</i>	1.00	Yes
Total Cover	50.00 %	
Cover of high threat species	7.00 %	
Score	<b>6.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1			5	4	2		3	3	2		3	1			1				-	-		
Obs. no. species																					-	-	11	
Benchmark % cover		5			30	5	1		5	20	5		10	5			5				20	10		
Obs. % cover																					0	0		44
Present & Modified		P			P	P			P	P&M	P		P&M	P			P							
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Gahnia sieberiana</i>	No										1													1
<i>Polyscias sambucifolia</i>	Yes				1	1																		2
<i>Leptospermum continentale</i>	Yes				1	1																		2
<i>Exocarpos cupressiformis</i>	No					1																		1
<i>Eucalyptus ovata</i>	Yes	1																						1
<i>Acaena novae-zelandiae</i>	No									5														5
<i>Geranium spp.</i>	No								1	1														2
<i>Lepidosperma laterale</i>	No										1		1											2
<i>Epacris impressa</i>	No				1																			1
<i>Acacia melanoxylon</i>	Yes		2		2																			4
<i>Eucalyptus cephalocarpa s.l.</i>	Yes	1																						1
<i>Pteridium esculentum subsp. esculentum</i>	No																5							5
<i>Melaleuca ericifolia</i>	Yes				10	2																		12
<i>Empodisma minus</i>	No													1										1
<i>Acacia spp.</i>	No				2																			2
<i>Senecio spp.</i>	No								1															1
<i>Clematis microphylla s.l.</i>	No																				1			1

# VQA Assessment Data

<b>PROJECT NAME</b>	Marinus	<b>MULTIPLIER</b>	1.00	<b>HABITAT SCORE</b>
<b>ZONE ID</b>	16	<b>SITE CONDITION SCORE</b>	41.00	
<b>DATE</b>	2023-08-10	<b>LANDSCAPE SCORE</b>	7.00	
<b>EVC</b>	Strz0016: Lowland Forest			
<b>BIOREGION</b>	Strzelecki Ranges			
<b>ASSESSOR</b>	Danielle Woodhams			
<b>DBH</b>	70 cm			

<b>LARGE TREES</b>	<b>BM</b>	<b>Obs</b>	<b>RECRUITMENT</b>	<b>BM</b>	<b>Obs</b>	<b>NEIGHBOURHOOD</b>	<b>%</b>	<b>WEEDS</b>	<b>%</b>	<b>HT</b>
Health	N/A	>70%	Evidence of a cohort		Yes	Significantly disturbed	Yes	<i>Dactylis glomerata</i>	5.00	No
Number/ha	20.00	5.00	Evidence of episodic event	Continuous	No	100m	40	<i>Coprosma repens</i>	1.00	No
<b>Score</b>		<b>4.00</b>	% of woody species with adeq. recruit.		0	1km	20.00	<i>Rubus fruticosus spp. agg.</i>	1.00	Yes
<b>CANOPY TREES</b>	<b>BM</b>	<b>Obs</b>	Diversity of woody species	14.00	0	5km	20.00	<i>Cyperus eragrostis</i>	1.00	No
Health	N/A	30-70%	<b>Score</b>		<b>6.00</b>	<b>Score</b>	<b>1.00</b>	<i>Pittosporum undulatum</i>	4.00	No
Cover %	30.00	40.00	<b>RECRUITMENT (NON-WOODY)</b>	<b>BM</b>	<b>Obs</b>	<b>DISTANCE TO CORE (50ha area)</b>	<b>Obs</b>	Total Cover	12.00 %	
<b>Score</b>		<b>4.00</b>	Cover of recruitment area (%)		0.00	Distance to core (km)	0	Cover of high threat species	1.00 %	
<b>ORGANIC LITTER</b>	<b>BM</b>	<b>Obs</b>	Herb Diversity	9.00	0	Significantly disturbed	Yes	<b>Score</b>	<b>9.00</b>	
Cover of litter (%)	40.00	80.00	<b>Score</b>		<b>0.00</b>	<b>Score</b>	<b>4.00</b>			
Origin of litter	N/A	Native	<b>LOGS</b>	<b>BM</b>	<b>Obs</b>	<b>PATCH SIZE</b>	<b>Obs</b>			
<b>Score</b>		<b>3.00</b>	Logs within 1ha (m)	200	0.00	Area of patch (ha)	2.10			
			Large logs within 1ha (m)	50	0.00	Significantly disturbed	Yes			
			<b>Score</b>		<b>0.00</b>	<b>Score</b>	<b>2.00</b>			

<b>UNDERSTOREY ASSESSMENT SCORE: 15</b>		Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species			1	2	8	4	1		6	3	3	2	3	2				2			3	-	-		
Obs. no. species																								12	
Benchmark % cover			5	10	35	10	1		10	5	10	10	5	5				15			5	10			
Obs. % cover																						5	0		86
Present & Modified				P&M		P&M	P		P		P&M	P	P	P			P				P&M				
<b>Reproductively mature specimens</b>		Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Gahnia sieberiana</i>	No											1		1											2
<i>Eucalyptus radiata subsp. radiata</i>	No																								
<i>Coprosma quadrifida</i>	Yes				2	1																			3
<i>Acacia mucronata subsp. longifolia</i>	No				1																				1
<i>Acaena novae-zealandiae</i>	No								3																3
<i>Rytidosperma spp.</i>	No																								
<i>Geranium spp.</i>	No								1																1
<i>Poaaceae spp.</i>	No													1											1
<i>Billardiera scandens s.l.</i>	No																				1				1
<i>Drosera peltata s.l.</i>	No								1																1
<i>Epacris impressa</i>	No					1																			1
<i>Tetrarrhena juncea</i>	No											15													15
<i>Gonocarpus tetragynus</i>	No								4																4
<i>Poa tenera</i>	No													5											5
<i>Acacia melanoxylon</i>	Yes		1			1	1																		3
<i>Goodenia ovata</i>	Yes				3	1																			4
<i>Pteridium esculentum subsp. esculentum</i>	No																	15							15
<i>Melaleuca ericifolia</i>	Yes				3	1																			4
<i>Empodisma minus</i>	No														1										1
<i>Senecio spp.</i>	No								1																1
<i>Pultenaea spp.</i>	No																								
<i>Lobelia spp.</i>	No								1																1
<i>Eucalyptus obliqua x regnans</i>	Yes		1																						1
<i>Lepidosperma spp.</i>	No													1											1
<i>Allocasuarina paludosa</i>	No					1																			1
<i>Melaleuca squarrosa</i>	Yes				3	1																			4
<i>Lomandra filiformis</i>	No											2		3											5
<i>Juncus pallidus</i>	No														1										1
<i>Galium spp.</i>	No								1																1
<i>Lomandra longifolia</i>	No														1										1
<i>Dianella sp. aff. revoluta (Condah)</i>	No														1										1
<i>Kunzea ericoides s.l.</i>	Yes					1	1																		2
<i>Bauera rubioides</i>	No						1																		1

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.25	<b>HABITAT SCORE</b>  <b>0.18</b>
ZONE ID	17	SITE CONDITION SCORE	16.25	
DATE	2023-08-10	LANDSCAPE SCORE	2.00	
EVC	GipP0053: Swamp Scrub			
BIOREGION	Gippsland Plain			
ASSESSOR	James Garden			
DBH	cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	0.00	0.00
Score		<b>0.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	4.00	0
Score		<b>5.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	20
1km	20.00
5km	20.00
Score	<b>0.00</b>

WEEDS	%	HT
<i>Cenchrus clandestinus</i>	75.00	Yes
Total Cover	75.00 %	
Cover of high threat species	75.00 %	
Score	<b>0.00</b>	

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	50.00	0.00
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	7.00	0
Score		<b>0.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	3.7
Significantly disturbed	Yes
Score	<b>1.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	5.00
Origin of litter	N/A	Native
Score		<b>3.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	0	0.00
Large logs within 1ha (m)	50	0.00
Score		<b>0.00</b>

PATCH SIZE	Obs
Area of patch (ha)	0.14
Significantly disturbed	Yes
Score	<b>1.00</b>

UNDERSTOREY ASSESSMENT SCORE: 5	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		0			2	2		2	3	2	2	3	2	2			1			1	-	-		
Obs. no. species																					-	-	3	
Benchmark % cover					10	1		5	15	5	10	10	5	15			5			1	20			
Obs. % cover																					0	0		71
Present & Modified					P	P																		
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Melaleuca ericifolia</i>	Yes		1		60	10																		71



# VQA Assessment Data

<b>PROJECT NAME</b>	Marinus	<b>MULTIPLIER</b>	1.00	<b>HABITAT SCORE</b>  <b>0.28</b>
<b>ZONE ID</b>	18	<b>SITE CONDITION SCORE</b>	26.00	
<b>DATE</b>	2023-08-10	<b>LANDSCAPE SCORE</b>	2.00	
<b>EVC</b>	Strz0018: Riparian Forest			
<b>BIOREGION</b>	Strzelecki Ranges			
<b>ASSESSOR</b>	Griffin Taylor-Dalton			
<b>DBH</b>	80 cm			

<b>LARGE TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	>70%
Number/ha	20.00	18.00
<b>Score</b>		<b>8.00</b>

<b>CANOPY TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Cover %	40.00	45.00
<b>Score</b>		<b>4.00</b>

<b>ORGANIC LITTER</b>	<b>BM</b>	<b>Obs</b>
Cover of litter (%)	50.00	30.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

<b>RECRUITMENT</b>	<b>BM</b>	<b>Obs</b>
Evidence of a cohort		No
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	13.00	0
<b>Score</b>		<b>0.00</b>

<b>RECRUITMENT (NON-WOODY)</b>	<b>BM</b>	<b>Obs</b>
Cover of recruitment area (%)		0.00
Herb Diversity	10.00	0
<b>Score</b>		<b>0.00</b>

<b>LOGS</b>	<b>BM</b>	<b>Obs</b>
Logs within 1ha (m)	300	5.00
Large logs within 1ha (m)	50	10.00
<b>Score</b>		<b>0.00</b>

<b>NEIGHBOURHOOD</b>	<b>%</b>
Significantly disturbed	Yes
100m	40
1km	0.00
5km	20.00
<b>Score</b>	<b>0.00</b>

<b>DISTANCE TO CORE (50ha area)</b>	<b>Obs</b>
Distance to core (km)	4.5
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

<b>PATCH SIZE</b>	<b>Obs</b>
Area of patch (ha)	0.40
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

<b>WEEDS</b>	<b>%</b>	<b>HT</b>
<i>Anthoxanthum odoratum</i>	25.00	Yes
<i>Briza maxima</i>	10.00	Yes
<i>Dactylis glomerata</i>	10.00	Yes
<i>Phalaris aquatica</i>	1.00	No
<i>Rubus fruticosus spp. agg.</i>	0.10	No
<i>Hypochaeris radicata</i>	0.10	No
<i>Oxalis spp. (naturalised)</i>	0.10	No
Total Cover	46.30 %	
Cover of high threat species	45.00 %	
<b>Score</b>	<b>4.00</b>	

<b>UNDERSTOREY ASSESSMENT SCORE: 5</b>	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	4		8	1	1	2	6	2	3	2	3	1			5	2		3	-	-		
Obs. no. species																							10	
Benchmark % cover		5	20		20	1	1	1	10	1	10	5	5	5			20	10		5	20			
Obs. % cover																						1	1	10.4
Present & Modified		P	P&M					P		P		P								P&M				
<b>Reproductively mature specimens</b>	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Gahnia sieberiana</i>	No											0.1												0.1
<i>Leptospermum continentale</i>	No											0.1												0.1
<i>Cassinia aculeata subsp. aculeata</i>	No				0.2																			0.2
<i>Clematis aristata</i>	No																				0.1			0.1
<i>Senecio glomeratus</i>	No							0.1																0.1
<i>Austrastipa rudis subsp. nervosa</i>	No										0.1													0.1
<i>Opercularia varia</i>	No								0.1															0.1
<i>Acacia melanoxylo</i>	No		2																					2
<i>Olearia lirata</i>	No				1																			1
<i>Eucalyptus obliqua</i>	No	1																						1
<i>Lomandra longifolia</i>	No																							
<i>Pittosporum undulatum</i>	No																							
<i>Acacia dealbata</i>	No		1																					1
<i>Eucalyptus strzeleckii</i>	No		1																					1
<i>Pteridium esculentum subsp. esculentum</i>	No																1							1
<i>Eucalyptus tereticornis subsp. mediana</i>	No	1																						1
<i>Dodonaea viscosa</i>	No				0.5																			0.5
<i>Salenogyne gunnii</i>	No									0.1														0.1
<i>Eucalyptus angophoroides</i>	No	1																						1

# VQA Assessment Data

<b>PROJECT NAME</b>	Marinus	<b>MULTIPLIER</b>	1.00	<b>HABITAT SCORE</b>  <b>0.50</b>
<b>ZONE ID</b>	19	<b>SITE CONDITION SCORE</b>	39.00	
<b>DATE</b>	2023-08-10	<b>LANDSCAPE SCORE</b>	11.00	
<b>EVC</b>	Strz0016: Lowland Forest			
<b>BIOREGION</b>	Strzelecki Ranges			
<b>ASSESSOR</b>	Danielle Woodhams			
<b>DBH</b>	70 cm			

