## A Proud Community, Growing Together



# COMMONWEALTH SPINY RICE-FLOWER OFFSET AT MOUNT COTTRELL RECREATION RESERVE

**ANNUAL REPORT 2018** 

EPBC REFERENCE 2009/5247

#### CONTENTS

1 Introduction	4
2 Methods	4
2.1 Summary of Management Actions	4
2.2 General Vegetation Condition	5
Site walkovers	5
General Vegetation Condition Monitoring Quadrats	5
2.4 Spiny Rice-flower monitoring	6
2.3 photo point monitoring	6
2.5 Management Recommendations	6
Remedial Actions & Recommended Changes to Works Program	6
3. Results	8
3.1 Summary of Management Actions	8
3.2 Management Recommendations, Remedial Actions & Recommended Changes to Works Program	8
Ecological burn in 2017	8
Planting and translocation of Spiny Rice-flower	10
Planting of other indigenous species	10
3.3 General Vegetation Condition	17
Site walkovers	17
General Vegetation Condition Monitoring Quadrats	17
3.4 Spiny Rice-flower monitoring	21
Figure 5: Number of Spiny Rice Flower plants alive and dead in 2018 by plant sex	21
Figure 6: Number of Spiny Rice Flower plants alive and dead in 2018 in each planting zone	22
Figure 7: Number of living Spiny Rice Flower plants flowering in 2018	22
Figure 8: Percentage of living Spiny Rice Flower plants in each condition category in 2018	23
Figure 9: Percentage of plants dead and alive by plant type in 2018 (remnant, planted, translocated or nat recruits)	
4. Conclusion	24
Appendix A: monitoring photos 2015 to 2018	25

Burning of offset area March 2013	31
Trust for Nature representatives inspecting Spiny Rice-flower PLANTs with MELTON'S Coordinator of Environmental Services, Adrian Murphy, Jan 2013.	
ppendix B: Summary of management actions performed within offset zone to date, invoice number refers	
ppendix C: Spiny Rice-flower Monitoring data, 2018	

#### 1 Introduction

As part of the Commonwealth approvals process under the *Environment Protection and Biodiversity Conservation act 1999* (EPBC Act) for the Gourlay Road duplication project within Caroline Springs, Melton City Council was required to establish a Spiny Rice-flower offset area. This offset area was established within Mount Cottrell Recreation Reserve, Mount Cottrell (EPBC reference 2009/5247).

An Offset Management Plan (OMP) for the three hectare management area within Mount Cottrell Recreation Reserve was prepared by consultants (Biosis, 2013) and approved by the Commonwealth Environment Minister on December 12, 2013. The requirements for monitoring and reporting on this offset are set out in Section 4 of the approved OMP, Monitoring and Reporting (Biosis 2013). This current report is guided by these requirements.

Environmental management of the site began in 2012 but Melton City Council commenced the ten years of formal management under the OMP from November 2014.<sup>1</sup> The first full Annual Report was submitted in December 2015, reporting on the November 2014 to October 2015 management year.

This current report provides a summary of management actions undertaken between December 2017 and December 2018. It includes an assessment of the success of these actions, management recommendations and monitoring results for the offset area.

The next round of monitoring will be undertaken in June-October 2019. The next report is due to be submitted to Department of Environment and Energy (DoEE) by 16<sup>th</sup> February 2020. The DoEE recently agreed to change the annual reporting date for future years to 16<sup>th</sup> February, so that management actions up to the 31<sup>st</sup> December can be incorporated into future reports (approved variation to condition 6 of the EPBC approval; Hagan Ganahl, Post Approvals Section of DoEE).

#### 2 Methods

#### 2.1 SUMMARY OF MANAGEMENT ACTIONS

Ongoing management of the offset site has been carried out by suitably qualified environmental management contractors and overseen by Council's Senior Land Management Officer (Tony Herwerth). Detailed Works Summary Sheets for these management actions, dating back to July 2012, have been kept and are available for inspection upon request. A summary of these management actions has been prepared and is provided in this report.

<sup>&</sup>lt;sup>1</sup> The Deed of Covenant applying to the Spiny Rice-flower offset area was executed 24 September 2014 and, following the execution of the covenant, a bond held by Trust for Nature was released in March 2015. This release of the bond allowed access to the funds intended for the implementation of the 10 year OMP.

It should be noted that delays occurred in the approval of the OMP and the implementation of the Deed of Covenant relative to the timelines conditioned in the Commonwealth permit. These delays have been investigated by the Commonwealth Environment Department and Melton City Council was informed that no further action will be taken over these delays; however, these delays have resulted in some of the monitoring and reporting actions for November 2013-October 2014 (note that the annual management cycle is defined in the OMP to run from November to October the following year) not being completed exactly as prescribed in the OMP. Given that the OMP was not approved until December 2013 and funds for management were not released until March 2015, this was unavoidable.

#### 2.2 GENERAL VEGETATION CONDITION

#### SITE WALKOVERS

The Melton City Council Land Management Officer has regularly inspected the site at intervals of less than 3 months. Inspection has involved walking over the site in a random meander and then inspecting areas/issues that draw attention in more detail. Feedback is then provided to the Land Management Contractor.

An additional inspection of the general vegetation condition is undertaken annually and includes a walk over the Spiny Rice-flower offset area and the larger area of Mount Cottrell Recreation Reserve.

#### GENERAL VEGETATION CONDITION MONITORING QUADRATS

To help capture and document changes in vegetation condition, five 10 x 10 m flora quadrats, aligned north-south, were established in representative areas. These comprised two quadrats in the inner zone and three quadrats in the outer zone. Star pickets were used to mark the quadrats and each quadrat was clearly labeled as described in Section 4.1 of the OMP. The location of these quadrats on the site is shown in Figure 1.

Monitoring dates are provided in Table 1. The next (annual) monitoring of these quadrats will occur in spring (October) 2019. In each quadrat the following is recorded: percentage cover of each species, total percentage cover of indigenous species, total percentage cover of weeds, percentage cover of native shrubs, grasses and forbs, percentage cover of introduced shrubs, grasses and forbs and percentage cover of bare ground.

Table 1 Monitoring of vegetation condition and Spiny Rice-flower population

Date of monitoring	Monitoring completed
May 2014	Establishment of quadrats
12 August 2014	Vegetation condition monitoring of 5 quadrats
August 2014	Spiny Rice-flower monitoring
1 July 2015	Spiny Rice-flower monitoring
20 October 2015	Vegetation condition monitoring of 5 quadrats
20 July 2016	Spiny Rice-flower monitoring
6 October 2016	Vegetation condition monitoring of 5 quadrats
4 July 2017	Spiny Rice-flower monitoring
19 October 2017	Vegetation condition monitoring of 5 quadrats
20 July 2018	Spiny Rice-flower monitoring
10 October 2018	Vegetation condition monitoring of 5 quadrats

#### 2.4 SPINY RICE-FLOWER MONITORING

Dates of monitoring of the health and survivorship of known Spiny Rice-flower individuals within the reserve are provided in Table 1. Data was recorded into the data collection template provided in the OMP. New plants were also tagged with a unique ID number at this time. Remnant Spiny Rice-flower and the Spiny Rice-flower planted in 2012 had been tagged previously.

The monitoring included recording the health of the plant, whether the plant was flowering and sex of any new plants established since the last monitoring round.

#### 2.3 PHOTO POINT MONITORING

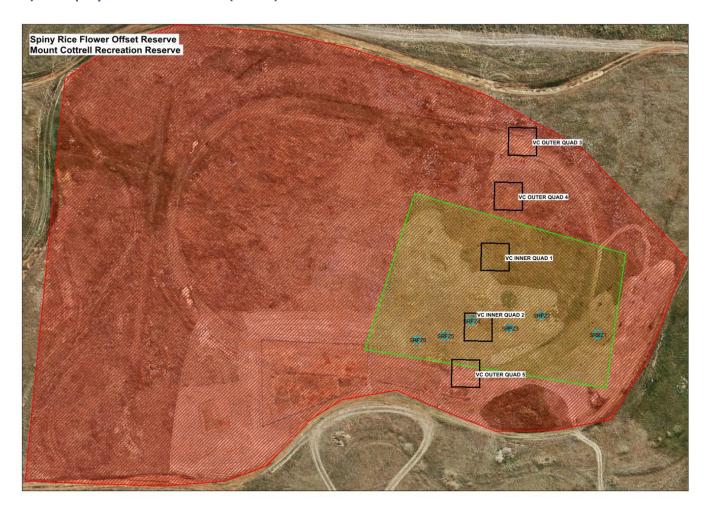
Photo point monitoring included General Vegetation Condition Quadrats only this year. Within each of the five 10 x 10 m quadrats, one photo was taken facing south into each quadrat. Owing to high cover of annual grasses this year, photos of the Spiny Rice-flower plots were not taken because the plants were obscured by the annual grasses in the fore-ground.

#### 2.5 MANAGEMENT RECOMMENDATIONS

#### REMEDIAL ACTIONS & RECOMMENDED CHANGES TO WORKS PROGRAM

The OMP (Table 3) details the management actions and timing of management actions for the Spiny Rice-flower offset area. The success with which each of these actions has been implemented is addressed in Section 3.5. Discussion is also provided of any remediation required and recommendations for changes to the works program.

Figure 1 Mount Cottrell Recreation Reserve Spiny Rice-flower Management Zones showing General Vegetation Condition Quadrats (VC INNER/OUTER QUAD #) and Spiny Rice-flower zones (SRPZ#)



#### 3. Results

#### 3.1 SUMMARY OF MANAGEMENT ACTIONS

A summary of management actions, drawn from works summary sheets, is presented in Appendix A. These management actions date back to 2012 and include hand weeding, burning, targeted spot spraying, direct seeding, watering, planting of Spiny Rice-flower and indigenous herbs and monitoring.

### 3.2 MANAGEMENT RECOMMENDATIONS, REMEDIAL ACTIONS & RECOMMENDED CHANGES TO WORKS PROGRAM

A summary of how each of the management actions outlined in Table 3 of the OMP has been implemented is provided in Table 2. An assessment of the success of each action and notes on any required remediation are also provided.

All of the proposed management actions for year 4 (actions 4.1 to 4.10, outlined in the OMP) were successfully completed in 2018.

#### ECOLOGICAL BURN IN 2017

An ecological burn was conducted in autumn 2017 (date: 07/04/2017), during which a total area of nine hectares was burnt – refer to photo and map (Figure 2).

All monitoring quadrats were burnt during the burn and the Spiny Rice-flower zones were also burnt (except for plants translocated in 2017). The purpose of the burn was to reduce biomass within the grassland, which in turn reduced cover of weeds, increased inter-tussock spaces available for recruitment of indigenous species, including Spiny Rice-flower.

