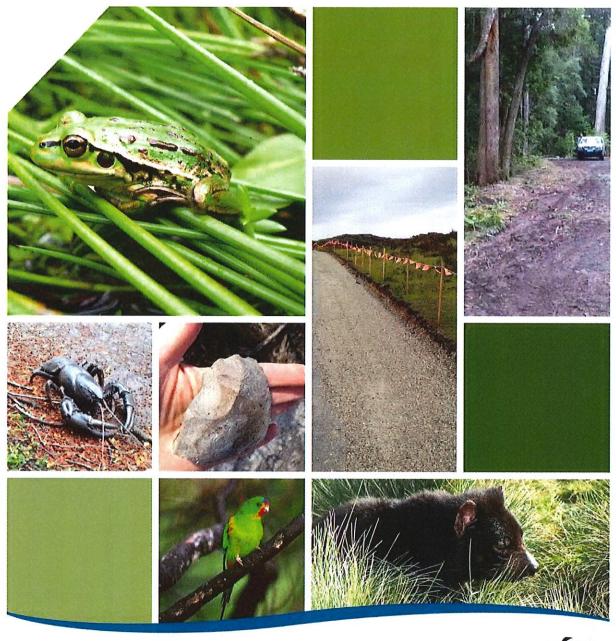
Annual Compliance Report 2016

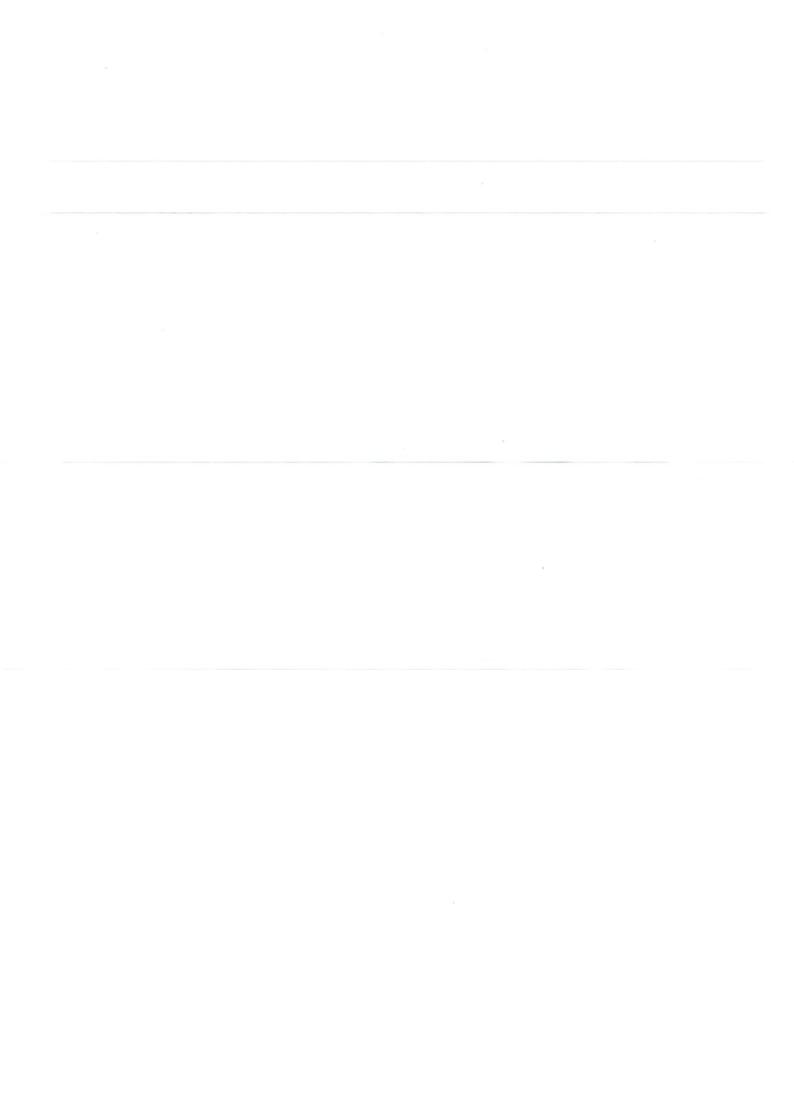
EPBC 2011/6061

February 2017

# Rokeby Main Road Upgrade







### Contents

G	ossary	of Terms	.2
1.	Abo	ut	.3
	1.1	Blue 'Roadside' Wallaby Grass	.3
	1.2	Key Dates	.4
2.	Com	pliance	.4
	Condit	ion 1	.1
	Condit	ion 2	.2
	Condit	ion 3	.2
	Condit	ion 4	.2
	Condit	ion 5	.3
	Condit	ion 6	.3
	Condit	ion 7	.4
	Condit	ion 8	.4
	Condit	ion 9	.4
	Condit	ion 10	.5
	Condit	ion 11	.5
	Condit	ion 12	.5
	Condit	ion 13	.5
3.	Con	clusion	.5
Αı		F – Approval – Rokeby Main Road Upgrade EPBC 2011/6061	
		G-Monitoring Report Swift Parrot Offset 2016	

### **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 2016

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 2016 is the third 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 25<sup>th</sup> November 2013 and was formally completed on 25<sup>th</sup> 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 E* 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 17<sup>th</sup> 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 <sup>th</sup> August 2013
Construction commenced	25 <sup>th</sup> November 2013
Construction completed	25 <sup>th</sup> September 2015
New swift parrot offset secured	13 <sup>th</sup> October 2015
Third annual compliance report due	24 <sup>th</sup> February 2017
Expiry date of EPBC Act Approval	25 <sup>th</sup> 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.