<b>LARGE TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Number/ha	20.00	3.00
<b>Score</b>		<b>2.00</b>

<b>CANOPY TREES</b>	<b>BM</b>	<b>Obs</b>
Health	N/A	30-70%
Cover %	30.00	50.00
<b>Score</b>		<b>2.00</b>

<b>ORGANIC LITTER</b>	<b>BM</b>	<b>Obs</b>
Cover of litter (%)	40.00	50.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

<b>RECRUITMENT</b>	<b>BM</b>	<b>Obs</b>
Evidence of a cohort		Yes
Evidence of episodic event	Continuous	No
% of woody species with adeq. recruit.		0
Diversity of woody species	14.00	0
<b>Score</b>		<b>3.00</b>

<b>RECRUITMENT (NON-WOODY)</b>	<b>BM</b>	<b>Obs</b>
Cover of recruitment area (%)		0.00
Herb Diversity	9.00	0
<b>Score</b>		<b>0.00</b>

<b>LOGS</b>	<b>BM</b>	<b>Obs</b>
Logs within 1 ha (m)	200	200.00
Large logs within 1 ha (m)	50	50.00
<b>Score</b>		<b>5.00</b>

<b>NEIGHBOURHOOD</b>	<b>%</b>
Significantly disturbed	Yes
100m	60
1km	60.00
5km	40.00
<b>Score</b>	<b>3.00</b>

<b>DISTANCE TO CORE (50ha area)</b>	<b>Obs</b>
Distance to core (km)	0
Significantly disturbed	Yes
<b>Score</b>	<b>4.00</b>

<b>PATCH SIZE</b>	<b>Obs</b>
Area of patch (ha)	6.10
Significantly disturbed	Yes
<b>Score</b>	<b>4.00</b>

<b>WEEDS</b>	<b>%</b>	<b>HT</b>
<i>Rubus fruticosus spp. agg.</i>	10.00	Yes
<i>Dactylis glomerata</i>	15.00	Yes
Total Cover	25.00 %	
Cover of high threat species	25.00 %	
<b>Score</b>	<b>7.00</b>	

<b>UNDERSTOREY ASSESSMENT SCORE: 15</b>		Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species			1	2		8	4	1		6	3	3	2	3	2			2			3	-	-		
Obs. no. species																								13	
Benchmark % cover			5	10		35	10	1		10	5	10	10	5	5			15			5	10			
Obs. % cover																						0	0		84
Present & Modified			P	P		P&M	P&M				P		P	P&M	P			P			P				
<b>Reproductively mature specimens</b>	<b>Adeq. recruit</b>	<b>IT</b>	<b>T</b>	<b>MT</b>	<b>MS</b>	<b>SS</b>	<b>PS</b>	<b>LH</b>	<b>MH</b>	<b>SH</b>	<b>LTG</b>	<b>LNG</b>	<b>MTG</b>	<b>MNG</b>	<b>TTG</b>	<b>HG</b>	<b>GF</b>	<b>TF</b>	<b>EP</b>	<b>SC</b>	<b>BL</b>	<b>S/C</b>	<b>No</b>	<b>Cov</b>	
<i>Acacia mucronata subsp. longifolia</i>	No		1																					1	
<i>Cassinia longifolia</i>	No				1																				1
<i>Clematis glycinoidea</i>	No																				2				2
<i>Eucalyptus cypellocarpa</i>	Yes	1																							1
<i>Eucalyptus globulus subsp. pseudoglobulus</i>	No																								
<i>Eucalyptus radiata subsp. radiata</i>	No	1																							1
<i>Microlaena stipoides var. stipoides</i>	No															10									10
<i>Pomaderris aspera</i>	No		2			1																			3
<i>Billardiera scandens s.l.</i>	No																				1				1
<i>Dichandra repens</i>	No									1															1
<i>Geranium potentilloidea</i>	No				1																				1
<i>Glycine clandestina</i>	No																		1						1
<i>Pandorea pandorana subsp. pandorana</i>	No											1									1				2
<i>Poa tenera</i>	No																								
<i>Viola hederacea sensu Entwisle (1996)</i>	No										3														3
<i>Acacia melanoxylon</i>	No		1																						1
<i>Lepidosperma elatus</i>	No											10	1												11
<i>Veronica plebeia</i>	No									1															1
<i>Eucalyptus obliqua</i>	No	3																							3
<i>Gonocarpus humilis</i>	No										2														2
<i>Senecio spp.</i>	No							1			1														2
<i>Acacia dealbata</i>	No		2																						2
<i>Acacia longifolia subsp. longifolia</i>	No				1																				1
<i>Acaena novae-zelandiae</i>	No										5														5
<i>Bursaria spinosa</i>	No				1																				1
<i>Goodenia ovata</i>	No				2	1																			3
<i>Lomandra filiformis subsp. filiformis</i>	No													1											1
<i>Poa labillardierei</i>	No													1											1
<i>Polyscias sambucifolia subsp. 1</i>	No				2																				2
<i>Pteridium esculentum subsp. esculentum</i>	No																	10							10
<i>Tetrarrhena juncea</i>	No																				10				10

# VQA Assessment Data

PROJECT NAME	Marinus	MULTIPLIER	1.00	<b>HABITAT SCORE</b>  <b>0.35</b>
ZONE ID	20	SITE CONDITION SCORE	32.00	
DATE	2023-08-10	LANDSCAPE SCORE	3.00	
EVC	Strz0023: Herb-rich Foothill Forest			
BIOREGION	Strzelecki Ranges			
ASSESSOR	Danielle Woodhams			
DBH	70 cm			

LARGE TREES	BM	Obs
Health	N/A	>70%
Number/ha	20.00	4.00
Score		<b>3.00</b>

CANOPY TREES	BM	Obs
Health	N/A	>70%
Cover %	40.00	20.00
Score		<b>5.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	40.00
Origin of litter	N/A	Native
Score		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		No
Evidence of episodic event	Continuous	Yes
% of woody species with adeq. recruit.		0
Diversity of woody species	7.00	0
Score		<b>0.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	14.00	0
Score		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	5.00
Large logs within 1ha (m)	50	0.00
Score		<b>0.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	40
1km	20.00
5km	20.00
Score	<b>1.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	3.4
Significantly disturbed	Yes
Score	<b>1.00</b>

PATCH SIZE	Obs
Area of patch (ha)	1.90
Significantly disturbed	Yes
Score	<b>1.00</b>

WEEDS	%	HT
<i>Briza maxima</i>	2.00	No
<i>Rubus fruticosus</i> spp. agg.	2.00	Yes
<i>Anthoxanthum odoratum</i>	15.00	Yes
<i>Briza minor</i>	2.00	No
<i>Pinus radiata</i>	5.00	No
<i>Hypochaeris radicata</i>	1.00	No
<i>Erica lusitanica</i>	1.00	No
<i>Oxalis</i> spp. (naturalised)	2.00	No
<i>Anagallis</i> spp.	1.00	No
<i>Carthamus</i> spp.	1.00	Yes
<i>Dactylis glomerata</i>	1.00	No
<i>Medicago lupulina</i>	1.00	No
<i>Prunella vulgaris</i>	1.00	No
Total Cover	35.00 %	
Cover of high threat species	18.00 %	
Score	<b>4.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	2		5			3	9	2	3	2	3	2			2			3	-	-		
Obs. no. species																					-	-	13	
Benchmark % cover		5	15		20			5	15	5	15	5	10	5			10			5	20			
Obs. % cover																					5	0		52.7
Present & Modified					P			P	P&M	P	P	P	P	P						P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Acacia mucronata</i> subsp. <i>longifolia</i>	No				0.2																			0.2
<i>Cassinia longifolia</i>	No				2																			2
<i>Eucalyptus cypellocarpa</i>	No																							
<i>Exocarpos cupressiformis</i>	No		1																					1
<i>Galium leiocarpum</i>	No								0.5															0.5
<i>Microlaena stipoides</i> var. <i>stipoides</i>	No													2										2
<i>Microtis</i> spp.	No							0.1																0.1
<i>Polyscias sambucifolia</i>	No												1											1
<i>Asperula conferta</i>	No								0.2															0.2
<i>Billardiera scandens</i> s.l.	No																			0.2				0.2
<i>Cassinia aculeata</i> subsp. <i>aculeata</i>	No				2	1																		3
<i>Clematis aristata</i>	No																				0.2			0.2
<i>Geranium</i> spp.	No								0.1															0.1
<i>Rytidosperma</i> spp.	No												2											2
<i>Senecio quadridentatus</i>	No							0.1																0.1
<i>Wahlenbergia gracilis</i>	No						0.5																	0.5
<i>Austrostipa rudis</i> subsp. <i>nervosa</i>	No											8												8
<i>Glycine clandestina</i>	No																			0.1				0.1
<i>Gonocarpus tetragynus</i>	No								0.1															0.1
<i>Lagenophora stipitata</i> s.l.	No																							
<i>Lomandra longifolia</i> subsp. <i>longifolia</i>	No										1		2											3
<i>Opercularia varia</i>	No								0.2															0.2
<i>Oxalis exilis</i>	No									1														1
<i>Poa tenera</i>	No													1										1

Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Viola hederacea sensu Entwistle (1996)</i>	No								0.1															0.1
<i>Acacia verniciflua s.s.</i>	No				10																			10
<i>Bursaria spinosa subsp. spinosa</i>	No				1	1																		2
<i>Coronidium scorpioides s.s.</i>	No																							
<i>Olearia lirata</i>	No				1	1																		2
<i>Pimelea humilis</i>	No					0.1																		0.1
<i>Poa morrisii</i>	No											1												1
<i>Senecio hispidulus s.l.</i>	No							1																1
<i>Senecio minimus</i>	No							1																1
<i>Veronica plebeia</i>	No								0.5															0.5
<i>Arthropodium strictum s.l.</i>	No									0.1														0.1
<i>Bossiaea prostrata</i>	No				0.1																			0.1
<i>Eucalyptus obliqua</i>	No																							
<i>Gahnia radula</i>	No											2												2
<i>Kunzea ericoides s.l.</i>	No				3																			3
<i>Lomandra filiformis</i>	No								0.1															0.1
<i>Acaena novae-zelandiae</i>	No								0.1															0.1
<i>Goodenia ovata</i>	No				1																			1
<i>Poa labillardierei</i>	No																							
<i>Pteridium esculentum subsp. esculentum</i>	No																	0.1						0.1
<i>Tetrarrhena juncea</i>	No											2												2

## VQA Assessment Data

<b>PROJECT NAME</b>	Marinus	<b>MULTIPLIER</b>	1.00	<b>HABITAT SCORE</b>  <b>0.52</b>
<b>ZONE ID</b>	21	<b>SITE CONDITION SCORE</b>	47.00	
<b>DATE</b>	2023-08-10	<b>LANDSCAPE SCORE</b>	5.00	
<b>EVC</b>	Strz0045: Shrubby Foothill Forest			
<b>BIOREGION</b>	Strzelecki Ranges			
<b>ASSESSOR</b>	James Garden			
<b>DBH</b>	70 cm			

LARGE TREES	BM	Obs
Health	N/A	30-70%
Number/ha	20.00	10.00
<b>Score</b>		<b>5.00</b>

CANOPY TREES	BM	Obs
Health	N/A	30-70%
Cover %	40.00	15.00
<b>Score</b>		<b>2.00</b>

ORGANIC LITTER	BM	Obs
Cover of litter (%)	40.00	50.00
Origin of litter	N/A	Native
<b>Score</b>		<b>5.00</b>

RECRUITMENT	BM	Obs
Evidence of a cohort		Yes
Evidence of episodic event	Episodic	Yes
% of woody species with adeq. recruit.		0
Diversity of woody species	13.00	0
<b>Score</b>		<b>3.00</b>

RECRUITMENT (NON-WOODY)	BM	Obs
Cover of recruitment area (%)		0.00
Herb Diversity	4.00	0
<b>Score</b>		<b>0.00</b>

LOGS	BM	Obs
Logs within 1ha (m)	200	60.00
Large logs within 1ha (m)	50	2.00
<b>Score</b>		<b>2.00</b>

NEIGHBOURHOOD	%
Significantly disturbed	Yes
100m	100
1km	20.00
5km	20.00
<b>Score</b>	<b>2.00</b>

DISTANCE TO CORE (50ha area)	Obs
Distance to core (km)	2.1
Significantly disturbed	Yes
<b>Score</b>	<b>1.00</b>

PATCH SIZE	Obs
Area of patch (ha)	4.30
Significantly disturbed	Yes
<b>Score</b>	<b>2.00</b>

WEEDS	%	HT
<i>Anthoxanthum odoratum</i>	0.00	No
<i>Hypochaeris radicata</i>	0.00	No
<i>Cirsium vulgare</i>	0.00	Yes
<i>Briza maxima</i>	0.00	No
<i>Daucus carota</i>	0.00	No
<i>Rubus fruticosus spp. agg.</i>	0.00	Yes
Total Cover	0.00 %	
Cover of high threat species	0.00 %	
<b>Score</b>	<b>15.00</b>	

