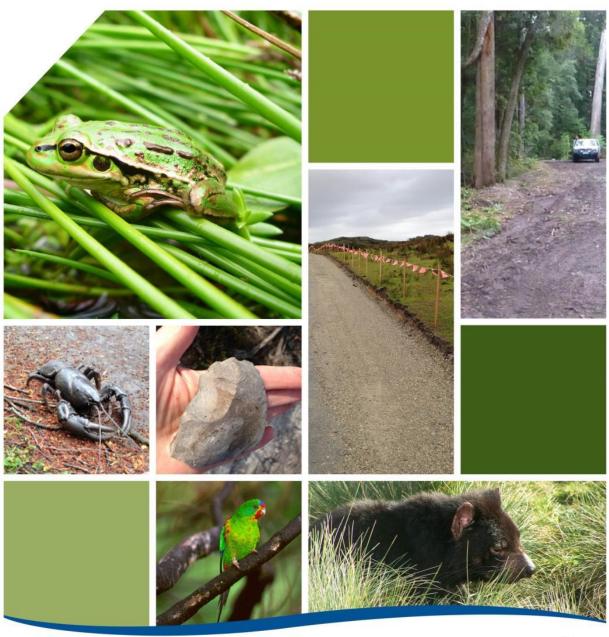
Annual Compliance Report 2018/19

EPBC 2011/6061

Rokeby Main Road Upgrade





Contents

| Glo | ssary | of Terms | 2 |
|-----|--------|---|---|
| 1. | Abo | ut | 3 |
| - | l.1 | Blue 'Roadside' Wallaby Grass | 3 |
| - | 1.2 | Key Dates | 4 |
| 2. | Com | pliance | 4 |
| (| Condit | ion 1 | 2 |
| (| Condit | ion 2 | 2 |
| (| Condit | ion 3 | 3 |
| (| Condit | ion 4 | 3 |
| (| Condit | ion 5 | 4 |
| (| Condit | ion 6 | 4 |
| (| Condit | ion 7 | 5 |
| (| Condit | ion 8 | 5 |
| (| Condit | ion 9 | 5 |
| (| Condit | ion 10 | 5 |
| (| Condit | ion 11 | 6 |
| (| Condit | ion 12 | 6 |
| (| Condit | ion 13 | 6 |
| 3. | Con | clusion | 6 |
| Ар | pendix | 1 – Approval and Variations – Rokeby Main Road Upgrade EPBC 2011/6061 | 7 |
| An | pendix | 2 - Monitoring Report Swift Parrot Offset 2018 | R |

Glossary of Terms

The Approval – The approval granted under Sections 130(1) and 133 of the EPBC Act: Rokeby Main Road Upgrade (EPBC 2011/6061)

Bagdad offset site – This site is an offset site for swift parrot habitat proposed as an alternative to the Bicheno proposed offset site. It was first proposed to DotE on 6 November 2014 and was approved on 10 April 2015.

Bicheno proposed offset site – The site proposed as an offset for swift parrot habitat, as contained within the Preliminary Documentation (PD). This site is also referred to as *Appendix F* of the Approval (see Appendix A of this Report)

Blue 'Roadside' Wallaby Grass – the species formerly described as *Rytidosperma popinensis* (formerly *Austrodanthonia popinensis*), now widely accepted as common Wallaby Grass (*Rytidosperma fulvum*).

The Conditions – The conditions of approval, as per the approval granted under Sections 130(1) and 133 of the EPBC Act: Rokeby Main Road Upgrade (EPBC 2011/6061)

The Department – Tasmanian Department of State Growth (formerly the Department of Infrastructure, Energy and Resources)

DotE – Commonwealth Department of the Environment (formerly the Department of Sustainability, Environment, Water, Population and Communities)

DPIPWE - Tasmanian Department of Primary Industries, Parks, Water and the Environment

EPBC Act - Environment Protection and Biodiversity Conservation Act 1999

Mangalore proposed offset site – The site located at Mangalore, as identified within the PD. This site is also referred to as *Appendix D* of the Approval (see Appendix A of this Report)

The Minister – The Minister responsible for administering the *Environment Protection and Biodiversity Conservation Act 1999*

PD – Preliminary Documentation, submitted as part of the EPBC Referral

The Project – Rokeby Main Road Upgrade

The Report – Rokeby Main Road Upgrade Annual Compliance Report 2018-19

Swift Parrot Habitat – Those vegetation communities classified under TASVEG mapping as DOV (*Eucalyptus ovata* forest and woodland) and DGL (*Eucalyptus globulus* dry forest and woodland), being favoured for foraging and nesting by the swift parrot (*Lathamus discolor*)

TSSC – Threatened Species Scientific Committee

1. About

The Rokeby Main Road Upgrade Annual Compliance Report 2018/19 is the fifth annual report (the Report) addressing compliance with approval EPBC 2011/6061 (the Approval). Condition 11 of the Approval states:

"Within three months of every 12 month anniversary of the commencement of construction of the action, annually until the expiry date of this approval, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be notified to the department as soon as they occur."

Construction on the Rokeby Main Road Upgrade commenced on 25th November 2013 and was formally completed on 25th September 2015. The Department of State Growth has been committed to ensuring that the upgrading of Rokeby Main Road would have minimal impacts on local populations of native animals, plants and the surrounding environment. The Department is committed to achieving the highest practicable environmental outcomes and takes it responsibilities seriously. The Report addresses each condition of the Approval specifically, outlining how compliance has been met. Some conditions have yet to be triggered, and thus compliance with these conditions will be addressed in future reports as appropriate. Similarly, the circumstances of some condition has since changed (as detailed in Section 1.1 below), and statements addressing each of these changes have been provided.

Section 2 of this Report addresses compliance with the Approval and will re-state each condition of the Approval (*in bold and italics*) *followed by statements of compliance*. Where any of the Conditions of Approval refer to an attachment, this refers to those attachments as contained within the Approval itself. A copy of the Approval is provided in *Appendix 1* of this Report.

1.1 Blue 'Roadside' Wallaby Grass

During the previous 12 months, Blue 'Roadside' Wallaby Grass was formally delisted and removed from Section 178 of the EPBC Act. Effective 16 September 2015, the Minister formally delisted Blue 'Roadside' Wallaby Grass on advice from the TSSC that the species was no longer eligible due to taxonomic changes. These changes included acknowledgement that this species should be considered synonymous with the common species *Rytidosperma fulvum* and be regarded as 'introduced' to Tasmania. Given this recognition, ongoing preservation of an introduced species to Tasmania is an undesirable ecological outcome.

The Department wrote to DotE on 11 January 2016 requesting advice regarding further compliance activities under the Approval. A letter from DotE was received on the 17th June 2016, varying the conditions of approval. This involved removing conditions 5,6, and 7 and Appendix B, C and D, which includes the removal for the requirement of the offset.

1.2 Key Dates

| Activity | Date (Due) |
|------------------------------------|---------------------------------|
| Date of EPBC Act Approval | 19 th August 2013 |
| Construction commenced | 25 th November 2013 |
| Construction completed | 25 th September 2015 |
| New swift parrot offset secured | 13 th October 2015 |
| Fifth annual compliance report due | 24 th February 2019 |
| Expiry date of EPBC Act Approval | 25 th June 2033 |

Table 1. Key dates relevant to this compliance report

2. Compliance

The Department of State Growth has endeavoured to fully comply with, and strictly adhere to, the Conditions of the Approval. Table 2 details the status of each of the Conditions of Approval.

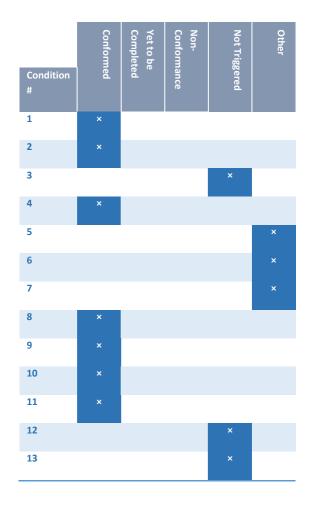


Table 2. Which conditions have been triggered, and how they have been managed.

Condition 1

- 1. For the better protection of the swift parrot, the person taking the action must:
 - a. not remove more than 86 Eucalyptus ovata trees and one Eucalyptus globulus tree from inside the development footprint as shown in Appendix A;
 - b. only clear the Eucalyptus ovata trees referred to in condition 1(a) above, between the months of March to July, to avoid disturbance to swift parrot individuals; and
 - c. immediately prior to undertaking tree removal works on the Eucalyptus globulus tree referred to in condition 1(a), engage a suitably qualified expert to ensure no swift parrot individuals are present.

The removal of these 87 trees of potential swift parrot habitat occurred at two separate times due to the schedule of works and the location of each of the trees. Details of this activity were provided in a previous reporting period. No other *Eucalyptus ovata* or *Eucalyptus globulus* trees were removed as part of construction activities.

Condition 2

- 2. To compensate for the residual loss of swift parrot foraging habitat, prior to the one (1) year anniversary of commencement of construction, the person taking the action must engage a suitably qualified expert to undertake ecological surveys and an assessment, during an optimal ecological time, of the Bicheno proposed offset site to determine:
 - a. the intensity and extent of impacts of the 2013 fire event on the Bicheno proposed offset site. These surveys must provide a discussion of the results in relation to:
 - i. the historical fire frequency and intensity at the site; and
 - ii. the ecological role of fire at the site.