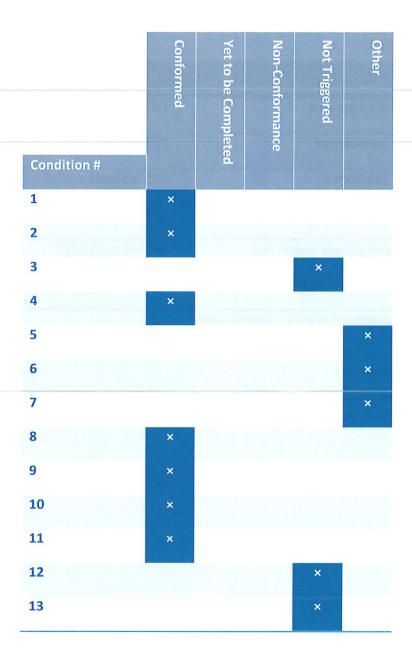


Table 2. Which conditions have been triggered, and how they have been managed.

### 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;
  - 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;
  - 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.

Investigations into the viability of the initially proposed Bicheno offset site for swift parrot habitat was re-assessed 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;
- 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
  - 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

 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 17<sup>th</sup> of June 2016, this condition was removed and therefore does not require reporting.

- 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 17<sup>th</sup> 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.

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 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 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:
    - 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.
  - 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 17<sup>th</sup> 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 25<sup>th</sup> 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 25<sup>th</sup> 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 F— Approval — 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.

Dec	isio	n-m	aker

name and position

James Tregurtha

**Assistant Secretary** 

South-Eastern Australia Environment Assessment Branch

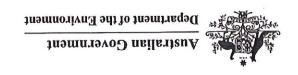
signature

4 Type

date of decision

19

August 2013



### VARIATION TO CONDITIONS ATTACHED TO APPROVAL

### (1909/1102 Rokeby Main Road Upgrade, Howrah and Rokeby, Tasmania, (EPBC

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

### Variation [1909/1102 to Diosma Street in Rokeby, Tasmania [See EPBC Act referral Approved action Road upgrade to Rokeby Main Road from Oceana Drive in Howrah (KBN: 363 889 805 (KBA) approval is granted Tasmanian Department of Infrastructure, Energy and Resources Person to whom the Approved action

Person authorised to make decision

A/g Assistant Secretary Mahani Taylor

name and position

Date of effect

of approval

Variation of conditions

South-Eastern Australia Environment Assessment Branch

This variation has effect on the date the instrument is signed

Delete condition 1 attached to the approval dated 19 August 2013

and substitute with the condition specified below.

Signature

The variation is:

Date of decision

### Conditions for substitution:

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

### 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
  - 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;
  - 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.

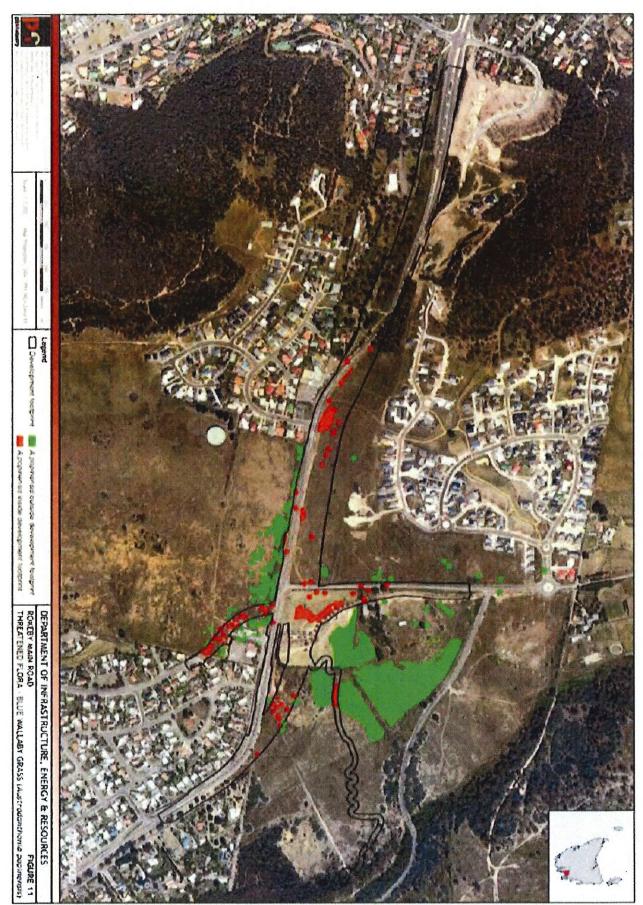
13) If, at any time after three (3) years from the date of this approval, the person taking the action has not **substantially commenced** the action, then the person taking the action must not **substantially commence** the action without the written agreement of the **Minister**.

