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# Nesting Box Progress Report

City of Unley - Monitoring and Servicing for 2015

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March 2016.

*All photos contained within this report were taken during  
2015, associated with surveying or service activities.*



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# SUMMARY



*Figure 1: Adelaide rosella chick and four eggs in a Medium Parrot Box, Hillsley Ave.*

The City of Unley's (UC) wildlife box program has been operating since 2009. The wildlife boxes were designed, together with the council's indigenous planting, to support biodiversity across the council area. The aim of the project is to enhance habitat for, and better management of, hollow dependent urban fauna within the city.

This report details the wildlife and maintenance activities that took place during 2015. The boxes were serviced during March-April 2015, then surveyed for breeding activity in September-November 2015.

There were 116 boxes surveyed across the city during 2015, including an additional unnumbered box discovered in Forestville. The wildlife boxes are located within council parks, street trees, on school grounds and private homes across the city (four boxes on private property, excluded from survey).

The program has gone from strength to strength, with 2015 being another strong year. Over 50% of the wildlife boxes were used for breeding (parrots Figure 1) or denning (possums) and 83% were used by a range of the target vertebrate species. Another new species was recorded for the first time during 2015 - galahs were observed breeding at Forestville and Black Forest (Figure 2).

The program has expanded considerably over the past four years and has assisted UC in meeting its biodiversity objectives. Additionally the Wildlife Box Program has allowed Unley residents to observe, appreciate and even learn a little more about the cities native wildlife.



*Figure 2: Galahs breeding for the first time, in a Medium Parrot Box; in Forestville.*

# HISTORICAL DEVELOPMENTS



Figure 3: Montage of student painted AHs from DPTI installation phase (2013).

UC engaged **fauNature**<sup>®</sup> to install, then subsequently service and monitor artificial hollows/wildlife boxes (AHs) across the city. The installations were staged in phases and the activity within the AHs is reported on annually.

The first installation took place in May 2009 following many months of discussion. Initially 28 boxes were placed in Ridge (Figure 4) and Heywood Parks, with a single box in Windsor St, Parkside. These AHs were monitored and serviced for the next two years, with progress reports submitted in 2010<sup>1</sup> and 2011<sup>2</sup>.

The Wildlife Box Monitoring and Evaluation Reports<sup>1,2</sup> were presented to the elected members, who endorsed an expansion of the program, with a particular emphasis for new installations into the western suburbs. An additional 24 AHs were installed, across the city during 2012. Following this, a report detailing monitoring and maintenance activities for the 2012<sup>3</sup> year was submitted.



Figure 4: Early installation of a Medium Parrot Box at Ridge Park.

During early 2013 the Department for Planning, Transport and Infrastructure (DPTI) approached **fauNature**<sup>®</sup> about delivering a number of Wildlife Engagement Workshops. These were run as part of the community engagement aspects of the Goodwood Junction Rail Revitalisation Project. These workshops and similar activities, undertaken by Unley primary school students produced an additional 42 AHs. These were installed during late 2013 (Figure 3). Following installation, the majority of the boxes became the property of Unley Council; further details can be found in the Wildlife

Box Monitoring and Evaluation Report<sup>4</sup> (2013) and DPTI - Community Wildlife Project.<sup>5</sup>

*fauNature*<sup>®</sup> was approached in late 2013 to add the management of ten *fauNature* Brushtail Boxes in Fullarton Park, installed some years previously by a pest



Figure 5: Early installation of a Medium Parrot Box at Ridge Park.

controller, to the ongoing AHs program; further details can be found in the Wildlife Box Monitoring and Evaluation Report<sup>6</sup> (2014).

Habitat enhancement in Heywood Park, together with the need to protect remnant grey box (*Eucalyptus macrocarpa*) saw in the installation of an additional 17 boxes in August 2015. These boxes included the traditional

brushtail, medium parrot, and bat boxes, but also kookaburra, large parrot, and pardalote boxes (Figure 5) in the interests of increasing biodiversity. This brought the total number of AHs associated with the Unley Wildlife Box Program to 121 (Appendix A).

# LOCATION & IDENTIFICATION

More than 120 AHs have been installed across the City of Unley and it is essential to keep track of this infrastructure. For each AH, the following information has been recorded: location (park/road), box type, box orientation, tree type, GPS coordinates and a unique identifying number (Appendix A).

