


## **Appendix 4. Off-site Offset Management Plan Report – Year 1 (Bleak House 2020)**

# EPBC 2015/7486: Offset Management Plan Report, Year 1

(Management period: 2019 / 2020)



Pair of Brolgas browsing between Silver Tussock-grass within Offset Site

Landowner of offset site	Bleak House Pty Ltd
Location and address of offset site	435 McDonnells Road Ombersley (Birregurra), Victoria
Offset site number	All zones (01A and 02A)
Offset plan reference number	EPBC 2015/7486
Responsible Authority	DOEE
DELWP Management Agreement	VC-CFL-3044 LA02
Landholder/s	Claire Dennis, James Dennis
Report #	1
Signature	 Claire Dennis James Dennis
Date	February 2020

## Introduction

Bleak House Pty Ltd was engaged to undertake the protection and management of 32 ha of Natural Temperate Grassland of the Victorian Volcanic Plain (NTGVVP) and Stripped Legless Lizard *Delma impar* (SLL) habitat, into perpetuity including the actions detailed within “*EPBC 2015/7486: Offset Management Plan: 435 McDonnells Road Ombersely (Birregurra), Victoria*” henceforth refer to as the OMP (Ecology and Heritage Partners Pty Ltd 2019).

Detailed in Section 8: “*Monitoring and Reporting*” from the OMP, refers to the landowner’s responsibilities for monitoring and reporting on yearly actions resulting from undertaking of the OMP. Details of the desired outcomes and responsibilities are of the monitoring and reporting are contained in Appendix A1.

The OMP annual Management Actions Report is intended to demonstrate the management measures are effective in meeting the environmental outcomes determined within the OMP, and the annual submission of this report to DELWP and DoEE, is one of the specified actions required by the OMP. The monitoring obligations over the course of the year include recording:

- The extent, severity, trend and presence of current weed species and any new and emerging weed species;
- The extent, severity, trend and presence of pest animal activity;
- Biomass levels, visually assessed across the site;
- Evidence of unpermitted human/stock access; and,
- Any new threats.

This report contains the results of monitoring and details of actions undertaken in accordance with the OMP. This data is reported within a tabulated format as specified within the OMP and includes detailed descriptions of management actions, specifically:

- A copy of the Management Action Table from the OMP with information on which actions have been completed for year/s of this reporting period (Table 1);
- A description of the specific monitoring results from surveys undertaken (i.e. SLL surveys);
- Success of weed (Table 2) and pest animal control work (Tables 3);
- Successful management tools (i.e. techniques used to control weed species, protection of new plants, monitoring technique, etc.);
- Any problems or issues experienced (i.e. new infestation of weed species, etc.); and,
- Provide photographs showing evidence of works.

Photo point monitoring and quadrat assessments were undertaken in October at eight locations representative of the vegetation within the study area as determined by the Landowner at the commencement of the OMP. The results of photo point monitoring and vegetation quadrat assessments undertaken by the Landowner are presented in Tables 4 and 5. Additional supporting documentation of actions undertaken in accordance with the OMP are provided in Plates 1 through 6.

## **Methodologies**

### ***Photo Point Monitoring***

Eight photo points were established within the Offset Site. Five photos were taken at each photo point taken with a Olympus E-M5 Mark II digital camera. One photo was taken looking vertically down from the centre of a 1 m<sup>2</sup> vegetation quadrat plot, from a height that included the whole plot in the frame, from 1.5 m above the ground. The other four photos were taken in a landscape orientation, 1.5 m off the ground, standing 1.5 m back from the quadrat with the 1 m<sup>2</sup> quadrat completely visible at the base of the image looking either south, west, north or east according to a compass.

### ***Vegetation Quadrat Surveys***

Vegetation quadrat surveys have been undertaken at each photo point. A marker post was placed in the north east corner of each 1 m<sup>2</sup> quadrat and a GPS point was taken at this corner. Within the 1 m<sup>2</sup> plot percentages of total vegetation cover, native and weed species cover, inter-tussock space bare ground and litter were estimated. The percentages of different types of native (graminoids and herbs) and weed species (perennial, annual grasses and dicotyledons) were also recorded. This type of estimation is dependent on the time of year, the conditions at that time and the person undertaking the surveys.

All species within the 1 m<sup>2</sup> plot were identified where possible and recorded. Surrounding each 1m<sup>2</sup> quadrat a 9 m quadrat was also surveyed for additional species which were also recorded.

Average Biomass height was also measured using the 'drop disc method' (Bransbury 1977; Catchpole 1992). A disc with a central slot is dropped down a vertically held ruler and the height above ground where the disc comes to rest is then measured. The disc is a standard 200 g, 30 cm in diameter, and dropped from 1 meter.

The height of the vegetation was measured using a ruler placed vertically against the ground, in five locations within the quadrat. These five measurements were then averaged to give the average vegetation height for the quadrat.


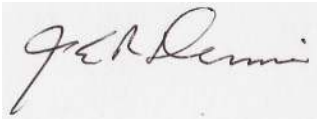
Compliance with the Obligations of the Landowner

Conditions detailed in Appendix A.5 Landowner Agreement: Compliance with the Obligations of the Landowner

Has “The landholder” complied?

Yes

Signed by:

	
Claire Dennis	James Dennis

**Table 1. Offset Management Plan: Management Actions**

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
<b>Fencing Erection and Maintenance</b>					
1-10	32 ha of NTGVVP and SLL habitat	Maintain fencing in good condition around entire boundary of all sites where fencing exists or is required	Ongoing	Maintain fencing to DELWP fencing standards in BushBroker Information Sheet 12 - Standards for Management – Fencing	Fences bordering offset site and broader property pertinent to Offset Site meets conditions DELWP specified standards and are stock proof. Monitoring of fence integrity is ongoing.
1-10	32 ha of NTGVVP and SLL habitat	Erect temporary fencing around offset site during grazing exclusion period (if stock present during this period cannot be confined to certain areas)	October - November	Exclude stock from the offset site during exclusion period to protect NTGVVP community.	Fencing has been installed across the broader paddock where the offset site is located. This enables targeted control of grazing within the offset site as well as the broader paddock which is also managed for conservation purposes.
1-10	32 ha of NTGVVP and SLL habitat	If a threat arises erect an additional fence immediately around the entire boundary of the offset site	Immediately on identification of threat	Erect fencing to DELWP fencing standards in BushBroker Information Sheet 12 - Standards for Management – Fencing	Monitoring of emerging threats is ongoing, as such no threats have been observed which require additional fencing.
1	32 ha of NTGVVP and SLL habitat	Establish posts to mark the boundary of the offset site in accordance with advice from a qualified ecologist and land surveyor	Immediately on approval of Year 1 of management works	Facilitate management and monitoring of the offset site. Delineate location of temporary exclusion fence.	A land surveyor has been engaged to undertake installation of posts to mark the offset boundary. GPS points have been established along the boundary of the offset site to facilitate on ground management and monitoring of the offset site.