An ecological burn was not conducted in 2018 because burning is recommended every two-three years.

Figure 2 Map showing extent (red line) of ecological burn conducted in 2017



Photo showing ecological burn in 2017



#### PLANTING AND TRANSLOCATION OF SPINY RICE-FLOWER

#### 2017

In 2017, an additional 101 Spiny Rice-flower seedlings were planted in the inner zone (plants were propagated from seed collected throughout the Melton Municipality and grown at Western Plains Flora Nursery). Melton City Council also translocated 59 plants from Greigs Road Reserve, Rockbank to Mount Cottrell Recreation Reserve in consultation with Western Water Corporation. These plants were to be removed as part of Western Water's pipeline project. As the Spiny Rice-flowers were located within the Melbourne Strategic Assessment Program area (MSA), there was no requirement for Western Water to translocate the plants. However, the opportunity arose for Melton City Council to translocate the plants to a secure recipient site before construction on the pipeline commenced. The timing of the translocation was not optimal for translocation of Spiny Rice-flower but timing was constrained by construction deadlines.

#### 2018

In 2018, an additional 42 Spiny Rice-flower seedlings were planted in the inner zone (plants were propagated from seed collected throughout the Melton Municipality and grown at Western Plains Flora Nursery). No salvage and translocation of Spiny Rice-flowers was undertaken by MCC in 2018.

#### PLANTING OF OTHER INDIGENOUS SPECIES

Based on detailed knowledge of the offset site and local area, additional indigenous species were added to the planting schedule provided in the OMP. Table 3 lists the indigenous species planted in the management area between 2015 and 2018. To date, 67 indigenous species have been planted within the offset site and 20,814 tubestock and cells have been planted.

Table 4 shows the planting species schedule from the OMP, including which of these species have been planted in the management area to date and how they will be used in subsequent plantings. Essentially, some species were not used because stock could not be sourced, and some indigenous species were added as they have been historically common in the local area but are now threatened with loss due to urban development. Priority was given to locally threatened species where local provenance stock or seed is currently available but where local populations are likely to be removed in the future. Other common species detailed in the OMP planting schedule but not used thus far in plantings will be used in coming years, where possible. Planting of native grasses was considered unnecessary given the extensive natural recruitment of native grasses that has occurred to date.

There are no other management recommendations at this time.

Table 2 Management actions, assessment of success and required remediation

Year	Action number	Action	Successful	Reason why not	Remediation required
1 (2015)	1.1	Install permanent rabbit proof fencing, with gates and signs around perimeter of Outer Zone	yes		no
		Establish baseline monitoring and photo monitoring points.	Yes		no
	1.3	Undertake supplementary planting /seeding of plains Rice flowers in inner zone	Yes		no
	1.4	Hand weed all introduced species from within plains rice Flower zones	Yes		no
	1.5	Control pest animals (e.g. rabbits, hares) within offset areas and surrounding areas	Yes		no
	1.6	Water newly planted Spiny Rice-flower individuals every 2 weeks for first summer (Dec-Feb)	Yes		no
	1.7	Control perennial grass weeds species over whole offset area	Yes		no
	1.8	Control broadleaf herbaceous weed species over whole offset area	Yes		no
	1.9	Control annual grasses over whole offset area	Yes		no
	1.10	Annual monitoring of spiny rice flower population (flowering period)	Yes		no
	1.11	Annual monitoring of reserve general condition quadrants and photo points	Yes		no
	1.12	Undertake ecological burn within Outer and inner zones	No	Biomass and vegetation cover has not increased sufficiently to warrant burning since the May 2013 Burn	no
2 (2016)	2.1	Update management actions required for Year 2 based on observations made at the end of Year 1.	Yes		no
	2.2	Spot spray all high-threat grass / herb weeds in Outer and Inner Zone before seed set using appropriate herbicide. Control total cover of weeds.	Yes		no
	2.3	Hand weed all introduced species from within Spiny Rice-flower Zones.	Yes		no

Year	Action number	Action	Successful	Reason why not	Remediation required
	2.4	Control pest animals (e.g. rabbits, hares) within the offset and surrounding area (i.e. MCRR).	Yes		no
	2.5	Water planted Spiny Rice-flower individuals.	Yes		no
	2.6	Undertake ecological burn within Outer and Inner Zones as required.	No, considered not required in 2016.		Investigate if autumn burn in 2017 will be beneficial and achievable.
	2.7	Undertake supplementary planting/seeding in the Outer Zone as required.	Yes		no
	2.8	Undertake annual monitoring of Spiny Rice- flower population during flowering period May	Yes		no
	2.9	Plant additional Spiny Rice-flower seedlings in Spiny Rice-flower Zones.	Yes		no
			7 plants planted in the inner zone (zone 6)		
	2.10	Undertake annual monitoring of reserve including general condition, quadrats and photo monitoring and prepare report.	Yes		no
3 (2017)	3.1	Update management actions required for Year 3 based on observations made at the end of Year 1.	Yes		no
	3.2	Spot spray all high-threat grass / herb weeds in Outer and Inner Zone before seed set using appropriate herbicide. Control total cover of weeds.	Yes		no
	3.3	Hand weed all introduced species from within Spiny Rice-flower Zones.	Yes		no
	3.4	Control pest animals (e.g. rabbits, hares) within the offset and surrounding area (i.e. MCRR).	Yes		no
	3.5	Water planted Spiny Rice-flower individuals.	Yes		no
	3.6	Undertake ecological burn within Outer and Inner Zones as required.	Yes autumn burn conducted		no
	3.7	Undertake supplementary planting/seeding in the Outer Zone as required.	Yes		no

Year	Action number	Action	Successful	Reason why not	Remediation required
	3.8	Undertake annual monitoring of Spiny Rice- flower population during flowering period May	Yes		no
	3.9 Plant additional Spiny Rice-flower seedlings		Yes		no
	3.10	Undertake annual monitoring of reserve including general condition, quadrats and photo monitoring and prepare report.	Yes		no
4 (2018)	4.1	Update management actions required for Year 4 based on observations made at the end of Year 3.	Yes		no
	4.2	Spot spray all high-threat grass / herb weeds in Outer and Inner Zone before seed set using appropriate herbicide. Control total cover of weeds.	Yes		no
	4.3	Hand weed all introduced species from within Spiny Rice-flower Zones.	Yes		no
	4.4	Control pest animals (e.g. rabbits, hares) within the offset and surrounding area (i.e. MCRR).	Yes		no
4.5 Water planted Spiny Rice-flower		Water planted Spiny Rice-flower individuals.	Yes		no
	4.6	Undertake ecological burn within Outer and Inner Zones as required.	No	Burn conducted last year (2017)	no
	4.7	Undertake supplementary planting/seeding in the Outer Zone as required.	Yes		no
	4.8	Undertake annual monitoring of Spiny Rice- flower population during flowering period May	Yes		no
	4.9	Plant additional Spiny Rice-flower seedlings in Spiny Rice-flower Zones.	Yes		no
	4.10	Undertake annual monitoring of reserve including general condition, quadrats and photo monitoring and prepare report.	Yes		no

 Table 3 Species planted within the Offset Area up to December 2018

Scientific name	Common name	2015	2016	2017	2018	Grand Total
Arthropodium fimbriatum	Nodding Chocolate-lily		100			100
Arthropodium minus	Small Vanilla-lily		100			100
Arthropodium strictum	Chocolate Lily	200	100	100	100	500
Asperula conferta	Common Woodruff		100	100	100	300
Brachyscome dentata	Lobe-seed Daisy	200	50	1100	100	1450
Brachyscome paludicola	Daisy	200	100	100		400
Bulbine bulbosa	Bulbine Lily	200	200	100	100	600
Bulbine glauca	Rock Lily	200	100	100	100	500
Caesia calliantha	Blue-grass Lily		300		100	400
Calocephalus citreus	Lemon Beauty-heads	200	50	100	100	450
Calocephalus lacteus	Milky Beauty-heads		50	100	100	250
Calotis anthemoides	Cut-leaf Burr-daisy		50	100	100	250
Calotis scabiosifolia	Rough Burr-daisy		50	100	100	250
Calotis scapigera	Tufted Burr-daisy		50	100	100	250
Chrysocephalum apiculatum	Common Everlasting	200	300	400		900
Chrysocephalum semipapposum	Clustered Everlasting	50		100		150
Chrysocephalum semipapposum green form	Clustered Everlasting		200		100	300
Chrysocephalum semipapposum grey form	Clustered Everlasting		50		100	150
Coronidium gunnianum			50	100		150
Craspedia sp. 2	Derrinallum Billy-buttons			25		25
Craspedia variabilis	Common Billy-buttons		50	350	100	500
Cullen parvum	Small Scurf-pea	200	50		100	350
Cullen tenax	Tough Scurf-pea		50	100	100	250
Cynoglossum suaveolens	Sweet Hound's-tongue		25		100	125
Desmodium varians	Slender Tick Trefoil			100	100	200
Dianella longifolia	Pale Flax-lily		200	100	100	400
Dianella revoluta	Black-anther Flax-lily				100	100
Eryngium vesiculosum	Prickfoot		25	100	100	225
Glycine latrobeana	Clover Glycine				50	50
Glycine tabacina	Variable Glycine			100	100	200
Goodenia gracilis	Slender Goodenia				100	100
Goodenia pinnatifida	Cut-leaf Goodenia		100		100	200
Kennedia prostrata	Running Postman		25		100	125
Leiocarpa panaetioides	Woolly Buttons	100	100	100	100	400
Leptorhynchos squamatus	Scaly Buttons	500	100	300	100	1000
Leptorhynchos tenuifolius	Wiry Buttons				100	100
Linum marginale	Native Flax	100		600	100	800
Lobelia pratioides	Poison Lobelia		50	100	100	250
Lotus australis	Austral Trefoil				100	100
Mentha australis	River Mint			100	100	200
Mentha diemenica	Slender Mint				100	100
Microseris lanceolata	Yam Daisy	150	100	100	100	450
Minuria leptophylla	Minnie Daisy		100	600	100	800
Pelargonium rodneyanum	Magenta Stork's-bill	50	100	100	100	350
Pimelea curviflora	Rice-flower		25		100	125