The identification number for the AHs include a two (Figure 6) or three (Figure 7) digit sequential codes, attached to the bottom of each box. The codes, are either painted on or attached to the bottom of the AHs .



*Figure 7: three digit code, painted numbering on a McLeary Park, Possum Box.*



*Figure 6: two digit code, Heywood Park Bat Boxes.*

GPS locations are recorded for each box (e.g. 34° 57.621'S : 138° 38.394'E) to ensure council staff or contractors can locate the boxes, as necessary.

For the early installations pre-cut 'letterbox' numbers were used (Figure 6). During the next phase of

the program, the AHs numbers were painted maroon on the pale green background (Figure 7). The boxes provided by DPTI funding, with the assistance of local Goodwood and Black Forest Primary School students have been individually decorated (Figure 3), so each is unique in its own way, as can be seen from the collection of images displayed at the top of page 3. The numbering for these and subsequent AHs utilised the original pre-cut 'letterbox' system.

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# MONITORING & MAINTENANCE

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Specific wildlife observations were made for each of the AHs. Additionally, general wildlife observations were made for the area where the AHs were located during servicing and monitoring. Species present were noted, particularly those taking an interest in or utilising these AH resources.

The servicing and monitoring processes involve the AHs being inspected initially from the ground, then at the height of the AH externally and finally internally (Figure 8). The AHs were assessed for evidence of use by wildlife as well as the AHs overall condition. Details of the findings are recorded.



*Figure 8: Two ringtail possums denning in a box, in Ridge Park.*

Servicing/maintenance for the AHs is recommended once per year, to ensure each box offers:

- 1) A safe resource for both people and animals using the area/resources.
- 2) Minimise potential impact on the tree.
- 3) To maximise the useful life of the box.

February to April is an ideal time to service the AHs, as by this time most birds will have completed their nesting. Species like Brushtail Possums or micro-bats may be present year round, so servicing the AHs may still be undertaken, though not always fully. When there is fauna occupying an AH, additional precautions need to be taken.

During the servicing, besides recording wildlife activity, the AHs are cleaned out, as required, and new nesting material is added. The securing mechanisms for the AHs are also adjusted, to allow for tree growth and maximise safety.

The monitoring surveys take place during spring (Sept-Nov), so assessment is made during the period of highest nesting activity.

Photographs are taken during both monitoring and maintenance activities. These highlight the various signs of wildlife utilising the AHs (e.g. adults, chicks, eggs, fur, feathers, chewing, staining, etc) and where relevant the condition of the boxes. Some of these photos have been used within the presentation itself, with a selection of additional images displayed in Appendix B.

# ARTIFICIAL HOLLOW USAGE

The AHs were serviced March - April and then monitored September - November 2015. One hundred and sixteen (116) AHs were serviced and/or monitored over seventeen locations - across the city (Table 1).

**Table 1: Details the number of artificial hollows installed and monitored across the City of Unley during 2015.**

Locations	Number
Ridge Park, Myrtle Bank	17
Heywood Park, Unley Park	27
McLeary Park, Parkside	3
Henry Codd Reserve, Parkside	2
Windsor St, Parkside	3
Aroha Tce, Forestville	1
Forestville Reserve, Forestville	15
Jellicoe Ave, Kings Park	3
Hillsley Ave, Everard Park	2
Souter Park, Goodwood	2
Goodwood PS, Goodwood	4
Black Forest School, Black Forest	8
Devon St & Railway Tce, Millswood	3
Lyons Pde, Millswood	1
Crommer Pde, Millswood	13
Goodwood Oval, Millswood	3
Fullarton Park Centre, Fullarton	10

The AHs collectively included:

- 36 Medium Parrot Boxes (MPB)



- 34 Brushtail Possum Boxes (BPB)
- 25 Small Parrot Boxes (SPB)
- 1 Large Parrot Box (LPB)
- 2 Kookaburra Boxes (KbB)
- 3 Pardalote Boxes (PdB)
- 5 Non-fauNature Small Parrot Boxes
- 11 Bat boxes (BtB)



Figure 8: Rainbow Lorikeet - two chicks in a Small Parrot Box, Windsor St.