- b. prospects for recovery (including recovery milestones and estimated timing) of the Bicheno proposed offset site in terms of quality and extent of swift parrot foraging habitat;
- ongoing management measures (including methods, standards and schedules wherever relevant) required to maintain or improve swift parrot foraging habitat at this site.

The results of the surveys and assessment must be provided to the department within three (3) months of completion of the surveys.

Investigations into the viability of the initially proposed Bicheno offset site for swift parrot habitat was reassessed to determine the status of its recovery following the January 2013 Tasmanian bushfires. A report was produced on 16 December 2013 detailing the findings of these investigations. This report was provided to DotE via email correspondence on 16 December 2013. Details relating to this condition was provided in the *Annual Compliance Report 2014*. No further actions relating to this condition has since occurred.

Condition 3

- 3. In the event that the surveys required in condition 2 above show that the Bicheno proposed offset site does contain adequate swift parrot foraging habitat (as advised by the Minister), to compensate for the residual loss of swift parrot foraging habitat, prior to the three (3) year anniversary of the commencement of construction, the person taking the action must:
 - establish a reserve within the Bicheno proposed offset site, of no less than ten (10) hectares of swift parrot foraging habitat, using a legal mechanism appropriate to the long-term conservation of the site and approved in advance by the Minister;
 - b. commence implementation of the management measures, identified by the suitably qualified expert to maintain or improve swift parrot foraging habitat at this site under condition 2(c),
 - c. commence monitoring of the reserve, to be conducted by a suitably qualified expert during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - i. the success of the management measures to maintain or improve the swift parrot foraging habitat against the baseline condition; and
 - ii. changes in the quality of the swift parrot foraging habitat in the reserve against the baseline condition.
 - d. commence reporting to the department, annually until the expiry date of this approval, on surveys conducted under c) above; and
 - e. outline any additional offsets or measures to maintain or enhance the swift parrot foraging habitat in the reserve against the baseline condition.

As assessed under Condition 2 of this Approval – and stated in previous compliance reports – the originally-proposed Bicheno offset was deemed unsuitable for protection as an offset for suitable swift parrot habitat. Given this, Condition 3 is not triggered.

Condition 4

- 4. In the event that the surveys required in condition 2 above show that the Bicheno proposed offset site does not contain adequate swift parrot foraging habitat (as advised by the minister), to compensate for the residual loss of swift parrot foraging habitat, prior to the three (3) year anniversary of this approval, the person taking the action must:
 - a. identify a reserve of swift parrot foraging habitat in eastern Tasmania, or a location of equivalent or greater conservation measure, as agreed to by the Minister, that complies with the department's offset policy;
 - b. secure the site identified under a) above using a legal mechanism appropriate to the long-term conservation of the site and approved in advance by the Minister;
 - c. commence ongoing management measures (including methods, standards and schedules wherever relevant) as determined by a suitably qualified expert, required to maintain or improve foraging habitat for the swift parrot within the reserve:
 - d. commence monitoring of the reserve, to be conducted by a suitably qualified expert during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - i. the success of the management measures to maintain or improve the swift parrot foraging habitat against the baseline condition; and
 - ii. changes in the quality of the swift parrot foraging habitat on the reserve against the baseline condition.
 - e. commence reporting to the department, annually until the expiry date of this approval, on surveys conducted under d) above: and
 - f. outline additional offsets or measures to achieve the swift parrot foraging habitat against the baseline condition

As assessed under Condition 2 of this Approval, the originally-proposed Bicheno offset was deemed unsuitable for protection as an offset for suitable swift parrot habitat. An alternative offset has now been secured. Advice was provided to DotE by email on 11 November 2015 confirming the establishment of a conservation covenant at Bagdad, Tasmania. The covenant was registered as secured-in-perpetuity on 13 October 2015. Associated documentation, including electronic shapefiles (see Condition 8 in this Approval), were also provided at this time. Monitoring of the site will commence effective 2016.

As per condition 4d), the first annual monitoring of the conservation covenant located at Bagdad was completed in October 2016 by a suitably qualified expert. The Report titled 'Monitoring Report-Swift Parrot Offset' (Appendix E) was completed by the Tasmanian Land Conservancy which found that the ecological values contained with the site provided suitable swift parrot habitat for foraging and breeding. The site displayed a number of dominant canopy species at various age classes, giving confidence that the long term outcome will be for continued suitability for swift parrots. There were no high threat weeds noted during the survey and no threats noted to the site's integrity.

Condition 5

5. For the better protection of the blue (roadside) wallaby grass, the person taking the action must not remove more than 0.6 hectares of blue (roadside) wallaby grass from inside the development footprint as shown in Appendix B.

As detailed in the letter from DotE of the 17th of June 2016, this condition was removed and therefore does not require reporting.

- 6. For the better protection of the blue (roadside) wallaby grass, during construction, the person taking the action must:
 - a. implement construction exclusion zones of all blue (roadside) wallaby grass outside the development footprint as shown in Appendix 8 to prevent disturbance of the avoided populations. Construction exclusion zones must be:
 - i. identified on contractor drawings and provided to the department prior to construction; and
 - ii. marked with a flag line and signs during construction.

As detailed in the letter from DotE of the 17th of June 2016, this condition was removed and therefore does not require reporting.

Condition 6

6. For the better protection of the blue (roadside) wallaby grass, during construction, the person taking the action must:

a. implement construction exclusion zones of all blue (roadside) wallaby grass outside the development footprint as shown in Appendix 8 to prevent disturbance of the avoided populations. Construction exclusion zones must be: i. identified on contractor drawings and provided to the department prior to construction; and ii. marked with a flag line and signs during construction.

As detailed in the letter from DotE of the 17th of June 2016, this condition was removed and therefore does not require reporting, however all impacts to Blue 'Roadside' Wallaby Grass were confined to within the permitted construction footprint, as identified in Appendix B of the Approval. To ensure this condition was met, construction exclusion zones were erected around all previously identified populations outside of the construction footprint. This was in the form of flagging tape tied to wooden stakes. These exclusion zones were demarcated clearly on construction drawings provided to contractors prior to the commencement of works. These drawings – and evidence of the erection of exclusion zones – were provided to DotE.

Condition 7

- 7. To compensate for the loss of blue (roadside) wallaby grass, prior to the two (2) year anniversary of the commencement of construction, the person taking the action must:
 - a. establish a reserve at the Mangalore proposed offset site using a legal mechanism appropriate to the longterm conservation of the site and approved in advance by the Minister;
 - b. plant no fewer than 24,000 blue (roadside) wallaby grass plants on site at Rokeby as shown in Appendix C;
 - c. commence implementation of the management measures, identified by a suitably qualified expert, to ensure maintenance of the blue (roadside) wallaby grass population within both the reserve at the Mangalore proposed offset site, referred to in condition 6(a) above, and planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.
 - d. commence monitoring of the reserve at the Mangalore proposed offset site and established blue (roadside) wallaby grass plants at Rokeby, to be conducted by a suitably qualified expert during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - the success of the management measures to maintain no less than 7310 blue (roadside) wallaby grass plants at the Mangalore proposed offset site, referred to in condition 6(a) above, and to ensure establishment of no less than 75% of the planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.
 - e. commence reporting to the department, annually until the expiry date of this approval, on surveys conducted under d) above; and
 - f. outline any additional offsets or measures to maintain or enhance the blue (roadside) wallaby grass population within both the reserve at the Mangalore proposed offset site, referred to in condition 6(a) above, and planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.

As detailed in the letter from DotE of the 17th of June 2016, this condition was removed and therefore does not require reporting.

Condition 8

8. The person taking the action must provide the department with offset attributes, shapefiles, textual descriptions and maps to clearly define the location and boundaries of the offsets required as a result of this approval. These must be provided within 30 days of the offsets being secured in perpetuity.

Mangalore Offset Site

As per Condition 7, the Mangalore offset is an already-established conservation covenant, secured under EPBC 2009/4762 and EPBC 2009/4757. Half of this offset was allocated to EPBC 2009/4762 and EPBC 2009/4757, with the remainder secured for future use if needed. This remaining area was already approved by DotE as part of the referral process.

Bagdad Offset Site

As detailed in Condition 4 above, official documentation regarding the establishment of this conservation covenant was provided to DotE on 11 November 2015. The conservation covenant was formally registered with the Recorder of Titles on 13 October 2015.

Condition 9

9. Within 30 days after the commencement of construction of the action, the person taking the action must advise the department in writing of the actual date of commencement.

Construction works relating to Rokeby Main Road commenced on 25th November 2013. Further details relating to this condition have been provided in previous compliance reports.

Condition 10

10. The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, and make them available upon request to the department. Such records may be subject to audit by the department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the department's website. The results of audits may also be publicised through the general media.

The Department has maintained accurate records substantiating all activities associated with the works and relevant conditions.

Condition 11

11. Within three months of every 12 month anniversary of the commencement of construction of the action, annually until the expiry date of this approval, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be notified to the department as soon as they occur.

The purpose of this Report is to satisfy this condition. This report contains statements addressing compliance with each of the conditions of the Approval. Each of the conditions referring to the implementation of management plans or programs has already been addressed in the respective statements of compliance throughout this Report. Upon publishing this Report on the Department's website, evidence will be provided to DotE of this fact at the time of publishing.

Condition 12

12. Upon the direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.

This condition has not been triggered.

Condition 13

13. If, at any time after three (3) years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.

Works on this project commenced on 25th November 2013. This condition can no longer be satisfied.