Scientific name	Common name	2015	2016	2017	2018	Grand Total
Pimelea glauca	Smooth Rice-flower		25		100	125
Pimelea spinescens subsp. spinescens	Spiny Rice-flower	103		101		204
Plantago gaudichaudii	Narrow Plaintain		100		100	200
Plantago varia	Variable Plaintain		100		300	400
Poa sieberiana	Tussock Grass			100	100	200
Podolepis jaceoides	Showy Podolepis	700	200	100	100	1100
Ptilotus macrocephalus	Feather-heads		25	100	100	225
Ptilotus spathulatus	Ptilotus		100	100	100	300
Pycnosorus chrysanthus	Golden Billy-buttons	50	200	100	100	450
Pycnosorus globosus	Drumsticks	50	300	100	100	550
Ranunculus lappaceus	Australian Buttercup		25			25
Rumex bidens	Mud Dock				100	100
Rumex dumosus	Wiry Dock				100	100
Rutidosis leptorhynchoides	Button Wrnklewort	200	300	100	100	700
Senecio macrocarpus	Large-headed Groundsel			50	50	100
Teucrium racemosum	Grey Germander		25	100	100	225
Triptilodiscus pygmaeus	Common Sunray			100	100	200
Velleia paradoxa	Spur Velleia	200	100	100	100	500
Veronica gracilis	Slender Speedwell	50		25	25	100
Wahlenbergia capillaris	Bluebell				5	5
Wahlenbergia stricta	Tall Bluebell				5	5
Xerochrysum viscosum	Sticky Everlasting		25			25
Grand Total		3903	4625	6751	5535	20814

**Table 4 Species listed in the Offset Management Plan for planting** 

Life-form	Plant species listed in OMP	Planting date or reason for not planting to date
Grasses	Anthosachne scabra Common Wheat-grass	To be direct seeded when seed is obtained
	Austrostipa bigeniculata Kneed Spear-grass	To be direct seeded after herb establishment, council has access to extremely large quantities of the seed of this species
	Austrostipa scabra Rough Spear-grass	To be direct seeded after herb establishment, council has access to extremely large quantities of the seed of this species
	Bothriochloa macra Red-leg Grass	To be direct seeded after herb establishment
	Rytidosperma caespitosum Common Wallaby-grass	To be direct seeded after herb establishment
	Rytidosperma duttonianum Brown-back Wallaby-grass	To be direct seeded after herb establishment
	Themeda triandra Kangaroo Grass	To be direct seeded after herb establishment
Forbs	Calocephalus citreus Lemon Beauty-heads	Planted 2015 and 2016 and 2017 and 2018
	Haloragis heterophylla Varied Raspwort	To be planted when rainfall increases
	Leptorhynchos squamatus Scaly Buttons	Planted 2015 and 2016 and 2017 and 2018
	Plantago gaudichaudii Narrow Plantain	Plant 2016 and 2018
	Solenogyne dominii Smooth Solenogyne	Plant not available in 2015 or 2016
	<i>Tricoryne elatior</i> Yellow Rush-lily	Plant unavailable, seed defies attempts at germination may be able to source from plants rescued from construction areas
	<i>Velleia paradoxa</i> Spur Velleia	Planted 2015 and 2016 and 2018
	Wahlenbergia luteola Bronze Bluebell	To be direct seeded

#### 3.3 GENERAL VEGETATION CONDITION

#### SITE WALKOVERS

General vegetation condition was judged to be good on the October 2018 walkover, with very little cover of declared noxious weeds (listed under the Victorian *Catchment and Land Protection Act 1994*) or high threat² environmental weeds. It was also noted that there was no sign of rabbit impact, levels of biomass were good, with good inter-tussock space maintained, and there was a variety of indigenous grasses and forbs present. The cover of annual introduced grasses was much lower than recorded in 2016, most likely owing to lower rainfall in 2018 than in 2016, the autumn burn conducted in 2017 and follow-up weed control undertaken between 2017 and 2018. Dominant introduced grasses included: *Avena barbata* (Bearded Oat), *Vulpia bromoides* (Squirrel-tail Fescue) and *Lolium rigidum* (Wimmera Rye-grass).

#### GENERAL VEGETATION CONDITION MONITORING QUADRATS

In October 2018, overall weed cover varied between 1% and 3% cover within the monitoring quadrats (Table 5). Weeds comprised a combination of forbs (< 1 % cover) and grasses (1-3% cover) but no woody weeds were present.

Overall indigenous species cover within the quadrats varied from 40% to 65%. The most common native grasses within the quadrats were *Themeda triandra*, *Austrostipa* and *Rytidosperma* species. Other native grasses, less common at the site, included *Chloris truncata* and *Panicum decompositum*. Notably, the cover of *Themeda triandra* increased markedly in 2018 following the ecological burn conducted in 2017. A variety of native forbs were recorded but their cover was very low (typically < 1 % cover).

Comparing data from 2018 to previous years, the following is noted:

- Total vegetation cover was comparatively high in 2018 compared to 2017, most likely owing to the burning of the site in 2017 and follow-up weed management efforts to date;
- Cover of weed species decreased substantially between 2015 and 2018 in all quadrats (Figure 4. In 2018, weed cover was very low across all five quadrats (<5%).

Species richness of indigenous flora almost doubled between 2015 (15 species) and 2016 (29 species), most likely attributed to supplementary planting over the past 3 years. High rainfall in winter and early spring of 2016 could also have contributed to higher species richness recorded in 2016 than other years.

Full results of the flora survey are shown in Table 5 and presented in Figure 3 and Figure 4.

<sup>&</sup>lt;sup>2</sup> High threat according to the Plains Grassland Ecological Vegetation Class Benchmark.

Figure 3 Percentage cover of native flora species in quadrats 1-5 in 2015 to 2018

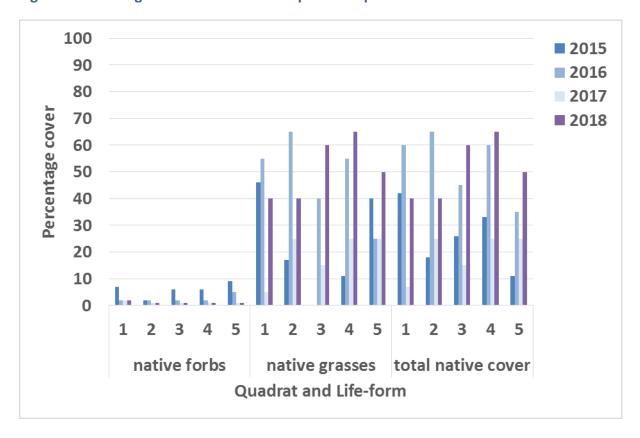


Figure 4 Percentage cover of weeds in quadrats 1-5 in 2015 to 2018

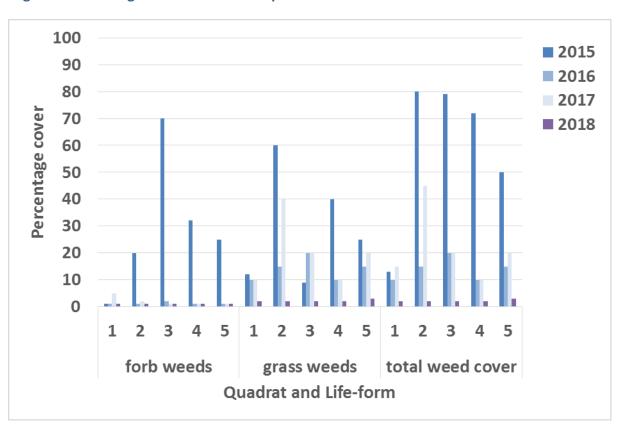


Table 5 General vegetation condition survey results for the 10 x 10 m quadrats 2018

#### Introduced species

			Quadr	ats % Cove	er	
	understorey veg	inner	zone	c	uter zone	;
		1	2	3	4	5
	Aira elegantissima	<1	<1	<1	<1	<1
	Arctotheca calendula			<1		
	Avena barbata		<1	<1		<1
	Centaurium tenuiflorum					
	Ehrharta longiflora					
	Helminthotheca echioides			<1		
	Hypochaeris radicata			<1		
	Lolium sp.		<1			
	Nassella trichotoma					
	Panicum officinale	<1				<1
	Plantago coronopus	<1	<1	<1	<1	<1
	Plantago lanceolata	<1	<1	<1	<1	<1
weeds	Poa trivialis					
	Polygonum aviculare					
	Romulea rosea	<1	<1	<1	<1	<1
	Setaria sp.				<1	<1
	Sonchus oleraceus					
	Trifolium sp. (not flowering)					
	Vulpia bromoides	<1	<1	<1	<1	2%
	Bromus sp.	<1	<1	<1	<1	
	Leontodon saxatilis					
	Woody weeds	0%	0%	0%	0%	0%
	Forb weeds	<1	<1	<1	<1	<1
	Grass weeds	2%	2%	2%	2%	3%
	OVERALL weed cover	2%	2%	2%	2%	3%

#### **Native species**

		Quadrats % cover					
	Understorey vegetation	Inne	r zone		Outer zon	е	
		1	2	3	4	5	
	Native grasses	40%	40%	60%	65%	50%	
	Austrostipa species	30%	40%	15%	5%	25%	
	Rytidosperma species	10%	2%	<1	<1	25%	
	Isolepis marginata	<1	<1		<1		
	Juncus bufonius	<1	<1				
	Themeda triandra	1%		45%	60%		
	Chloris truncata				<1		
	Native forbs	2%	1%	1%	1%	1%	
	Acaena sp.			<1		<1	
	Arthropodium strictum						
	Asperula conferta	<1					
	Brachsycome dentata/basaltica			<1			
	Bulbine bulbosa					<1	
	Convolvulus angustissimus	<1				<1	
	Crassula decumbens						
	Eryngium ovinum	2%	<1		<1		
	Geranium sp.						
	Goodenia pinnatifida	<1				<1	
	Hypericum gramineum						
natives	Kennedia prostrata					<1	
	Laphangium luteoalbum	<1	<1		<1	<1	
	Leptorynchos squamatus					<1	
	Oxalis perennans				<1		
	Pelargonium rodyneyanum				<1		
	Pimelea spinescens subsp.						
	spinescens		<1				
	Plantago gaudichaudii	<1					
	Plantago varia						
	Podolepis linearifolia		<1	<1			
	Ptilotus spathulata			<1		<1	
	Pycnosurus globosus			<1	<1	<1	
	Rutidosus leptorhynchoides					<1	
	Senecio quadridentatus						
	Velleia paradoxa					1	
	Whalenbergia species	<1				<1	
	Gnaphalium sp.	02/	624	00/	001	001	
	Native shrubs (small < 1 m)	0%	0%	0%	0%	0%	
	Native climbers/scramblers	0%	0%	0%	0%	0%	
	OVERALL native cover	40%	40%	60%	65%	50%	

#### 3.4 SPINY RICE-FLOWER MONITORING

The annual monitoring of Spiny Rice-flower was completed on 20 July 2018 and included monitoring of all known plants (i.e. remnants, those planted/translocated in 2012, 2014, 2016, 2017 and 2018).