UNDERSTOREY ASSESSMENT SCORE: 15	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
Benchmark no. species		1	1		8	4	1		3	1	1	1	2				2			1	-	-		
Obs. no. species																							14	
Benchmark % cover		5	5		35	15	5		5	1	5	10	5				10			1	10	10		
Obs. % cover																					0	0		84.4
Present & Modified		P	P		P	P	P		P	P	P	P&M	P				P			P				
Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov
<i>Austrostroma stiposa</i>	No											0.1												0.1
<i>Acacia verniciflua s.l.</i>	No		1		5	2																		8
<i>Cassinia langifolia</i>	No				0.1																			0.1
<i>Chiloglottis valida</i>	No									0.1														0.1
<i>Clematis glycinoides</i>	No																				0.1			0.1
<i>Eucalyptus cypellocarpa</i>	Yes	1																						1
<i>Eucalyptus globulus subsp. pseudoglobulus</i>	No	0.1																						0.1
<i>Exocarpos cupressiformis</i>	No		0.1																					0.1
<i>Galium leiocarpum</i>	No								1	1														2
<i>Oxalis perennans</i>	No																							
<i>Polyscias sambucifolia</i>	No				0.1																			0.1
<i>Pomaderris aspera</i>	No				0.1																			0.1
<i>Pultenaea juniperina s.l.</i>	No				0.1																			0.1
<i>Thelymitra media s.l.</i>	No																							
<i>Asperula conferta</i>	No								1	1														2
<i>Billardiera mutabilis</i>	No																				0.1			0.1
<i>Cassinia aculeata subsp. aculeata</i>	No				1	1	1																	3

Reproductively mature specimens	Adeq. recruit	IT	T	MT	MS	SS	PS	LH	MH	SH	LTG	LNG	MTG	MNG	TTG	HG	GF	TF	EP	SC	BL	S/C	No	Cov	
<i>Clematis aristata</i>	No																			2				2	
<i>Comesperma volubile</i>	No																				0.1				0.1
<i>Drosera peltata</i> s.l.	No								1															1	
<i>Olearia argophylla</i>	No				0.1																			0.1	
<i>Caladenia carnea</i> sensu Willis (1970)	No																								
<i>Coprosma quadrifida</i>	No				2	1																		3	
<i>Epacris impressa</i>	No					1	1																	2	
<i>Eucalyptus baxteri</i> s.l.	Yes	0.1																						0.1	
<i>Eucalyptus radiata</i> s.l.	Yes	1																						1	
<i>Eucalyptus sieberi</i>	No	0.1																						0.1	
<i>Geranium potentilloides</i>	No									1														1	
<i>Geranium</i> sp. 2	No									1														1	
<i>Gonocarpus tetragynus</i>	No								2	1														3	
<i>Hydrocotyle hirta</i>	No									1														1	
<i>Loganophora stipitata</i> s.l.	No									1														1	
<i>Olearia lirata</i>	No					0.1																		0.1	
<i>Pandorea pandorana</i> subsp. <i>pandorana</i>	No																								
<i>Poa tenera</i>	No													3										3	
<i>Senecio hispidulus</i> s.l.	No								0.1															0.1	
<i>Urtica incisa</i>	No																								
<i>Acacia melanoxylon</i>	No				0.1																			0.1	
<i>Acacia stricta</i>	No				5	1	1																	7	
<i>Daviesia latifolia</i>	No				0.1																			0.1	
<i>Opercularia varia</i>	No																								
<i>Senecio linearifolius</i>	No								0.1															0.1	
<i>Acacia ulicifolia</i>	No				0.1																			0.1	
<i>Dichondra repens</i>	No									1														1	
<i>Gahnia radula</i>	No											2		5										7	
<i>Lomandra filiformis</i>	No												1											1	
<i>Lomandra longifolia</i>	No										1		1											2	
<i>Prostanthera lasianthos</i>	No																								
<i>Acacia verticillata</i>	No				5	2	1																	8	
<i>Acaena novae-zelandiae</i>	No									0.1														0.1	
<i>Bursaria spinosa</i>	No																								
<i>Eucalyptus obliqua</i>	Yes	1																						1	
<i>Goodenia ovata</i>	No				2	2																		4	
<i>Pteridium esculentum</i> subsp. <i>esculentum</i>	No																	10						10	
<i>Pultenaea gunnii</i> subsp. <i>gunnii</i>	No					0.1																		0.1	
<i>Stackhousia monogyna</i> s.l.	No								1	1														2	
<i>Tetrarrhena juncea</i>	No											1		2										3	
<i>Veronica calycina</i>	No									0.1														0.1	
<i>Viola hederacea</i> sensu Entwistle (1996)	No									1														1	
<i>Wahlenbergia gracilis</i>	No								0.1															0.1	

## Appendix B Native vegetation removal reports (pre and post-mitigation scenarios)

# Scenario test – native vegetation removal

This report provides offset requirements for internal testing of different proposals to remove native vegetation. **This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.** A report must be obtained from the Department of Environment, Land, Water and Planning (DELWP).

Date of issue: 06/05/2024

Time of issue: 3:04 pm

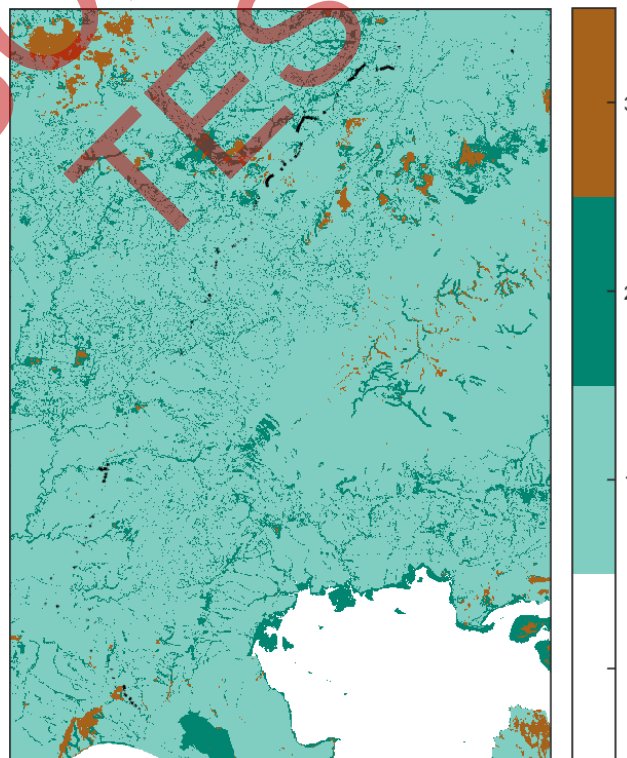
Report ID: Scenario Testing

Project ID	Veg_Loss_06052024_v2
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## Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	20.800 ha
Extent of past removal	0.000 ha
Extent of proposed removal	20.800 ha
No. Large trees proposed to be removed	184
Location category of proposed removal	Location 3 The native vegetation is in an area where the removal of less than 0.5 hectares could have a significant impact on habitat for one or more rare or threatened species. The native vegetation is also in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map).

### 1. Location map



# Scenario test – native vegetation removal

## Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

<b>General offset amount<sup>1</sup></b>	0.984 general habitat units
Vicinity	West Gippsland Catchment Management Authority (CMA) or Latrobe City, South Gippsland Shire Council
Minimum strategic biodiversity value score <sup>2</sup>	0.266
Large trees*	16 large trees
<b>Species offset amount<sup>3</sup></b>	3.833 species units of habitat for Eastern Spider-orchid, <i>Caladenia orientalis</i> 14.740 species units of habitat for Strzelecki Gum, <i>Eucalyptus strzeleckii</i>
Large trees*	168 trees
<b>* The total number of large trees that the offset must protect</b>	184 large trees to be protected in either the general, species or combination across all habitat units protected

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

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<sup>1</sup> The general offset amount required is the sum of all general habitat units in Appendix 1.

<sup>2</sup> Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

<sup>3</sup> The species offset amount(s) required is the sum of all species habitat units in Appendix 1.



# Scenario test – native vegetation removal

## Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

**This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.**

If you wish to remove the mapped native vegetation you must submit the related shapefiles to the Department of Environment, Land, Water and Planning (DELWP) for processing, by email to [ensymnvrtool.support@delwp.vic.gov.au](mailto:ensymnvrtool.support@delwp.vic.gov.au). DELWP will provide a *Native vegetation removal report* that is required to meet the permit application requirements in accordance with *Guidelines for the removal, destruction or lopping of native vegetation* (Guidelines).

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## Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

The general offset amount required is the sum of all general habitat units per zone.