3. Conclusion

This Report is intended to meet the full requirements of condition 11 of the Approval. All statements made in the Report are true and evidence-based. Further information can be provided as required. This Report will be publicly available on the Department's website within the three month anniversary of the commencement of works.

Appendix 1 – Approval and Variations – Rokeby Main Road Upgrade EPBC 2011/6061

Approval

Rokeby Main Road Upgrade, Howrah and Rokeby, Tasmania (EPBC 2011/6061)

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Proposed action

| person to whom the approval is granted | Tasmanian Department of Infrastructure, Energy and Resources |
|--|---|
| proponent's ACN (if applicable) | ABN: 363 889 805 63 |
| proposed action | Road upgrade to Rokeby Main Road from Oceana Drive in Howrah to Diosma Street in Rokeby, Tasmania [See EPBC Act referral 2011/6061] |

Approval decision

| Controlling Provision | Decision |
|---|----------|
| Listed threatened species and communities (sections 18 & 18A) | Approved |

conditions of approval

This approval is subject to the conditions specified below.

expiry date of approval

This approval has effect until 25 June 2033.

| n | A | c | is | ia | n | -m | al | (e | r |
|---|---|---|----|----|---|----|----|----|---|
| | | | | | | | | | |

name and position

James Tregurtha

Assistant Secretary

South-Eastern Australia Environment Assessment Branch

signature

4 Total

date of decision

19

August 2013



VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Rokeby Main Road Upgrade, Howrah and Rokeby, Tasmania, (EPBC 2011/6061)

This decision to vary a condition of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act* 1999 (EPBC Act).

Approved action

| Person to whom the approval is granted | Tasmanian Department of Infrastructure, Energy and Resources | | | |
|--|--|--|--|--|
| approvar is grainted | (ABN: 363 889 805 63) | | | |
| Approved action | Road upgrade to Rokeby Main Road from Oceana Drive in Howrah to Diosma Street in Rokeby, Tasmania [See EPBC Act referral 2011/6061] | | | |
| Variation | | | | |
| Variation of conditions of approval | The variation is: Delete condition 1 attached to the approval dated 19 August 2013 and substitute with the condition specified below. | | | |
| Date of effect | This variation has effect on the date the instrument is signed | | | |

Person authorised to make decision

name and position

Mahani Taylor

A/g Assistant Secretary

South-Eastern Australia Environment Assessment Branch

Signature

Date of decision

25/11/13

Conditions for substitution:

- 1. For the better protection of the swift parrot, the person taking the action must:
 - a) not remove more than 86 *Eucalyptus ovata* trees and one *Eucalyptus globulus* tree from inside the development footprint as shown in <u>Appendix A</u>;
 - b) only clear the *Eucalyptus ovata* trees referred to in condition 1(a) above, between the months of March to July, to avoid disturbance to **swift parrot** individuals; and
 - c) immediately prior to undertaking tree removal works on the Eucalypus globulus tree referred to in condition 1(a), engage a suitably qualified expert to ensure no swift parrot individuals are present.

Conditions attached to the approval

- 1) For the better protection of the swift parrot, the person taking the action must:
 - a) not remove more than 86 *Eucalyptus ovata* trees and one *Eucalyptus globulus* tree from inside the development footprint as shown in <u>Appendix A</u>; and
 - b) only clear the *Eucalyptus ovata* trees and *Eucalyptus globulus* tree, referred to in condition 1(a) above, between the months of March to July, to avoid disturbance to **swift parrot** individuals.
- 2) To compensate for the residual loss of swift parrot foraging habitat, prior to the one (1) year anniversary of commencement of construction, the person taking the action must engage a suitably qualified expert to undertake ecological surveys and an assessment, during an optimal ecological time, of the Bicheno proposed offset site to determine:
 - a) the intensity and extent of impacts of the 2013 fire event on the **Bicheno proposed offset site**. These surveys must provide a discussion of the results in relation to:
 - i) the historical fire frequency and intensity at the site; and
 - ii) the ecological role of fire at the site.
 - b) prospects for recovery (including recovery milestones and estimated timing) of the **Bicheno proposed offset site** in terms of quality and extent of **swift parrot foraging habitat**;
 - c) ongoing management measures (including methods, standards and schedules wherever relevant) required to maintain or improve **swift parrot foraging habitat** at this site.

The results of the surveys and assessment must be provided to the **department** within three (3) months of completion of the surveys.

- 3) In the event that the surveys required in condition 2 above show that the **Bicheno** proposed offset site does contain adequate swift parrot foraging habitat (as advised by the **Minister**), to compensate for the residual loss of swift parrot foraging habitat, prior to the three (3) year anniversary of the commencement of construction, the person taking the action must:
 - a) establish a reserve within the Bicheno proposed offset site, of no less than ten (10)
 hectares of swift parrot foraging habitat, using a legal mechanism appropriate to the
 long-term conservation of the site and approved in advance by the Minister;
 - b) commence implementation of the management measures, identified by the **suitably qualified expert** to maintain or improve **swift parrot foraging habitat** at this site under condition 2(c).
 - c) commence monitoring of the reserve, to be conducted by a suitably qualified expert during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - i) the success of the management measures to maintain or improve the **swift parrot foraging habitat** against the **baseline condition**; and
 - ii) changes in the quality of the **swift parrot foraging habitat** in the reserve against the **baseline condition**.
 - d) commence reporting to the **department**, annually until the expiry date of this approval, on surveys conducted under c) above; and

- e) outline any additional offsets or measures to maintain or enhance the **swift parrot foraging habitat** in the reserve against the **baseline condition**.
- 4) In the event that the surveys required in condition 2 above show that the **Bicheno proposed offset site** does not contain adequate **swift parrot foraging habitat** (as advised by the **minister**), to compensate for the residual loss of **swift parrot foraging habitat**, prior to the three (3) year anniversary of this approval, the person taking the action must:
 - a) identify a reserve of **swift parrot foraging habitat** in eastern Tasmania, or a location of equivalent or greater conservation measure, as agreed to by the **Minister**, that complies with the **department's offset policy**;
 - b) secure the site identified under a) above using a legal mechanism appropriate to the long-term conservation of the site and approved in advance by the **Minister**;
 - c) commence ongoing management measures (including methods, standards and schedules wherever relevant) as determined by a **suitably qualified expert**, required to maintain or improve **foraging habitat** for the **swift parrot** within the reserve;
 - d) commence monitoring of the reserve, to be conducted by a **suitably qualified expert** during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - the success of the management measures to maintain or improve the swift parrot foraging habitat against the baseline condition; and
 - ii) changes in the quality of the **swift parrot foraging habitat** on the reserve against the **baseline condition**.
 - e) commence reporting to the **department**, annually until the expiry date of this approval, on surveys conducted under d) above; and
 - f) outline additional offsets or measures to achieve the **swift parrot foraging habitat** against the **baseline condition**
- 5) For the better protection of the **blue (roadside) wallaby grass**, the person taking the action must not remove more than 0.6 hectares of **blue (roadside) wallaby grass** from inside the development footprint as shown in <u>Appendix B.</u>
- 6) For the better protection of the **blue (roadside) wallaby grass**, during **construction**, the person taking the action must:
 - a) implement construction exclusion zones of all **blue (roadside) wallaby grass** outside the development footprint as shown in <u>Appendix B</u> to prevent disturbance of the avoided populations. Construction exclusion zones must be:
 - i) identified on contractor drawings and provided to the department prior to construction; and
 - ii) marked with a flag line and signs during construction.
- 7) To compensate for the loss of **blue (roadside) wallaby grass**, prior to the two (2) year anniversary of the **commencement of construction**, the person taking the action must:
 - a) establish a reserve at the Mangalore proposed offset site using a legal mechanism appropriate to the long-term conservation of the site and approved in advance by the Minister;
 - b) plant no fewer than 24,000 **blue (roadside) wallaby grass** plants on site at Rokeby as shown in <u>Appendix C</u>;

- c) commence implementation of the management measures, identified by a suitably qualified expert, to ensure maintenance of the blue (roadside) wallaby grass population within both the reserve at the Mangalore proposed offset site, referred to in condition 6(a) above, and planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.
- d) commence monitoring of the reserve at the Mangalore proposed offset site and established blue (roadside) wallaby grass plants at Rokeby, to be conducted by a suitably qualified expert during an optimal ecological time, annually until the expiry date of this approval, to determine:
 - i) the success of the management measures to maintain no less than 7310 blue (roadside) wallaby grass plants at the Mangalore proposed offset site, referred to in condition 6(a) above, and to ensure establishment of no less than 75% of the planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.
- e) commence reporting to the **department**, annually until the expiry date of this approval, on surveys conducted under d) above; and
- f) outline any additional offsets or measures to maintain or enhance the blue (roadside) wallaby grass population within both the reserve at the Mangalore proposed offset site, referred to in condition 6(a) above, and planted blue (roadside) wallaby grass plants at Rokeby, referred to in condition 6(c) above.
- 8) The person taking the action must provide the **department** with **offset attributes**, **shapefiles**, textual descriptions and maps to clearly define the location and boundaries of the offsets required as a result of this approval. These must be provided within 30 days of the offsets being secured in perpetuity.
- 9) Within 30 days after the **commencement of construction** of the action, the person taking the action must advise the **department** in writing of the actual date of commencement.
- 10) The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, and make them available upon request to the department. Such records may be subject to audit by the department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the department's website. The results of audits may also be publicised through the general media.
- 11) Within three months of every 12 month anniversary of the commencement of construction of the action, annually until the expiry date of this approval, the person taking the action must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any management plans as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be notified to the department as soon as they occur.
- 12) Upon the direction of the **Minister**, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the **Minister**. The independent auditor must be approved by the **Minister** prior to the commencement of the audit. Audit criteria must be agreed to by the **Minister** and the audit report must address the criteria to the satisfaction of the **Minister**.