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
<b>Weed Control</b>					
1-10	32 ha of NTGVVP and SLL habitat	Control all herbaceous weeds. Refer to <a href="#">Table 2</a> for list of herbaceous weeds, their control method and timing of actions	Refer <a href="#">Table 2</a>	Reduction in weed cover (ie. <24%). Minimise off-target damage (avoid all native plants)	Herbaceous weed control actions are detailed in <a href="#">Table 2</a> . Briefly, a combination of pulse grazing, outlined in "Biomass Control" section of this table, and targeted weed control, such as spot spraying and chipping of high threat weed species, was used. An overview is provided here based on the Vegetation Quadrat Assessments undertaken at the photo points. Total average weed cover recorded on the site was 20%.
1-10	32 ha of NTGVVP and SLL habitat	Eliminate all new & emerging herbaceous weeds	Ongoing.	<1% cover of all new and emerging herbaceous weeds at the end of Year 10	The only new and emerging weed is the South African Weed-Orchid <i>Disa Bracteata</i> , observations occur in Spring when the plant flowers, as the plant exists as a bulb outside of this period and is difficult to monitor outside of Spring. All plants observed are recorded with GPS, removed, including their bulb, placed in a bag and burnt offsite. This appears to be an effective approach to limit further establishment of the species as current records are few and sporadic.
1-10	32 ha of NTGVVP and SLL habitat	Eliminate all new and emerging woody weeds	Ongoing	<1% cover of all woody weeds at the end of Year 10	Currently no woody weeds within Offset Area Ongoing monitoring of woody weed establishment

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
<b>Pest Animal Control</b>					
1-10	32 ha of NTGVVP and SLL habitat	Control rabbits and foxes. Refer to <b>Table 3</b> for a list of control methods and timing of actions	Refer <b>Table 3</b>	No surface disturbance within the offset site; No active rabbit warrens to be present; No active fox dens to be present; No rubbish/artificial harbour present; Minimal artificial piles of logs and rocks;	Details of pest animal control actions are provided in <b>Table 3</b> . Briefly, no rabbits or foxes have been observed within the study area, and regular monitoring is ongoing.
1-10	32 ha of NTGVVP and SLL habitat	Monitor and control rabbits and foxes	Ongoing	Reduction in the abundance of pest animals, and no detectable impacts to the NTGVVP ecological community	Monitoring of rabbits and foxes is ongoing. There have been no observations of rabbits or foxes within the study area, nor have there been signs of recent warrens or scats.
1-10	32 ha of NTGVVP and SLL habitat	Monitor and control all new and emerging pest animals	Ongoing	Control numbers of any new & emerging pest animals	New and emerging pest animals might include, cats or hares. Neither of these species have been observed within the offset site during regular monitoring, nor have any other pest animal species been observed.

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
<b>Biomass Management</b>					
1-10	32 ha of NTGVVP and SLL habitat	Pulse grazing: The maximum length of continuous grazing is four weeks with at least two weeks rest between cycles. Stock generally excluded during October -November within NTGVVP. Stock removed immediately following any high rainfall events.	January to September (see Management Action Description, subject to written approval from DELWP for seasonally dependent modifications)	Stock must be removed should total vegetation cover fall to or below 70% Sufficient bare ground (approximately 20% to 40% cover) maintained in order to maintain space for recruitment of herbs and grasses. No loss of native plant diversity as a result of grazing regimes. Reduction in weed cover.	The Offset site was grazed with a high intensity (1500 or 500 mob of sheep), but short period (three to six days dependent of size of mob of sheep, and amount of biomass) on three separate occasions with approximately two months rest between pulses, between January to August 2019. For effective targeting of pulse grazing and to comply with the grazing guidelines of the OMP the 32 ha Offset site has been split over three smaller, but contiguous cells in an approach known as cell grazing. The grazing schedule pertinent to this offset site is as follows*: Cell 3 - 800 ewes from 1/2 to 6/2, 1500 ewes from 25/4 to 27/4 and 500 ewes from 3/7 to 10/7. Cell 5 - 1100 ewes from 23/1 to 24/1, 800 ewes from 24/1 to 28/1, 1500 ewes from 1/4 to 4/4 and 500 wethers 21/6 to 24/6. Cell 6 - 800 ewes from 24/1 to 28/1, 1500 ewes from 4/4 to 8/4 and 500 wethers from 24/6 to 27/6.
1-10	32 ha of NTGVVP and SLL habitat	Ecological Burning: Burn less 60 m wide, minimise risks to life and property and biodiversity, less often than once in 5 years in any one area.	April to May, Outside of the Victorian Declared Fire Danger Period	Grazing and burning: aim to maintain approximately 20% to 40% cover of bare ground or intertussock space to allow sufficient space for recruitment of herbs and grasses.	Two small cool burns (Plates 8, 9 and 10) were carried out in 2A, 23 May 2019. The burn areas were less than 60 m wide and located near photo points 105 and 106 (Figure 1). The opportunity to burn was small as Fire Danger Period ran late and the autumn rain began soon after.

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
<b>Detailed SLL population and vegetation monitoring</b>					
Years 1-4, 6, 8 and 10	NTGVVP Offset	Monitoring Refer Section 8.2 and 8.3	Spring	Allow for ongoing auditing of the effectiveness of management. Reports will include a review of past management works against the performance targets and objectives contained within this OMP.	<a href="#">Report on SLL and third-party vegetation monitoring is provided separately.</a>
<b>Annual reporting</b>					
1-10	NTGVVP Offset	Prepare and submit an annual report and photo monitoring to DELWP and DoEE. Refer Section 5.5.7 and 8.1 of OM. Briefly report entails: Enough detail in the form of written comments and supporting evidence that an assessor can easily determine the completion of / progress against the commitments for the offset site. Allow for ongoing auditing of the effectiveness of management.	Submit at least 1 to 2 months prior to on-title agreement anniversary date	Annual report is signed, dated and submitted by the Landowner at least 2 months prior to the anniversary date of on-title agreement registration Reports will include a review of past management works against the performance targets and objectives contained within this OMP. Future management priorities will also be detailed in these reports. Obligations of the Landowner have been met and the obligations form is signed, dated and submitted with the annual report	<a href="#">An annual report has been prepared and submitted to DOEE and DELWP</a>

Year	Area	Management Action Description	Timing	Environmental outcome to be achieved	Action taken with description
5	NTGVVP Offset	Review effectiveness of OMP. Refer Section 5.5.8 and 8.1	End of Year 5.	If existing OMP is not leading to the ongoing maintenance and improvement of the NTGVVP community, a review will be undertaken, and a new management plan prepared for the remaining 5 years of management.	Not applicable to year 1 report

\* The current reporting period covers from May 2019 to January 2020, and as such the specific grazing requirements outlined in the OMP did not come into effect until May 2019. Despite this partial year of management, details of the grazing schedule have also been provided for the prior months of 2019 so as to be consistent with future reports (however the OMP had not been written until August).