Spiny Rice-flower survey results for 2018 are presented in Figure 5 to Figure 7. Full results are presented in Appendix B. The current number of living plants exceeds the long-term target of 28 plants (currently there are 123 living plants; refer to Figure 5). Forty-two (42) of these plants are seedlings that were planted in 2018.

The majority of living plants (61%) were in good condition but not flowering in July 2018 (refer to Figure 7).

180 160 Dead 140 Number of plants 120 Alive 122 100 96 80 60 40 30 47 20 24 0 F Unknown M Sex

Figure 5: Number of Spiny Rice Flower plants alive and dead in 2018 by plant sex



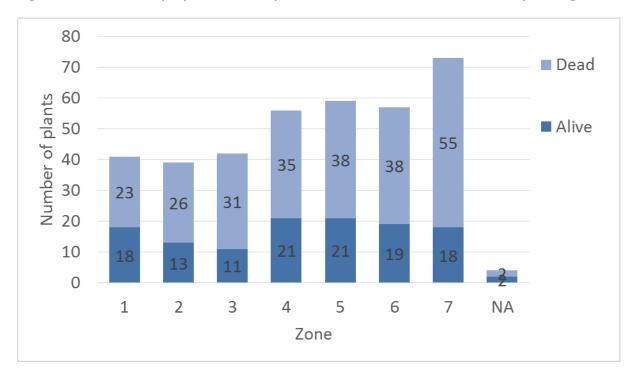


Figure 7: Number of living Spiny Rice Flower plants flowering in 2018

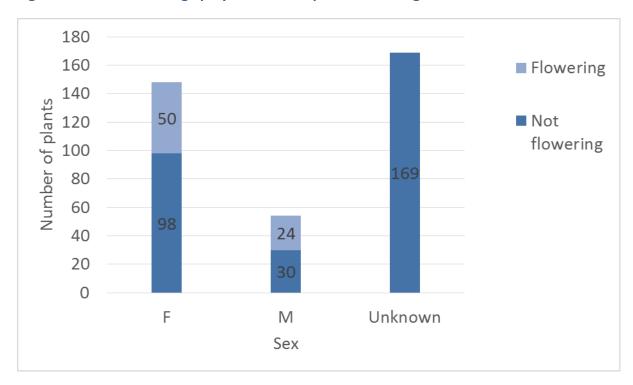


Figure 8: Percentage of living Spiny Rice Flower plants in each condition category in 2018

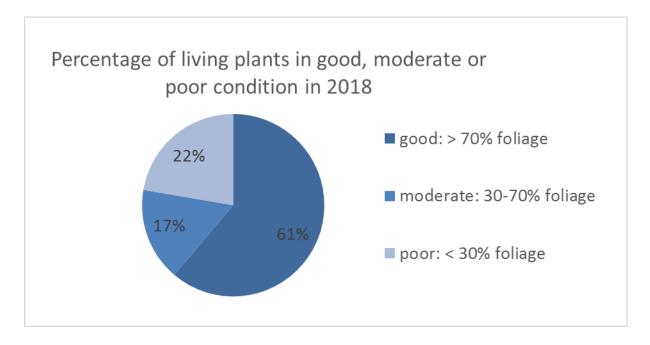
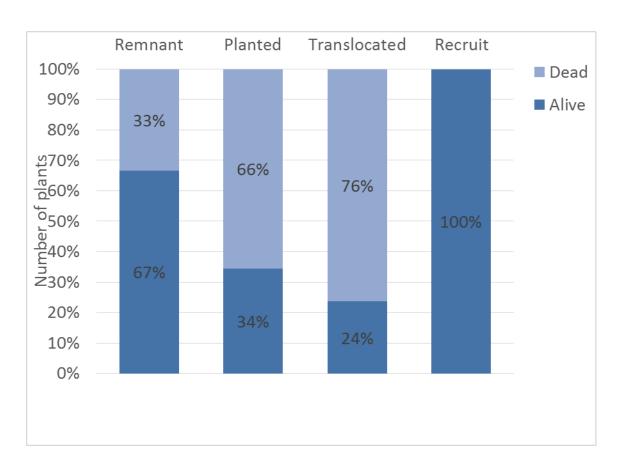


Figure 9: Percentage of plants dead and alive by plant type in 2018 (remnant, planted, translocated or natural recruits)



#### 4. CONCLUSION

This report describes the work done to date in protecting and improving the Spiny Rice-flower offset site at Mount Cottrell Recreation Reserve. Skilled environmental management of the grassland community at the site has been occurring since 2012 with substantial planting and direct seeding as well as augmenting of the Spiny Rice-flower population at the site.

This is the third OMP monitoring report to be prepared for the site. The monitoring to date demonstrates an improvement in vegetation condition at the site as shown by an increase in percentage cover of native species, decrease cover of weed species and an increase in species richness of indigenous flora within monitoring quadrats. The current population of Spiny Rice-flower includes 123 living plants, above the target of 28 plants. The majority of living plants were in good condition and flowering in July 2018.

Melton City Council will undertake the next round of monitoring in July 2019 (Spiny Rice-flower) and October 2019 (flora quadrats and photo-point monitoring) and continue to manage the reserve in accordance with the OMP. The next report is scheduled to be submitted to DoEE by 16<sup>th</sup> February 2020.

#### APPENDIX A: MONITORING PHOTOS 2015 TO 2018





VQ2



























VQ5









#### **BURNING OF OFFSET AREA MARCH 2013**



TRUST FOR NATURE REPRESENTATIVES INSPECTING SPINY RICE-FLOWER PLANTS WITH MELTON'S COORDINATOR OF ENVIRONMENTAL SERVICES, ADRIAN MURPHY, JAN 2013.



## APPENDIX B: SUMMARY OF MANAGEMENT ACTIONS PERFORMED WITHIN OFFSET ZONE TO DATE, INVOICE NUMBER REFERS TO INVOICE RECORDS KEPT BY MELTON CITY COUNCIL.

Date	Invoice no	Activity performed
Jul 2012	4613	Sensitive brushcut of weeds looking for Spiny Rice-flower
Aug 2012	4646	Guarded remnant Spiny Rice-flower plants; biomass reduction with brush cutters and rakes
Aug 2012	4656	Sorted Spiny Rice-flower for planting into male and female to plants
Aug 2012	4676	Planted Spiny Rice-flower, large stock, local provenance, commercially sourced; erected fencing around planted stock
Aug 2012	4685	Planting Spiny Rice-flower; watering
Sep 2012	4697	Watering Spiny Rice-flower
Sep 2012	4731	Watering Spiny Rice-flower
Sep 2012	4753	Watering Spiny Rice-flower
Sep 2012	4775	Watering Spiny Rice-flower; modified fencing
Nov 2012	4864	Watering Spiny Rice-flower; spot spray Chilean Needle grass and Serrated Tussock
Nov 2012	4912	Watering Spiny Rice-flower
Oct 2012	4949	Watering Spiny Rice-flower
Mar 2013	5223	Watering Spiny Rice-flower
Apr 2013	5275	Watering Spiny Rice-flower
Apr 2013	5326	Hand weeding; temporary rabbit proof fence construction; watering Spiny Rice-flower
Jun 2013	5382	Watering Spiny Rice-flower
Jun 2013	5402	Burning offset area and surrounds
Jul 2014	6447	Direct seeded Spiny Rice-flower into offset area
Aug 12 2014	6426	Hand weed; and set up monitoring quadrats; carried out monitoring
Aug 12 2014	6467	Hand weed Spiny Rice-flower
Aug 12 2014	6547	Planting; brush cutting; hand weed Spiny Rice-flower areas
Aug 12 2014	6569	Planting; hand weeding Spiny Rice-flower areas
Aug 12 2014	6576	Hand weed Spiny Rice-flower area; direct seeded native herbs; watering Spiny Rice-flower
Aug 12 2014	6606	Planting herbs; watering Spiny Rice-flower; planting 50 small Spiny Rice-flower, 34 females 16 Males grown by Melton City Council from bought local provenance seed.
Aug 28 2014	6608	Planting and watering herbs in Spiny Rice-flower area
Sep 15 2014	6611	Fence repairs Mount Cottrell Recreation reserve
Sep 15 2014	6627	Spot spraying Serrated Tussock and Chilean Needle Grass;

Date	Invoice no	Activity performed				
		planting herbs; watering Spiny Rice-flower				
Oct 10 2014	6667	Herb planting				
Oct 13 2014	6620	Planting and watering herbs; watering Spiny Rice-flower				
Oct 13 2014	6625	Fencing; planting herbs; spot spray preparation in offset area				
Oct 13 2014	6637	Spot spraying; watering Spiny Rice-flower; fencing; watering; spot spray weeds in outer zone				
Oct 13 2014	6663	Herb planting				
Oct 13 2014	6673	Planting and watering herbs and Spiny Rice-flower				
Oct 13 2014	6686	Watering herbs and Spiny Rice-flower				
Nov 14 2014	6748	Watering Spiny Rice-flower				
Nov 14 2014	6779	Watering				
Nov 14 2014	6800	Spot spray Serrated Tussock and Chilean Needle Grass				
Nov 26 2014	6734	Hand weed; spot spray; plant herbs				
Nov 27 2014	6726	Mow and catch and brush cut non-indigenous annual grasses				
Nov 27 2014	6770	Spot Spray Serrated Tussock and Chilean Needle Grass; hand weeding herbs.				
Nov 27 2014	6831	Mow and catch weedy areas; watering herb areas and Spiny Rice-flower zones				
Jan 5 2015	6953	Hand weed Spiny Rice-flower and herb zones				
Feb 24 2015	6905	Spot spray annual grasses and C4 grasses				
Feb 24 2015	6953	Hand weed spot spray serrated tussock				
Jan 5 2015	6953	Hand weed Spiny Rice-flower and herb zones				
Apr 29 2015	7094	Spot spray broad leaf weeds; erect photo points; mow and catch				
Apr 29 2015	7093	Hand weed Spiny Rice-flower zones; spot spray Serrated Tussock and broad leaf weeds				
Apr 29 2015	7073	Hand weed Spiny Rice-flower; spot spray Serrated Tussock				
Jun 11 2015	7175	Hand weed				
Jun 12 2015	7193	Spot spray broad leaf weeds; spot burns and planting				
Jun 22 2015	7231	Planting herbs; hand weed				
Jun 22 2015	7218	Spiny Rice-flower planting and herb planting				
Jun 22 2015	7224	Spiny Rice-flower direct seeding; setting up enclosures; spot spray				
Jun 24 2015	30445	Plants				
Jun 26 2015	7256	Planting herbs				
Jun 26 2015	7244	Planting herbs				
Jun 29 2015	30266	Plants				
Jun 29 2015	30365	Plants				
Jun 30 2015	7276	Planting and watering				
Jun 30 2015	7273	Planting and watering				