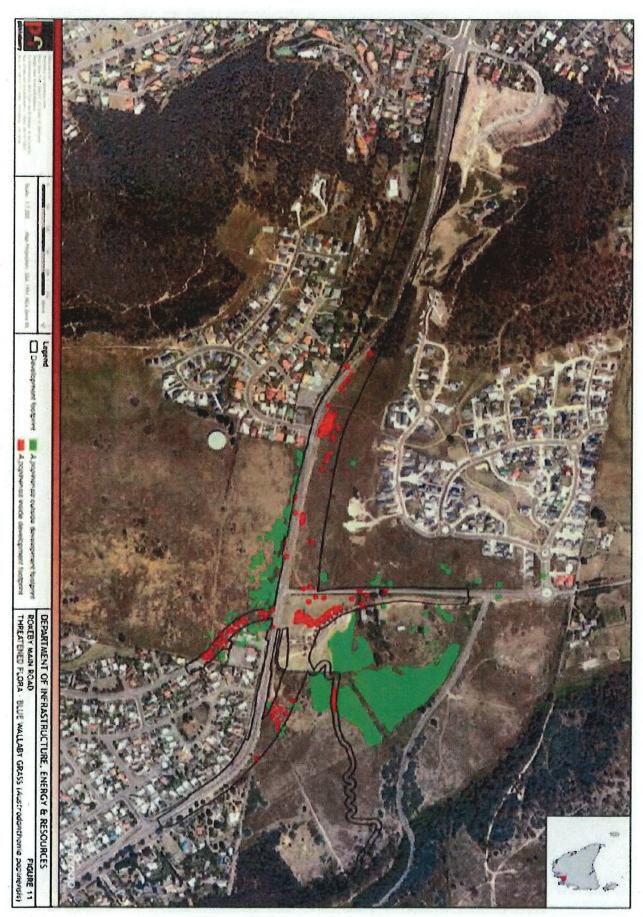
13) If, at any time after three (3) years from the date of this approval, the person taking the action has not **substantially commenced** the action, then the person taking the action must not **substantially commence** the action without the written agreement of the **Minister**.

Definitions

- **Baseline condition** means the condition of the *Eucalyptus ovata* forest and woodland (Tasmanian vegetation mapping unit: DOV) at <u>Appendix F</u>.
- Bicheno proposed offset site means the site located on private land south of Bicheno on the east coast of Tasmania, and identified as 'Field survey extent' at Appendix E.
- Blue (roadside) wallaby grass means the EPBC Act endangered species Rytidosperma popinensis (previously known as Austrodanthonia popinensis).
- **Commencement of construction** includes any preparatory works required to be undertaken including clearing vegetation, the erection of any onsite temporary structures, excluding fences and signage, and the use of heavy duty equipment for the purpose of breaking the ground for buildings or infrastructure excluding any signage or fences.
- **Department** means the Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act* 1999.
- **Department's offset policy** means the *Environment Protection and Biodiversity Conservation Act 1999* Environmental Offsets Policy (October 2012).
- EPBC Act means the Environment Protection and Biodiversity Conservation Act 1999.
- Mangalore proposed offset site means the site located at Mangalore on private land north of the junction of Ballyhooly Road and the Midland Highway, and identified as 'Offset for: Rokeby Main Road, from Oceana Drive in Howrah to Disoma Street in Rokeby (EPBC 2011/6061)' at Appendix D.
- **Minister** means the Minister administering the *Environment Protection and Biodiversity*Conservation Act 1999 and includes a delegate of the Minister.
- Offset attributes mean an '.xls' file capturing relevant attributes of the Offset Area, including the EPBC reference ID number, the physical address of the offset site, coordinates of the boundary points in decimal degrees, the EPBC protected matters that the offset compensates for, any additional EPBC protected matters that are benefiting from the offset, and the size of the offset in hectares.
- Shapefiles means an ESRI ArcGIS Shapefile, containing '.shp', '.shx.' and '.dbf' files and other files. Shapefiles must include appropriate metadata capturing attributes including but not limited to the EPBC reference number of the approved action and details of the EPBC protected matters present within the offset, covenant or legal protection details, including type and identification. The department prefers shapefiles using the Geocentric Datum of Australia (GDA) 94.
- **Substantially commence** means the erection of any permanent infrastructure excluding signage and fences, associated with the action.
- Suitably qualified expert means one or more botanists, ecologists, or environmental scientists with relevant valid qualifications and at least two years of demonstrated expertise in the surveying and management of blue (roadside) wallaby grass or swift parrot, and who is independent to the person taking the action.
- Swift parrot means the EPBC Act listed endangered species Lathamus discolour.

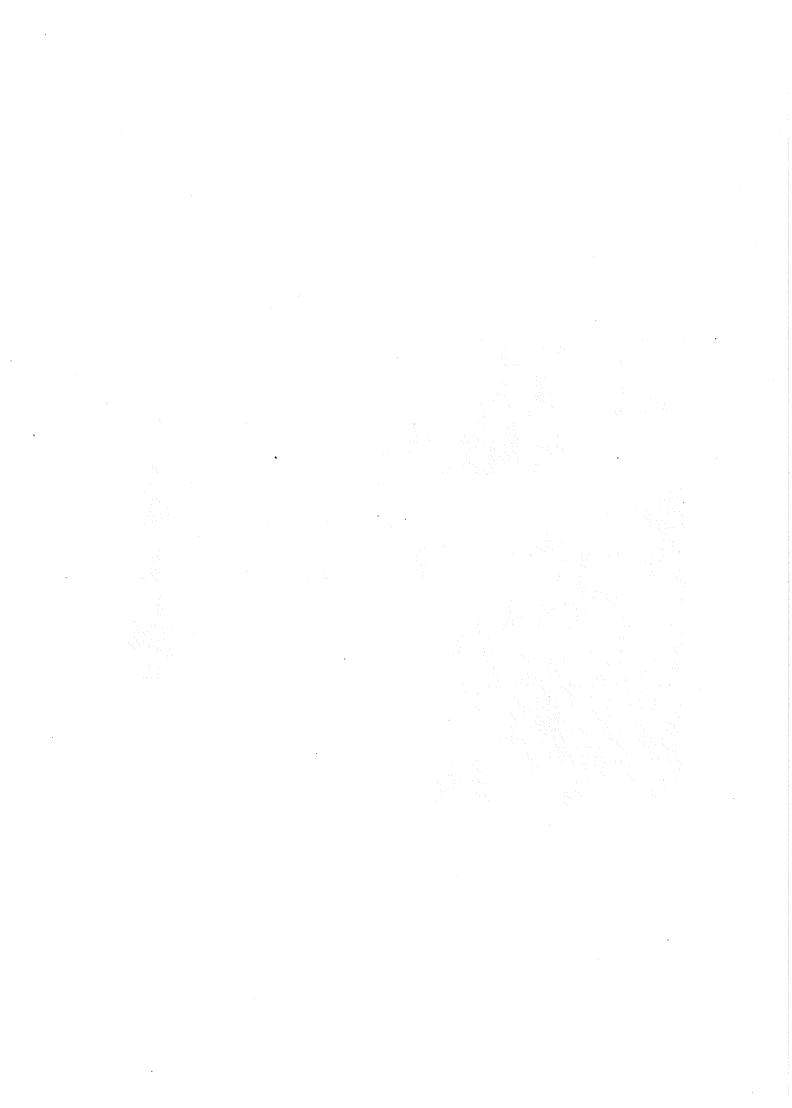
Swift parrot foraging habitat means grassy blue gum (*Eucalyptus globulus*) forest and/or grassy/shrubby swamp gum (*Eucalyptus ovata*) forest of a quality agreed with the **department**.