**Table 2. Offset Management Plan: Weed Management Actions**

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Bearded Oat	<i>Avena barbata</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	There is very little of this species in the Offset Site	Controlled pulse grazing helps to control this annual by reducing seed set.
Brown-top Bent	<i>Agrostis capillaris</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Brown-top Bent is considered to be the weed of highest threat within the Offset Site. Some trials of different control methods within the whole paddock have begun which included a burn in May with a follow up of glyphosate application in the beginning of the growing season, August. Controlled pulse grazing may also help to control this weed by reducing seed set, and greater native species diversity.	A Brown-top Bent specific herbicide will be available from 2020 which will be also trialled within the broader paddock. Should this herbicide approach prove successful with the suppression of weed, the herbicide will be used across a larger area affected by Brown-top Bent. In previous years targeted mowing of areas dominated by Brown-top Bent during flowering have proven moderately effective, however during spring 2019 the high level of soil moisture did not permit this management approach.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Buck's-horn Plantain	<i>Plantago coronopus</i>	No	1-A, 2-A	Hand chip and spot spray.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set, and allowing greater native regeneration.	Buck's-horn Plantain is a low threat weed which is common but in low numbers across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Cape weed	<i>Arctotheca calendula</i>	Yes	1-A, 2-A	Hand chip and spot spray.	Spring / Summer	Cape Weed is rare within the Offset Site and appears to be controlled with pulse grazing.	Extent of this species is highly localised to deserted rabbit warrens no longer used which are found on a few barriers within the broader paddock. These occurrences are not located within the Offset Site.
Cat's Ear	<i>Hypochaeris radicata</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set, and allowing greater native regeneration.	Cat's Ear is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Chickweed	<i>Stellaria media</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this annual by reducing seed set.	Chickweed is a low threat weed which is rare across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Couch	<i>Cynodon dactylon</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	There is very little of this species in the Offset Site	There has been no couch observed within the Offset Site. The assessor or author of the OMP may have confused Couch grass with Brown-top Bent which has a cover closer to the 10% reported for the Couch. Refer above for details of Brown-top Bent.
Hair Grass	<i>Aira spp.</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing helps to control this annual by reducing seed set.	Hair Grass is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Hare's-foot Clover	<i>Trifolium arvense</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this annual by reducing seed set.	Hare's-foot Clover is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Hop Clover	<i>Trifolium campestre</i> var. <i>campestre</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this annual by reducing seed set.	Hop Clover is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Large Quaking-grass	<i>Briza major</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October Graze – January – October – January;	Controlled pulse grazing helps to control this annual by reducing seed set.	Large Quaking-grass is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Onion Grass	<i>Romulea rosea</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set, and allowing greater native regeneration.	Onion Grass is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Ox-tongue	<i>Helminthotheca echioides</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this annual by reducing seed set.	Ox-tongue is a low threat weed which is rare across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Perennial Rye-grass	<i>Lolium perenne</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing helps to control this grass and spot spraying will be carried out in the spring in areas if necessary.	There is very little Perennial Rye-grass in the Offset Site.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Ribwort	<i>Plantago lanceolata</i>	No	1-A, 2-A	Hand chip and spot spray.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set and allowing greater native regeneration.	Ribwort is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Salsify	<i>Tragopogon porrifolius</i> subsp. <i>porrifolius</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Salsify has been observed in only a few areas within the Offset Site and have been removed by either hand pull or chipping. These areas will be monitored and follow up will be carried out again this spring.	Salsify is rare within the Offset Site
Sheep Sorrel	<i>Acetosella vulgaris</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set, and allowing greater native regeneration.	Sheep Sorrel is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Smooth Cat's-ear	<i>Hypochaeris glabra</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide.	Spring / Summer	Controlled pulse grazing helps to control this weed by reducing seed set, and allowing greater native regeneration.	Smooth Cat's-ear is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Soft Brome	<i>Bromus hordeaceus</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing helps to control this annual by reducing seed set.	Soft Brome is a low threat weed which is common but in low numbers across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.
Spear Thistle	<i>Cirsium vulgare</i>	Yes	1-A, 2-A	Hand chip and spot spray.	Spring / Summer	Thistle have been hoed in three areas. More follow up will be undertaken this spring. There are not many thistle areas in this site.	There are not many thistle areas in this site.
Squirrel-tail Fescue	<i>Vulpia bromoides</i>	No	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing helps to control this annual by reducing seed set.	Squirrel-tail Fescue is a low threat weed which is common but never dominant across the Offset Site. The use of pulse grazing is maintaining the combined cover of weeds below 24%.

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Sweet Vernal-grass	<i>Anthoxanthum odoratum</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Pulse grazing helps to control this grass by reducing seed set. Spot spraying will be carried out in Spring if necessary. Research suggests that a cool burn of the weed in spring may control it, preventing seed set but this may be difficult to achieve due to the wetness of the grass. We may be able to mow before seed set, although there is not very much in this area.	Sweet Vernal-grass is rare within the Offset Site
Toowoomba Canary-grass	<i>Phalaris aquatica</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing will help to control this weed and some spot spraying has been undertaken in August. This will be monitored with a follow up in spring 2020.	Toowoomba Canary-grass is rare within the Offset Site

Common name	Scientific name	High Threat	Zone(s)	Method	Timing	Description of actions	Comments and observations
Yorkshire Fog	<i>Holcus lanatus</i>	Yes	1-A, 2-A	Targeted spot spraying with appropriate herbicide. Pulse-grazing can occur when annual weeds cover is equal to, or exceeds 25%.	Spot-Spray – October – January; Graze – January – October	Controlled pulse grazing helps to control this species by reducing seed set.	During 2019 the cover of Yorkshire Fog within the Offset Site was minimal. The prevalence of this weed fluctuates from year to year and appears heavily dependent on years with higher rainfall.

**Table 3. Offset Management Plan: Pest Animal Control Actions.**

Common name	Zone(s)	Method	Timing	Description of actions	Comments and observations
Rabbits	1-A, 2-A	Baiting. When baiting collect and dispose of carcasses to prevent poisoning of native predators.	Ongoing	Ongoing monitoring is carried out of the rabbit population.	Some burrow activity on near-by barriers have been noticed. This will be monitored and action taken if necessary.
Rabbits & Foxes	1-A, 2-A	Fumigation and collapse of rabbit burrows and fox dens if identified. Remove or disperse surface harbour.	Ongoing	Ongoing monitoring is carried out of the fox population.	Foxes occasionally traverse the Offset Site and use the rocky barriers in the broader paddock for their dens. These areas are monitored and treated if active. Fox baiting has been carried out in the adjacent surrounding paddocks for the Wind Farm.
New & Emerging pest animals	1-A, 2-A	Monitor and control	Ongoing	Ongoing monitoring is carried for new and emerging pest animals.	No other pests have been recorded.