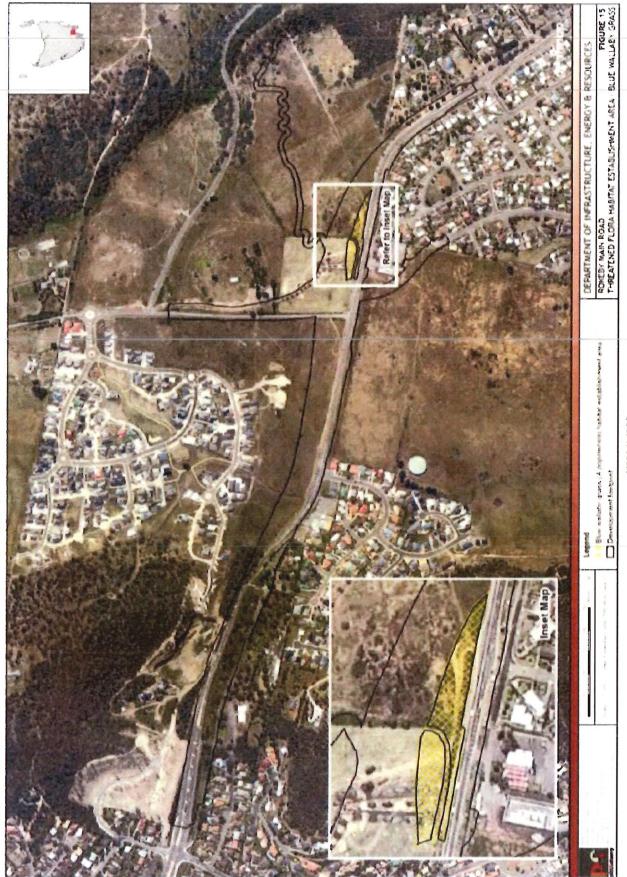
### **Definitions**

- **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**.

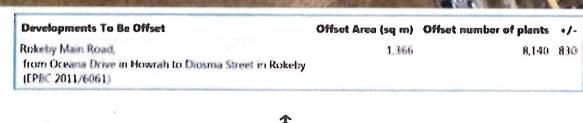
Appendix A:





### Appendix D:





204

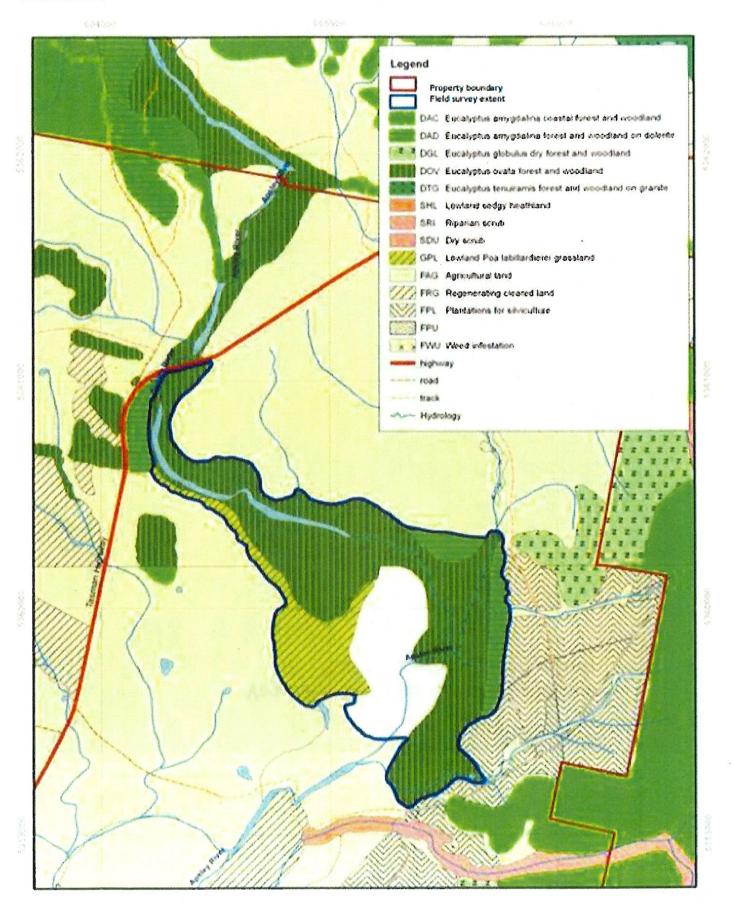
Securiting Productions or appropriate NO WEST ( Security One) 4 And Green Sept 2009 (6)



n@rthbarker

PASC36 22/06/2012

### Appendix E:



### **Appendix**

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

## TASVEG

25-75% cover of weeds

10-25% cover of woods

5-10% cover of weeds

<5% cover of weeds"

2

6

9

11

15

\*Proposition of send content due to high thread sends of the proposition of send content due to high thread sends of the proposition of sends of the proposition of sends of the proposition and sends of the proposition of t