### Native vegetation to be removed

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-67.5	Patch	strz0023	Endangered	11	no	0.500	0.511	0.511	0.406	0.577	0.403	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.10	Patch	strz0023	Endangered	0	no	0.500	0.046	0.046	0.590	0.470	0.034	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.11	Patch	strz0023	Endangered	0	no	0.500	0.082	0.082	0.240	0.641	0.067	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-65.1	Patch	strz0045	Endangered	1	no	0.590	0.108	0.108	0.500	0.678	0.107	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-a	Patch	strz0023	Endangered	0	no	0.800	0.250	0.250	0.100	0.666	0.334	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-82.1	Patch	strz0045	Endangered	0	no	0.430	0.098	0.098	0.120	0.801	0.076	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-b	Patch	strz0029	Endangered	0	no	0.800	0.160	0.160	0.481	0.647	0.211	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-59.2	Patch	strz0029	Endangered	6	no	0.800	0.444	0.444	0.167	0.602	0.569	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-269	Patch	strz0016	Vulnerable	0	no	0.600	0.038	0.038	0.630	0.530	0.035	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-268	Patch	strz0016	Vulnerable	0	no	0.600	0.060	0.060	0.627	0.533	0.055	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-270	Patch	strz0016	Vulnerable	1	no	0.600	0.127	0.127	0.468	0.735	0.132	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-57	Patch	strz0016	Vulnerable	5	no	0.700	0.178	0.178	0.179	0.643	0.204	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-53.2	Patch	strz0029	Endangered	0	no	0.630	0.022	0.022	0.191	0.476	0.020	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-350	Patch	strz0016	Vulnerable	0	no	0.500	0.510	0.510	0.230		0.235	General
2-400	Patch	strz0029	Endangered	0	no	0.200	0.030	0.030	0.290		0.006	General
2-278	Patch	strz0030	Depleted	0	no	0.600	0.072	0.072	0.410	0.495	0.065	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-44.1	Patch	strz0029	Endangered	0	no	0.190	0.012	0.012	0.400	0.200	0.003	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-293	Patch	strz0030	Depleted	0	no	0.400	0.039	0.039	0.544	0.340	0.021	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-206	Patch	strz0030	Depleted	0	no	0.500	0.254	0.254	0.390	0.428	0.181	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-298	Patch	strz0030	Depleted	0	no	0.200	0.133	0.133	0.100	0.185	0.031	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-299	Patch	strz0029	Endangered	0	no	0.200	0.077	0.077	0.285	0.200	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-105	Patch	strz0030	Depleted	0	no	0.400	0.121	0.121	0.300	0.147	0.055	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-106	Patch	strz0030	Depleted	0	no	0.400	0.136	0.136	0.300	0.111	0.060	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-108	Patch	strz0029	Endangered	0	no	0.200	0.093	0.093	0.330	0.100	0.021	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-205	Patch	strz0029	Endangered	0	no	0.600	0.309	0.309	0.342		0.187	General
1-305	Patch	strz0029	Endangered	0	no	0.300	0.022	0.022	0.350		0.007	General
1-305.1	Patch	strz0029	Endangered	0	no	0.300	0.029	0.029	0.350		0.009	General
2-42.1	Patch	strz0029	Endangered	0	no	0.380	0.008	0.008	0.157		0.003	General
2-102	Patch	strz0053	Endangered	0	no	0.430	0.118	0.118	0.380	0.234	0.063	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-27.2	Patch	gipp0053	Endangered	1	no	0.230	0.025	0.025	0.460	0.160	0.007	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-17.2	Patch	gipp0937	Endangered	0	no	0.360	0.007	0.007	0.600	0.410	0.004	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.410	0.004	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-8	Patch	gipp0016	Vulnerable	0	no	0.180	0.011	0.011	0.410	0.300	0.003	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.300	0.003	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-339	Patch	gipp0053	Endangered	0	no	0.600	0.052	0.052	0.460	0.378	0.043	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-339.1	Patch	gipp0053	Endangered	0	no	0.600	0.112	0.112	0.747	0.459	0.098	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-74.1	Patch	gipp0083	Endangered	0	no	0.420	0.220	0.220	0.410	0.439	0.133	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.439	0.133	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-363	Patch	gipp0793	Vulnerable	0	no	0.600	0.281	0.281	0.450	0.580	0.267	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
										0.580	0.267	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-364	Patch	gipp0793	Vulnerable	0	no	0.600	0.070	0.070	0.450	0.412	0.059	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-74.2	Patch	gipp0083	Endangered	6	no	0.460	0.572	0.572	0.553	0.610	0.423	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.580	0.415	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-399	Patch	gipp0793	Vulnerable	0	no	0.400	0.339	0.339	0.460	0.452	0.197	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.466	0.199	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-398	Patch	gipp0793	Vulnerable	0	no	0.600	0.185	0.185	0.450	0.554	0.172	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.554	0.172	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-346	Patch	gipp0793	Vulnerable	0	no	0.600	0.087	0.087	0.410	0.426	0.075	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.426	0.075	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1	Patch	gipp0016	Vulnerable	0	no	0.290	0.008	0.008	0.410	0.430	0.003	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.430	0.003	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-215	Patch	strz0793	Vulnerable	0	no	0.200	0.048	0.048	0.400	0.210	0.012	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.210	0.012	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-216	Patch	gipp0083	Endangered	0	no	0.400	0.146	0.146	0.440	0.276	0.075	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.301	0.076	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-221	Patch	gipp0793	Vulnerable	0	no	0.200	0.056	0.056	0.460		0.012	General
1-10	Patch	gipp0053	Endangered	0	no	0.270	0.005	0.005	0.310		0.001	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-9.1	Patch	gipp0793	Vulnerable	0	no	0.280	0.033	0.033	0.310		0.009	General
2-9.2	Patch	gipp0793	Vulnerable	0	no	0.340	0.020	0.020	0.310		0.007	General
2-11	Patch	gipp0793	Vulnerable	1	no	0.430	0.020	0.020	0.324		0.009	General
2-11.1	Patch	gipp0793	Vulnerable	0	no	0.430	0.034	0.034	0.310		0.014	General
2-369	Patch	strz0029	Endangered	0	no	0.200	0.035	0.035	0.320		0.007	General
2-234	Patch	strz0793	Vulnerable	0	no	0.200	0.077	0.077	0.308		0.015	General
2-12.3	Patch	gipp0053	Endangered	0	no	0.600	0.039	0.039	0.330	0.540	0.036	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-13.1	Patch	strz0016	Vulnerable	0	no	0.480	0.126	0.126	0.436	0.511	0.092	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-13.2	Patch	strz0016	Vulnerable	2	no	0.480	0.079	0.079	0.762	0.548	0.058	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-237	Patch	gipp0793	Vulnerable	0	no	0.800	0.124	0.124	0.380	0.672	0.166	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-242	Patch	gipp0793	Vulnerable	0	no	0.600	0.170	0.170	0.800	0.441	0.147	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-245	Patch	gipp0793	Vulnerable	0	no	0.200	0.405	0.405	0.534	0.524	0.123	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-246	Patch	strz0793	Vulnerable	0	no	0.400	0.149	0.149	0.460	0.369	0.081	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-250	Patch	strz0793	Vulnerable	0	no	0.400	0.058	0.058	0.460	0.202	0.028	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-100.1	Patch	gipp0053	Endangered	0	no	0.250	0.025	0.025	0.420		0.007	General
2-394	Patch	strz0023	Endangered	0	no	0.200	0.041	0.041	0.200		0.007	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-76.1	Patch	strz0018	Vulnerable	0	no	0.280	0.024	0.024	0.260	0.594	0.011	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.6	Patch	strz0023	Endangered	8	no	0.500	0.166	0.166	0.615	0.629	0.135	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.7	Patch	strz0023	Endangered	8	no	0.500	0.148	0.148	0.680	0.646	0.122	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.9	Patch	strz0023	Endangered	9	no	0.500	0.498	0.498	0.363	0.670	0.416	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-104.1	Patch	gipp0175	Endangered	0	no	0.400	0.036	0.036	0.410	0.060	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-67.8	Patch	strz0023	Endangered	7	no	0.500	0.108	0.108	0.740	0.528	0.083	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.3	Patch	strz0023	Endangered	2	no	0.490	0.107	0.107	0.334	0.516	0.080	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.2	Patch	valp0023	Endangered	3	no	0.800	0.179	0.179	0.409	0.632	0.234	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.5	Patch	strz0023	Endangered	4	no	0.490	0.108	0.108	0.520	0.750	0.092	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.4	Patch	valp0023	Endangered	13	no	0.490	0.429	0.429	0.366	0.590	0.334	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.1	Patch	strz0023	Endangered	3	no	0.400	0.103	0.103	0.140	0.530	0.063	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-72.2	Patch	strz0023	Endangered	4	no	0.400	0.364	0.364	0.124	0.484	0.216	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-62.1	Patch	strz0045	Endangered	6	no	0.570	0.195	0.195	0.186		0.099	General
1-391	Patch	strz0029	Endangered	0	no	0.700	0.243	0.243	0.480	0.562	0.265	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-266	Patch	strz0029	Endangered	5	no	0.800	0.743	0.743	0.221	0.518	0.902	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-59.3	Patch	strz0029	Endangered	9	no	0.770	0.425	0.425	0.285	0.640	0.537	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-59.4	Patch	strz0029	Endangered	8	no	0.770	0.314	0.314	0.161	0.632	0.395	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-59.1	Patch	strz0029	Endangered	0	no	0.770	0.364	0.364	0.297	0.693	0.474	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-274	Patch	strz0016	Vulnerable	0	no	0.900	0.121	0.121	0.577	0.784	0.194	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-274.1	Patch	strz0016	Vulnerable	0	no	0.900	1.922	1.922	0.443	0.689	2.922	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-50	Patch	strz0016	Vulnerable	2	no	0.450	0.087	0.087	0.480		0.043	General
1-50.1	Patch	strz0016	Vulnerable	0	no	0.450	0.063	0.063	0.480		0.032	General
2-236	Patch	gipp0793	Vulnerable	0	no	0.800	0.153	0.153	0.800	0.672	0.205	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-238	Patch	gipp0793	Vulnerable	0	no	0.600	0.037	0.037	0.380	0.550	0.034	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-241	Patch	gipp0793	Vulnerable	0	no	0.600	0.193	0.193	0.757	0.426	0.165	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-895	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.520		0.016	General
1-1048	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.180	0.710	0.024	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1099	Scattered Tree	strz0016	Vulnerable	1	no	0.200	0.070	0.070	0.550	0.610	0.023	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1092	Scattered Tree	strz0016	Vulnerable	1	no	0.200	0.070	0.070	0.500	0.655	0.023	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1101	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.020	0.550	0.610	0.006	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>



Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-1102	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.007	0.550	0.610	0.002	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1104	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.018	0.550	0.610	0.006	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1118	Scattered Tree	strz0016	Vulnerable	1	no	0.200	0.070	0.070	0.136	0.615	0.023	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1167	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.021	0.707	0.618	0.007	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1168	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.021	0.800	0.699	0.007	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1176	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.029	0.305	0.558	0.009	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1177	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.029	0.230	0.530	0.009	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1185	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.031	0.230	0.730	0.011	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1422	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.069	0.150	0.699	0.024	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1421	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.069	0.150	0.680	0.023	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1751	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.500	0.587	0.022	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1818	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.520	0.750	0.025	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1819	Scattered Tree	strz0023	Endangered	0	no	0.200	0.031	0.027	0.520	0.750	0.009	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-897	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.051	0.380		0.011	General
2-1828	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.051	0.380		0.011	General

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-1927	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.290	0.100	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-954	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.064	0.300	0.180	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1945	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.300		0.014	General
2-957	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.064	0.300	0.180	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-342	Scattered Tree	gipp1106	Vulnerable	0	no	0.200	0.031	0.031	0.630	0.330	0.008	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.011	0.008	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-21	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.054	0.567	0.366	0.015	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
2-20	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.055	0.580	0.233	0.014	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-22	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.070	0.506	0.242	0.017	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-199	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.380	0.230	0.017	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.230	0.017	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-219	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.439	0.480	0.021	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.414	0.021	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-607	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.731	0.582	0.022	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-923	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.370		0.014	General
2-924	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.100	0.166	0.016	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-382	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.450	0.494	0.021	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.494	0.021	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-369.1	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.070	0.450	0.430	0.020	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-364	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.049	0.450	0.445	0.014	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-365	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.026	0.450	0.531	0.008	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-370	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.057	0.450	0.540	0.018	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-367	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.034	0.450	0.534	0.010	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-809	Scattered Tree	gipp0083	Endangered	1	no	0.200	0.070	0.070	0.920	0.370	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-812	Scattered Tree	gipp0083	Endangered	1	no	0.200	0.070	0.070	0.920		0.020	General
2-852	Scattered Tree	gipp0029	Endangered	1	no	0.200	0.070	0.070	0.930	0.320	0.019	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.320	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-c	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.612	0.738	0.024	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.738	0.024	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-d	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.350	0.320	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-e	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.510	0.596	0.022	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-f	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.070	0.800	0.420	0.020	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
1-g	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.070	0.460	0.340	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-h	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.070	0.940	0.506	0.021	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.506	0.021	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-i	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.354	0.140	0.016	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
1-j	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.324	0.102	0.016	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-k	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.261		0.013	General
2-l	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.110	0.140	0.016	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-m	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.304	0.240	0.017	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-n	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.310	0.210	0.017	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1382	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.160	0.450	0.020	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-1384	Scattered Tree	strz0029	Endangered	0	no	0.200	0.031	0.031	0.160		0.005	General
2-1387	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.049	0.490	0.662	0.016	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-1385	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.056	0.490	0.667	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-o	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.063	0.450	0.598	0.020	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
1-p	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.053	0.480	0.460	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-1	Patch	gipp0055	Endangered	0	no	0.290	0.008	0.008	0.450	0.290	0.003	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
3-2	Patch	strz0029	Endangered	0	no	0.650	0.033	0.033	0.490	0.672	0.036	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-3	Patch	strz0029	Endangered	0	no	0.650	0.027	0.027	0.490	0.650	0.029	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-4	Patch	strz0016	Vulnerable	0	no	0.790	0.042	0.042	0.520	0.790	0.059	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-5	Patch	strz0016	Vulnerable	0	no	0.790	0.027	0.027	0.454	0.747	0.038	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-6	Patch	strz0016	Vulnerable	0	no	0.680	0.024	0.024	0.350	0.680	0.027	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-7	Patch	gipp1106	Vulnerable	0	no	0.380	0.028	0.028	0.460	0.377	0.015	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-8	Patch	gipp1106	Vulnerable	0	no	0.380	0.055	0.055	0.460	0.380	0.029	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-9	Patch	gipp1106	Vulnerable	0	no	0.630	0.030	0.030	0.440	0.630	0.031	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-10	Patch	gipp1106	Vulnerable	0	no	0.630	0.007	0.007	0.440	0.630	0.008	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-11	Patch	strz1106	Vulnerable	0	no	0.300	0.034	0.034	0.326	0.317	0.013	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.317	0.013	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-12	Patch	strz1106	Vulnerable	0	no	0.380	0.013	0.013	0.320	0.380	0.007	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.380	0.007	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-13	Patch	strz1106	Vulnerable	0	no	0.660	0.022	0.022	0.502	0.681	0.024	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.681	0.024	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-14	Patch	strz1106	Vulnerable	0	no	0.660	0.022	0.022	0.481	0.677	0.024	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.677	0.024	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-15	Patch	strz1106	Vulnerable	0	no	0.400	0.033	0.033	0.340	0.316	0.017	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.316	0.017	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
3-16	Patch	strz0029	Endangered	0	no	0.610	0.019	0.019	0.330	0.600	0.019	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>

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Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
4-1	Patch	gipp0793	Vulnerable	0	no	0.800	0.255	0.255	0.431	0.440	0.294	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.371	0.315	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
4-3	Patch	gipp0793	Vulnerable	0	no	0.600	0.788	0.788	0.737	0.561	0.738	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.569	0.742	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
2-4	Patch	gipp0937	Endangered	0	no	0.400	0.008	0.008	0.378	0.268	0.004	503660 Eastern Spider-orchid <i>Caladenia orientalis</i>
										0.268	0.004	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
4-5	Patch	strz0016	Vulnerable	0	no	0.600	0.240	0.240	0.190	0.558	0.224	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
4-6	Patch	strz0029	Endangered	2	no	0.800	0.157	0.157	0.569	0.770	0.222	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
5-1	Patch	strz0023	Vulnerable	0	no	0.600	0.148	0.148	0.500	0.635	0.145	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
5-2	Patch	gipp0151	Vulnerable	8	no	0.550	0.120	0.120	0.820	0.578	0.104	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
5-3	Patch	gipp0151	Vulnerable	0	no	0.440	0.016	0.016	0.860	0.446	0.010	504558 Strzelecki Gum <i>Eucalyptus strzeleckii</i>
5-4	Patch	gipp0151	Vulnerable	0	no	0.200	0.006	0.006	0.410		0.001	General
5-5	Patch	gipp0151	Vulnerable	0	no	0.470	0.009	0.009	0.440		0.005	General
2-359	Patch	gipp0055	Endangered	0	no	0.200	0.043	0.043	0.360		0.009	General
2-360	Patch	gipp0055	Endangered	0	no	0.600	0.257	0.257	0.360		0.157	General

## Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Strzelecki Gum	<i>Eucalyptus strzeleckii</i>	504558	Vulnerable	Dispersed	Habitat importance map ; special site	0.0082
Eastern Spider-orchid	<i>Caladenia orientalis</i>	503660	Endangered	Dispersed	Habitat importance map	0.0057
Netted brake	<i>Pteris comans</i>	502778	Rare	Dispersed	Habitat importance map	0.0029
Bassian Pomaderris	<i>Pomaderris oraria subsp. oraria</i>	502665	Rare	Dispersed	Habitat importance map	0.0025
Bass Guinea-flower	<i>Hibbertia hirticalyx</i>	505438	Rare	Dispersed	Habitat importance map	0.0021
Small Shade-nettle	<i>Australina pusilla subsp. pusilla</i>	504257	Rare	Dispersed	Habitat importance map	0.0020
Promontory Peppermint	<i>Eucalyptus willisii s.s.</i>	504480	Rare	Dispersed	Habitat importance map	0.0018
Australian Mudfish	<i>Neochanna cleaveri</i>	4703	Critically endangered	Dispersed	Habitat importance map	0.0017
Bog Gum	<i>Eucalyptus kitsoniana</i>	501290	Rare	Dispersed	Habitat importance map	0.0015
Australian Grayling	<i>Prototroctes maraena</i>	4686	Vulnerable	Dispersed	Habitat importance map	0.0008
Dune Wood-sorrel	<i>Oxalis rubens</i>	502390	Rare	Dispersed	Habitat importance map	0.0008
Dense Leek-orchid	<i>Prasophyllum spicatum</i>	504506	Endangered	Dispersed	Habitat importance map	0.0008
Currant-wood	<i>Monotoca glauca</i>	503859	Rare	Dispersed	Habitat importance map	0.0007
Small Sickle Greenhood	<i>Pterostylis lustra</i>	504876	Endangered	Dispersed	Habitat importance map	0.0007
Small Wax-lip Orchid	<i>Glossodia minor</i>	501446	Rare	Dispersed	Habitat importance map	0.0006
Yellow Elderberry	<i>Sambucus australasica</i>	502998	Vulnerable	Dispersed	Habitat importance map	0.0005
Lax Twig-sedge	<i>Baumea laxa</i>	500378	Rare	Dispersed	Habitat importance map	0.0004
Spurred Helmet-orchid	<i>Corybas aconitiflorus</i>	500835	Rare	Dispersed	Habitat importance map	0.0004
Rough-fruit Pittosporum	<i>Pittosporum revolutum</i>	502542	Rare	Dispersed	Habitat importance map	0.0004

Soft Slender Tussock-grass	<i>Poa sp. aff. tenera (Hairy)</i>	504867	Rare	Dispersed	Habitat importance map	0.0004
Prawn Greenhood	<i>Pterostylis pedoglossa</i>	502809	Vulnerable	Dispersed	Habitat importance map	0.0004
Thick-lip Spider-orchid	<i>Caladenia tessellata</i>	500547	Vulnerable	Dispersed	Habitat importance map	0.0004
Woolly Waterlily	<i>Philydrum lanuginosum</i>	502494	Vulnerable	Dispersed	Habitat importance map	0.0003
Veined Spear-grass	<i>Austrostipa rudis subsp. australis</i>	504940	Rare	Dispersed	Habitat importance map	0.0003
Southern Xanthosia	<i>Xanthosia tasmanica</i>	504088	Rare	Dispersed	Habitat importance map	0.0003
Green Leek-orchid	<i>Prasophyllum lindleyanum</i>	502702	Vulnerable	Dispersed	Habitat importance map	0.0003
Green Scentbark	<i>Eucalyptus fulgens</i>	505175	Rare	Dispersed	Habitat importance map	0.0003
Floodplain Fireweed	<i>Senecio campylocarpus</i>	507136	Rare	Dispersed	Habitat importance map	0.0003
Sticky Wattle	<i>Acacia howittii</i>	500044	Rare	Dispersed	Habitat importance map	0.0003
Swamp Greenhood	<i>Pterostylis tenuissima</i>	502819	Vulnerable	Dispersed	Habitat importance map	0.0002
Rough Blown-grass	<i>Lachnagrostis rudis subsp. rudis</i>	500159	Endangered	Dispersed	Habitat importance map	0.0002
Annual Fireweed	<i>Senecio glomeratus subsp. longifructus</i>	507144	Rare	Dispersed	Habitat importance map	0.0002
Grey Billy-buttons	<i>Craspedia canens</i>	504643	Endangered	Dispersed	Habitat importance map	0.0002
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0002
Silky Kidney-weed	<i>Dichondra sp. 1</i>	505786	Rare	Dispersed	Habitat importance map	0.0002
Slender Pink-fingers	<i>Caladenia vulgaris</i>	504449	Rare	Dispersed	Habitat importance map	0.0002
Rush Lily	<i>Sowerbaea juncea</i>	503207	Rare	Dispersed	Habitat importance map	0.0002
Rough Daisy-bush	<i>Olearia asterotricha</i>	502300	Rare	Dispersed	Habitat importance map	0.0002
Forest Red-box	<i>Eucalyptus polyanthemus subsp. longior</i>	504754	Rare	Dispersed	Habitat importance map	0.0002
Lewin's Rail	<i>Lewinia pectoralis pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0001
Cobra Greenhood	<i>Pterostylis grandiflora</i>	502798	Rare	Dispersed	Habitat importance map	0.0001
Powerful Owl	<i>Ninox strenua</i>	10248	Vulnerable	Dispersed	Habitat importance map	0.0001



Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0001
Silky Golden-tip	<i>Goodia pubescens</i>	504600	Rare	Dispersed	Habitat importance map	0.0001
Parsley Xanthosia	<i>Xanthosia leiophylla</i>	504562	Rare	Dispersed	Habitat importance map	0.0001
Small Fork-fern	<i>Tmesipteris parva</i>	503405	Rare	Dispersed	Habitat importance map	0.0001
Swamp Skink	<i>Lissolepis coventryi</i>	12407	Vulnerable	Dispersed	Habitat importance map	0.0001
Lace Monitor	<i>Varanus varius</i>	12283	Endangered	Dispersed	Habitat importance map ; special site	0.0001
Greater Glider	<i>Petauroides volans</i>	11133	Vulnerable	Dispersed	Habitat importance map	0.0001
Fringed Helmet-orchid	<i>Corybas fimbriatus</i>	500839	Rare	Dispersed	Habitat importance map	0.0001
Leafy Twig-sedge	<i>Cladium procerum</i>	500786	Rare	Dispersed	Habitat importance map	0.0001
White-throated Needletail	<i>Hirundapus caudacutus</i>	10334	Vulnerable	Dispersed	Habitat importance map	0.0001
Flinders Pygmy Perch	<i>Nannoperca sp. 1</i>	903041	Vulnerable	Dispersed	Habitat importance map	0.0001
Australasian Bittern	<i>Botaurus poiciloptilus</i>	10197	Endangered	Dispersed	Habitat importance map	0.0001
Nodding Baeckea	<i>Euryomyrtus ramosissima subsp. prostrata</i>	504258	Rare	Dispersed	Habitat importance map	0.0001
Variable Bossiaea	<i>Bossiaea heterophylla</i>	500438	Rare	Dispersed	Habitat importance map	0.0001
Glossy Grass Skink	<i>Pseudemoia rawlinsoni</i>	12683	Vulnerable	Dispersed	Habitat importance map	0.0001
One-flower Early Nancy	<i>Wurmbea uniflora</i>	503583	Rare	Dispersed	Habitat importance map	0.0001
Filmy Maidenhair	<i>Adiantum diaphanum</i>	500131	Endangered	Dispersed	Habitat importance map	0.0001
Southern Toadlet	<i>Pseudophryne semimarmorata</i>	13125	Vulnerable	Dispersed	Habitat importance map	0.0001
Baillon's Crake	<i>Porzana pusilla palustris</i>	10050	Vulnerable	Dispersed	Habitat importance map	0.0001
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>	503369	Vulnerable	Dispersed	Habitat importance map	0.0001
Jungle Bristle-fern	<i>Cephalomanes caudatum</i>	502094	Rare	Dispersed	Habitat importance map	0.0001
Winter Sun-orchid	<i>Thelymitra hiemalis</i>	505006	Endangered	Dispersed	Habitat importance map	0.0001
Purple Blown-grass	<i>Lachnagrostis punicea subsp. filifolia</i>	504222	Rare	Dispersed	Habitat importance map	0.0001

Fisch's Greenhood	<i>Pterostylis fischii</i>	502795	Rare	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	<i>Anas rhynchotis</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Wavy Swamp Wallaby-grass	<i>Amphibromus sinuatus</i>	503625	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
Masked Owl	<i>Tyto novaehollandiae novaehollandiae</i>	10250	Endangered	Dispersed	Habitat importance map	0.0000
Purple Blown-grass	<i>Lachnagrostis punicea subsp. punicea</i>	504206	Rare	Dispersed	Habitat importance map	0.0000
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0000
Leafy Greenhood	<i>Pterostylis cucullata subsp. cucullata</i>	505911	Endangered	Dispersed	Habitat importance map	0.0000
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0000
Oval Fork-fern	<i>Tmesipteris ovata</i>	503404	Rare	Dispersed	Habitat importance map	0.0000
Golden Pomaderris	<i>Pomaderris aurea</i>	502651	Rare	Dispersed	Habitat importance map	0.0000
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
Lanky Buttons	<i>Leptorhynchus elongatus</i>	501941	Endangered	Dispersed	Habitat importance map	0.0000
Austral Moonwort	<i>Botrychium australe</i>	500445	Vulnerable	Dispersed	Habitat importance map	0.0000
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0000
Orange-tip Finger-orchid	<i>Caladenia aurantiaca</i>	500523	Rare	Dispersed	Habitat importance map	0.0000
Wiry Bog-sedge	<i>Schoenus carsei</i>	503043	Rare	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	<i>Xerochrysum palustre</i>	503763	Vulnerable	Dispersed	Habitat importance map	0.0000
Slender Fork-fern	<i>Tmesipteris elongata</i>	503403	Vulnerable	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Coast Wirilda	<i>Acacia uncifolia</i>	504210	Rare	Dispersed	Habitat importance map	0.0000
Green-striped Greenhood	<i>Pterostylis chlorogramma</i>	504728	Vulnerable	Dispersed	Habitat importance map	0.0000
Velvet Apple-berry	<i>Billardiera scandens s.s.</i>	504290	Rare	Dispersed	Habitat importance map	0.0000

Blunt-leaf Pomaderris	<i>Pomaderris helianthemifolia</i> <i>subsp. hispida</i>	505427	Rare	Dispersed	Habitat importance map	0.0000
Lacey River Buttercup	<i>Ranunculus amplus</i>	505019	Rare	Dispersed	Habitat importance map	0.0000
Tremont Bundy	<i>Eucalyptus aff. goniocalyx</i> (Dandenong Ranges)	507008	Vulnerable	Dispersed	Habitat importance map	0.0000
Rough-grain Love-grass	<i>Eragrostis trachycarpa</i>	501197	Rare	Dispersed	Habitat importance map	0.0000
Forest Bitter-cress	<i>Cardamine papillata</i>	505034	Vulnerable	Dispersed	Habitat importance map	0.0000
Maroon Leek-orchid	<i>Prasophyllum frenchii</i>	502709	Endangered	Dispersed	Habitat importance map	0.0000
Dwarf Milkwort	<i>Polygala japonica</i>	502623	Vulnerable	Dispersed	Habitat importance map	0.0000
Slender Tree-fern	<i>Cyathea cunninghamii</i>	500896	Vulnerable	Dispersed	Habitat importance map	0.0000

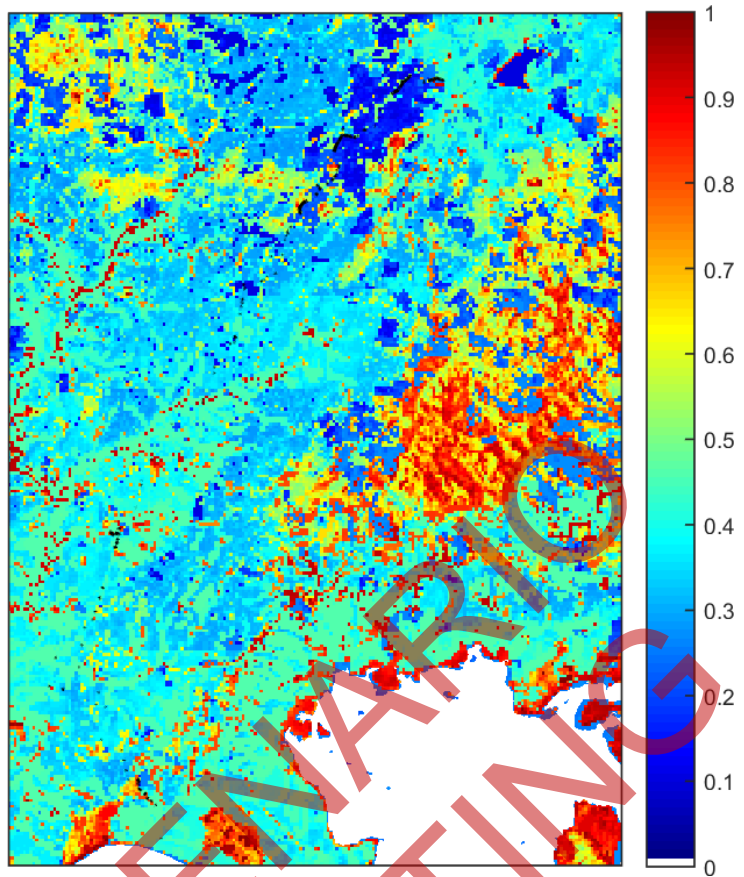
#### Habitat group

- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

#### Habitat impacted

- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

Appendix 3 – Images of mapped native vegetation  
2. Strategic biodiversity values map

