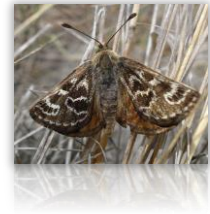


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Landowner of offset site	Ian and Trish Taylor
Location and address of offset site	“860 Paddock” Warrambeen Pty Ltd, Rokewood – Shelford Rd, Shelford.
Interested Party	Dacland Stage 1
Offset site reference number	
Responsible Authority	Golden Plains Shire, DoE and DELWP
Report number / Year Start Year	Year 2 / 2017 2015
Type of Offset Size of Offset	Vegetation 4.9 Ha
Signature	
Date	May 30, 2018

Information to be included:

- A copy of the Management Action Table from the OMP with information on which actions have been completed for the year/s of this reporting period;
- A description of the specific monitoring results from surveys undertaken for vegetation/flora species;
- Fencing work;
- Success of weed and pest animal control work;
- 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, storm damage to fencing, etc.)
- Include any corrective actions and contingency measures where monitoring indicates that there has been a degradation in the native vegetation and Golden Sun Moth population and habitat; and,
- Provide any photographs showing evidence of works.

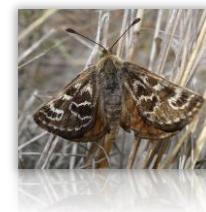


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Summary of Independent Monitoring Report

(Excerpt from Brett Lane and Associates December 2017)

Two state listed threatened flora species were recorded during the offset site monitoring; Small Milkwort and Small Scurf-pea. While two plants of Small Milkwort were recorded, numerous Small Scurf-pea plants were recorded, namely in the western part of Stage 1.

Weed species currently contribute to approximately 35% of the vegetative cover in the offset site. Under the offset plan (BL&A 2015), to achieve site gain all weeds are required to be controlled such that their cover does not increase beyond original levels. In addition to this, there are obligations for land managers under the Catchment and Land Protection Act 1994 with respect to eradicating regionally prohibited weeds and preventing the growth and spread of regionally controlled weeds. The pest plant species recorded on-site and their percentage cover at the time of the current survey are included in Table 5.

Five additional weed species were recorded in the offset site that were not previously recorded in Year 1. This included Barley Grass, Large Quaking-grass, Onion Grass, Sweet Vernal Grass and Toowoomba Canary Grass.

Weed cover levels of some weed species previously recorded were noted as having increased. This included Oat and Squirrel Tail Fescue, which both increased in cover. The cover of Clover was noted as having largely decreased.

While the cover and diversity of native grassland species at the offset site is still at a healthy level, the weed cover at the site seems to have increased since the Year 1 monitoring. Weed control methods must be implemented in the coming year to target particular species, namely Oat and Yorkshire Fog.



Fencing work

Fencing undergoes regular checks and maintenance as per the Farm program, all are in good condition and stock proof.

Success of weed and pest animal control work

Biomass Control:

- Crash grazing with sheep occurred throughout the winter.
- Serrated Tussock: - Sprayed with Round up and wetting agent in a grid formation.
- Assessment of the site (BL&A) found that the current grazing pressure at the time of the survey was low, suggesting appropriate timing and extent of biomass reduction of the past 12 months since the previous survey of this site.
- No signs of pugging.

Weed Cover / Control:

During monitoring Serrated Tussock and Sweet Briar were not recorded this year.

Mr Phil Sparkes was engaged to grid spray the paddock.

- Fluroproponate, Round Up and colour dye.
- Low numbers of serrated tussock found.
- Very happy with current level of control.

Fox and Rabbit Control:

- Ongoing Bi Monthly shooting programme maintained with registered shooter.
- The anecdotal evidence of Brown Hare, European Rabbit or Red Fox detected during the pest animal survey was extremely low.



Successful management tools

(i.e. techniques used to control weed species, protection of new plants, monitoring technique, etc.)

The combination of Grid Spraying in spring and crash grazing in the dryer months is proving to be successful in reducing Biomass and weed control.

Problems or issues experienced

(i.e. new infestation of weed species, storm damage to fencing, etc.)

The coming year we will have to concentrate our efforts on reducing Oat and Yorkshire Fog Grass within the offset paddock. By changing the grazing regime, (see below), our hope is that as these introduced species are in their peak growth period, the intensive grazing will reduce not only the plants but the seed banks for future years.