Table 4. Offset Management Plan: Landowner Photo Point Monitoring results

Photo Point Monitoring results	
<p>Offset Site: EPBC 2015/7486</p> <p>Photo point number: 101</p> <p>Photo point ID: Tussocks</p> <p>Lat: -38 15 439</p> <p>Long: 143 45 995</p> <p>Date: 20/10/2019</p> <p>Time: 11:01 am</p>	 <p>View from above quadrat.</p>
 <p>Landscape view looking South</p>	 <p>Landscape view looking West</p>
 <p>Landscape view looking North</p>	 <p>Landscape view looking East</p>

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 102

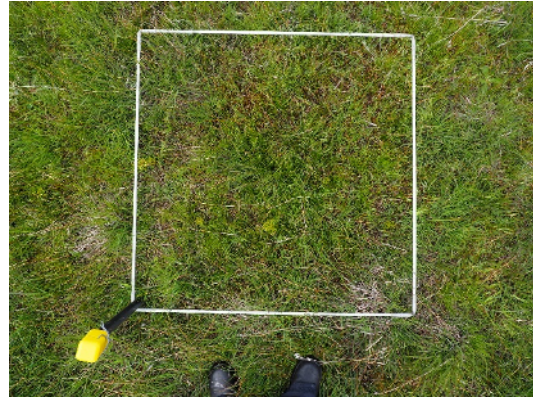
Photo point ID: Themeda

Lat: -38 15 478

Long: 143 45 981

Date: 20/10/2019

Time: 10:47 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 103

Photo point ID: Buttons

Lat: -38 15 748

Long: 143 46 174

Date: 20/10/2019

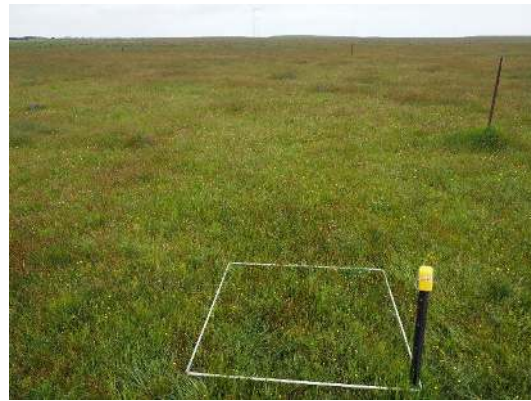
Time: 09:38 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 104

Photo point ID: Bent and Themeda

Lat: -38 15 605

Long: 143 46 133

Date: 20/10/2019

Time: 10:04 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 105

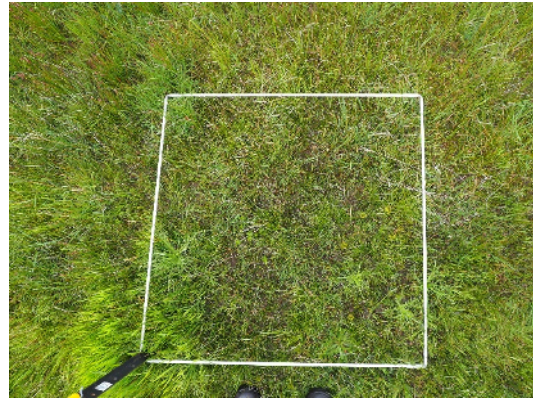
Photo point ID: Wallaby grass

Lat: -38 15 681

Long: 143 46 044

Date: 20/10/2019

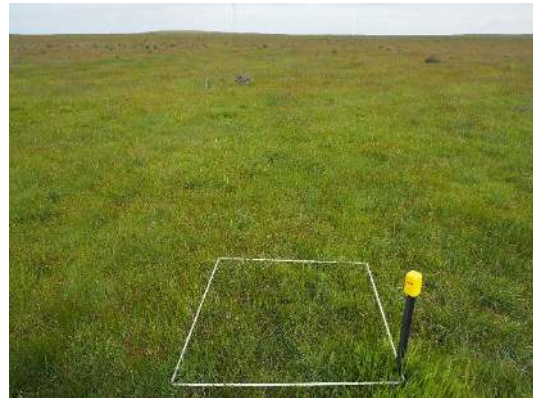
Time: 10:26 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 106

Photo point ID: Themeda south

Lat: -38 15 712

Long: 143 45 914

Date: 20/10/2019

Time: 11:39 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 107

Photo point ID: NW corner cell 6

Lat: -38 15 590

Long: 143 45 966

Date: 20/10/2019

Time: 11:58 am



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

## Photo Point Monitoring results

Offset Site: EPBC 2015/7486

Photo point number: 108

Photo point ID: NE corner cell 5

Lat: -38 15 638

Long: xxx

Date: 20/10/2019

Time: 12:23 pm



View from above quadrat.



Landscape view looking South



Landscape view looking West



Landscape view looking North



Landscape view looking East

**Table 5. Offset Management Plan: Vegetation Quadrat Assessment Results**

Photopoint Number	Average	108	107	106	105	104	103	102	101
Photo Point ID	EPBC	cell 5 NE corner	cell 6 NW corner	Themeda south	Wallaby grass	Bent and Themeda	Buttons and Lomandra	Themeda	Tussocks
GPS Southing	2015/7486	38 15 638	38 15 590	38 15 712	38 15 681	38 15 605	38 15 748	38 15 478	38 15 439
GPS Easting		143 46 298	143 45 966	143 45 914	143 46 044	143 46 133	143 46 174	143 45 981	143 45 995
Date & time	October 2019	20/10/2019 12:23 PM	20/10/2019 12:00 PM	20/10/2019 11:40 AM	20/10/2019 10:24 AM	20/10/2019 10:00 AM	20/10/2019 9:38 AM	20/10/2019 10:43 AM	20/10/2019 11:01 AM
Total Vegetation Cover	80%	95%	80%	70%	70%	90%	80%	80%	75%
Total Native Vegetation Cover	60%	50%	73%	60%	55%	50%	65%	70%	60%
Graminoids	53%	45%	65%	55%	50%	45%	55%	60%	50%
Herbs	7%	5%	8%	5%	5%	5%	10%	10%	10%
Total Weeds	20%	45%	7%	10%	15%	40%	15%	10%	15%
Total Grasses	16%	44%	6%	8%	12%	35%	8%	3%	10%
Grasses – perennial	10%	30%	3%	3%	7%	30%	0%	0%	5%
Grasses – annual	6%	14%	3%	5%	5%	5%	8%	3%	5%
Dicots	4%	1%	1%	2%	3%	5%	7%	7%	5%
Bare Ground	18%	3%	18%	29%	30%	8%	18%	17%	20%
Litter	2%	2%	2%	1%	0%	2%	2%	3%	5%
Moss – present or absent	7 / 8	present	present	present	present	present	absent	present	present
Inter-tussock space	26%	7%	28%	35%	35%	10%	30%	30%	30%
Biomass monitoring									(rock)
Average biomass height (cm)	7.76	9.80	7.80	4.50	7.60	9.60	7.60	6.60	8.60
Average height (cm)	20.65	24.20	18.60	21.20	17.40	24.00	14.83	20.20	24.80

## Table 6. Offset Management Plan: Vegetation Quadrat Assessment species recorded

For each photo point and quadrat survey, all species found within the 1m<sup>2</sup> quadrat have been indicated by "1m<sup>2</sup>". Any further species recorded in 1 m surrounding the 1m<sup>2</sup> quadrat have been indicated by a 9m<sup>2</sup>.