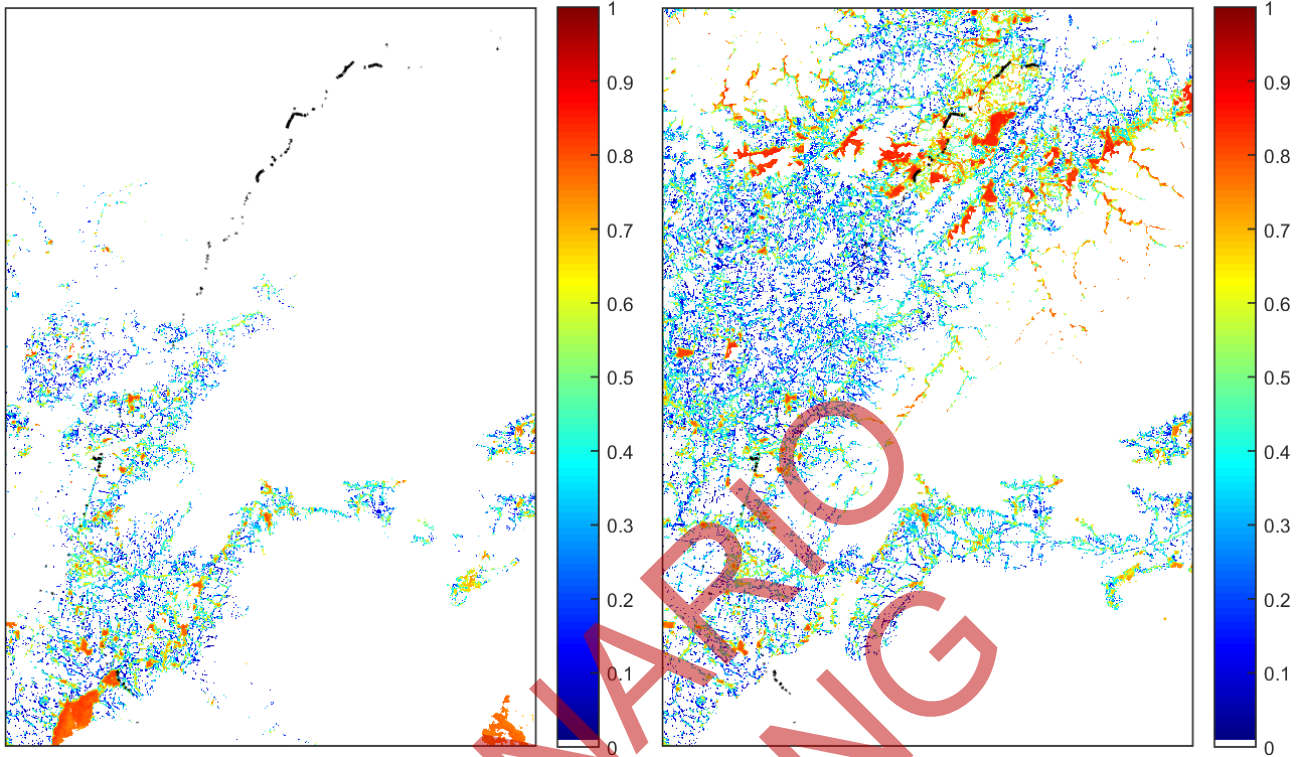


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### 3. Habitat importance maps

Eastern Spider-orchid  
*Caladenia orientalis*  
503660

Strzelecki Gum  
*Eucalyptus strzeleckii*  
504558



# Scenario test – native vegetation removal

This report provides offset requirements for internal testing of different proposals to remove native vegetation. **This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.** A report must be obtained from the Department of Environment, Land, Water and Planning (DELWP).

Date of issue: 17/07/2023  
Time of issue: 5:21 pm

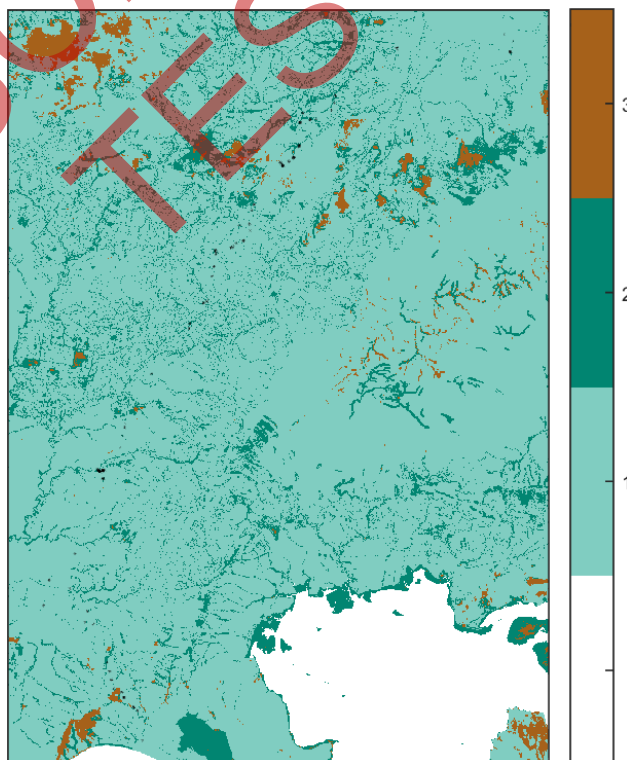
Report ID: Scenario Testing

Project ID	Veg_Loss_Mitigation
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## Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	6.649 ha
Extent of past removal	0.000 ha
Extent of proposed removal	6.649 ha
No. Large trees proposed to be removed	51
Location category of proposed removal	Location 2 The native vegetation is in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map). Removal of less than 0.5 hectares of native vegetation in this location will not have a significant impact on any habitat for a rare or threatened species.

### 1. Location map



# Scenario test – native vegetation removal

## Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

<b>General offset amount<sup>1</sup></b>	3.225 general habitat units
Vicinity	West Gippsland Catchment Management Authority (CMA) or Latrobe City, South Gippsland Shire Council
Minimum strategic biodiversity value score <sup>2</sup>	0.326
Large trees	51 large trees

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

SCENARIO TESTING

<sup>1</sup> The general offset amount required is the sum of all general habitat units in Appendix 1.

<sup>2</sup> Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required

# Scenario test – native vegetation removal

## Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

**This report DOES NOT support an application to remove, destroy or lop native vegetation under Clause 52.16 or 52.17 of planning schemes in Victoria.**

If you wish to remove the mapped native vegetation you must submit the related shapefiles to the Department of Environment, Land, Water and Planning (DELWP) for processing, by email to [ensymnvrtool.support@delwp.vic.gov.au](mailto:ensymnvrtool.support@delwp.vic.gov.au). DELWP will provide a *Native vegetation removal report* that is required to meet the permit application requirements in accordance with *Guidelines for the removal, destruction or lopping of native vegetation* (Guidelines).

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## Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats above the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{Species habitat units} = \text{extent} \times \text{condition} \times \text{species landscape factor} \times 2, \text{ where the species landscape factor} = 0.5 + (\text{habitat importance score}/2)$$

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

$$\text{General habitat units} = \text{extent} \times \text{condition} \times \text{general landscape factor} \times 1.5, \text{ where the general landscape factor} = 0.5 + (\text{strategic biodiversity value score}/2)$$

The general offset amount required is the sum of all general habitat units per zone.

### Native vegetation to be removed

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-a	Patch	strz0023	Endangered	0	no	0.800	0.250	0.250	0.100		0.165	General
2-82.1	Patch	strz0045	Endangered	0	no	0.430	0.098	0.098	0.120		0.035	General
2-270	Patch	strz0016	Vulnerable	1	no	0.600	0.127	0.127	0.468		0.084	General
2-57	Patch	strz0016	Vulnerable	5	no	0.700	0.178	0.178	0.179		0.110	General
1-53.2	Patch	strz0029	Endangered	0	no	0.630	0.022	0.022	0.191		0.012	General
2-400	Patch	strz0029	Endangered	0	no	0.200	0.030	0.030	0.290		0.006	General
2-278	Patch	strz0030	Depleted	0	no	0.600	0.072	0.072	0.410		0.046	General
2-44.1	Patch	strz0029	Endangered	0	no	0.190	0.012	0.012	0.400		0.002	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-293	Patch	strz0030	Depleted	0	no	0.400	0.039	0.039	0.544		0.018	General
2-206	Patch	strz0030	Depleted	0	no	0.500	0.254	0.254	0.390		0.132	General
2-298	Patch	strz0030	Depleted	0	no	0.200	0.133	0.133	0.100		0.022	General
2-299	Patch	strz0029	Endangered	0	no	0.200	0.077	0.077	0.285		0.015	General
2-108	Patch	strz0029	Endangered	0	no	0.200	0.093	0.093	0.330		0.019	General
2-42.1	Patch	strz0029	Endangered	0	no	0.380	0.008	0.008	0.157		0.003	General
2-102	Patch	strz0053	Endangered	0	no	0.430	0.118	0.118	0.380		0.053	General
2-27.2	Patch	gipp0053	Endangered	1	no	0.230	0.025	0.025	0.460		0.006	General
2-17.2	Patch	gipp0937	Endangered	0	no	0.360	0.007	0.007	0.600		0.003	General
2-8	Patch	gipp0016	Vulnerable	0	no	0.180	0.011	0.011	0.410		0.002	General
2-364	Patch	gipp0793	Vulnerable	0	no	0.600	0.070	0.070	0.450		0.045	General
2-215	Patch	strz0793	Vulnerable	0	no	0.200	0.048	0.048	0.400		0.010	General
2-221	Patch	gipp0793	Vulnerable	0	no	0.200	0.056	0.056	0.460		0.012	General
2-369	Patch	strz0029	Endangered	0	no	0.200	0.035	0.035	0.320		0.007	General
2-234	Patch	strz0793	Vulnerable	0	no	0.200	0.077	0.077	0.308		0.015	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-12.3	Patch	gipp0053	Endangered	0	no	0.600	0.039	0.039	0.330		0.024	General
1-13.2	Patch	strz0016	Vulnerable	2	no	0.480	0.079	0.079	0.762		0.050	General
2-246	Patch	strz0793	Vulnerable	0	no	0.400	0.149	0.149	0.460		0.065	General
2-250	Patch	strz0793	Vulnerable	0	no	0.400	0.058	0.058	0.460		0.026	General
2-100.1	Patch	gipp0053	Endangered	0	no	0.250	0.025	0.025	0.420		0.007	General
2-394	Patch	strz0023	Endangered	0	no	0.200	0.041	0.041	0.200		0.007	General
1-59.4	Patch	strz0029	Endangered	8	no	0.770	0.314	0.314	0.161		0.211	General
2-895	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.520		0.016	General
1-1048	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.180		0.012	General
2-1167	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.021	0.707		0.005	General
2-1168	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.021	0.800		0.006	General
2-1176	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.029	0.305		0.006	General
2-1177	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.029	0.230		0.005	General
2-1185	Scattered Tree	strz0016	Vulnerable	0	no	0.200	0.031	0.031	0.230		0.006	General
2-1751	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.500		0.016	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-897	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.051	0.380		0.011	General
2-1828	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.051	0.380		0.011	General
2-1945	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.300		0.014	General
2-957	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.300		0.014	General
2-21	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.054	0.567		0.013	General
2-20	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.055	0.580		0.013	General
1-22	Scattered Tree	strz1106	Vulnerable	1	no	0.200	0.070	0.070	0.506		0.016	General
2-607	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.731		0.018	General
2-923	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.370		0.014	General
2-924	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.100		0.012	General
2-369.1	Scattered Tree	gipp0053	Endangered	1	no	0.200	0.070	0.070	0.450		0.015	General
2-364	Scattered Tree	gipp1106	Vulnerable	1	no	0.200	0.070	0.070	0.450		0.015	General
2-c	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.612		0.017	General
2-d	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.350		0.014	General
2-e	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.510		0.016	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
2-i	Scattered Tree	strz0023	Endangered	1	no	0.200	0.070	0.070	0.354		0.014	General
2-l	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.110		0.012	General
2-m	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.304		0.014	General
2-n	Scattered Tree	strz0030	Depleted	1	no	0.200	0.070	0.070	0.310		0.014	General
2-1382	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.160		0.012	General
2-1384	Scattered Tree	strz0029	Endangered	0	no	0.200	0.031	0.031	0.160		0.005	General
2-1387	Scattered Tree	strz0029	Endangered	1	no	0.200	0.070	0.070	0.490		0.016	General
3-1	Patch	gipp0055	Endangered	0	no	0.290	0.008	0.008	0.450		0.002	General
3-2	Patch	strz0029	Endangered	0	no	0.650	0.033	0.033	0.490		0.024	General
3-3	Patch	strz0029	Endangered	0	no	0.650	0.027	0.027	0.490		0.020	General
3-4	Patch	strz0016	Vulnerable	0	no	0.790	0.042	0.042	0.520		0.037	General
3-5	Patch	strz0016	Vulnerable	0	no	0.790	0.027	0.027	0.454		0.023	General
3-6	Patch	strz0016	Vulnerable	0	no	0.680	0.024	0.024	0.350		0.016	General
3-7	Patch	gipp1106	Vulnerable	0	no	0.380	0.028	0.028	0.460		0.012	General
3-8	Patch	gipp1106	Vulnerable	0	no	0.380	0.055	0.055	0.460		0.023	General
3-9	Patch	gipp1106	Vulnerable	0	no	0.630	0.030	0.030	0.440		0.021	General
3-10	Patch	gipp1106	Vulnerable	0	no	0.630	0.007	0.007	0.440		0.005	General
3-11	Patch	strz1106	Vulnerable	0	no	0.300	0.034	0.034	0.326		0.010	General
3-12	Patch	strz1106	Vulnerable	0	no	0.380	0.013	0.013	0.320		0.005	General