Aug 10 2015         615920         Supply of plants           Aug 25 2015         7094         Supply and install rabbit proof fence           Aug 27 2015         616472         Watering           Sep 7 2015         616692         Watering herbs           Sep 7 2015         616684         Plants           Sep 11 2015         616684         Plants           Sep 11 2015         61689         Hand weed plantings; watering herbs; spot spray annual grasses           Sep 11 2015         616830         Spot spray broad leaf weeds           Oct 1 2015         617279         Weed control and fence repairs           Oct 5 2015         617316         Watering herbs           Oct 5 2015         617316         Watering herbs           Oct 5 2015         617314         Spot spray broad leaf weeds           Oct 5 2015         617313         Planting herbs; spot spray annual grasses           Oct 5 2016         617312         Planting herbs; spot spray and hand weed broad leaf weeds           Oct 2 2015         617312         Planting herbs; spot spray and hand weed broad leaf weeds           Nov 13 2015         618201         Brushout annual grasses; hand weed Spiny Rice-flower plots.           Nov 13 2015         618201         Brushout annual grasses; hand weed Spiny Rice-flower and herbs; set	Date	Invoice no	Activity performed					
Aug 27 2015         616472         Watering           Sep 7 2015         616692         Watering herbs           Sep 7 2015         616684         Plants           Sep 11 2015         616684         Plants           Sep 11 2015         616831         Hand weed plantings; watering herbs; spot spray annual grasses           Sep 11 2015         616829         Hand weed plantings of herbs           Sep 11 2015         616830         Spot spray broad leaf weeds           Oct 1 2015         617279         Weed control and fence repairs           Oct 5 2015         617316         Watering herbs           Oct 5 2015         617315         Planting herbs prep spray           Oct 5 2015         617314         Spot spray broad leaf weeds           Oct 5 2015         617313         Planting herbs; spot spray and hand weed broad leaf weeds           Oct 5 2015         617312         Planting herbs; spot spray and hand weed broad leaf weeds           Oct 29 2015         617884         Watering herb planting; brushcut oats           Nov 13 2015         618201         Brushcut annual grasses; hand weed Spiny Rice-flower plots.           Dec 17 2015         619048         Spot spray broad leaf weeds           Apr 1 2016         7588         Spot spray broad leaf weeds	Aug 10 2015	615920	Supply of plants					
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Apr 27 2016         621440         Direct seed herbs           May 10 2016         621739         Watering herbs and Spiny Rice-flower           May 27 2016         622241         Planting herbs           May 27 2016         622242         Spot spray; planting herbs, spot spray broad leaf weeds           Jun 10 2016         622574           Jun 10 2016         622563         Spot spray; hand weed plantings           Jun 30 2016         623044         Hand weed broad leaf weeds           Jun 30 2016         7969         Spot spray; hand weed           Jul 1 2016         7969         Spot spray; hand weed           Sep 11 2015         616830         Spot spray broad leaf weeds           Sep 13 2016         8044         Spot spray; hand weed; planting           Sep 26 2016         8062         Planting herbs           Oct 11 2016         8080         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grasses           Oct 11 2016         8083         Watering Spiny Rice-flower and herbs; hand weed           Oct 11 2016         8082         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Jan 7 2016	7588	Spot spray broad leaf weeds					
May 10 2016         621739         Watering herbs and Spiny Rice-flower           May 27 2016         622241         Planting herbs           May 27 2016         622242         Spot spray; planting herbs, spot spray broad leaf weeds           Jun 10 2016         622574           Jun 10 2016         622563         Spot spray; hand weed plantings           Jun 30 2016         623044         Hand weed broad leaf weeds           Jun 30 2016         7969         Spot spray; hand weed           Jul 1 2016         7969         Spot spray; hand weed           Sep 11 2015         616830         Spot spray; hand weed; planting           Sep 26 2016         8062         Planting herbs           Oct 11 2016         8080         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grasses           Oct 11 2016         8083         Watering Spiny Rice-flower and herbs; hand weed           Oct 11 2016         8082         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Apr 1 2016	620964	Brushcut; watering; planting					
May 27 2016         622241         Planting herbs           May 27 2016         622242         Spot spray; planting herbs, spot spray broad leaf weeds           Jun 10 2016         622574           Jun 10 2016         622563         Spot spray; hand weed plantings           Jun 30 2016         623044         Hand weed broad leaf weeds           Jun 30 2016         7969         Spot spray; hand weed           Jul 1 2016         7969         Spot spray; hand weed           Sep 11 2015         616830         Spot spray broad leaf weeds           Sep 13 2016         8044         Spot spray; hand weed; planting           Sep 26 2016         8062         Planting herbs           Oct 11 2016         8080         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grasses           Oct 11 2016         8083         Watering Spiny Rice-flower and herbs; hand weed           Oct 11 2016         8082         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Apr 27 2016	621440	Direct seed herbs					
May 27 2016         622242         Spot spray; planting herbs, spot spray broad leaf weeds           Jun 10 2016         622574           Jun 10 2016         622563         Spot spray; hand weed plantings           Jun 30 2016         623044         Hand weed broad leaf weeds           Jun 30 2016         7969         Spot spray; hand weed           Jul 1 2016         7969         Spot spray; hand weed           Sep 11 2015         616830         Spot spray broad leaf weeds           Sep 13 2016         8044         Spot spray; hand weed; planting           Sep 26 2016         8062         Planting herbs           Oct 11 2016         8080         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grasses           Oct 11 2016         8083         Watering Spiny Rice-flower and herbs; hand weed           Oct 11 2016         8082         Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	May 10 2016	621739	Watering herbs and Spiny Rice-flower					
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Sep 13 20168044Spot spray; hand weed; plantingSep 26 20168062Planting herbsOct 11 20168080Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grassesOct 11 20168083Watering Spiny Rice-flower and herbs; hand weedOct 11 20168082Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Jul 1 2016	7969	Spot spray; hand weed					
Sep 26 20168062Planting herbsOct 11 20168080Spot spray; hand weed broad leaf weeds; planting herbs; spot spray and brushcut annual grassesOct 11 20168083Watering Spiny Rice-flower and herbs; hand weedOct 11 20168082Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Sep 11 2015	616830	Spot spray broad leaf weeds					
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Oct 11 2016 spray and brushcut annual grasses  Oct 11 2016 8083 Watering Spiny Rice-flower and herbs; hand weed  Oct 11 2016 8082 Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Sep 26 2016	8062	Planting herbs					
Oct 11 2016 Spot spray; hand weed broad leaf weeds; planting herbs; spot spray; brushcut annual grasses	Oct 11 2016	8080						
spray; brushcut annual grasses	Oct 11 2016	8083	Watering Spiny Rice-flower and herbs; hand weed					
Oct 28 2016 8111 Mow and catch annual grasses	Oct 11 2016	8082						
	Oct 28 2016	8111	Mow and catch annual grasses					

Date	Invoice no	Activity performed					
Nov 13 2015	618201	Brushcut annual grasses; hand weed Spiny Rice-flower plots					
Nov 14 2016	8156	Hand weed plantings; watering Spiny Rice-flowers; planting and watering Spiny Rice-flowers.					
Nov 29 2016	8164	Spot spray Serrated Tussock and Chilean Needle Grass; hand weed herbs; watering					
Dec 21 2016	8188	Spot spray broad leaf weeds; Serrated Tussock and Chilean Needle Grass; hand weed in herb areas					
Jan 30 2017	8263	Spot spray C4 grasses hand weed broad leaf weeds					
Feb 13 2017	8351	Spot spray C4 grasses hand weed broad leaf weeds					
Mar 15 2017	8384	Translocation of Spiny Rice-flower from Greigs Rd					
Apr 07 2017	8476	Burning of grassland within offset					
May 17 2017	8509	Spot spray annual grasses and planting herbs					
Jun 20 2017	8567	Spot burning annual grasses					
Jun 28 2017	8582	Spot burning annual grasses and hand weed annual grasses					
Jun 29 2017	8608	Spot burning annual grasses hand weed annual grasses					
Sep 8 2017	8744	Herb planting					
Sep 11 2017	8708	Herb planting					
Sep 26 2017	8778	Herb planting					
Sep 26 2017	8780	Herb planting spot spray annual grasses and irrigating					
Sep 27 2017	8770	Herb planting					
Oct 12 2017	8820	Brush cutting and planting					
Oct 12 2017	8787	Herb planting, watering and spot spraying annual grasses					
Oct 30 2017	8838	Herb planting mow and catch annual grasses					
Oct 30 2017	8809	Herb planting mow and catch					
Dec 12 2017	8940	Hand weed herb plantings					
Jan 9 2018	8947	Hand weed and planting					
Feb 6 2018	9113	Hand weed Spiny Rice-flower zones					
Jun 14 2018	9249	Water Spiny Rice-flowers, hand weed, planting herbs					
Jun 28 2018	9290	Preparing planting sites					
May 7 2018	9196	Preparing planting sites					
Aug 8 2018	9332	Planting Spiny Rice-flowers hand weeding					
Oct 8 2018	9435	Planting herbs and watering					
Nov 5 2018	9444	Spot spray general weeds, planting herbs watering Spiny Rice-flowers					
Nov 13 2018	9449	Planting herbs hand weeding					
Nov 13 2018	9464	Water Spiny Rice-flowers spot spray annual grasses					
Nov 13 2018	9483	Water Spiny Rice-flowers planting herbs					
Dec 18 2018	9515	Hand weed and watering					
Dec 20 2018	9513	Watering and hand weeding					
Dec 20 2018	9500	Biomass reduction mow and catch					