Origin	Scientific name	Common name	Photo point: 108	Photo point: 107	Photo point: 106	Photo point: 105	Photo point: 104	Photo point: 103	Photo point: 102	Photo point: 101
native	<i>Acaena ovinum</i>	Sheep's Burr			1m <sup>2</sup>	9m <sup>2</sup>	9m <sup>2</sup>			1m <sup>2</sup>
native	<i>Arthropodium strictum</i>	Chocolate Lily		1m <sup>2</sup>			1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	
native	<i>Asperula conferta</i>	Common Woodruff					9m <sup>2</sup>		9m <sup>2</sup>	
native	<i>Austrostipa spp.</i>	Spear Grass		1m <sup>2</sup>			9m <sup>2</sup>	9m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>
native	<i>Convolvulus erubescens</i>	Blushing Bind Weed			9m <sup>2</sup>	1m <sup>2</sup>			1m <sup>2</sup>	
native	<i>Drosera peltata</i>	Pale Sun Dew	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	
native	<i>Drosera whittakeri</i>	Scented Sun Dew							9m <sup>2</sup>	
native	<i>Eryngium ovinum</i>	Blue Devil	1m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	
native	<i>Gonocarpus tetragynus</i>	Raspwort	1m <sup>2</sup>	1m <sup>2</sup>		1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>		
native	<i>Hypericum gramineum</i>	Small St-John's wort								9m <sup>2</sup>
native	<i>Hypoxis glabra</i>	Tiny Star			9m <sup>2</sup>					
native	<i>Isolepis cernua</i>	Nodding Club Rush	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>
native	<i>Juncus subsecundus</i>	Finger Rush	9m <sup>2</sup>		9m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>		9m <sup>2</sup>	
native	<i>Leptorhynchus squamatus</i>	Scaly Button	1m <sup>2</sup>	1m <sup>2</sup>		1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	
native	<i>Lomandra nana</i>	Pale Mat Rush					9m <sup>2</sup>	1m <sup>2</sup>		9m <sup>2</sup>
native	<i>Microtis unifolia</i>	Onion Orchid		1m <sup>2</sup>			9m <sup>2</sup>			
native	<i>Oxalis perennans</i>	Grassland Wood Sorrel	9m <sup>2</sup>		1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>		1m <sup>2</sup>	1m <sup>2</sup>
native	<i>Plantago gaudichaudii</i>	Narrow-leaf Plantain							9m <sup>2</sup>	
native	<i>Poa labillardierei</i>	Silver Tussock			9m <sup>2</sup>		9m <sup>2</sup>			1m <sup>2</sup>
native	<i>Poa morrisii</i>	Velvet Tussock Grass		1m <sup>2</sup>						

Origin	Scientific name	Common name	Photo point: 108	Photo point: 107	Photo point: 106	Photo point: 105	Photo point: 104	Photo point: 103	Photo point: 102	Photo point: 101
native	<i>Rumex dumosus</i>	Wiry Dock			1m <sup>2</sup>					
native	<i>Rytidosperma spp.</i>	Wallaby Grass spp.		1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>
native	<i>Schoenus apogon</i>	Common Bog Rush	1m <sup>2</sup>	1m <sup>2</sup>		1m <sup>2</sup>		1m <sup>2</sup>	1m <sup>2</sup>	
native	<i>Solenogyne dominii</i>	Solenogyne		1m <sup>2</sup>			1m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	
native	<i>Thelymitra spp.</i>	Sun Orchid			9m <sup>2</sup>					
native	<i>Themeda triandra</i>	Kangaroo Grass	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>
exotic	<i>Agrostis capillaris</i>	Brown Top Bent	1m <sup>2</sup>	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>		9m <sup>2</sup>	
exotic	<i>Aira caryophyllea</i>	Silver Hair Grass	1m <sup>2</sup>							
exotic	<i>Avena fatua</i>	Wild Oat							9m <sup>2</sup>	
exotic	<i>Briza minor</i>	Lesser Quaking Grass	1m <sup>2</sup>	1m <sup>2</sup>		1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>
exotic	<i>Cicendia spp.</i>	Cicendia				1m <sup>2</sup>	1m <sup>2</sup>		9m <sup>2</sup>	
exotic	<i>Cirsium vulgare</i>	Spear Thistle								9m <sup>2</sup>
exotic	<i>Holcus lanatus</i>	Yorkshire Fog	9m <sup>2</sup>			9m <sup>2</sup>				1m <sup>2</sup>
exotic	<i>Hypochaeris radiata</i>	Flat Weed	9m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>
exotic	<i>Lolium perenne</i>	Rye Grass								1m <sup>2</sup>
exotic	<i>Phalaris aquatica</i>	Toowoomba Canary Grass	1m <sup>2</sup>							
exotic	<i>Plantago coronopus</i>	Buck's Horn Plantain				1m <sup>2</sup>	1m <sup>2</sup>			1m <sup>2</sup>
exotic	<i>Poa annua</i>	Annual Meadow Grass		1m <sup>2</sup>						
exotic	<i>Romulea rosea</i>	Onion Grass	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	
exotic	<i>Trifolium angustifolium</i>	Narrow Leaf Clover		1m <sup>2</sup>		1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>	1m <sup>2</sup>
exotic	<i>Trifolium subterraneum</i>	Sub Clover	1m <sup>2</sup>				9m <sup>2</sup>	1m <sup>2</sup>		9m <sup>2</sup>
exotic	<i>Vulpia bromoides</i>	Squirrel Tail Fescue		9m <sup>2</sup>			9m <sup>2</sup>			

**Table 8. Table of works completed**

Note: 1x indicates 1 person; 2x indicates 2 people.

Date	Works undertaken	Time spent
23/05/2019	Biomass control: Cool ecological burn	3x7 hours
01/02/2019	Biomass control: Stock (sheep) movement. Intensity 800 ewes, 5 days, 1/3rd site (cel 3)	1x2 hours
25/04/2019	Biomass control: Stock (sheep) movement. Intensity 1500 ewes, 2 days, 1/3rd site (cell 3)	1x2 hours
03/07/2019	Biomass control: Stock (sheep) movement. Intensity 500 ewes, 6 days, 1/3rd site (cell 3)	1x2 hours
23/01/2019	Biomass control: Stock (sheep) movement. Intensity 800 ewes, 6 days, 1/3rd site (cell 5)	1x2 hours
24/04/2019	Biomass control: Stock (sheep) movement. Intensity 1500 ewes, 3 days, 1/3rd site (cell 5)	1x2 hours
21/06/2019	Biomass control: Stock (sheep) movement. Intensity 500 wethers, 3 days, 1/3rd site (cell 5)	1x2 hours
24/01/2019	Biomass control: Stock (sheep) movement. Intensity 800 ewes, 3 days, 1/3rd site (cell 6)	1x2 hours
04/04/2019	Biomass control: Stock (sheep) movement. Intensity 1500 ewes, 3 days, 1/3rd site (cell 6)	1x2 hours
24/06/2019	Biomass control: Stock (sheep) movement. Intensity 500 wethers, 3 days, 1/3rd site (cell 6)	1x2 hours
24/12/2019	Weed Control: African Weed Orchid removal	
04/11/2019	Weed Control: Salsify removal	1x2 hours
07/08/2019	Weed Control: Spot spray of Phalaris	1x5 hours
01/11/2019	Weed Control: Spot spray grassy weeds	1x5 hours
20/10/2019	Weed Control: Spot spray grassy weeds	1x2 hours
04/11/2019	Weed Control: Thistle chipping	1x3 hours

Date	Works undertaken	Time spent
20/10/2019	Weed Control: Thistle chipping	1x2 hours
20/10/2019	Monitoring and Reporting: Photo Point survey and monitoring	2x7 hours
Jan / Feb 2020	Monitoring and Reporting: Report writing	1x5 days
Nov-2019	Monitoring and Reporting: Engaging ecological consultants to undertake assessments	1x1 hour
Jan-2020	Monitoring and Reporting: Engaging land surveyor to mark out Offset Site	1x1 hour
Aug-2019	Monitoring and Reporting: Liaison with stakeholders including consultants, state government regarding reporting requirements	1x1 hour
Jan-2020	Monitoring and Reporting: Liaison with stakeholders including consultants, state government regarding reporting requirements	1x1 hour