0

4

(1)

### FOREST VEGETATION

(including woodlands, rainforests and non-eucalypt forests)

### Vegetation Condition Assessment Form V1.0

сониенты Алеко	oha of E	A Ass M caly	-	ota   Calif	nis oblan	D REPERENCE (CONTROL OF WORSE / CO	DAYD /	
Lerge Trees Observed large Benchmark BBH. 905.11 Benchmark	29	a/ba	IO	Understo	rey Life For			
Category & Description	3700 9	THE REAL PROPERTY.	530%	LP cooks Focus beneficiaria	# spp elbserved; benchmark	% cover obterved/ bandhouse	Present High	Hodified (box)
None present	101	0	Ø.	Walter over contributed as	000	Mi carver		S. REELE
>0 to 20% of the benchmark			-	17	/ nic	A 10/5	~	
number of large trees/ha	3	2		T	8/5	140/40	7	
>20% to 40% of the benchmark				5	11 / 4	30/15	~	
number of large trees/he >40% to 70% of the benchmark	1 4		2	A CONTRACTOR OF THE PARTY OF TH		34/13	-	
number of large trees/ha	6	4		Yurkel				
>70% to 100% of the benchmark	1-2-1	- 3	4	PS	1	1		
number of large trees/ha	8	,	6	Н	7/6	45/45	~	
a the benchmark number of large		-		G	4 1	-		
trees/ha	GO	9	В			20/45	V	
Large trees are defined by diameter at br	east height (d	bin) - see bo	nchmani	LSR	3 / 3	30/20	4	
*estimate proportion of an expected heat (in, not mixing due to tree death or deck	thy conopy co	ver that is p	resent	MSR	1	1		
	and t		-	GF	2/2	125/10	1	
Trea Canopy Cover			-	-	4/4	69/10	4	4
Benchmark 10.% Observed or	- 40 s	Seem	5	TF		1		
		acure	Annance	SCE	1/1	45/45	7	
Category & Description				ML	/ala	5/5	~	
	3-9094	20-70%	T SE DET TO	SC	/	1		
A A A STATE OF THE PARTY OF THE	1	Properties and Published Section (P.	-	02		Yotal		The state of the s
<10% of benchmark cover	0	0	0			10201	-	
<50% or >150% of benchmark cover	3	2	1	Prosent And	forms all barch	mais cover of < 10% served mais cover of : 13% at least 10% of pane		
250% or \$150% of benchmark cover	0	4	3	Madana 1.10	****** w 1* Bonch	- 4:0 to-e- of - 100	are considere	10
free canopy cover is defined as those item of matura teach? - one benchmark decarge restrictor proportion of an expected human is not missing this bit true death or decline Lacks of Weedles	dign Ne vannes cou			neger Life	forms min bench- stantals medical stantals medical	mare appelus diceres: e matura appelmient mais cover of 5 10% If the old farm has a mare cover in mare appeles diversi	des causides es causides es epacines	r <b>d</b>
Observed high threat woods	00 % So	one 1	1	lindere	torey Summ	1004		
Colegory & Ometripland	-	rest seeds	-			a present 100%	Score	20
The state of the s	The second second	20.00	50%	Catago	ry and Descrip	Han		
> 16th course of unuse				The second second	THE RESERVE AND PERSONS ASSESSED.	THE PERSON NAMED IN CONTROL OF THE PERSON NAMED IN COLUMN	The second liverage and the second	The latest designation of the latest designa

Cologory and Elesc	ription	
All strata and life for	ns effectively obsent	10
Up to 50% of life form	rs present	5
>50% to 90% of life	of those present 250% substantially modified	10
forms present	of those present, <50% substantially modified	15
>90% at tife forms	of those present, 250% substantially modified	15
present	of those present, <50% substantially modified	60
	of those present, none substantially modified	25

### Vegetation Condition Assessment Form V1.0

### FOREST VEGETATION

#### **Species Recruitment**

Woody species recorded in habitat zone (5 and tailer)	Adequate recruitment
Canoni trees (combined apecies)	1
Acusia atricta.	~
Acacla verticillata	Y
Acuein declinate	-
Allocatuation Willeralis	4
Callithis abloage	1
Callibria showboide	W
Executions CAPPRILITAPELLS	· · ·
Pomadertii agettila	~
Leufespermuna laniatran	1 4
Leatospetaum Scoporing	1 4
Vielaltuža ericifelia	1
Total recruiting aposine	132/12

Treat multiple carroups species in a series source.

Adequate recruitment of carroups species requires at least 2 concrts to be present (seedings < 2m and vacures or tall) and where carrous dever is less than bunchmark, sufficient recruitment to seam benchmark cover ever time.

Adequate recruitment of other woody species requires observed immature individuals to be at least 10% of number of mature individuals for each species.