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	1	unknown	Remnant	F	Υ	95	good	PS 1 REM	Α	Α	Α	1
inner	51	2014	Planted	М	N	Not applicable	Not applicable	PS 51 PLD	D	D	D	1
inner	52	2014	Planted	F	Υ	60	moderate	PS 52 PLD	Α	Α	Α	1
inner	53	2014	Planted	F	Υ	60	moderate	PS 53 PLD	Α	Α	Α	1
inner	54	2014	Planted	М	Υ	90	good	PS 54 PLD	Α	Α	Α	1
inner	55	2014	Planted	F	N	Not applicable	Not applicable	PS 55 PLD	D	D	D	1
inner	56	2014	Planted	M	N	Not applicable	Not applicable	PS 56 PLD	D	possibly dormant	Α	1
inner	57	2014	Planted	F	N	Not applicable	Not applicable	PS 57 PLD	D	possibly dormant	Α	1
inner	58	2014	Planted	М	N	Not applicable	Not applicable	PS 58 PLD	D	D	D	1
inner	145	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 145 PLD	D	D	D	1
inner	146	2015	Planted	F	N	Not applicable	Not applicable	PS 146 PLD	D	D	D	1
inner	147	2015	Planted	F	N	Not applicable	Not applicable	PS 147 PLD	D	D	D	1
inner	148	2015	Planted	М	N	Not applicable	Not applicable	PS 148 PLD	D	D	D	1
inner	149	2015	Planted	F	N	Not applicable	Not applicable	PS 149 PLD	D	D	D	1
inner	150	2015	Planted	F	N	Not applicable	Not applicable	PS 150 PLD	D	D	D	1
inner	151	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 151 PLD	D	D	D	1
inner	152	2015	Planted	F	N	Not applicable	Not applicable	PS 152 PLD	D	D	D	1
inner	153	2015	Planted	F	N	Not applicable	Not applicable	PS 153 PLD	D	D	D	1
inner	154	2015	Planted	F	N	Not applicable	Not applicable	PS 154 PLD	D	D	D	1
inner	155	2015	Planted	F	N	Not applicable	Not applicable	PS 155 PLD	D	D	D	1
inner	156	2015	Planted	F	N	Not applicable	Not applicable	PS 156 PLD	D	D	D	1
inner	157	2015	Planted	М	N	Not applicable	Not applicable	PS 157 PLD	D	D	D	1
inner	158	2015	Planted	F	N	Not applicable	Not applicable	PS 158 PLD	D	D	D	1
inner	159	2015	Planted	F	N	Not applicable	Not applicable	PS 159 PLD	D	D	D	1

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	160	2015	Planted	М	Υ	40	moderate	PS 160 PLD	А	possibly dormant	А	1
inner	161	2015	Planted	F	N	Not applicable	Not applicable	PS 161 PLD	D	D	D	1
inner	228	2017	Planted	F	Υ	80	good	PS228 PLD	А			1
inner	229	2017	Planted	М	Υ	80	good	PS229 PLD	А			1
inner	230	2017	Planted	F	Υ	90	good	PS230 PLD	А			1
inner	231	2017	Planted	F	Υ	40	moderate	PS231 PLD	А			1
inner	232	2017	Planted	М	Υ	80	good	PS232 PLD	А			1
inner	233	2017	Planted	F	Υ	90	good	PS233 PLD	А			1
inner	234	2017	Planted	М	Υ	90	good	PS234 PLD	А			1
inner	235	2017	Planted	F	Υ	90	good	PS235 PLD	А			1
inner	236	2017	Planted	F	Υ	90	good	PS236 PLD	А			1
inner	237	2017	Planted	F	Υ	80	good	PS237 PLD	А			1
inner	238	2017	Planted	Unknown	N	Not applicable	Not applicable	PS238 PLD	D			1
inner	239	2017	Planted	Unknown	N	Not applicable	Not applicable	PS239 PLD	D			1
inner	240	2017	Planted	F	Υ	95	good	PS240 PLD	А			1
inner	241	2017	Planted	F	Υ	90	good	PS241 PLD	А			1
inner	242	2017	Planted	F	Υ	95	good	PS242 PLD	А			1
inner	2	unknown	Remnant	М	Υ	95	good	PS 2 REM	А	Α	А	2
inner	44	2014	Planted	М	N	Not applicable	Not applicable	PS 44 PLD	D	D	D	2
inner	45	2014	Planted	М	Υ	95	good	PS 45 PLD	A	А	А	2
inner	46	2014	Planted	F	N	Not applicable	Not applicable	PS 46 PLD	D	possibly dormant	А	2
inner	47	2014	Planted	F	N	Not applicable	Not applicable	PS 47 PLD	D	D	D	2
inner	48	2014	Planted	F	N	Not applicable	Not applicable	PS 48 PLD	D	D	D	2
inner	49	2014	Planted	F	N	Not applicable	Not applicable	PS 49 PLD	D	D	D	2
inner	50	2014	Planted	M	N	Not applicable	Not applicable	PS 50 PLD	D	D	D	2

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	128	2015	Planted	M	N	Not applicable	Not applicable	PS 128 PLD	D	D	D	2
inner	129	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 129 PLD	D	D	D	2
inner	130	2015	Planted	F	N	Not applicable	Not applicable	PS 130 PLD	D	D	D	2
inner	131	2015	Planted	F	N	Not applicable	Not applicable	PS 131 PLD	D	D	D	2
inner	132	2015	Planted	М	N	Not applicable	Not applicable	PS 132 PLD	D	D	D	2
inner	133	2015	Planted	F	N	Not applicable	Not applicable	PS 133 PLD	D	D	D	2
inner	134	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 134 PLD	D	D	D	2
inner	135	2015	Planted	F	N	Not applicable	Not applicable	PS 135 PLD	D	D	D	2
inner	136	2015	Planted	F	N	Not applicable	Not applicable	PS 136 PLD	D	D	D	2
inner	137	2015	Planted	F	N	Not applicable	Not applicable	PS 137 PLD	D	D	D	2
inner	138	2015	Planted	М	N	Not applicable	Not applicable	PS 138 PLD	D	D	D	2
inner	139	2015	Planted	F	N	Not applicable	Not applicable	PS 139 PLD	D	D	D	2
inner	140	2015	Planted	F	N	Not applicable	Not applicable	PS 140 PLD	D	D	D	2
inner	141	2015	Planted	F	N	Not applicable	Not applicable	PS 141 PLD	D	D	D	2
inner	142	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 142 PLD	D	D	D	2
inner	143	2015	Planted	F	Υ	90	good	PS 143 PLD	А	А	А	2
inner	144	2015	Planted	F	N	Not applicable	Not applicable	PS 144 PLD	D	А	А	2
inner	243	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 243 PLD	D			2
inner	244	2017	Planted	М	Υ	90	good	PS 244 PLD	А			2
inner	245	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 245 PLD	D			2
inner	246	2017	Planted	F	Υ	90	good	PS 246 PLD	А			2
inner	247	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 247 PLD	D			2
inner	248	2017	Planted	Unknown	N	80	good	PS 248 PLD	А			2
inner	249	2017	Planted	М	Υ	80	good	PS 249 PLD	Α			2
inner	250	2017	Planted	F	Υ	80	good	PS 250 PLD	Α			2

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	251	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 251 PLD	D			2
inner	252	2017	Planted	М	Υ	90	good	PS 252 PLD	А			2
inner	253	2017	Planted	F	Υ	20	poor	PS 253 PLD	A			2
inner	254	2017	Planted	F	Υ	90	good	PS 254 PLD	А			2
inner	255	2017	Planted	Unknown	N	60	moderate	PS 255 PLD	Α			2
inner	256	2017	Planted	F	Υ	80	good	PS 256 PLD	Α			2
inner	7	?	Planted	Unknown	N	Not applicable	Not applicable		D	D	D	
inner	8	2013	Planted	Unknown	N	Not applicable	Not applicable		D	Α	Α	
inner	3	2013	Planted	F	N	95	good	PS 3 PLD	Α	Α	Α	3
inner	35	2014	Planted	М	N	Not applicable	Not applicable	PS 35 PLD	D	D	D	3
inner	36	2014	Planted	F	N	Not applicable	Not applicable	PS 36 PLD	D	D	D	3
inner	37	2014	Planted	М	Υ	90	good	PS 37 PLD	Α	А	Α	3
inner	38	2014	Planted	F	N	Not applicable	Not applicable	PS 38 PLD	D	D	D	3
inner	39	2014	Planted	F	N	Not applicable	Not applicable	PS 39 PLD	D	D	D	3
inner	40	2014	Planted	F	N	Not applicable	Not applicable	PS 40 PLD	D	D	D	3
inner	41	2014	Planted	F	N	Not applicable	Not applicable	PS 41 PLD	D	D	D	3
inner	42	2014	Planted	F	N	Not applicable	Not applicable	PS 42 PLD	D	D	D	3
inner	43	2014	Planted	М	N	Not applicable	Not applicable	PS 43 PLD	D	D	D	3
inner	111	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 111 PLD	D	D	D	3
inner	112	2015	Planted	F	N	Not applicable	Not applicable	PS 112 PLD	D	D	D	3
inner	113	2015	Planted	F	N	Not applicable	Not applicable	PS 113 PLD	D	D	D	3
inner	114	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 114 PLD	D	D	D	3
inner	115	2015	Planted	F	N	Not applicable	Not applicable	PS 115 PLD	D	D	D	3
inner	116	2015	Planted	F	N	Not applicable	Not applicable	PS 116 PLD	D	D	D	3
inner	117	2015	Planted	М	N	Not applicable	Not applicable	PS 117 PLD	D	D	D	3

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	118	2015	Planted	F	N	Not applicable	Not applicable	PS 118 PLD	D	D	D	3
inner	119	2015	Planted	F	N	Not applicable	Not applicable	PS 119 PLD	D	D	D	3
inner	120	2015	Planted	F	N	Not applicable	Not applicable	PS 120 PLD	D	D	D	3
inner	121	2015	Planted	М	N	Not applicable	Not applicable	PS 121 PLD	D	D	D	3
inner	122	2015	Planted	F	N	Not applicable	Not applicable	PS 122 PLD	D	D	D	3
inner	123	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 123 PLD	D	D	D	3
inner	124	2015	Planted	F	N	Not applicable	Not applicable	PS 124 PLD	D	D	D	3
inner	125	2015	Planted	F	N	Not applicable	Not applicable	PS 125 PLD	D	D	D	3
inner	126	2015	Planted	М	N	Not applicable	Not applicable	PS 126 PLD	D	D	D	3
inner	127	2015	Planted	F	N	Not applicable	Not applicable	PS 127 PLD	D	D	D	3
inner	257	2017	Planted	F	Υ	80	good	PS 257 PLD	Α			3
inner	258	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 258 PLD	D			3
inner	259	2017	Planted	F	Υ	80	good	PS 259 PLD	А			3
inner	260	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 260 PLD	D			3
inner	261	2017	Planted	F	Υ	80	good	PS 261 PLD	Α			3
inner	262	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 262 PLD	D			3
inner	263	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 263 PLD	D			3
inner	264	2017	Planted	Unknown	N	60	moderate	PS 264 PLD	Α			3
inner	265	2017	Planted	М	Υ	90	good	PS 265 PLD	А			3
inner	266	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 266 PLD	D			3
inner	267	2017	Planted	М	Υ	10	poor	PS 267 PLD	А			3
inner	268	2017	Planted	F	Υ	60	moderate	PS 268 PLD	А			3
inner	269	2017	Planted	Unknown	N	90	good	PS 269 PLD	А			3
inner	270	2017	Planted	Unknown	N	60	good	PS 270 PLD	А			3
inner	271	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 271 PLD	D			3