**Table 9. Annual report declaration of accuracy and completion**

Site Zone	Management Action	Management action description	Timing	Completed (Yes/No)	Include or attach supporting evidence of actions completed / comments / observations
All	Annual report is signed, dated and submitted by the landowner at least 1 month before the anniversary date of the agreement. The annual report is a useful opportunity to make comprehensive comments and observations, giving a picture of the current condition of the site(s), issues identified, works undertaken and actions still required. You are encouraged to create a separate report to include in your annual reporting each year that captures this detailed information. The benefits of monitoring your vegetation condition and identifying issues and management undertaken, is that it aids you to gauge the success of management on the condition of native vegetation over time. The Department is also able to use this information to assist with the assessment of your compliance with the agreement and provides us with useful information and data for future management advice. Obligations of the landowner (compliance with section 6 of the Landowner Agreement) have been met, and I have read, signed, dated and submitted the obligations form with the annual report. Where the actions were not carried out provided evidence as to the reason why.	<p>Include supporting evidence by:</p> <p>Obligations of the landowner form</p> <p>Payment method is correct</p> <p>Detailed written observations &amp; additional report</p> <p>Photo point monitoring</p> <p>Map of zones &amp; photo points</p> <p>Photographs of works undertaken</p> <p>Receipts/invoices for materials &amp; works carried out, including by contractors</p> <p>Logbook of works carried out</p> <p>Receipts: seeds, seedlings purchased, list of species, No. each species (estimate No. seeds), provenance</p> <p>Site log: list of No. species planted, recruiting or germinated, incl. No. each species by life form that are present/survived and/or were replaced</p>	Submit at least 1 month prior to agreement anniversary date	<p>Yes (Page 4)</p> <p>Not Applicable</p> <p>Yes (Table 1-3)</p> <p>Yes (Tables 4-6)</p> <p>Yes (Figure 1)</p> <p>Yes (Plates 1-9)</p> <p>Yes (Figure 2)</p> <p>Yes (Table 8)</p> <p>Not Applicable</p> <p>Not Applicable</p>	<p>Where applicable:</p> <p>Obligations of the landowner form</p> <p>Payment method is correct</p> <p>Detailed written observations &amp; additional report</p> <p>Photo point monitoring</p> <p>Map of zones &amp; photo points</p> <p>Photographs of works undertaken</p> <p>Receipts/invoices for works carried out, including by contractors</p> <p>Logbook of works carried out</p> <p>Receipts seeds/seedlings, provenance, table of species list &amp; numbers</p> <p>Site log / table of plantings/germination &amp; survival numbers by life form</p>

I hereby declare that the supplied information is accurate and complies with reporting requirements under General Conditions under the Second Schedule of the DELWP Management Agreement.

Signed:

.....  .....

Date: 24 / 02 / 2020

## **Pictures documenting actions undertaken during management period.**



**Plate 1.** Chipping of Spear Thistles and Salsify within the Offset Site



**Plate 2.** Bag of Salsify Chipped out and removed from Offset Site.



**Plate 3.** Spot spraying of grassy weeds such as Perennial Rye-grass and Sweet Vernal near Photo Point within Offset Site



**Plate 4.** Creamy Candles recently found within Offset Site (not previously observed in paddock or near-by).



**Plate 5.** Pale Sun Dew recorded within the Offset Site.



**Plate 6.** Common Rice Flower in flower nestled within a tussock of Kangaroo Grass. Common Rice Flower has only recently been found within Offset Site (not previously observed within the paddock or near-by).



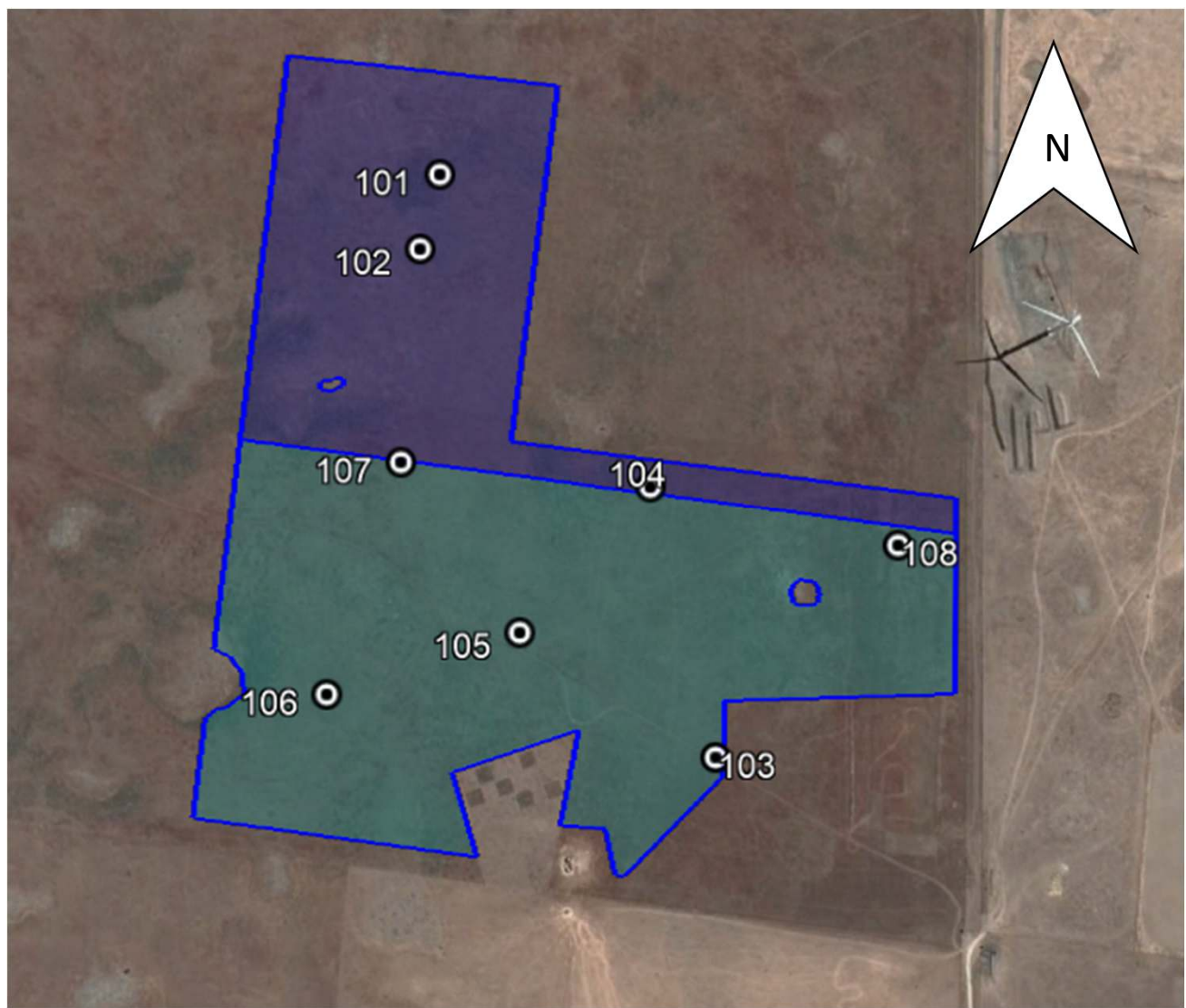
**Plate 7.** Cool, ecological burn undertaken in 2A in an area dominated by a mix of Kangaroo Grass, Wallaby Grasses and Brown-top Bent.