Appendix A:

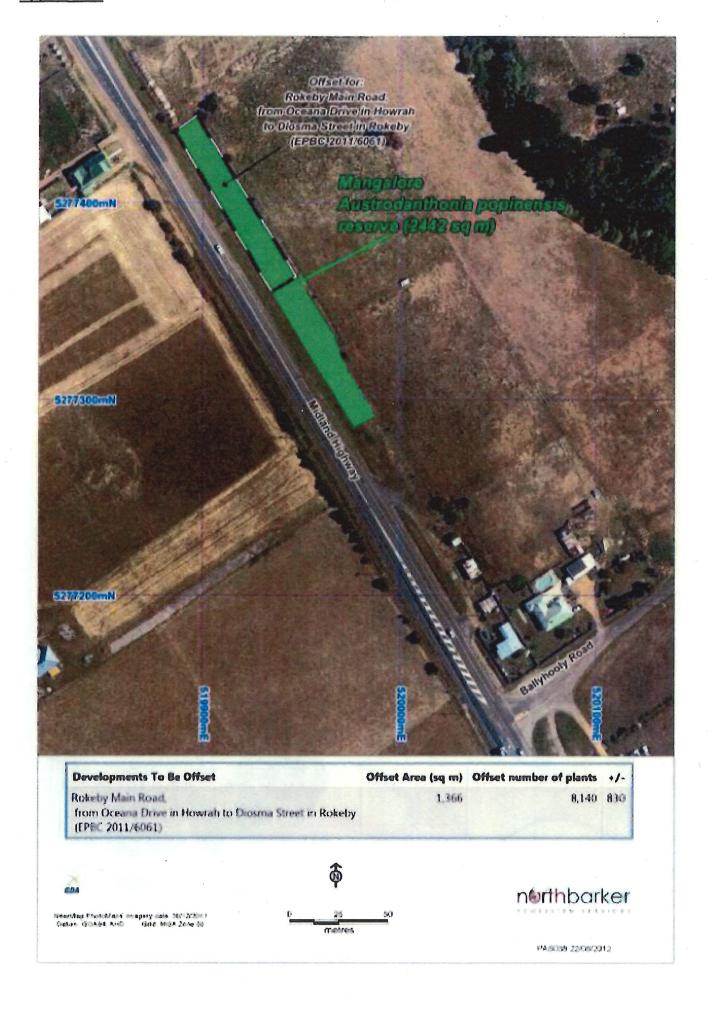




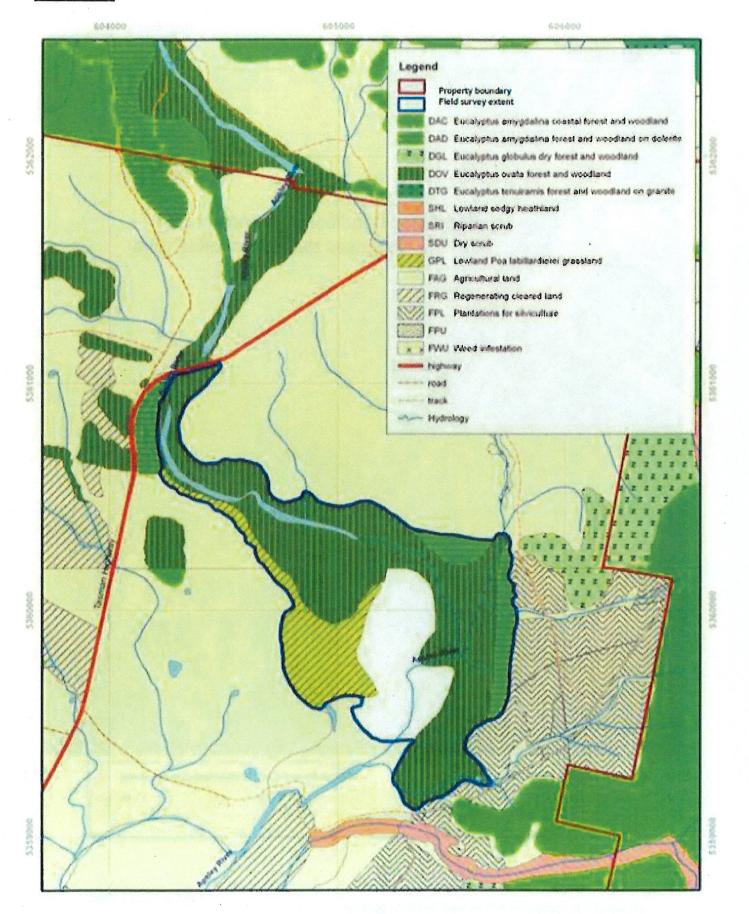
Page 9 of 11



Appendix D:



Appendix E:



Appendix F:

Appendix E

Vegetation Condition Assessment (VCA) - Proposed swift parrot offset area

TASVEG

FOREST VEGETATION

(including woodlands, rainforests and non-eucalypt forests)

Vegetation Condition Assessment Form V1.0

| Lorge Trees observed large trees Among John Score Lorge Trees Observed large trees Among John Score Lorge trees Among John Score Lorge trees are defined to benchmark | | OV | | Appley F East C Assessori | | | Pi O/ | REPERENCE (or | c):_ | |
|---|--|-------------------------------------|----------------------------|---------------------------------|--|--|---|--|--------------------------------------|---------------|
| Nerth present | Large Trees observed for | 2 trees . 2 | 9 | | Underste | rey Life F | orm Life (| s 9 | | |
| Nema present O D D Note 20% of the benchmark IT | Category & Description | 526 | 187 | | Prests | DEMONS | | ubscryed/ | | Modified |
| Sol to 20% of the benchmark number of large trees/he and a substitution of large trees/he and the benchmark number of large trees/he and the large trees/h | Neno present | 0 | 1 0 | | | | | | \$100.00 | Egine? |
| 20% to 40% of the benchmark number of large trees, the difference trees of the benchmark number of large trees, the difference trees of the benchmark number of large (b) 9 8 Lorge trees are diffined by demeter at broad large (cbn) - see benchmark fearing does not receive the difference of the control of t | >0 to 20% of the benchmark | | 1 | | | | - | | The second second | |
| number of large press/hp 4 3 2 40% to 70% of the benchmark number of large treas/ha 6 5 4 70% to 100% of the benchmark number of large treas/ha 6 5 4 70% to 100% of the benchmark number of large treas/ha 6 5 4 70% to 100% of the benchmark number of large treas/ha 6 5 4 7 6 6 5 5 4 7 6 6 4 7 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 4 7 6 6 4 1 2.0 / 5 5 6 file forms present and an appeared healthy convey cover that is present unit of the second healthy convey cover that is present unit of the second healthy convey cover that is present unit of the second healthy convey cover that is present unit of the second healthy convey cover that is present unit of the second healthy convey cover that is present to 100 and 100 a | >20% to 40% of the bearboard | 3 | - 3 | | The second secon | - | - | The state of the s | - | |
| PS / State S | number of large trees/he | 4 | 1 3 | 2 | 5 | 11/ | 4 | 30/15 | ~ | |
| > 70% to 10% of the benchmark B 7 | | | | | ACCUPANT OF THE PARTY OF THE PA | | - | | | |
| Lorgo frees bra defined by dismeter at broad higher (dbn) - see benchmark resimble preparties of an expected benchmark convey cover that is present (d), not meaning due to tree death or detine) Tree Cancey Cover Benchmark | >70% to 100% of the benchmer | h l | 1 - | | | - | | | | |
| LSR 3 30/20 V Long trees are defined by diameter at broad hight (dbn) - see benchmark sestimate properties of an especial healthy concey cover that is present LSR 3 30/20 V MSR // // Tree Canopy Cover Senichment Mark Cover Cover Senichment Cover 0 0 0 0 Company & Description Cover 10% of benchmark Cover 0 0 0 0 Cover Soft or s150% of benchmark 3 2 1 Cover Soft or s150% of benchmark 3 2 1 Tree canopy cover is defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those covers that is present Cover Cover (a defined as those cove | number of large trees/ha | | 7 | 6 | | | 6 | | ~ | |
| Solve or \$150% of benchmark \$20% or \$150% of benchmark \$30% | trens/ha | (60) | | | A AND DESCRIPTION OF THE PARTY | The same of the same of | _ | | - | |
| Seechment III. 19. Observed cover III. 19. Score 5 Seechment III. 19. Observed cover III. 19. Score 5 SCE 1/1 45/45 ML / N/A 5/5 ML / N/A | "estimate proportion of an expected by | mades welles | t (dbn) - s r cover the | ee benchmark t is present | The second second | 3/ | 3_ | 30/20 | 4 | |
| C10% of benchmark cover 0 0 0 0 0 C C C C C C C C C C C C C C | Tree Canepy Cover | 40 | . Sco | ~ 5 | TF | 2/ | 2 | 1 | | 7 |
| C10% of benchmark cover C50% or >150% of benchmark 3 2 1 Presunt Any speciment cover of the continuous cover of the | | | | | | 100 | i | | 3 | |
| Cooper of Notice of Section 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Category & Description | | | | | / 81 | 10 | 0 / 3 | - | |
| | cannot be a beautiful and a service | | The second second | | 32 | | | Total | - 24 | |
| 250% or \$150% of benchmerk (5) 4 3 Madified Madified Lack of Weeds Chested weeds (6) 5 000 Chested weeds (7) 6 4 Chested weeds (8) 6 4 Chested weeds (9) 6 4 Chested weeds (9) 6 6 Chested weeds (9) 6 6 Chested weeds (9) 7 6 4 Chested weeds (9) 8 6 Chested weeds (9) 9 0 Ch | | | - | - | | | | | - | |
| All streta and life forms effectively obsent 250% or \$150% of benchmark (5) 4 3 Radified 1520° | | 3 | 2 | 1 | Protect and | forms with 20 | e ches | rese | | is present if |
| Lacks of Weeds Cheaned used cover of weeds 7 6 4 Unto 50% of life forms present 100 50% of | cover | | | | | MIDS WILL DO | **** | | | |
| Category & Command Life forms present 100,45 Score 2, O | or mature recent - see concernant des. Testimetes projection of an expected in (10 hot research of the content of the | algeron soldry concepy cline) | dever that | 34 present | ores use all form but all form but property | To represent the second | ningly ningly non if non if non a | matura aperment a to cover of t 10% (the Ale farm have! to cover or ark aperies diversity | ore observed ore considers the | r a |
| Description | Observed high threat weeks | 100 % | Score | 11 | Unders | torov Sun | neme | D. | | |
| > 75% cover of weeds 0 0 0 0 25-75% cover of weeds 4 2 0 10-25% cover of weeds 7 6 4 Up to 50% of life forms present 5 of those present 250% | | - | | Andrews Print Labour St. | | | | | Score | 20 |
| > 75% cover of weeds 0 0 25-75% cover of weeds 4 2 0 10-25% cover of weeds 7 6 4 Up to 50% of life forms present 5 of those present 250% | | PROPER | \$ 80% | 3:50% | Catego | ry and thes | riplic | M | | |
| 10-25% cover of weeds 7 6 4 Up to 50% of life forms present 5 | > 75% cover of weeds | 0 | 0 | 0 | All etcas | n and ldn 4 | | | HWIN HIS DESIGNATION | - |
| of those present >50% | 25-75% cover of weeds | 4 | 2 | 0 | A La Francis | | | P. A. Phospicals | | 0 |
| | 10-25% cover of weeds | 7 | 6 | 4 | Up to 50 | of life for | | | | 5 |
| | 5-10% cover of weeds | 11 | 9 | 7 | >50% to | 90% of life | | | | 30 |
| 65% cover of words 1 15 13 (G) forms present of those present, <50% | | 15 | 12 | - | | | of | those present, | 50% | |
| Superior designation of the superior su | Proportion of mand course does to had, the | 7.0 | 13 | | | | | | | 15 |
| >90% of life forms substantially modified 15 | High Minist weed species are defined as | introduced a | president (Invol | lydels. | | tife forms | | | | 15 |
| A hat of high threat weeds in Tasmania is provided in the TASVEG Vegetation A hat of high threat weeds in Tasmania is provided in the TASVEG Vegetation Of those present, <50% substantially modified of those present, none | species based as high shroot woods in Yaor. A list of high shroot woods in Yaornania is | MACCO. | | | present | | SUD | stantially modific | ed | |