Information provided by or on behalf of the applicant in a GIS file							Information calculated by EnSym					
Zone	Type	BioEVC	BioEVC conservation status	Large tree(s)	Partial removal	Condition score	Polygon Extent	Extent without overlap	SBV score	HI score	Habitat units	Offset type
3-13	Patch	strz1106	Vulnerable	0	no	0.660	0.022	0.022	0.502		0.016	General
3-14	Patch	strz1106	Vulnerable	0	no	0.660	0.022	0.022	0.481		0.016	General
3-15	Patch	strz1106	Vulnerable	0	no	0.400	0.033	0.033	0.340		0.013	General
3-16	Patch	strz0029	Endangered	0	no	0.610	0.019	0.019	0.330		0.012	General
4-1	Patch	gipp0793	Vulnerable	0	no	0.800	0.255	0.255	0.431		0.219	General
4-3	Patch	gipp0793	Vulnerable	0	no	0.600	0.788	0.788	0.737		0.616	General
2-4	Patch	gipp0937	Endangered	0	no	0.400	0.008	0.008	0.378		0.003	General
4-5	Patch	strz0016	Vulnerable	0	no	0.600	0.240	0.240	0.190		0.128	General
4-6	Patch	strz0029	Endangered	2	no	0.800	0.157	0.157	0.569		0.148	General
5-2	Patch	gipp0151	Vulnerable	8	no	0.550	0.120	0.120	0.820		0.090	General
5-3	Patch	gipp0151	Vulnerable	0	no	0.440	0.016	0.016	0.860		0.010	General
5-4	Patch	gipp0151	Vulnerable	0	no	0.200	0.006	0.006	0.410		0.001	General
5-5	Patch	gipp0151	Vulnerable	0	no	0.470	0.009	0.009	0.440		0.005	General
2-359	Patch	gipp0055	Endangered	0	no	0.200	0.043	0.043	0.360		0.009	General
2-360	Patch	gipp0055	Endangered	0	no	0.600	0.257	0.257	0.360		0.157	General

## Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

Species common name	Species scientific name	Species number	Conservation status	Group	Habitat impacted	% habitat value affected
Strzelecki Gum	<i>Eucalyptus strzeleckii</i>	504558	Vulnerable	Dispersed	Habitat importance map : special site	0.0022
Eastern Spider-orchid	<i>Caladenia orientalis</i>	503660	Endangered	Dispersed	Habitat importance map	0.0014
Netted brake	<i>Pteris comans</i>	502778	Rare	Dispersed	Habitat importance map	0.0012
Bassian Pomaderris	<i>Pomaderris oraria subsp. oraria</i>	502665	Rare	Dispersed	Habitat importance map	0.0010
Australian Mudfish	<i>Neochanna cleaveri</i>	4703	Critically endangered	Dispersed	Habitat importance map	0.0009
Dune Wood-sorrel	<i>Oxalis rubens</i>	502390	Rare	Dispersed	Habitat importance map	0.0004
Bog Gum	<i>Eucalyptus kitsoniana</i>	501290	Rare	Dispersed	Habitat importance map	0.0004
Australian Grayling	<i>Prototroctes maraena</i>	4686	Vulnerable	Dispersed	Habitat importance map	0.0004
Dense Leek-orchid	<i>Prasophyllum spicatum</i>	504506	Endangered	Dispersed	Habitat importance map	0.0003
Bass Guinea-flower	<i>Hibbertia hirticalyx</i>	505438	Rare	Dispersed	Habitat importance map	0.0003
Promontory Peppermint	<i>Eucalyptus willisii s.s.</i>	504480	Rare	Dispersed	Habitat importance map	0.0003
Currant-wood	<i>Monotoca glauca</i>	503859	Rare	Dispersed	Habitat importance map	0.0003
Small Shade-nettle	<i>Australina pusilla subsp. pusilla</i>	504257	Rare	Dispersed	Habitat importance map	0.0003
Small Sickle Greenhood	<i>Pterostylis lustra</i>	504876	Endangered	Dispersed	Habitat importance map	0.0003
Lax Twig-sedge	<i>Baumea laxa</i>	500378	Rare	Dispersed	Habitat importance map	0.0002
Green Leek-orchid	<i>Prasophyllum lindleyanum</i>	502702	Vulnerable	Dispersed	Habitat importance map	0.0002
Floodplain Fireweed	<i>Senecio campylocarpus</i>	507136	Rare	Dispersed	Habitat importance map	0.0001
Sticky Wattle	<i>Acacia howittii</i>	500044	Rare	Dispersed	Habitat importance map	0.0001
Rough Blown-grass	<i>Lachnagrostis rudis subsp. rudis</i>	500159	Endangered	Dispersed	Habitat importance map	0.0001
Southern Xanthosia	<i>Xanthosia tasmanica</i>	504088	Rare	Dispersed	Habitat importance map	0.0001

Yellow Elderberry	<i>Sambucus australasica</i>	502998	Vulnerable	Dispersed	Habitat importance map	0.0001
Small Wax-lip Orchid	<i>Glossodia minor</i>	501446	Rare	Dispersed	Habitat importance map	0.0001
Lewin's Rail	<i>Lewinia pectoralis pectoralis</i>	10045	Vulnerable	Dispersed	Habitat importance map	0.0001
Silky Kidney-weed	<i>Dichondra sp. 1</i>	505786	Rare	Dispersed	Habitat importance map	0.0001
Soft Slender Tussock-grass	<i>Poa sp. aff. tenera (Hairy)</i>	504867	Rare	Dispersed	Habitat importance map	0.0001
Filmy Maidenhair	<i>Adiantum diaphanum</i>	500131	Endangered	Dispersed	Habitat importance map	0.0001
Annual Fireweed	<i>Senecio glomeratus subsp. longifructus</i>	507144	Rare	Dispersed	Habitat importance map	0.0001
Grey Goshawk	<i>Accipiter novaehollandiae novaehollandiae</i>	10220	Vulnerable	Dispersed	Habitat importance map	0.0001
Woolly Waterlily	<i>Philydrum lanuginosum</i>	502494	Vulnerable	Dispersed	Habitat importance map	0.0001
Prawn Greenhood	<i>Pterostylis pedoglossa</i>	502809	Vulnerable	Dispersed	Habitat importance map	0.0001
Baillon's Crake	<i>Porzana pusilla palustris</i>	10050	Vulnerable	Dispersed	Habitat importance map	0.0001
Glossy Grass Skink	<i>Pseudemoia rawlinsoni</i>	12683	Vulnerable	Dispersed	Habitat importance map	0.0001
Spurred Helmet-orchid	<i>Corybas aconitiflorus</i>	500835	Rare	Dispersed	Habitat importance map	0.0000
Australasian Bittern	<i>Botaurus poiciloptilus</i>	10197	Endangered	Dispersed	Habitat importance map	0.0000
Thick-lip Spider-orchid	<i>Caladenia tessellata</i>	500547	Vulnerable	Dispersed	Habitat importance map	0.0000
Rough-fruit Pittosporum	<i>Pittosporum revolutum</i>	502542	Rare	Dispersed	Habitat importance map	0.0000
Grey Billy-buttons	<i>Craspedia canens</i>	504643	Endangered	Dispersed	Habitat importance map	0.0000
Australasian Shoveler	<i>Anas rhynchotis</i>	10212	Vulnerable	Dispersed	Habitat importance map	0.0000
Veined Spear-grass	<i>Austrostipa rudis subsp. australis</i>	504940	Rare	Dispersed	Habitat importance map	0.0000
Swamp Greenhood	<i>Pterostylis tenuissima</i>	502819	Vulnerable	Dispersed	Habitat importance map	0.0000
Leafy Greenhood	<i>Pterostylis cucullata subsp. cucullata</i>	505911	Endangered	Dispersed	Habitat importance map	0.0000
Parsley Xanthosia	<i>Xanthosia leiophylla</i>	504562	Rare	Dispersed	Habitat importance map	0.0000
Rough Daisy-bush	<i>Olearia asterotricha</i>	502300	Rare	Dispersed	Habitat importance map	0.0000



Silky Golden-tip	<i>Goodia pubescens</i>	504600	Rare	Dispersed	Habitat importance map	0.0000
Green Scentbark	<i>Eucalyptus fulgens</i>	505175	Rare	Dispersed	Habitat importance map	0.0000
Leafy Twig-sedge	<i>Cladium procerum</i>	500786	Rare	Dispersed	Habitat importance map	0.0000
Powerful Owl	<i>Ninox strenua</i>	10248	Vulnerable	Dispersed	Habitat importance map	0.0000
Winter Sun-orchid	<i>Thelymitra hiemalis</i>	505006	Endangered	Dispersed	Habitat importance map	0.0000
Cobra Greenhood	<i>Pterostylis grandiflora</i>	502798	Rare	Dispersed	Habitat importance map	0.0000
Forest Red-box	<i>Eucalyptus polyanthemus subsp. longior</i>	504754	Rare	Dispersed	Habitat importance map	0.0000
Slender Pink-fingers	<i>Caladenia vulgaris</i>	504449	Rare	Dispersed	Habitat importance map	0.0000
Blotched Sun-orchid	<i>Thelymitra benthamiana</i>	503369	Vulnerable	Dispersed	Habitat importance map	0.0000
Hardhead	<i>Aythya australis</i>	10215	Vulnerable	Dispersed	Habitat importance map	0.0000
White-throated Needletail	<i>Hirundapus caudacutus</i>	10334	Vulnerable	Dispersed	Habitat importance map	0.0000
Jungle Bristle-fern	<i>Cephalomanes caudatum</i>	502094	Rare	Dispersed	Habitat importance map	0.0000
Lace Monitor	<i>Varanus varius</i>	12283	Endangered	Dispersed	Habitat importance map	0.0000
Small Fork-fern	<i>Tmesipteris parva</i>	503405	Rare	Dispersed	Habitat importance map	0.0000
Rush Lily	<i>Sowerbaea juncea</i>	503207	Rare	Dispersed	Habitat importance map	0.0000
Matted Flax-lily	<i>Dianella amoena</i>	505084	Endangered	Dispersed	Habitat importance map	0.0000
Wavy Swamp Wallaby-grass	<i>Amphibromus sinuatus</i>	503625	Vulnerable	Dispersed	Habitat importance map	0.0000
Swamp Everlasting	<i>Xerochrysum palustre</i>	503763	Vulnerable	Dispersed	Habitat importance map	0.0000
Purple Blown-grass	<i>Lachnagrostis punicea subsp. punicea</i>	504206	Rare	Dispersed	Habitat importance map	0.0000
Slender Fork-fern	<i>Tmesipteris elongata</i>	503403	Vulnerable	Dispersed	Habitat importance map	0.0000
Swamp Skink	<i>Lissolepis coventryi</i>	12407	Vulnerable	Dispersed	Habitat importance map	0.0000
Greater Glider	<i>Petauroides volans</i>	11133	Vulnerable	Dispersed	Habitat importance map	0.0000
Yarra Gum	<i>Eucalyptus yarraensis</i>	501326	Rare	Dispersed	Habitat importance map	0.0000