**Plate 8.** Cool, ecological burn undertaken in 2A in an area dominated by a mix of Kangaroo Grass, Wallaby Grasses and Brown-top Bent, photo point 105 is visible in foreground marked by a star with a yellow cap.



**Plate 9.** Cool, ecological burn undertaken in 2A in an area dominated by Kangaroo Grass, near photo point 106.



## Figure 1:

### Location of Photo Points within Offset Site

435 McDonnells Road

Ombersley (Birregurra), Victoria

EPBC 2015/7486

VC-CFL-3044 LA02



Offset Site



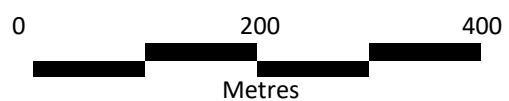
Offset Zone 1A



Offset Zone 2A



Location of Photo Points



## References

- Bransbury DLaT, N. M. (1977). The disc pasture meter: Possible applications in grazing management. *Proceedings of the Grasslands Society of South Africa* **5**, 115-118.
- Catchpole WRaW, C. J. (1992). Estimating plant biomass: A review of techniques. *Australian Journal of Ecology* **17**, 121-131.
- Ecology and Heritage Partners Pty Ltd (2019). 'Offset Management Plan: 435 McDonnells Road Ombersely (Birregurra), Victoria (EPBC 2015/7486) '.

## **Appendix A.1**

### **Section 8: Annual monitoring of habitat and effectiveness of management actions**

The Landowner undertakes to establish seven permanent photo-points across the offset site. These points will be marked via GPS and shown on a Figure. Photographs taken from these points will be representative of the vegetation and objectives of the OMP (e.g. areas of high threat weed invasion). Photographs will be taken in October annually and clearly labelled. Each photo will be taken from as near to the same point each year and will use the same direction, trajectory and camera settings as is practicable.

Annual monitoring must be undertaken by the landowner (or an appointed entity on behalf of the landowner), and must include an assessment of:

- Photographs taken at seven established photo-points;
- The extent, severity, trend and presence of current weed species and any new and emerging weed species.
- The extent, severity, trend and presence of pest animal activity;
- Biomass levels, visually assessed across the site;
- Evidence of unpermitted human/stock access; and,
- Any new threats.

The annual monitoring must be undertaken for each year of the ten years of this Offset Management Plan, and every year following for the life of the projects approval under the EPBC Act (ie. until July 2030)

## Appendix A.2

### Section 8.4: Reporting

To demonstrate that the management measures are effective in meeting the environmental outcomes, this OMP requires the landowner to submit a report annually to DELWP and DoEE for each year of the ten years of this Offset Management Plan, and every year following for the life of the projects approval under the EPBC Act (ie. until July 2030).

Photographs and reports are to be submitted at least 2 months prior to the anniversary date of the execution of the agreement to allow time for compliance to be assessed before the anniversary date.

The report must address progress against the commitments set out in this agreement and the conditions of the EPBC Act referral (EPBC 2015/7486). Reports should provide enough detail in the form of written comments and supporting evidence that an assessor can easily determine the completion of/progress against the commitments for each zone.

- Information to be provided in the progress report includes:
- Detailing actions completed during the reporting period;
- Results of SLL population monitoring;
- Results of vegetation condition assessment (Habitat Hectare Assessment);
- A description of the specific monitoring results from ecological surveys undertaken;
- Results of weed and pest animal control work;
- Successful management tools (i.e. techniques used to control weed species, monitoring technique, etc.);
- Any problems or issues experienced (i.e. new infestation of weed species, etc.);
- Any corrective actions and contingency measures where monitoring indicates that there has been a deterioration in the native vegetation or SLL population;
- Photographs showing evidence of works; and,
- Assessment on how the site is on track to meet, or meets the conditions of the conditions under the EPBC referral (EPBC 2015/7486), including an assessment against the EPBC offset gain calculator inputs

If any agreed management actions or commitments are incomplete or have not been undertaken in the times specified, the landowner is to document the justification and the substituted actions that will be undertaken in order to compensate and ensure the required outcomes are achieved.

All records/evidence of management actions must be maintained, and be submitted to DoEE upon request.

## **Appendix A.3**

### **Section 8.2: Detailed vegetation monitoring (Years 1-4, 6, 8 and 10)**

Detailed vegetation monitoring will be conducted by a qualified ecologist for an initial four year period, and then in years 6, 8 and 10 of this management plan, and will document the following components:

- Overall assessment of the quality and quantity of vegetation and composition of species (i.e. Habitat Hectare assessment\*);
- Biomass levels, assessed through 14 x 1 m<sup>2</sup> sampling plots equidistant along the offset site; and,
- The extent, severity, trend and presence of current weed species and any new and emerging weed species.

\* Department of Sustainability and Environment 2004. Vegetation quality assessment manual: Guidelines for applying the habitat hectares scoring method. Version 1.3. Victorian Department of Sustainability and Environment, Melbourne Victoria

## Appendix A.4

### Section 8.3: Striped Legless Lizard population monitoring (Years 1-4, 6, 8 and 10)

In addition to annual monitoring outlined in Section 8.1.1, appropriate monitoring of SLL will be undertaken for an initial four year period, and then in years 6, 8 and 10 of this management plan, or thereafter upon written agreement with the Commonwealth Minister for Environment. If the results indicate a decline in the population size or habitat degradation becomes evident, actions within this management plan will be re-evaluated. If any changes to management are required in the landowners' view, a revised management strategy must be approved by DoEE prior to implementation. Monitoring of SLL habitat must be undertaken by a suitably qualified ecologist(s).

Specific survey procedures will follow those approved monitoring guidelines for SLL prepared by DoEE\*. The following measures will be undertaken as part of population and habitat monitoring for SLL at the offset site:

Surveys are to be conducted by suitably trained observers;

As the offset site is contiguous with other conservation areas managed for the same conservation values, monitoring for SLL may be undertaken across the broader area (thereby reducing the survey effort required within each individual conservation/offset site). However, a minimum of ten monitoring grids, containing 50 tiles each, must be located within the offset site outlined within this plan, or within adjacent conservation areas. At least three of these grids must be located within the offset site outlined within this plan (ie the remaining seven grids may be located within adjacent conservation areas). These tile grids must be maintained and checked a minimum of two times between October – November;

- Shelter sites will be checked when ambient temperatures do not exceed 28°C. Grids may be checked during summer/autumn for the presence of shed skin; and,
- Checking more frequently than once or twice a week may lead to SLL abandoning the artificial shelters, as such, tile checks at this frequency should be avoided.

\* Department of Sustainability, Environment, Water, Population and Communities 2011. Survey guidelines for Australia's threatened reptiles, EPBC Act survey guidelines 6.6.