# Baretonera ... TO. to Generous Hear .. 50 to Score

Category & Description	Everenated By notive Organic illur	Commuted by non-native organic litter
<10% of benchmark cover	9	0
<50% of benchmerk cover	3	2
250% of benchmark cover	0	4

Litter is defined as send organic motorial described from the seront plant, including plant debris, falsen leaves and timps <10cm

### Recruitment

Category R. C	escription		stage:	Low director's
	spirotic events spirotic events	٥	0	
No evidence of a recruitment cohort"	system demonstrate proven by agreeable divents	creat evidence of appropriate episatic means no clear evidence of appropriate formations	5	b 2
Evidence of at least one reconstruct	Proportion of rative woody society	<30%	3	,
'cehort in et	prepare that have adequate	270%	(0)	5

- cohest' refers to a group of woody planes established in a single episode (can include subpressed carriery species includes) of refer to benchmark for confluence.

  Inops diversity defined as yields of benchmark woody species diversity.

Category & Description	Earge logs	Large Ings absente
<10% of benchmark length	0	0
< 50% of benchmark length	3	2
50% of banchmark length	0	4

Largo logs defined as these with demeter 20.5 of borchmerk large tree DBH.

\* present of large log tength is 25% of borchmerk log langth

\* absent of large log tength is <25% of borchmerk log langth

### Landscape Context Score.....

etch Size	Paten stan 60 ha	Score	8
Category & D	escription		
< 2 ha			1
Between 2 and	1 S ha		1
Between 5 and	1 10 ba		4
Between 10 ar	nd 20 ha		_6_
20 ha, but 's	gnificantly disturbed**		0
	at 'significantly disturbed's		10

The potch is the an (sund), regardless of a country of the potch is the an (sund), regardless of "elemiticantly disturbed of activities out no graphs, timber hervesting, reading, that reduction burning or Phytoghthara infentionan have occurred. Effectively most proches within fragmented fundaments are e-philicantly disturbed.

### Neighbourhood

10

Radius from site	% Rative	Weighting	
100 m	20	0.03	0.6
) km	40	0.04	1.6
5 km	60	0.03	1.8
Cultura	act 2 if the neighbor pagnificantly dished	urhood is	-2
	A	id Values and 'round-off'	2

\*to nearest 20% Multiply % retrieve postetion it weighting for each radius from the zone (eg.) 40% x (1.0) × 1.2), then edd values to extern fine resignaturities value.

Distance to Core Area > 5 km 1 to 5 km < 1 km 0

# TASVEG

### FOREST VEGETATION

(including woodlands, rainforests and non-eucalypt forests)

	t sout	Apply River Apply River But tout seesson: but Apply	Rima.	Portially		DAM M	CID66	
arge Trees Cherved la	nsi trees	15 0/00		Underst	orey Life Fi			
stegory & Description	> 769		Specialists w	LF code From	abserved perchesa		Present tracks	Hostic
one present	0	0	0	bunchnouri	7 450	% cover		0
0 to 20% of the benchmark				IT		A 5/5	V	
imber of large trees/ha 20% to 40% of the benchmark	1	1 2	-	T		5 25/40	7	
amber of large trees/ha	4	3	2	5	5/1	+ 10/15	1	1
40% to 70% of the benchmark	No. of Concession, Name of Street, or other Publisher, Name of Street, Name of Street, or other Publisher, Name of Street, Name of	1		Forni	1 /			
imber of large trees/ha 70% to 100% of the benchmar		1	4	PS	1	1		
imber of large trees/ha	8	10	6	14	17/0	0 45/45	V	agree-sectored-desire
the benchmark number of large	F			G	1 1 /	1 5/45	V	-
res/his rge trees are defined by diameter at	10	9		LSR	14/	3 40/20	1	
stimate proportion of an expected h	poithy conon	n cover that	i benchinera ii pengret	MSR	17/	3 40/20		
. Not missing due to tree docth or d	lection)			GF	2 /	2 45/10	7	
res Canopy Cover	17.70	<u>.</u>		- A Children Programme and Commence of the	4	2 45/10	-	
torreado de Primi demetan	cover .25	% Erns	. 4	TF	1			
	1	OPC-CY		SCE	11/	1 48/45	4	* (***,**) ) (***,**********************
stegacy & Description		N Compy	Househan	ML	14/9	0 10/5	4	
The state of the s	>70			SC				
10% of benchmark cuver	0	0				Yotal		
10% or >150% of benchmerk	-	-	- Andrewson - Control of the Control		10 fe ms w 17 00	Act mare squer of + 10%	B'0 L078-501	14 0/0603
ver	3	2	. 1	Present A	** \$500.0000 810		and the second	
0% or £150% of banchmark ver	5	0	3	Madiras (	ie tereis mitt be	tenmers there of class femmers there of class fem if the de form has a	ara consider	P-legge
no concey cover is defined as those insource frequency of the continuency of the continuency of an expected to not insisting due to tree death or de cities of Woods R. P. 10, 45. Observed was dever R. P. 10, 45. Observed was dever R. P. 10, 45. Observed was dever R. P. 10, 45. Observed high threat wants	.100 %	•	p present	Under	he reproduct to lettins with po- to stantairy mod- 450% of the 450% at be	nchmar ageries aversitien met her cover of 7 10% food of 7	are consider	20
Description	feets	点知性	×50%	d'atan	mry god Deac	elektron .		
75% cover of weeds	0	0	0		nd E mediane			-
	4	2	0	All stra	ita and life for	ms effectively absent		0
5-75% cover of weeds	+	6	4	Up to	50% of life for	ms present		5
	7	· ·		-500	to 90% of life	of those present		
5-75% cover of weeds 0-25% cover of weeds	+		6		CO TOTAL OF 100	substantially mode		10
0-25% cover of weeds 10% cover of weeds	11	9	0		present			
2-25% cover of weeds 10% cover of weeds 5% cover of weeds**	11	9	<b>(7)</b>			of those present, substantially mode	<50% hed	15
0-25% cover of weeds 10% cover of weeds 5% cover of weeds 5% cover of weeds portion of weeds ph these sees are private	11 15	13	11	290%	of life forms	of those present,	<50% hed 250%	
P-25% cover of weeds 10% cover of weeds 5% cover of weeds 5% cover of weeds portion of weeds ph firest send severes are private indeprivat individual to the service of the	11 15 Invest sensets in entroduced in contract	13 species (inche	11	forms	of life forms	of those present, substantially mode of those present, substantially mode of those present.	<50% fied , >50% fied <50%	15
0-25% cover of weeds 10% cover of weeds 5% cover of weeds** sportion of weeds**	15 install sensets in entreduced in course on the period of the	13 wedges (inclusive parties) the TASVEG (	11 operation	290%	of life forms	of those present, substantially made of those present, substantially mode	<50% fied , >50% fied <50%	15