Variable Bossiaea	<i>Bossiaea heterophylla</i>	500438	Rare	Dispersed	Habitat importance map	0.0000
Purple Diuris	<i>Diuris punctata</i>	501084	Vulnerable	Dispersed	Habitat importance map	0.0000
Wiry Bog-sedge	<i>Schoenus carsei</i>	503043	Rare	Dispersed	Habitat importance map	0.0000
Purple Blown-grass	<i>Lachnagrostis punicea subsp. filifolia</i>	504222	Rare	Dispersed	Habitat importance map	0.0000
Pale Swamp Everlasting	<i>Coronidium gunnianum</i>	504655	Vulnerable	Dispersed	Habitat importance map	0.0000
Black Falcon	<i>Falco subniger</i>	10238	Vulnerable	Dispersed	Habitat importance map	0.0000
One-flower Early Nancy	<i>Wurmbea uniflora</i>	503583	Rare	Dispersed	Habitat importance map	0.0000
Blue-billed Duck	<i>Oxyura australis</i>	10216	Endangered	Dispersed	Habitat importance map	0.0000
Coast Wirilda	<i>Acacia uncifolia</i>	504210	Rare	Dispersed	Habitat importance map	0.0000
Oval Fork-fern	<i>Tmesipteris ovata</i>	503404	Rare	Dispersed	Habitat importance map	0.0000
Masked Owl	<i>Tyto novaehollandiae novaehollandiae</i>	10250	Endangered	Dispersed	Habitat importance map	0.0000
Fringed Helmet-orchid	<i>Corybas fimbriatus</i>	500839	Rare	Dispersed	Habitat importance map	0.0000
Rough-grain Love-grass	<i>Eragrostis trachycarpa</i>	501197	Rare	Dispersed	Habitat importance map	0.0000
Tremont Bundy	<i>Eucalyptus aff. goniocalyx (Dandenong Ranges)</i>	507008	Vulnerable	Dispersed	Habitat importance map	0.0000
Austral Moonwort	<i>Botrychium australe</i>	500445	Vulnerable	Dispersed	Habitat importance map	0.0000
Maroon Leek-orchid	<i>Prasophyllum frenchii</i>	502709	Endangered	Dispersed	Habitat importance map	0.0000
Forest Bitter-cress	<i>Cardamine papillata</i>	505034	Vulnerable	Dispersed	Habitat importance map	0.0000
Fisch's Greenhood	<i>Pterostylis fischii</i>	502795	Rare	Dispersed	Habitat importance map	0.0000
Dwarf Milkwort	<i>Polygala japonica</i>	502623	Vulnerable	Dispersed	Habitat importance map	0.0000
Lanky Buttons	<i>Leptorhynchus elongatus</i>	501941	Endangered	Dispersed	Habitat importance map	0.0000
Slender Tree-fern	<i>Cyathea cunninghamii</i>	500896	Vulnerable	Dispersed	Habitat importance map	0.0000
Green-striped Greenhood	<i>Pterostylis chlorogramma</i>	504728	Vulnerable	Dispersed	Habitat importance map	0.0000

#### Habitat group

- Highly localised habitat means there is 2000 hectares or less mapped habitat for the species

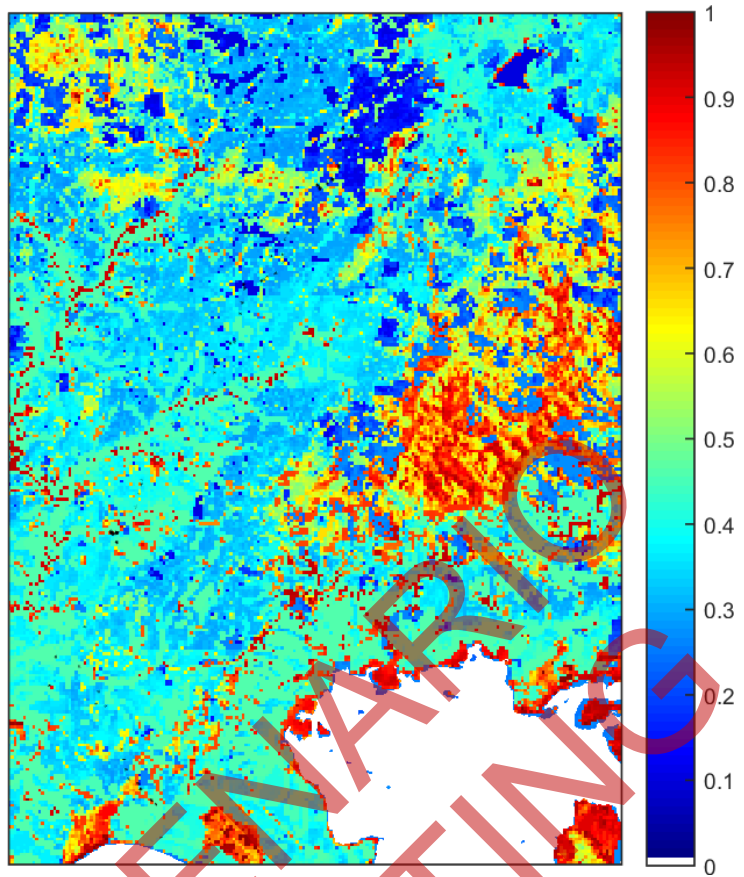
- Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species

**Habitat impacted**

- Habitat importance maps are the maps defined in the Guidelines that include all the mapped habitat for a rare or threatened species
- Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores in dispersed species habitat maps and selected VBA records
- Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

SCENARIO TESTING

Appendix 3 – Images of mapped native vegetation  
2. Strategic biodiversity values map



# SCENARIO TESTING

## Appendix C GHU availability report (post-mitigation scenario)

# Report of available native vegetation credits

This report lists native vegetation credits available to purchase through the Native Vegetation Credit Register.

This report is **not evidence** that an offset has been secured. An offset is only secured when the units have been purchased and allocated to a permit or other approval and an allocated credit extract is provided by the Native Vegetation Credit Register.

Date and time: 06/05/2024 03:51

Report ID: 24024

## What was searched for?

### General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)	
0.984	0.266	184	CMA	West Gippsland
			or LGA	South Gippsland Shire
			or LGA	Latrobe City

## Details of available native vegetation credits on 06 May 2024 03:51

### These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
BBA-0138	24.007	1605	West Gippsland	Wellington Shire	Yes	Yes	No	Ecocentric
BBA-0759	18.868	659	West Gippsland	Wellington Shire	Yes	Yes	No	Contact NVOR
BBA-2623	23.877	873	West Gippsland	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2810	7.758	613	West Gippsland	Latrobe City	Yes	Yes	No	VegLink
BBA-2845	27.537	1068	West Gippsland	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2875	32.836	1037	West Gippsland	Wellington Shire	Yes	Yes	No	Abezco
VC_CFL-3696_01	1.564	257	West Gippsland	Bass Coast Shire	Yes	Yes	No	Ethos, VegLink

### These sites meet your requirements using alternative arrangements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
----------------	-----	----	-----	-----	------------	--------	-------------	-----------

There are no sites listed in the Native Vegetation Credit Register that meet your offset requirements when applying the alternative arrangements as listed in section 11.2 of the Guidelines for the removal, destruction or lopping of native vegetation.

**These potential sites are not yet available, land owners may finalise them once a buyer is confirmed.**

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
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There are no potential sites listed in the Native Vegetation Credit Register that meet your offset requirements.

LT - Large Trees

CMA - Catchment Management Authority

LGA - Municipal District or Local Government Authority

## Next steps

### If applying for approval to remove native vegetation

Attach this report to an application to remove native vegetation as evidence that your offset requirement is currently available.

### If you have approval to remove native vegetation

Below are the contact details for all brokers. Contact the broker(s) listed for the credit site(s) that meet your offset requirements. These are shown in the above tables. If more than one broker or site is listed, you should get more than one quote before deciding which offset to secure.

## Broker contact details

Broker Abbreviation	Broker Name	Phone	Email	Website
Abezco	Abzeco Pty. Ltd.	(03) 9431 5444	offsets@abzeco.com.au	www.abzeco.com.au
Baw Baw SC	Baw Baw Shire Council	(03) 5624 2411	bawbaw@bawbawshire.vic.gov.au	www.bawbawshire.vic.gov.au
Bio Offsets	Biodiversity Offsets Victoria	0452 161 013	info@offsetsvictoria.com.au	www.offsetsvictoria.com.au
Contact NVOR	Native Vegetation Offset Register	136 186	nativevegetation.offsetregister@delwp.vic.gov.au	www.environment.vic.gov.au/native-vegetation
Ecocentric	Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not available
Ethos	Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
Nillumbik SC	Nillumbik Shire Council	(03) 9433 3316	offsets@nillumbik.vic.gov.au	www.nillumbik.vic.gov.au
TFN	Trust for Nature	8631 5888	offsets@tfn.org.au	www.trustfornature.org.au
VegLink	Vegetation Link Pty Ltd	(03) 8578 4250 or 1300 834 546	offsets@vegetationlink.com.au	www.vegetationlink.com.au
Yarra Ranges SC	Yarra Ranges Shire Council	1300 368 333	biodiversityoffsets@yarraranges.vic.gov.au	www.yarraranges.vic.gov.au

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For more information contact the DEECA Customer Service Centre 136 186 or the Native Vegetation Credit Register at [nativevegetation.offsetregister@delwp.vic.gov.au](mailto:nativevegetation.offsetregister@delwp.vic.gov.au)

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Obtaining this publication does not guarantee that the credits shown will be available in the Native Vegetation Credit Register either now or at a later time when a purchase of native vegetation credits is planned.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes



# Report of available native vegetation credits

This report lists native vegetation credits available to purchase through the Native Vegetation Credit Register.

This report is **not evidence** that an offset has been secured. An offset is only secured when the units have been purchased and allocated to a permit or other approval and an allocated credit extract is provided by the Native Vegetation Credit Register.

Date and time: 09/08/2023 02:38

Report ID: 20332

## What was searched for?

### General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)	
3.225	0.326	51	CMA	West Gippsland
			or LGA	Latrobe City
			or LGA	South Gippsland Shire

## Details of available native vegetation credits on 09 August 2023 02:38

### These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
BBA-0138	24.007	1605	West Gippsland	Wellington Shire	Yes	Yes	No	Ecocentric
BBA-0759	18.868	659	West Gippsland	Wellington Shire	Yes	Yes	No	Contact NVOR
BBA-2623	23.877	873	West Gippsland	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2810	7.758	613	West Gippsland	Latrobe City	Yes	Yes	No	VegLink
BBA-2845	27.537	1068	West Gippsland	Baw Baw Shire	Yes	Yes	No	Contact NVOR
BBA-2875	33.014	1052	West Gippsland	Wellington Shire	Yes	Yes	No	Abezco

### These sites meet your requirements using alternative arrangements for general offsets.

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
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There are no sites listed in the Native Vegetation Credit Register that meet your offset requirements when applying the alternative arrangements as listed in section 11.2 of the Guidelines for the removal, destruction or lopping of native vegetation.

**These potential sites are not yet available, land owners may finalise them once a buyer is confirmed.**

Credit Site ID	GHU	LT	CMA	LGA	Land owner	Trader	Fixed price	Broker(s)
----------------	-----	----	-----	-----	------------	--------	-------------	-----------

There are no potential sites listed in the Native Vegetation Credit Register that meet your offset requirements.

LT - Large Trees

CMA - Catchment Management Authority

LGA - Municipal District or Local Government Authority

## Next steps

### If applying for approval to remove native vegetation

Attach this report to an application to remove native vegetation as evidence that your offset requirement is currently available.

### If you have approval to remove native vegetation

Below are the contact details for all brokers. Contact the broker(s) listed for the credit site(s) that meet your offset requirements. These are shown in the above tables. If more than one broker or site is listed, you should get more than one quote before deciding which offset to secure.

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Broker Abbreviation	Broker Name	Phone	Email	Website
Abezco	Abzeco Pty. Ltd.	(03) 9431 5444	offsets@abzeco.com.au	www.abzeco.com.au
Baw Baw SC	Baw Baw Shire Council	(03) 5624 2411	bawbaw@bawbawshire.vic.gov.au	www.bawbawshire.vic.gov.au
Bio Offsets	Biodiversity Offsets Victoria	0452 161 013	info@offsetsvictoria.com.au	www.offsetsvictoria.com.au
Contact NVOR	Native Vegetation Offset Register	136 186	nativevegetation.offsetregister@delwp.vic.gov.au	www.environment.vic.gov.au/native-vegetation
Ecocentric	Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not available
Ethos	Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
Nillumbik SC	Nillumbik Shire Council	(03) 9433 3316	offsets@nillumbik.vic.gov.au	www.nillumbik.vic.gov.au
TFN	Trust for Nature	8631 5888	offsets@tfn.org.au	www.trustfornature.org.au
VegLink	Vegetation Link Pty Ltd	(03) 8578 4250 or 1300 834 546	offsets@vegetationlink.com.au	www.vegetationlink.com.au
Yarra Ranges SC	Yarra Ranges Shire Council	1300 368 333	biodiversityoffsets@yarraranges.vic.gov.au	www.yarraranges.vic.gov.au

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For more information contact the DEECA Customer Service Centre 136 186 or the Native Vegetation Credit Register at [nativevegetation.offsetregister@delwp.vic.gov.au](mailto:nativevegetation.offsetregister@delwp.vic.gov.au)

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