Vegetation Condition Assessment Form V1.0

FOREST VEGETATION

Species Recruitment

| Woody species recorded in hobitst zone (5 and tailer) | Adequate rechalment (4) |
|--|-------------------------|
| Canoniv trees (combined species) | 1 |
| Acucia atricta. | V |
| Acacla verticillata | 1 4 |
| Accords declined | W |
| Allacasvarias Witheralis | 4 |
| Calliffia ebloses | 1 4 |
| Callifels showholdes | 4 |
| Executes cuspressitores) | W |
| Pomadeltia agistila | N |
| Lestospersum lanigerum | - |
| Leator permission acomposing | 1 " |
| Visialius a ericifelia | - |
| Total recruiting species | 112/12 |

Treat the control of the control of

Organic Litter

| Category & Description | Distributed by native organic litter | Consented by son-native drgasic litter |
|-------------------------|--|--|
| <10% of benchmark cover | 0 | 0 |
| <50% of benchmark cover | 3 | 2 |
| 250% of benchmark cover | 0 | 4 |

Litter to defined as dead organic material detected from the parent plant, including plant debrie, fellon feaves and timigs <10cm

| lecruitment | | | Score | 10 |
|---|--|---|------------------------------|--------------------|
| Category B.D | escription | | STATE OF THE PERSON NAMED IN | Line diseasely* |
| | within communi episodic events | ny met annuen by | 0 | 0 |
| No evidence of a recruitment cohort** | within community driven by speeds | clear evidence of appropriate eposition | 0 | b |
| A | events* | evidence of appropriate | 5 | 5 |
| Evidence of at least one | Propertion of regive woody mostles | <30% | 3 | 1 |

 cohest' refers to a group of woody plants established in a single epinolis (can include subcreased commy section includes).

Con include suppressed and a series of the s

*high diversity defined as x50% of benchmark woody species diversity.

| Logs Sunchmerk top lampth | | | 5 |
|------------------------------|-----------------------|-------|---|
| Benchmark tog tempth | Observed length deals | Score | 9 |

| Category & Description | Large logs present* | Large logs aband# | |
|---------------------------|------------------------|----------------------|--|
| <10% of benchmark length | 0 | 0 | |
| < 50% of benchmark length | 3 | 2 | |
| 50% of banchmark length | 0 | 4 | |

Large tops defined as these with diameter JOS of borichmerk large tree DBH

* present if large log length is 25% of benchmark log length

Landscape Context Score

| Petch Size | Paren aim 60 ha | Score | 8 |
|-----------------|------------------------------|-------|----|
| Category & D | exception | | |
| < 2 ha | | | |
| Botween 2 and | S ha | | 2 |
| Detween 5 and | 10 ba | | 4 |
| Detween 10 an | d 20 ho | | 6 |
| 220 ha, but '85 | anthcantily disturbed's | | 1 |
| | t 'significantly disturbed'* | | 10 |

Ing pooch is the dis-(sume), regardless of activities such as graphy, timber harvesting, reading, fuel reduction burning or Phytophthera infection have accurred. Effectively mos

FINAL HABITAT SCORE

| | | '61 | tu Co | nditlo | n Goo | no' | | "Lo | ndsci lonies Score | ipo it | |
|-------|----------|--------------|--------------|--------------------|------------|--------------|---|--------|--------------------------|------------------|-------|
| 1 | po Trees | o Compy Come | ck of Wester | deministry Summary | crutiment. | gente Litter | | on San | geometrade | time to One Area | TOTAL |
| 8 | 3 | 1 | 3 | 5 | - | 0 | 3 | 2 | 2 | 0 | /100 |
| Censo | 10 | 5 | 11 | 20 | 10 | 5 | 5 | 8 | 12 | 14 | 80 |

Neighbourhood

Score

2

| Radius from sites | % Ngtive vegetation* | Weighting | |
|----------------------|---|------------------------------|-----|
| 100 m | 20 | 0.03 | 0.6 |
|) km | 40 | 0.04 | 1.6 |
| 5 km | 60 | 0.03 | 1.8 |
| Colors | us 2 if the neighbor significantly distuit | urtwood is bed | -2 |
| | A | id Values and 'round-off' | 2 |

*to nearest 70%

Multiply % righter registration it was a few tools from the few tools and the few tools and the few tools are the few to

Distance to Core Area Score

| tentestrus on the | munite | |
|-------------------|---|----------------------------|
| Distance | Care Area rist significantly staturant* | Care Area significantly |
| > 5 lum | 0 | 6 |
| 1 to 5 km | 2 | 1 |
| < 1 km | 4 | 3 |
| contiguous | S | 0 |

A 'core area' is native vegetation > 50 he regardens of type, condition o tenure. Includes nation vegetations and along, usualness and more * significantly data and see definition under patch see.

TASVEG

FOREST VEGETATION

(including woodlands, rainforests and non-eucalypt forests)

Vegetation Condition Assessment Form VI.0

| STE NAME: | | - 1 | tysky Ri End toc | iver | 100 | IP : ID REFERENCE (or | entro of sc | 110): |
|--|-------------------------------------|-------------------------|-------------------------|---------------------------------------|---|--|------------------|--|
| TASVEG VC CODE: DO | Section of the second of the second | | | 160 T | man and a second | | | |
| SIZE of sone (ha): 24 | | | esson: | | GF. | DATUM (CITYIP OD WOSB4 / OI | | ACID66 |
| | | | - A 1- | 0:44 | Q L.u | | | |
| сонивить: энфлира | Torest | seed 7 | ar utas | any when. | ABOUTH A | bornt c. Z | A.2 . W | 10. |
| *************************************** | | Site (| ondition | Score | | ****************** | •• | |
| arge Trees Cheerved large | 20 0/2 | Score | 7 | 04 | rey Life Fo | rime to forms | observed) | |
| stegory & Description | - | Cancey Has | Child a | LF code | 2 190 | % cover | | |
| | > 20% | 50-70% | 530% | From bornshorack | abservior benchmark | | Present | Mode |
| one present | 0 | 0 | 0 | | F see | % cover | | |
| to 20% of the benchmark | | The second second | | IT | 1 / n | Problem Commonwell (Special Common Co | ~ | |
| mber of large trees/ha 10% to 40% of the benchmark | 3 | | 1 | T | 5/5 | 25/40 | 7 | - |
| mber of large trees/ha | 4 | 3 | 2 | S | 5/4 | 10/15 | 7 | |
| mber of large trees/ha | 6 | 9 | 4 | PS | | 1 | - | - |
| 0% to 100% of the benchmark wher of large trees/ha | | 0 | | Н | 7/6 | 45/45 | J | - |
| he benchmark number of large | 1 | | - | l G | 7/6 | 5/45 | J | |
| es/ha | 10 | 9 | 1 | LSR | | The state of the s | | |
| ge trees are defined by diameter at b timate proportion of an expected has | TO - COCOON A | den) - see to | prichingrik omdere | MSR | 4/3 | 40/20 | 7 | 200 |
| not missing ove to tree eacts or dec | ling) | | | Annual State of the Associated Common | 2 / 2 | 16 110 | | |
| eo Canopy Cover | | | | GF | 2/2 | 45/10 | 7 | V |
| to beyond of the manual | w. 25 | Score | 4 | TF | - / | 100,00 | | |
| | | | | SCE | 1 | 48/45 | 4 | POPE AND DESCRIPTION OF THE PARTY OF THE PAR |
| tegory & Description | No. | Campy Ha | | ML SC | 4/2/ | 10/5 | 4 | |
| | 1200 | MAN. | 1.530% | SC | 1 | Yotal | 9 | |
| 0% of benchmark cover | P | 0 | 0 | | | | | |
| 0% or >150% of benchmark for | 3 | 2 | 1 | Present And | forms with bene | Rmare count of , 10% | | |
| 1% or £150% of benchmark | | 0 | 3 | Market Life | fore-s mitt bres | - al reast 10% of Benef -mark topper at + 18% (| to considera | 4 |
| ro canopy cover is defined as those cor moture height - see benchmark descri- | stion thy canopy co nai | iver that is p | | | AP POPTOGUETO | is if the ite turn has eitem name species diversite die name species diversite him are considered and in the first term has extended to the form has extended and the form has extended and the form of the first species diversity. | | |
| test fromming due for free sheath or decid | 00 | | 7 | | | | | |
| act of Woods 5 = 10 % therval wast grow 5 = 10 % Cheerval high threat wasts . | ACCOMPANIES SPECIAL | THE PERSONNEL PROPERTY. | 7 | | torey Sumi | | | 20 |
| set fromming dust for firme sheaths or decid | 'bept' t | hrtos velact | | | torey Sumi | mary | Score | 20 |
| Catagory & Consciption | 'bept' t | break weeks | 50% | Sen | torey Sumi | no present 100.% | Score | 20 |
| Category & Description | feans s | SON S | 0 | Catego | toray Sumi diment tile ten | no present 100.% | Score | 2.0 |
| Chaptery & Doney Story & Doney & Story & Doney | factors s | 0 2 | 0 0 | Cotago All strat | toray Surni chimerh Life for y And Descri n and life form | ption s effectively absent | Score | 0 |
| Chaptery it. Description Consumer in the control of the control o | flaces s | 0 2 6 | 0 0 4 | All strat | toray Surmi chimeri Elle form a and life form | ption s effectively absent s present of those present | 50% | 0 5 |
| cht of Woods \$ = 10 % Observed high threat weeks Category is breatyption 15% cover of weeds 25% cover of weeds 25% cover of weeds 0% cover of weeds | factors s | 0 2 | 0 0 | All strate Up to 50 | therey Sumi chart Life for a and life form 1% of life form | ne present IO.V | 50% | 0 |
| Chief Weeds 2 - 10 % Observed high threat wants . Catagory is Description 75% cover of weeds 25% cover of weeds 25% cover of weeds 0% cover of weeds is cover of weeds | 0 4 7 11 15 | 0 2 6 | 0 0 4 | All strat | therey Sumi chart Life for a and life form 1% of life form | s effectively absent s present of those present a substantially modified those present, substantially modified the substantial substantially modified the substantial substanti | 50% ed 50% | 0 5 |
| ock of Woods & - 10 % Convert high threat wasts . Conspory it | 1 15 | 0 2 6 9 13 | 0 6 4 © | All strate Up to SC 250% to forms pr | therey Sumi chart Life for a and life form 1% of life form | s effectively absent s present of those present a substantially modified of those present, | 50% ed 50% | 0 5 |