### Vegetation Condition Assessment Form V1.0

### FOREST VEGETATION

#### Species Recruitment

Woody species recorded in habitat zone (S and taller)	Adequate recruitment (if)
Canapy trees (combined apecies)	J
Atatia milanovulan	4
Accerta dealbath	1 3
breache werbicited	1 4
Baskie marriauta	V
Contraction landerer	V
Milalaura and estalla	- 4
Melatence adversor	1 4
Olegetz Vinta	4
Pomadeets artists	4
Total recruiting species	10/10

Trock invalues campy species in a segret basics.

Adopted recrument of campy species requires at least 2 campra to be present (peoples <2m and septings >2m tall) and where campy species is ten then benchmark, patitioner recrument to attain benchmark cover over time.

Adopted recrument of other weekly blacks begans above yet me and individuals to be at least 10% of number of matters recrument for sections.

Benchmerts 10 % Observed inter MQ % Score

Category & Description	Eleminated by native organic litter	Desninohed by non-native organic filter
< 10% of benchmark cover	Ö	9
<50% of benchmark cover	3	2
250% of benchmark cover	0	4

Litter is defined as deed organic ma-including plant debris, follow leaves and longs of locin.

#### Recruitment

10

Category & E	rescription		HINES STIFFFFEES	Low downsty*
	within spennight episodic events	y not driven by	0	o
No european of a reconstruent phore:	enther community driver by eponds: events*	chear evidence of appropriate episodic event on clear evidence of approach evidence of	5	o <b>S</b>
Exigence of at	Proportion of pative woody	<30%	3	ı
recruitment connect in air	species present that	30 - 70%	6	3
least one office form	frave adequate	>70%	(10)	3

e cohart refers to 6 g.

(can include suppressed is a second of the cohart refered suppressed is a second of the cohart refered to benchmark in cohart refered to benchmark second reporters diversity things developed the cohart refered to the

#### Logs

Benchmert tog tength (100 Observed tength 37. Score

Category & Description	Large logs present*	Large logs absents
- 10% of benchmark length	0	0
<50% of benchmark length	3	2
<sub>2</sub> 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 length a absent if large log langth is 425% of benchmark log langth

### Landscape Context Score.....

etch Size Petch stee 720 ha Sc	9 S
Cotegory & Description	
< 2 ha	
Between 2 and 5 ha	
Between 5 and 10 ha	4
Between 10 and 20 ha	6_
≥20 hs, but 'significantly disturbed's	0
220 ha, but not 'eignificantly disturbed's his porch is the area of native vegetation continuous with ti	10

(zone), regardless of EVC, condition or land tenure. Includes adjoining anticode "regardlessity disturbed" of activities such as greamy, tember harvesting, reading, fuel regardless burning for PFF potches within frequenties

#### FENAL HABSTAT SCORE

		'WI	te Co	nditio	n Sco	ee'			endece Contes Score	uk	
	ge Trees	a Campy Cover	Lack of Wheels	Annual Comments	en Jillement.	pane Labre	n	of Saw		tenns to Core Arm	TOTAL
8	201	F	1	5	and a	0	5	1	1	ò	/100
Googe	7	4	7	20	10	5	5	8	12	4	72

### Neighbourhood

Radius from site	% Native vegetation*	Weighting	
100 m	70	6.01	0.6
1 km	40	0.04	1.6
5 km	60	0.03	1.8
sublin	- 2		
	2		