## **Appendix A.5**

### **Landowner Agreement: Compliance with the Obligations of the Landowner**

#### **Management of the site**

In relation to the Site, the Landowner covenants and agrees:

5.4 to complete the Management Actions for the purpose of achieving the Management Commitments, to the standards required by the Site Management Plan and to the satisfaction of the Secretary, regardless of whether all Native Vegetation Credits have been sold to other people. Where the Landowner has completed the Management Actions specified in the Site Management Plan to the satisfaction of the Secretary, but a Management Commitment is not achieved for reasons out of the control of the Landowner, the Secretary will not withhold any payment to the Landowner;

5.5 to allow the Secretary and the Secretary's officers, employees, agents, contractors, invitees and licensees access to, and entry onto the Site in accordance with this Agreement or the Conservation Forests and Land Act 1987; and

5.6 to undertake the works required to implement the Site Management Plan in compliance with all relevant laws, regulations and statutes, including subordinate instruments and authorisation.

#### **Protection of Native Vegetation**

5.7 The Landowner must:

5.7.1 not cause or consent to the removal, destruction, lopping or any other interference with any Native Vegetation on the Site;

5.7.2 take all reasonable steps to ensure that no Native Vegetation on the Site is removed, destroyed, lopped or otherwise interfered with; and

5.7.3 subject to clause 6.4, not apply for, or consent to an application for, a permit under the Planning and Environment Act 1987 (Vic) to remove, destroy or lop Native Vegetation on the Site.

#### **Protection of other habitat**

5.8 Subject to clauses 2.13 and 6.4, the Landowner must:

5.8.1 not cause or consent to the removal or interference with any rocks or fallen vegetation on the Site; and

5.8.2 take all reasonable steps to ensure that no rock or fallen vegetation on the Site is removed or interfered with.

#### **Exclusion of livestock**

5.9 Subject to clauses 2.13 and 6.4, and except as provided for in any Management Notice under clause 7, the Landowner must:

5.9.1 not cause or consent to the introduction of any livestock on the Site; and

5.9.2 take all reasonable steps to ensure that no livestock enter or remain on the Site.

**Introduction of animals other than livestock**

- 5.10 Subject to clauses 2.13, 5.11 and 6.4, the Landowner must:
- 5.10.1 not bring, or consent to the bringing of, any Domestic Animal onto the Site; and
  - 5.10.2 take all reasonable steps to exclude any Domestic Animal that enters onto the Site.

5.11 The Landowner may bring domestic dogs on to the Site provided that any dogs so brought are under the immediate control of the Landowner or another person authorised by the Landowner at all times.

**Installation or upgrade of fencing**

- 5.12 This clause applies if the Site is adjacent to any land from which any stock or person (whether or not the person is in a vehicle):
- 5.12.1 has ready access to the Site;
  - 5.12.2 is reasonably likely to have ready access to the Site; or
  - 5.12.3 becomes reasonably likely to have ready access to the Site.

5.13 If clause 5.12 applies, the Landowner must, subject to clause 6.4, ensure that there is adequate fencing and gates between the land and the Site so as to protect the Site from being readily accessible by stock or persons.

- 5.14 Subject to clause 6.4, any works required under clause 5.13 must be carried out:
- 5.14.1 in the case of a site to which clauses 5.12.1 or 5.12.2 apply at the Commencement of this Agreement, within three months of the Commencement Date of this Agreement or at any earlier time specified in the Site Management Plan; or
  - 5.14.2 in any other case, within three months of any change in circumstance that creates a reasonable likelihood of any stock or person having ready access to the Site for the purposes of clause 5.12.3, or at any earlier time specified by the Secretary by written notice to the Landowner.

**Maintenance of fencing**

5.15 Subject to clause 6.4, the Landowner must maintain any fencing required by clause 5.10.2 or clause 5.13 in good repair and condition at all times.

**Statutory pest management obligations**

- 5.16 From the Commencement Date of this Agreement and on an ongoing basis, the Landowner must, in relation to the Site, ensure compliance with:
- 5.16.1 the requirement to prevent the growth and spread of Regionally Controlled Weeds under section 20(1)(e) of the Catchment and Land Protection Act 1994 (Vic);
  - 5.16.2 the requirement to prevent the spread of, and as far as possible, eliminate established pest animals under section 20(1)(f) of the Catchment and Land Protection Act 1994 (Vic); and
  - 5.16.3 the requirement to eradicate Regionally Prohibited Weeds under section 20(1)(d) of the Catchment and Land Protection Act 1994 (Vic).

**Weeds identified in Site Management Plan**

5.17 The Landowner must, to the extent specified in the Site Management Plan, eradicate or prevent the growth and spread of any Weed or other plant as specified in the Site Management Plan.

### **Application of fertiliser**

5.18 The Landowner must:

- 5.18.1 not apply any fertiliser to any part of the Site;
- 5.18.2 not consent to the application of any fertiliser to any part of the Site; and
- 5.18.3 take all reasonable steps to ensure that fertiliser is not applied to any part of the Site.

### **Buildings and structures**

5.19 Subject to clauses 2.13, 6.4 and 5.20, the Landowner must:

- 5.19.1 not erect or place any building or structure on the Site; and
- 5.19.2 take all reasonable steps to ensure that no building or structure is placed on the Site by any other person.

5.20 The Landowner may erect temporary structures on the Site as part of any grazing of livestock authorised under the Site Management Plan, consent under clause 6.4 or Management Notice under clause 7.

### **Alterations to the natural state of water bodies**

5.21 Subject to clauses 2.13 and 6.4, the Landowner must not cause or consent to, and must take all reasonable steps to avoid any occurrence of, any act which alters the natural state of, or the flow, supply, quantity or quality of, any body of water on to or from the Site.

### **Rubbish and other materials**

5.22 The Landowner must not cause or consent to, and must take all reasonable steps to avoid, the dumping of any rubbish or the storage of any materials on the Site.

### **Further restrictions on using the land**

5.23 Subject to clause 6.4, the Landowner must not cause or consent to any of the following, and must take all reasonable steps to ensure that the following do not occur on the Site:

- 5.23.1 the removal, introduction or disturbance of any soil, rocks or other minerals or the construction of dams or modification of existing dams;
- 5.23.2 subdivision;
- 5.23.3 the operation of any trade, industry or business;
- 5.23.4 the recreational use of trail bikes or four wheel drive vehicles;
- 5.23.5 the carrying out of any works on the Site other than those required by this Agreement or by law; and
- 5.23.6 the carrying out of any other activities not consistent with the purposes of this Agreement.

### **Extractive industry and utility installations**

5.24 The Landowner must not permit, unless required by law:

- 5.24.1 the issue of any licence or approval for exploration, mining, extraction or production of gas, petroleum, minerals or other substances on the Site; or
- 5.24.2 the installation of any transmission lines or other services or works on the Site.

5.25 The Landowner must bring this Agreement to the attention of any person who notifies the Landowner that they have applied for or will be applying for a licence, approval or proposal to take an action of the kind described in clauses 5.24.1 and 5.24.2, and to any other person or body whose approval is required to take that action.

5.26 The landowner must notify the Secretary of any notification of an application for a licence, approval or proposal to take an action of the kind described in clauses 5.24.1 and 5.24.2.