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Тад	2018 status	2017 status	2016 status	Pimelea Zone
inner	26	2014	Planted	F	N	Not applicable	Not applicable	PS 26 PLD	D	D	D	4
inner	27	2014	Planted	М	N	Not applicable	Not applicable	PS 27 PLD	D	D	D	4
inner	28	2014	Planted	F	N	Not applicable	Not applicable	PS 28 PLD	D	D	D	4
inner	29	2014	Planted	F	N	Not applicable	Not applicable	PS 29 PLD	D	D	D	4
inner	30	2014	Planted	F	N	Not applicable	Not applicable	PS 30 PLD	D	D	D	4
inner	31	2014	Planted	F	N	Not applicable	Not applicable	PS 31 PLD	D	Α	Α	4
inner	32	2014	Planted	М	N	Not applicable	Not applicable	PS 32 PLD	D	D	D	4
inner	33	2014	Planted	М	Υ	90	good	PS 33 PLD	А	А	Α	4
inner	34	2014	Planted	М	Υ	80	good	PS 34 PLD	А	А	Α	4
inner	94	2015	Planted	F	N	Not applicable	Not applicable	PS 94 PLD	D	D	D	4
inner	95	2015	Planted	F	N	Not applicable	Not applicable	PS 95 PLD	D	D	D	4
inner	96	2015	Planted	F	N	Not applicable	Not applicable	PS 96 PLD	D	D	D	4
inner	97	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 97 PLD	D	D	D	4
inner	98	2015	Planted	М	N	Not applicable	Not applicable	PS 98 PLD	D	D	D	4
inner	99	2015	Planted	F	N	Not applicable	Not applicable	PS 99 PLD	D	D	D	4
inner	100	2015	Planted	М	N	Not applicable	Not applicable	PS 100 PLD	D	D	D	4
inner	101	2015	Planted	F	N	Not applicable	Not applicable	PS 101 PLD	D	D	D	4
inner	102	2015	Planted	F	N	Not applicable	Not applicable	PS 102 PLD	D	D	D	4
inner	103	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 103 PLD	D	D	D	4
inner	104	2015	Planted	М	N	Not applicable	Not applicable	PS 104 PLD	D	А	Α	4
inner	105	2015	Planted	F	N	Not applicable	Not applicable	PS 105 PLD	D	D	D	4
inner	106	2015	Planted	F	N	Not applicable	Not applicable	PS 106 PLD	D	D	D	4
inner	107	2015	Planted	F	N	Not applicable	Not applicable	PS 107 PLD	D	D	D	4
inner	108	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 108 PLD	D	D	D	4
inner	109	2015	Planted	F	N	Not applicable	Not applicable	PS 109 PLD	D	D	D	4

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	110	2015	Planted	F	N	Not applicable	Not applicable	PS 110 PLD	D	D	D	4
inner	272	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 272 PLD	D			4
inner	273	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 273 PLD	D			4
inner	274	2017	Planted	F	Υ	90	good	PS 274 PLD	А			4
inner	275	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 275 PLD	D			4
inner	276	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 276 PLD	D			4
inner	277	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 277 PLD	D			4
inner	278	2017	Planted	М	Υ	90	good	PS 278 PLD	A			4
inner	279	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 279 PLD	D			4
inner	280	2017	Planted	Unknown	N	60	moderate	PS 280 PLD	А			4
inner	281	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 281 PLD	D			4
inner	282	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 282 PLD	D			4
inner	283	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 283 PLD	D			4
inner	284	2017	Planted	F	Υ	90	good	PS 284 PLD	A			4
inner	285	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 285 PLD	D			4
inner	286	2017	Planted	Unknown	N	90		PS 286 PLD	A			4
inner	329	2018	Planted	Unknown	N	90	good	PS 329REC	А			4
inner	331	2018	Planted	Unknown	N	10	poor	PS 331 PLD	A			4
inner	332	2018	Planted	Unknown	N	10	poor	PS 332 PLD	A			4
inner	333	2018	Planted	Unknown	N	10	poor	PS 333 PLD	А			4
inner	334	2018	Planted	Unknown	N	1	poor	PS 334 PLD	A			4
inner	335	2018	Planted	Unknown	N	Not applicable	Not applicable	PS 335 PLD	D			4
inner	336	2018	Planted	Unknown	N	1	poor	PS 336 PLD	A			4
inner	337	2018	Planted	Unknown	N	10	poor	PS 337 PLD	A			4
inner	338	2018	Planted	Unknown	N	20	poor	PS 338 PLD	Α			4

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	339	2018	Planted	F	Υ	80	good	PS 339 PLD	А			4
inner	340	2018	Planted	Unknown	N	10	poor	PS 340 PLD	А			4
inner	341	2018	Planted	Unknown	N	20	poor	PS 341 PLD	А			4
inner	342	2018	Planted	Unknown	N	20	poor	PS 342 PLD	А			4
inner	343	2018	Planted	Unknown	N	40	moderate	PS 343 PLD	А			4
inner	344	2018	Planted	Unknown	N	20	poor	PS 344 PLD	А			4
inner	15	2014	Planted	F	Υ	90	good	PS 15 PLD	А	А	Α	5
inner	16	2014	Planted	М	Υ	100	good	PS 16 PLD	А	А	Α	5
inner	17	2014	Planted	F	N	Not applicable	Not applicable	PS 17 PLD	D	D	D	5
inner	18	2014	Planted	F	N	Not applicable	Not applicable	PS 18 PLD	D	D	D	5
inner	19	2014	Planted	F	N	Not applicable	Not applicable	PS 19 PLD	D	D	D	5
inner	20	2014	Planted	F	N	Not applicable	Not applicable	PS 20 PLD	D	D	D	5
inner	21	2014	Planted	F	N	Not applicable	Not applicable	PS 21 PLD	D	possibly dormant	А	5
inner	22	2014	Planted	М	N	Not applicable	Not applicable	PS 22 PLD	D	D	D	5
inner	23	2014	Planted	F	Υ	90	good	PS 23 PLD	А	Α	А	5
inner	24	2014	Planted	М	Υ	95	good	PS 24 PLD	А	Α	А	5
inner	25	2014	Planted	М	N	Not applicable	Not applicable	PS 25 PLD	D	possibly dormant	Α	5
inner	77	2015	Planted	М	N	Not applicable	Not applicable	PS 77 PLD	D	D	D	5
inner	78	2015	Planted	F	N	Not applicable	Not applicable	PS 78 PLD	D	D	D	5
inner	79	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 79 PLD	D	D	D	5
inner	80	2015	Planted	F	N	Not applicable	Not applicable	PS 80 PLD	D	D	D	5
inner	81	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 81 PLD	D	D	D	5
inner	82	2015	Planted	F	N	Not applicable	Not applicable	PS 82 PLD	D	possibly dormant	Α	5
inner	83	2015	Planted	F	N	Not applicable	Not applicable	PS 83 PLD	D	D	D	5
inner	84	2015	Planted	F	N	Not applicable	Not applicable	PS 84 PLD	D	D	D	5

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	85	2015	Planted	F	N	Not applicable	Not applicable	PS 85 PLD	D	D	D	5
inner	86	2015	Planted	F	N	Not applicable	Not applicable	PS 86 PLD	D	D	D	5
inner	87	2015	Planted	М	N	Not applicable	Not applicable	PS 87 PLD	D	D	D	5
inner	88	2015	Planted	F	N	Not applicable	Not applicable	PS 88 PLD	D	D	D	5
inner	89	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 89 PLD	D	D	D	5
inner	90	2015	Planted	F	N	Not applicable	Not applicable	PS 90 PLD	D	D	D	5
inner	91	2015	Planted	М	N	Not applicable	Not applicable	PS 91 PLD	D	D	D	5
inner	92	2015	Planted	F	N	Not applicable	Not applicable	PS 92 PLD	D	D	D	5
inner	93	2015	Planted	F	N	Not applicable	Not applicable	PS 93 PLD	D	D	D	5
inner	287	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 287 PLD	D			5
inner	288	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 288 PLD	D			5
inner	289	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 289 PLD	D			5
inner	290	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 290 PLD	D			5
inner	291	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 291 PLD	D			5
inner	292	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 292 PLD	D			5
inner	293	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 293 PLD	D			5
inner	294	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 294 PLD	D			5
inner	295	2017	Planted	F	Υ	80	good	PS 295 PLD	А			5
inner	296	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 296 PLD	D			5
inner	297	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 297 PLD	D			5
inner	298	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 298 PLD	D			5
inner	299	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 299 PLD	D			5
inner	300	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 300 PLD	D			5
inner	345	2018	Planted	F	Υ	60	moderate	PS 345 PLD	Α			5
inner	346	2018	Planted	Unknown	N	60	moderate	PS 346 PLD	Α			5
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Zone inner/ outer	Plant no	Year recruited /planted	Type	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	347	2018	Planted	Unknown	N	80	good	PS 347 PLD	А			5
inner	348	2018	Planted	Unknown	N	80	good	PS 348 PLD	А			5
inner	349	2018	Planted	Unknown	N	20	poor	PS 349 PLD	А			5
inner	350	2018	Planted	Unknown	N	40	moderate	PS 350 PLD	А			5
inner	351	2018	Planted	Unknown	N	80	good	PS 351 PLD	А			5
inner	352	2018	Planted	Unknown	N	10	poor	PS 352 PLD	А			5
inner	353	2018	Planted	Unknown	N	1	poor	PS 353 PLD	А			5
inner	354	2018	Planted	Unknown	N	60	moderate	PS 354 PLD	А			5
inner	355	2018	Planted	Unknown	N	40	moderate	PS 355 PLD	А			5
inner	356	2018	Planted	Unknown	N	Not applicable	Not applicable	PS 356 PLD	D			5
inner	357	2018	Planted	Unknown	N	60	moderate	PS 357 PLD	А			5
inner	358	2018	Planted	Unknown	N	60	moderate	PS 358 PLD	А			5
inner	359	2018	Planted	Unknown	N	40	moderate	PS 359 PLD	А			5
inner	360	2018	Planted	Unknown	N	1	poor	PS 360 PLD	А			5
inner	361	2018	Planted	Unknown	N	10	poor	PS 361 PLD	А			5
inner	6	unknown	Remnant	F	N	Not applicable	Not applicable	PS 6 REM	D	possibly dormant	Α	6
inner	9	2014	Planted	F	N	Not applicable	Not applicable	PS 9 PLD	D	D	D	6
inner	10	2014	Planted	М	Υ	95	good	PS 10 PLD	А	Α	Α	6
inner	11	2014	Planted	F	Υ	80	good	PS 11 PLD	А	D	D	6
inner	12	2014	Planted	F	N	Not applicable	Not applicable	PS 12 PLD	D	D	D	6
inner	13	2014	Planted	М	N	Not applicable	Not applicable	PS 13 PLD	D	possibly dormant	Α	6
inner	14	2014	Planted	F	N	Not applicable	Not applicable	PS 14 PLD	D	possibly	А	6
inner	59	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 59 PLD	D	D	D	6
inner	60	2015	Planted	F	N	Not applicable	Not applicable	PS 60 PLD	D	D	D	6
inner	61	2015	Planted	F	N	Not applicable	Not applicable	PS 61 PLD	D	D	D	6