Vegetation Condition Assessment Form V1.0

FOREST VEGETATION

Species Recruitment

| Woody species recorded in habital zone (5 and taller) | Adequate secratment |
|--|------------------------|
| Carriagy brees (combined agestion) | J |
| Atalia melanowalon | W |
| Acuria dealbath | V |
| treaths werticitate | 4 |
| Savella marginaria | ~ |
| Contraction to later | V |
| Milalauca and sitely | 4 |
| Malatures arturesses | 4 |
| Gleans Kinda | 1 4 |
| Pomotes's applied | - |
| | |
| | 10/10 |

Cold many processing of concept species and processing of concept species and control of concept species and control of concept species and control of con

Benchmerts 90 % Observed Inter 40 % Score

| Category & Geneription | Dominated by native organic litter | Destinated by since eather organic filter |
|--------------------------|--|---|
| < 10% of benchmark cover | Ü | 0 |
| <50% of benchmark cover | 3 | . 2 |
| 250% of benchmark cover | 0 | 4 |

Letter is defined as dead organic manual mass of the parent parent sincluding plant debris, fellon leaves and twips « 10cm.

Recruitment

| Category & C | rescription | | Shangs. | Soor Story |
|---|--|--|---------|------------|
| | within community | ly not driven by | G | .0 |
| No evidence of a recommend subject? | sylchion openiturally driven by episodic events* | clear evidence of appropriate episodic event no clear energy | 5 | 5 |
| Evidence of at | Proportion of native woods | <30% | 3 | l l |
| report in at | species present that | 30 - 70% | 6 | 3 |
| least one ide form | nave adequate | 270% | (10) | 5 |

e cohort ratios to a g (can include suppress Freter to benchmen's () Preter to benchmen's () Preter defined as 150% of benchmer's woody species diversity

| Logs | | | |
|------------|------------|---------------------|------|
| | 110 | 33 | |
| Benchmerte | ton tonoth | Observed tongth 37. | Scor |

| | | e | |
|--|---|---|--|
| | 3 | ũ | |
| | p | ١ | |

| Category & Description | Large logs present* | Large logs absent# |
|--------------------------------------|------------------------|-----------------------|
| <10% of benchmark length | 0 | 0 |
| <50% of benchmark length | . 3 | 2 |
| ₃ 50% of benchmark length | 0 | 4 |

Large logs defined as those with dismeter 30.5 of benchmark large tree DBH * present if large log langth is 25% of benchmark log langth a absent if large log langth is <25% of benchmark log langth

Landscape Context Score.....

| Category & Description | |
|--|----|
| < 2 ha | 1 |
| Between 2 and 5 ha | 3 |
| Between 5 and 10 ha | 4 |
| Between 10 and 20 ha | 6 |
| 20 ha, but 'significantly disturbed's | 0 |
| 220 ha, but not 'eignificantly disturbed's | 10 |

(Sone), reperties of EVC, Consistent of fand stemure (includes emploring, foldung, firefulles extention) if exclusive such as graining, timber harvesting, foldung, fuel reduction burning of Paparties within financial and

FINAL HABITAT SCORE

| | "One Condition Scare" | | | | 'Landscape Context Score' | | | | | | |
|---------|-----------------------|------------------|----------------|-------------------------|---------------------------------|----------------|-------|--------------|---------------|------------------------|-------|
| - | Party Press | Thee Campy Cover | Lack of Wreets | (Independency Commence) | Recolument | Organic Litter | Legis | Partiti Sare | Reighbourhald | Settement to Come from | TOTAL |
| General | 7 | 4 | 7 | 20 | 10 | 5 | 5 | 8 | 2 | 4 | 72 |

Neighbourhood

| Redoct from site | % Notive vegetation* | Weighting | |
|---------------------|-------------------------|-----------|-----|
| 100 m | 20 | 0.03 | 0.6 |
| 1 km | 40 | 0.04 | 1.6 |
| 5 km | 60 | 9.03 | 1.8 |
| SULLEY | - 2 | | |
| | 2 | | |

*to nearest 20% Nutticly % native vegetation k weighting for each radius from the zone (eg) 40% x 0.03 ~ 1.2), then add values to obtain finel fleighbjurhead

| Marauca co Co | THE PARTY IS | | | |
|---------------|--|---|--|--|
| Distance | Core Area not significantly disturbed* | Core Area agnificantly disturbed* | | |
| > 5 ken | 0 | 0 | | |
| 1 to 5 km | 2 | 1 | | |
| < 1 lm | 4 | 3 | | |
| contiguous | 5 | 0 | | |

A core area is native vegetation > 50 ha regardless of type, condition tenure. Includes natural wellends and lakes, estudies and rivers "'agnificantly disturbed are definition under patch sare."



VARIATION TO CONDITIONS ATTACHED TO APPROVAL

Rokeby Main Road Upgrade, Howrah and Rokeby, Tasmania (EPBC 2011/6061)

This decision to vary conditions of approval is made under section 143 of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

| Approved action | |
|--|---|
| Person to whom the approval is granted | Tasmanian Department of Infrastructure, Energy and Resources |
| Proponent's ABN | 363 889 805 63 |
| Approved action | Road upgrade to Rokeby Main Road from Oceania Drive in Howrah to Diosma in Rokeby, Tasmania [See EPBC Act referral 2011/6061] |
| Variation | |
| Variation of conditions of | The variation is: |
| approval | Delete conditions 5, 6, & 7 |
| | Delete Appendix B, C & D |
| | Delete Definition Blue (roadside) wallaby grass and Manga/ore proposed offset site |
| Date of effect | This variation has effect on the date the instrument is signed |
| | |
| Person authorised to | make decision |
| name and position | |
| | Shane Gaddes Assistant Secretary |
| | Compliance and Enforcement Branch |
| Signature | S. Gaddes |
| Date of decision | fr t 06 / 2016 |





2018 MONITORING REPORT – SWIFT PARROT OFFSET

| Location | 466 EAST BAGDAD RD BAGDAD TAS 7030 |
|-----------|------------------------------------|
| Date | 14/11/2018 |
| Personnel | Matt Taylor, Sally Bryant |

<u>AIM</u>

To evaluate whether swift parrot habitat has been maintained or improved over the past year and any subsequent changes since monitoring commenced in 2016.