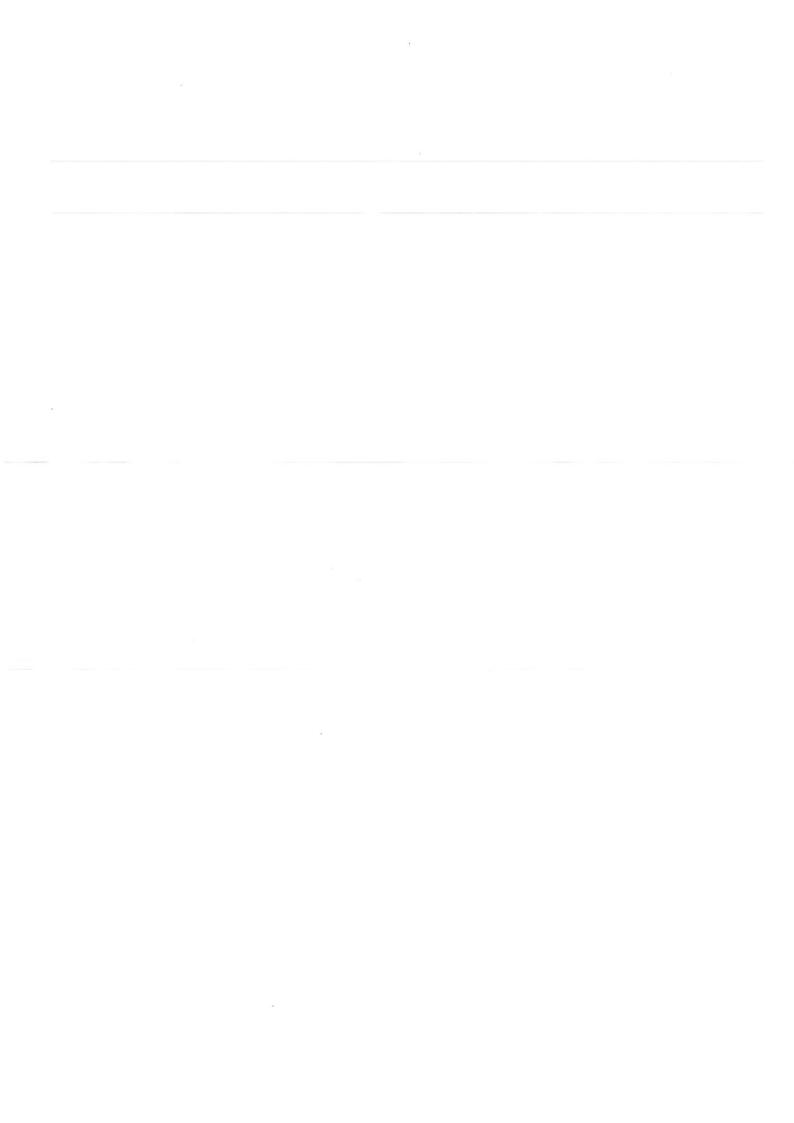
% to negrent 20% Multiply % notice vegetation k weighting for each radius from the zone (eg.) 40% x 0.03  $^\circ$  1.2), then add values to obtain final freighbourhood

#### Distance to Core Area

scholing and on some	Section of Persons	
Distance	Core Area not significantly disturbed*	Core Area significantly sintarbut*
> 5 km	0	0
1 to 5 km	2	1
< 1 frm	4	2
contiguous	5	0

A core area is native vegetation > 50 ha regardeds of type, condition of tenure. Includes natural well-ends and lakes, estudies and invers "significantly disturbed see definition under patch sare.

### Appendix G – Monitoring Report-Swift Parrot Offset 2016





### **MONITORING REPORT – SWIFT PARROT OFFSET**

Location	466 EAST BAGDAD RD BAGDAD TAS 7030	
Date	13/10/2016	
Personnel	Matt Taylor, Sally Bryant	

### <u>AIM</u>

To gather baseline monitoring data on the condition of swift parrot habitat, as per condition 4d) of the EPBCA approval for Rokeby Main Road Upgrades (EPBC 2011/6061). This requires annual monitoring of the established offset prior to the 13<sup>th</sup> October, during an 'ecologically optimal time'.

### **METHODS**

Habitat condition	Fixed photo-points were established at four sites on the property (see map). A photograph was
	taken of the ground layer, understorey and canopy at each site. Structural complexity was
27	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.
Birds	Two 20 minute 2 ha bird surveys were conducted while walking between two pairs of sites,
	where birds were recorded as present if they were heard or sighted. This survey methodology
	follows that recommended by Birds Australia for the Atlas of Australian Birds project
	(www.birdsaustralia.com.au) for the two hectare search.

### **RESULTS**

Habitat condition					
site	structural complexity (strata)*	recruitment (cohorts)**	canopy cover (%)		
DGL1	5	3	30		
DGL2	5	3	45		
DGL3	6	4	60		
DGL4	5	3	5		
average	5.25	3.25	35		

<sup>\*</sup>Structural Complexity (strata) refers to the number of different lifeforms of vegetation from the canopy to the ground layer. This measure is used as a tool from which to monitor change, rather than as a definite measure of the quality of the vegetation community.

<sup>\*\*</sup> Recruitment (cohorts) refers to the number of age classes of the dominant canopy species.