Since the ecology survey was performed, the whole region has experienced an influx of the high threat Saffron Thistle. We have had lengthy discussions with Ecology specialists and are currently working on ways to treat the threat quickly and effectively. Warrambeen will be applying to the appropriate bodies to allow a change to grazing methods. Allowing stock to remain longer on the area, until the end of October, and with an Ecologist's approval, longer should it be required. The methodology behind this is reducing the seed bank, and plant life during the growth time of the introduced species and removing the sheep prior to the peak time the native species flower. This is supported by the Mavrohihalis et al (2013) review.

Photos

Photographs on USB stick are available on request.

Management Plan 2018

Targets

- No soil pitting caused by sheep.
- Vegetation cover to remain >10cm high with no more than 30% bare ground
- High threat weed cover benchmark not exceeded
- Overall weed cover benchmark not exceeded
- Maintain integrity of fencing



Attachments

Management action tables

The following tables identify specific management actions and targets pertaining to the management of the proposed offset.

Table 1: Year 1 actions

Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Estimate the following conditions: - Overall weed cover; - cover of each weed species; - cover of each high threat woody weed species Refer to for cover of weed species	Commencement of plan	- Overall weed cover benchmark* documented; <i>High threat</i> woody weed cover benchmark* documented; - Cover of each weed species listed in documented; - Cover of each <i>high threat</i> woody weed species listed in documented.	Warrambeen Gumley Land Trust	YES	JULY 2016
Check fencing around paddock.	Commencement of plan	Fencing must prevent entry of threatening herbivores.	Warrambeen Gumley Land Trust	YES – PART OF ROUTINE FARM M'MENT	2016
Rabbit Control to be carried out if required – Fumigate and collapse burrows where present.	Late Summer/Autumn	<5% survival of target; <2% death of non target species.	Warrambeen Gumley Land Trust	BI MONTHLY SHOOTING	2016



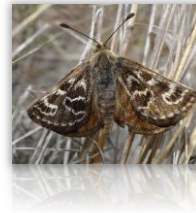
Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Weed control: - Treat <i>high threat</i> woody weeds as per table 11; - Treat other weeds species if required.	Spring	- Cover of each <i>high threat</i> woody weed species reduced to <1%; - Cover of each weed species maintained at current level <i>High threat</i> weed cover benchmark* not exceeded; - Overall weed cover benchmark* not exceeded.	Warrambeen Gumley Land Trust	YES	2016
Monitoring: - Estimate overall weed cover and cover of each <i>high threat</i> [woody] weed species (refer as per table 11); - Establish photo points - Assess integrity of offset zone fencing; - Assess level of grazing pressure; - Monitor compliance with land-use commitments and other management commitments. - Monitor quality of NTGVVP	Spring	Monitoring results to be documented and retained for reporting purposes. Results should also inform management approaches and techniques.	Ecologist	YES	DEC 2016

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Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Report to be prepared documenting management actions undertaken and monitoring results. Report structure and content to be prescribed by DELWP and the Responsible Authority.	first year after start of management	Report delivered to the Responsible Authority and DoE no later than three months after the due date.	Warrambeen Gumley Land Trust / Ecologist	YES	MARCH 2017

* = The overall weed cover benchmark is an estimate of the overall weed cover at the commencement of the offset plan. This informs both contractors and auditors of the plan in ensuring that overall weed cover does not increase beyond that benchmark.

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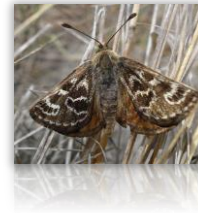


Table 2: Years 2-3 actions

Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Rabbit Control to be carried out if required – Fumigate and collapse burrows where present or shooting	All years as required	<5% survival of target; <2% death of non target species.	Warrambeen Gumley Land Trust	YES	BI MONTHLY
Weed control: - Treat <i>high threat</i> woody weeds as per table 11; - Treat other weeds species if required.		- Cover of each <i>high threat</i> woody weed species reduced to <1%; - Cover of each weed species maintained at current level <i>High threat</i> weed cover benchmark* not exceeded; - Overall weed cover benchmark* not exceeded.	Warrambeen Gumley Land Trust	YES	August and December 2017

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Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Monitoring: - Estimate overall weed cover and cover of each <i>high threat</i> [woody] weed species (refer to table 11); - Take pictures at photo points - Assess integrity of offset zone fencing; - Assess level of grazing pressure: - Monitor compliance with land-use commitments and other management commitments. - Monitor quality of NTGVVP	Spring	Monitoring results to be documented and retained for reporting purposes. Results should also inform management approaches and techniques.	Ecologist	YES	NOV 2017
Year 2: Fence maintenance to be carried out if required	Following monitoring	Integrity of fencing maintained to exclude entry of threatening herbivores	Warrambeen Gumley Land Trust	YES	Fence Maintenance carried out as required in farm schedule