METHODS

| Habitat condition | Fixed photo-points at four sites on the property were re-surveyed (see map). A photograph was taken of the ground layer, understorey and canopy at each site. Structural complexity was calculated as the number of vegetation strata observed at each site. Recruitment was calculated as the number of cohorts per site. Canopy cover was estimated as a percentage for each site. |
|-------------------|--|
| Bird Diversity | Two 20 minute 2 ha bird surveys were conducted at and while walking between two pairs of sites. Birds were recorded as present if they were heard or sighted. This survey methodology follows that used by BirdLife Australia for the Atlas of Australian Birds (www.birdsaustralia.com.au) for the two hectare search. |

East Bagdad Rd - Swift Parrot Offset Monitoring Swift Parrot Monitoring Site Eucalyptus globulus dry forest (DGL) Eucalyptus obliqua dry forest (DOB) Eucalyptus pulchella forest (DPU) Title Ref: 214709/1 Data Sources: TLC, LIST, DPIPWE Datum: GDA94 Map Date: 20/10/2017 Author: Matt Taylor

1:10,000



RESULTS

The fauna values have been maintained and vegetation values show slight improvement since the previous survey. Some disturbances were noted at DGL1 approximately 100 m from the survey site due to a recent property subdivision resulting in loss of trees, roading and associated infrastructure by the new owners (Fig 1). This may well influence fauna in the future particularly leading to an increase in larger predatory birds displacing ground and understory species. Any loss of established especially mature tree trees and including ongoing harvesting of timber for firewood will potentially have a detrimental impact on swift parrot and their likelihood of breeding at this site. No swift parrot were detected during this 2018 survey.

2018 Bird Diversity

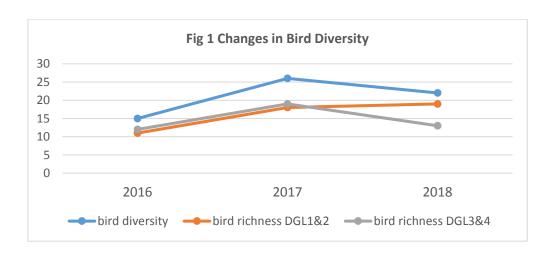
During surveys in 2018, bird richness per site was 13 to 19 species with a total bird diversity for the property visit of 22 species. This compares favourably with 11 to 12 species per site in 2016 and 18 to 19 species per site in 2017 suggesting a fairly steady state of bird species at the higher end of site richness. A total of 32 bird species have been detected over the three year period. Species diversity has increased from 15 species in 2016 to 26 species now at 22 species again suggesting an improved species diversity over the three year duration of the property visits. A total of 4 new bird species (highlighted in yellow, Table 1) were identified across the two survey zones in 2018 and suggests that an even greater diversity of species is likely to be recorded over time with repeat site visits. However, 8 species were not detected this year and while it is too early to suggest this is of concern, these species should be targeted in following seasons. Another notable difference is that DGL1&2 contain greater diversity than DGL3&4 especially in the small to mid-sized sized species. DGL1 & 2 are in closer proximity to a dwelling containing water and exotic garden plants which may be influencing results.

No eucalypt flowering was observed during the site visit at either this property or across the neighbouring reserve more generally. This equates to the low number of honeyeaters and small number of individual birds and that no swift parrot were detected in the vicinity. An abundance of mature and mixed aged trees on site, many with fire scars and wind damage, offer ample nesting sites for swift parrot during a good flowering year.

Comparison over three years is shown in Table 2 and Fig 1. Nine species have been detected on each year of survey. The uniformity and physical closeness of the sites suggests the bird fauna on the property would be found consistency in both zones. As monitoring progresses it may be possible to detect differences and undertake more sophisticated analysis.



| Table 1 two ha bird surveys at monitoring sites 14/11/2018 | | | | | | |
|--|------------------------------|-------------|-------------|--|--|--|
| Taxon name | Taxon scientific name | Site | Site | | | |
| E – endemic | | DGL1 & DGL2 | DGL3 & DGL4 | | | |
| Sulphur Crested Cockatoo | Cacatua galerita | calling | seen | | | |
| Tasmanian Green Rosella E | Platycercus caledonicus | calling | | | | |
| Tasmanian Superb Fairy-wren | Malurus cyaneus | calling | | | | |
| Spotted Pardalote | Pardalotus punctatus | calling | calling | | | |
| Tasmanian Striated Pardalote | Pardalotus striatus | calling | calling | | | |
| Yellow-throated Honeyeater E | Lichenostomus flavicollis | calling | calling | | | |
| Tasmanian New Holland Honeyeater | Phylidonyris novaehollandiae | calling | | | | |
| Grey Currawong | Strepera versicolor | | calling | | | |
| Black Currawong E | Strepera fuliginosa | calling | calling | | | |
| Tasmanian Grey Fantail | Rhipidura fuliginosa | calling | calling | | | |
| Southern Forest Raven | Corvus tasmanicus | calling | calling | | | |
| Grey Shrike-thrush | Colluricincla harmonica | calling | calling | | | |
| Australian Magpie | Cracticus tibicen | calling | | | | |
| Grey Butcherbird | Cracticus torquatus | calling | | | | |
| Laughing Kookaburra | Dacelo novaeguineae | | calling | | | |
| Yellow Wattlebird E | Anthochaera paradoxa | calling | | | | |
| Dusky Robin E | Melanodryas vittata | calling | | | | |
| Eastern Spinebill | Acanthorhynchus tenuirostris | calling | calling | | | |
| Rooster (domestic) | Gallus domesticus | calling | calling | | | |
| Pallid Cuckoo | Cacomantis pallidus | | calling | | | |
| Golden Whistler | Pachycephala pectoralis | calling | | | | |
| Brush Bronzewing | Phaps elegans | calling | | | | |
| Species Diversity 26 species | Species Richness per site | 19 species | 13 species | | | |





| Table 2 Comparative Data Bird surveys 2016 – 2017 - 2018 | | | | | | |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Taxon name E – endemic | 2016 DGL1/L2 | 2017 DGL1/L2 | 2018 DGL1/L2 | 2016 DGL3/L4 | 2017 DGL3/L4 | 2018 DGL3/L4 |
| Sulphur Crested Cockatoo | Х | Х | Х | Х | Х | Х |
| Southern Forest Raven | Х | Х | Х | Х | Х | Х |
| Spotted Pardalote | Х | Х | Х | Х | Х | Х |
| Striated Pardalote | Х | Х | Х | Х | Х | Х |
| Yellow-throated Honeyeater E | Х | Х | Х | Х | Х | Х |
| Tasmanian Green Rosella E | Х | Х | Х | Х | Х | |
| New Holland Honeyeater | Х | Х | Х | Х | | |
| Grey Fantail | Х | Х | Х | Х | | Х |
| Superb Fairy-wren | Х | Х | Х | | Х | |
| Black-faced Cuckoo-shrike | Х | | | Х | Х | |
| Black-headed Honeyeater E | Х | Х | | Х | Х | |
| Grey Currawong | | Х | | Х | | Х |
| Noisy Miner | | Х | | Х | | |
| Eastern Spinebill | | Х | Х | | Х | Х |
| Dusky Woodswallow | | Х | | | Х | |
| Strong-billed Honeyeater | | Х | | | Х | |
| Scarlet robin | | | | | Х | |
| Laughing Kookaburra | | | | | Х | Х |
| Yellow Wattlebird E | | | Х | | Х | |
| Brown quail | | | | | Х | |
| Dusky Robin E | | | Х | | Х | |
| Black Currawong E | | | Х | | Х | Х |
| Fan-tailed Cuckoo | | | | | Х | |
| Shining Bronze-Cuckoo | Х | | | | | |
| Brown Goshawk | Х | | | | | |
| Grey Shrike-thrush | | Х | Х | | | Х |
| Australian Magpie | | Х | Х | | | |
| Grey Butcherbird | | Х | Х | | | |
| Golden Whistler | | | Х | | | |
| Brush Bronzewing | | | Х | | | |
| Pallid Cuckoo | | | | | | Х |
| Rooster (domestic) | | | Х | | | Х |
| Species Diversity 32 sp | 13 | 18 | 19 | 12 | 19 | 13 |

2018 Habitat Condition

| Habitat condition | | | | | | | |
|-------------------|-----------------------------------|-----------------------|---------------------|--|--|--|--|
| site | structural complexity (strata) | recruitment (cohorts) | canopy cover (%) | | | | |
| DGL1 | 6 | 3 | 55 | | | | |
| DGL2 | 7 | 3 | 50 | | | | |
| DGL3 | 6 | 4 | 60 | | | | |
| DGL4 | 5 | 3 | 5 | | | | |
| average | 6.0 (increase 5%) | 3.25 (no change) | 42.5 (increase 21%) | | | | |



Figure 2 shows the four vegetation monitoring sites in 2018 including DGL1 with disturbance due to the new purchase of the block.



Fig 2 Sites in 2018 - L to R Top DGL1 showing disturbance, DGL2, Bottom DGL3, DGL4



2018 Vegetation Condition

Tall open forest dominated by Eucalyptus globulus continues to occupy the covenant area and provides excellent foraging and nesting habitat for swift parrot (Lathamus discolor). The condition of understorey has improved slightly over 2017-18. It remains open, with a sparse layer of sub-canopy trees such as Acacia dealbata and shrubs such as Bursaria spinosa. The density of ground layer vegetation has increased since last year. It remains dominated by native grasses such as Poa labillardierei, but both grass cover and herb cover has noticeably increased. There has also been an increase in the diversity of understorey species, with a jump in the number of understorey herb species, particularly in the family Asteraceae. There remains a high number of mature, hollow bearing trees and canopy cover has increased by 20%. Recruitment is also excellent, with multiple age cohorts (trees, saplings and seedlings) present at all sites.

Photo Monitoring Sites

DGL1 (521092E 5282961S)