Birds					
Taxon name E – endemic	Taxon scientific name	Monitoring Site DGL 1 &2	Monitoring Site DGL 3&4		
Brown Goshawk	Accipiter fasciatus	sighted			
Sulphur Crested Cockatoo	Cacatua galerita		calling		
Tasmanian Green Rosella E	Platycercus caledonicus caledonicus	sighted	calling		
Shining Bronze-Cuckoo	Chalcites lucidus	calling			
Tasmanian Superb Fairy-wren	Malurus cyaneus cyaneus	calling			
Spotted Pardalote	Pardalotus punctatus	calling	calling		
Tasmanian Striated Pardalote	Pardalotus striatus striatus	calling	calling		
Yellow-throated Honeyeater E	Lichenostomus flavicollis	calling	calling		



Tasmanian Noisy Miner	Manorina melanocephala leachi		calling
Tasmanian New Holland Honeyeater	Phylidonyris novaehollandiae canescens	sighted	sighted
Black-headed Honeyeater E	Melithreptus affinis	calling	calling
Tasmanian Black-faced Cuckoo-shrike	Coracina novaehollandiae novaehollandiae	calling	calling
Tasmanian Grey Currawong	Strepera versicolor arguta		sighted
Tasmanian Grey Fantail	Rhipidura fuliginosa albiscapa	calling	calling
Southern Forest Raven	Corvus tasmanicus tasmanicus		calling

### **VEGETATION DESCRIPTION**

Tall open forest dominated by *Eucalyptus globulus* occupies the covenant area and provides excellent foraging habitat for swift parrot (*Lathamus discolor*). The understorey is open with a sparse layer of sub-canopy trees such as *Acacia dealbata* and shrubs such as *Bursaria spinosa*. The ground layer is dominated by native grasses such as *Poa labillardierei*, with occasional herbs such as *Acaena novae-zeelandiae* and *Viola hederacea* occupying inter-tussock spaces. There are numerous mature trees with hollows that provide potential nesting habitat for the swift parrot. Recruitment on the property is excellent, with multiple age cohorts (trees, saplings and seedlings) present at all sites.

### **MONITORING SITES**

DGL1 (521092E 5282961S)







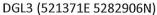
DGL2 (521200E 5282981N)

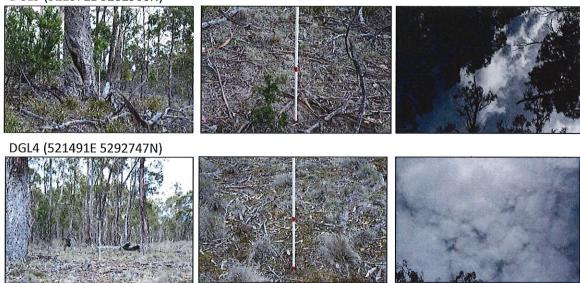










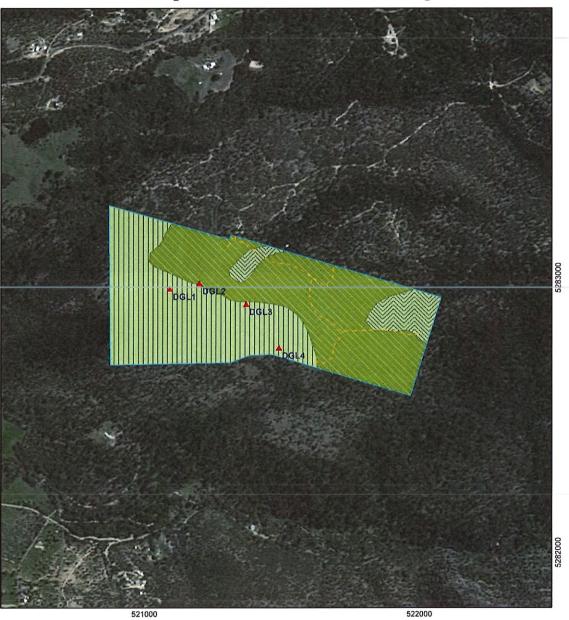


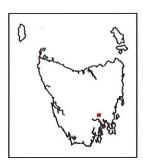
### **Conclusion**

The vegetation found on the property is consistent with the TasVeg 3.0 mapping unit DGL and provides good foraging habitat for the Swift parrot. As noted above the sites monitored exhibit the characteristics suitable for Swift parrot foraging and breeding. The sites monitored also display a number of the dominant canopy species at various age classes giving some confidence that the long term outcome will be for continued suitability for swift parrot foraging. There were no high threat weeds noted during the survey and no threats noted to the sites integrity. The TLC ecologist Matthew Taylor considered the site an excellent example of this vegetation community (per comm. November 2016).



### East Bagdad Rd - Swift Parrot Offset Monitoring

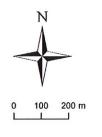




Swift Parrot Monitoring Site Eucalyptus globulus dry forest (DGL) Eucalyptus obliqua dry forest (DOB) Eucalyptus pulchella forest (DPU)

Title Ref: 214709/1 Data Sources: TLC, LIST, DPIPW Datum: GDA94 Map Date: 18/10/2016 Author: Matt Taylor





1:10,000