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Management Action	Timing	Target to be achieved	Responsible person	Completed (Yes/No)	Month and Year Completed
Biomass Control: ▪ Sheep to be moved onto site in mid summer and removed before autumn rains, if appropriate ▪ Possibly subdivision of the site through electrical fencing to apply crash grazing for short periods and ensure no species are taken out selectively by sheep ▪ Small areas (< 4 ha) could be burned in consultation with the ecologist	Late Summer – Autumn/Early Winter	▪ No soil pitting cause by sheep. ▪ Vegetation cover to remain >10cm high with no more than 30% bare ground.	Warrambeen Gumley Land Trust	YES	03.05.2017 – 06.06.2017 (2075 x Year 1 Wethers) 12.06.2017 – 28.08.2017 (497 x Mature Single Ewes)
Report to be prepared documenting management actions undertaken and monitoring results. Report structure and content to be prescribed by DoE and the Responsible Authority.	Second year after start of management	Report delivered to the Responsible Authority and DoE no later than three months after the due date.	Warrambeen Gumley Land Trust / Ecologist		

* = The overall weed cover benchmark is an estimate of the overall weed cover at the commencement of the offset plan. This informs both contractors and auditors of the plan in ensuring that overall weed cover does not increase beyond that benchmark.

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Table 3: Years 4-10 actions

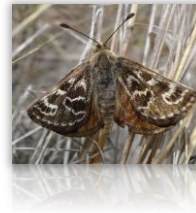
Management Action	Target to be achieved	Responsible person	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Rabbit Control to be carried out if required – Fumigate and collapse burrows where present or shooting	<5% survival of target; <2% death of non target species.	Warrambeen Gumley Land Trust		X		X		X	
Weed control: - Treat <i>high threat</i> woody weeds as per table 11; - Treat other weeds species if required.	- Cover of each <i>high threat</i> woody weed species reduced to <1%; - Cover of each weed species maintained at year 1 level <i>High threat</i> weed cover benchmark* not exceeded; - Overall weed cover benchmark* not exceeded.	Warrambeen Gumley Land Trust	X	X	X	X	X	X	X

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Management Action	Target to be achieved	Responsible person	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Monitoring: - Estimate overall weed cover and cover of each <i>high threat</i> woody weed species (refer to table 11); - Take pictures at photo points; - Assess integrity of offset zone fencing; - Assess level of grazing pressure; - Monitor compliance with land-use commitments and other management commitments.	Monitoring results to be documented and retained for reporting purposes. Results should also inform management approaches and techniques.	Ecologist		X					X
Fence maintenance to be carried out if required	Integrity of fencing maintained to exclude entry of threatening herbivores	Warrambeen Gumley Land Trust	X		X		X		X



Management Action	Target to be achieved	Responsible person	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Biomass Control: - Sheep to be moved onto site in mid summer and removed before autumn rains - Possibly subdivision of the site through electrical fencing to apply crash grazing for short periods and ensure no species are taken out selectively by sheep - Small areas (< 4 ha) could be burned in consultation with the ecologist	- No soil pitting cause by sheep. - Vegetation cover to remain >10cm high with no more than 30% bare ground.	Warrambeen Gumley Land Trust	X	X	X	X	X	X	X
Report to be prepared documenting management actions undertaken and monitoring results. Report structure and content to be prescribed by DoE and the Responsible Authority.	Report delivered to the Responsible Authority and DoE no later than three months after the due date.	Warrambeen Gumley Land Trust/ Ecologist		X					X

* = The overall weed cover benchmark is an estimate of the overall weed cover at the commencement of the offset plan. This informs both contractors and auditors of the plan in ensuring that overall weed cover does not increase beyond that benchmark.

Appendix 2

Photographs –Taken November 6, 2017

1/3



Dacland S1 Nov 2017-1.jpg



Dacland S1 Nov 2017-2.jpg



Dacland S1 Nov 2017-3.jpg



Dacland S1 Nov 2017-4.jpg



Dacland S1 Nov 2017-5.jpg



Dacland S1 Nov 2017-6.jpg



Dacland S1 Nov 2017-7.jpg



Dacland S1 Nov 2017-8.jpg



Dacland S1 Nov 2017-9.jpg



Dacland S1 Nov 2017-10.jpg



Dacland S1 Nov 2017-11.jpg



Dacland S1 Nov 2017-12.jpg



Dacland S1 Nov 2017-13.jpg



Dacland S1 Nov 2017-14.jpg



Dacland S1 Nov 2017-15.jpg



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Dacland S1 Nov 2017-17.jpg

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