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	62	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 62 PLD	D	D	D	6
inner	63	2015	Planted	F	N	Not applicable	Not applicable	PS 63 PLD	D	D	D	6
inner	64	2015	Planted	М	N	Not applicable	Not applicable	PS 64 PLD	D	D	D	6
inner	65	2015	Planted	F	N	Not applicable	Not applicable	PS 65 PLD	D	D	D	6
inner	66	2015	Planted	F	N	Not applicable	Not applicable	PS 66 PLD	D	D	D	6
inner	67	2015	Planted	Unknown	N	Not applicable	Not applicable	PS 67 PLD	D	D	D	6
inner	68	2015	Planted	F	N	Not applicable	Not applicable	PS 68 PLD	D	D	D	6
inner	69	2015	Planted	F	N	Not applicable	Not applicable	PS 69 PLD	D	D	D	6
inner	70	2015	Planted	М	N	Not applicable	Not applicable	PS 70 PLD	D	D	D	6
inner	71	2015	Planted	F	N	Not applicable	Not applicable	PS 71 PLD	D	D	D	6
inner	72	2015	Planted	М	N	Not applicable	Not applicable	PS 72 PLD	D	D	D	6
inner	73	2015	Planted	F	N	Not applicable	Not applicable	PS 73 PLD	D	D	D	6
inner	74	2015	Planted	F	N	Not applicable	Not applicable	PS 74 PLD	D	D	D	6
inner	75	2015	Planted	F	N	Not applicable	Not applicable	PS 75 PLD	D	D	D	6
inner	76	2015	Planted	М	N	Not applicable	Not applicable	PS 76 PLD	D	Α	Α	6
inner	162	2016	Planted	Unknown	N	Not applicable	Not applicable	PS162 PLD	D	possibly dormant	Α	6
inner	163	2016	Planted	Unknown	N	Not applicable	Not applicable	PS163 PLD	D	possibly dormant	Α	6
inner	164	2016	Planted	Unknown	N	Not applicable	Not applicable	PS164 PLD	D	possibly dormant	Α	6
inner	165	2016	Planted	Unknown	N	Not applicable	Not applicable	PS165 PLD	D	possibly dormant	Α	6
inner	166	2016	Planted	Unknown	N	Not applicable	Not applicable	PS166 PLD	D	possibly dormant	Α	6
inner	167	2016	Planted	F	Υ	80	good	PS167 PLD	Α	А	Α	6
inner	168	2016	Planted	Unknown	N	Not applicable	Not applicable	PS168 PLD	D	possibly dormant	Α	6
inner	301	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 301 PLD	D			6
inner	302	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 302 PLD	D			6

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
inner	303	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 303 PLD	D			6
inner	304	2017	Planted	F	Υ	95	good	PS 304 PLD	А			6
inner	305	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 305 PLD	D			6
inner	306	2017	Planted	F	Υ	95	good	PS 306 PLD	А			6
inner	307	2017	Planted	Unknown	N	Not applicable	not applicable	PS 307 PLD	D			6
inner	308	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 308 PLD	D			6
inner	309	2017	Planted	Unknown	N	95	good	PS 309 PLD	А			6
inner	310	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 310 PLD	D			6
inner	311	2017	Planted	Unknown	N	95	good	PS 311 PLD	А			6
inner	312	2017	Planted	F	Υ	95	good	PS 312 PLD	А			6
inner	313	2017	Planted	F	Υ	95	good	PS 313 PLD	А			6
inner	314	2017	Planted	F	Υ	95	good	PS 314 PLD	А			6
inner	315	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 315 REC	D			6
inner	362	2018	Planted	Unknown	N	20	poor	PS 362 PLD	А			6
inner	363	2018	Planted	Unknown	N	60	moderate	PS 363 PLD	А			6
inner	364	2018	Planted	Unknown	N	10	poor	PS 364 PLD	А			6
inner	365	2018	Planted	Unknown	N	10	poor	PS 365 PLD	А			6
inner	366	2018	Planted	Unknown	N	Not applicable	Not applicable	PS 366 PLD	D			6
inner	367	2018	Planted	Unknown	N	10	poor	PS 367 PLD	А			6
inner	368	2018	Planted	Unknown	N	1	poor	PS 368 PLD	А			6
inner	369	2018	Planted	Unknown	N	1	poor	PS 369 PLD	А			6
inner	370	2018	Planted	Unknown	N	1	poor	PS 370 PLD	Α			6
inner	371	2018	Planted	Unknown	N	1	poor	PS 371 PLD	А			6
inner	4	2013	Planted	F	N	Not applicable	Not applicable	NA	Α	D	D	
inner	5	2013	Planted	F	N	Not applicable	Not applicable	NA	Α	D	D	

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
outer	169	2017	Translocated	F	Υ	80	good	PS 169 REL	Α	Α		7
outer	170	2017	Translocated	F	Υ	80	good	PS 170 REL	Α	А		7
outer	171	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 171 REL	D	possibly dormant		7
outer	172	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 172 REL	D	possibly dormant		7
outer	173	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 173 REL	D	possibly dormant		7
outer	174	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 174 REL	D	possibly dormant		7
outer	175	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 175 REL	D	А		7
outer	176	2017	Translocated	F	Υ	95	good	PS 176 REL	А	possibly dormant		7
outer	177	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 177 REL	D	possibly dormant		7
outer	178	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 178 REL	D	possibly dormant		7
outer	179	2017	Translocated	M	Υ	90	good	PS 179 REL	А	possibly dormant		7
outer	180	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 180 REL	D	possibly dormant		7
outer	181	2017	Translocated	F	Υ	80	good	PS 181 REL	Α	А		7
outer	182	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 182 REL	D	possibly dormant		7
outer	183	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 183 REL	D	possibly dormant		7
outer	184	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 184 REL	D	possibly dormant		7
outer	185	2017	Translocated	F	Υ	80	good	PS 185 REL	D	Α		7
outer	186	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 186 REL	D	possibly dormant		7
outer	187	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 187 REL	D	possibly dormant		7
outer	188	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 188 REL	D	possibly dormant		7
outer	189	2017	Translocated	F	Υ	95	good	PS 189 REL	Α	Α		7
outer	190	2017	Translocated	F	Υ	80	good	PS 190 REL	А	А		7

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
outer	191	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 191 REL	D	possibly dormant		7
outer	192	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 192 REL	D	А		7
outer	193	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 193 REL	D	possibly dormant		7
outer	194	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 194 REL	D	possibly dormant		7
outer	195	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 195 REL	D	possibly dormant		7
outer	196	2017	Translocated	F	Υ	60	moderate	PS 196 REL	Α	Α		7
outer	197	2017	Translocated	М	Υ	95	good	PS 197 REL	Α	Α		7
outer	198	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 198 REL	D	possibly dormant		7
outer	199	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 199 REL	D	possibly dormant		7
outer	200	2017	Translocated	F	N	Not applicable	Not applicable	PS 200 REL	D	Α		7
outer	201	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 201 REL	D	possibly dormant		7
outer	202	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 202 REL	D	possibly dormant		7
outer	203	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 203 REL	D	possibly dormant		7
outer	204	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 204 REL	D	Α		7
outer	205	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 205 REL	D	possibly dormant		7
outer	206	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 206 REL	D	Α		7
outer	207	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 207 REL	D	possibly dormant		7
outer	208	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 208 REL	D	А		7
outer	209	2017	Translocated	M	Υ	100	good	PS 209 REL	А	А		7
outer	210	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 210 REL	D	possibly dormant		7
outer	211	2017	Translocated	F	N	Not applicable	Not applicable	PS 211 REL	D	А		7
outer	212	2017	Translocated	M	Υ	95	good	PS 212 REL	A	А		7
outer	213	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 213 REL	D	possibly		7

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
										dormant		
outer	214	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 214 REL	D	possibly dormant		7
outer	215	2017	Translocated	F	Υ	60	moderate	PS 215 REL	Α	Α		7
outer	216	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 216 REL	D	possibly dormant		7
outer	217	2017	Translocated	F	N	Not applicable	Not applicable	PS 217 REL	D	possibly dormant		7
outer	218	2017	Translocated	Unknown	N	1	poor	PS 218 REL	Α	Α		7
outer	219	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 219 REL	D	possibly dormant		7
outer	220	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 220 REL	D	possibly dormant		7
outer	221	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 221 REL	D	Α		7
outer	222	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 222 REL	D	possibly dormant		7
outer	223	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 223 REL	D	possibly dormant		7
outer	224	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 224 REL	D	possibly dormant		7
outer	225	2017	Translocated	М	Υ	80	good	PS 225 REL	Α	Α		7
outer	226	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 226 REL	D	possibly dormant		7
outer	227	2017	Translocated	Unknown	N	Not applicable	Not applicable	PS 227 REL	D	possibly dormant		7
outer	316	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 316 PLD	D			7
outer	317	2017	Planted	F	Υ	95	good	PS 317 PLD	Α			7
outer	318	2017	Planted	F	Υ	100	good	PS 318 PLD	А			7
outer	319	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 319 PLD	D			7
outer	320	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 320 PLD	D			7
outer	321	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 321 PLD	D			7
outer	322	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 322 PLD	D			7
outer	323	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 323 PLD	D			7

Zone inner/ outer	Plant no	Year recruited /planted	Туре	Sex	Flowering 2018	Percentage foliage 2018	Condition category 2018	Tag	2018 status	2017 status	2016 status	Pimelea Zone
outer	324	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 324 PLD	D			7
outer	325	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 325 PLD	D			7
outer	326	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 326 PLD	D			7
outer	327	2017	Planted	F	Υ	100	good	PS 327 PLD	А			7
outer	328	2017	Planted	Unknown	N	Not applicable	Not applicable	PS 328 PLD	D			7
outer	330	2018	Recruit	F	Υ	90	good	PS 330REC	Α			7

KEY
REM = Remnant
REL = Relocated
REC = Recruited
PLD = Planted