### Fauna recorded during survey

Exploitation of the AHs by wildlife was high in 2015, though back a little from the most prolific year to date in 2014. Various fauna species were using 49 AHs (51%), on the servicing/monitoring days, including 39 AHs occupied by five different bird and two possum species. Wildlife species observed using the AHs over the two observation periods included:

- Possums (individuals): two Common Brushtail (*Trichosurus vulpecula*), 11 Ringtail (*Pseudocheirus peregrinus*) and one possum which couldn't be identified.
- Birds: the boxes inhabited by species included 24 Rainbow Lorikeets (*Trichoglossus haematodus*; Figure 8), six Adelaide Rosellas (*Platycercus elegans*), one Eastern Rosellas (*Platycercus eximius*), two Galahs (*Eolophus roseicapilla*), one Starling (*Sturnus vulgaris*) and five nests of unidentified species. Collectively almost 100 adults, chick and eggs were observed specifically associated with the AHs.



Figure 9: Well used Medium Parrot Box at Ridge Park.

An additional 31 (33%) AHs displayed evidence of activity ranging from dead chicks, remains of eggs, chewing and scratching, disturbed bedding material, faecal matter, insect castings, fur and feather (Figure 9). Ten NBs contained bees and 14 were installed late, as the 2015 breeding started, although three of these still exhibited signs of occupation. Therefore assessment was made on 96 AHs, available during the year. Ten AHs (mainly BtBs) exhibited no evidence of use.

The older Heywood Park AHs were again well utilised. Brushtail Possums were recorded in two of the boxes (Figure 10), while fur and

faeces were recorded in a number of others. Both parrot chicks and eggs, were recorded in three boxes at Heywood Park. Activity was seen in all the established possum and parrot boxes across this park, though limited in the newly installed boxes (14) and in the bat boxes.



*Figure 10: Brushtail in a Possum Box, at Heywood Park.*

Ridge Park displayed high occupancy, during 2015. Nine Ringtails, of the 14 possums recorded this year, were from Ridge Park. Additionally two

AHs contained either eggs or chicks of Rainbow Lorikeets. Activity was seen in majority of possum and parrot boxes across this park, however the bat boxes displayed limited activity.

The AH numbers on the western side of the city consist a mix of Parrot and Brushtail Possum Boxes. Evidence of parrot nesting or roosting activity was recorded in the majority of AHs whether they were located in schools, streets or parks. Forestville housed nine breeding pairs of parrots (i.e. Rainbow Lorikeet, Adelaide Rosella and Galah). Five breeding pairs were recorded along Crommer Pde (i.e. Adelaide Rosella, Rainbow Lorikeet, Eurasian Starling), unfortunately during the course of the last few years bees had also inhabited five of these boxes. Evidence of possum activity was seen at Fullarton Park, with two healthy ringtails and one dead possum recorded.

Parrot activity, be it breeding or roosting was observed in majority of the smaller sties (McLearyPark, Henery Codd Res., Jellico Ave, Hillsey Ave, Souter Park, Devon St, Railway Pde, Lyons Pde and Goodwoods Oval).



*Figure 11: Marbled Gecko in Small Parrot Box, at Forestville.*

A bat was observed using council bat boxes for the first time, during 2014. No bats were recorded for 2015, with these boxes occupied by either Marbled Geckos or various spider species (Figure 11).

Galahs have been suspected of damaging various AHs over a number of year, however 2015 was the first time the species has been observed to breed. Chicks were recorded in a Brushtail Possum Box



*Figure 12: Galah chick in a Medium Parrot Box, at Forestville.*

of the city with hives on Crommer Pde (5: Figure 13), Devon St (1), Aroha Tce (1) and Souter Park (1). The other three hives were all recorded in Fullarton Park.

Small Parrot Box #57 is currently awaiting installation. Eight AHs removed in November due to bees have been cleaned, serviced and are awaiting re-installation. Two additional boxes Small Parrot Box #52 and Medium Parrot Box #78 have been recently removed and are awaiting attention.

(1) at Forestville (Figure 12) and a Medium Parrot Box (3) at Black Forest (Figure 2).

Bees were observed in 10 boxes during 2015. The concentration appears to be on the western side



*Figure 13: Bees invaded a Medium Parrot Box, Crommer Pde.*

# CONCLUSIONS

Artificial hollows have continued to provide habitat for a range of fauna. During 2015 over 80% of the AHs have been used by one species or another, whether by investigation, roosting, denning or the rearing of young.

Parrots and possums will opportunistically use AHs when they are available. As with 2010-14 surveys, these species continue to be the major users of AHs provided. Two species of possums were again observed, Brushtail Possums (2), Ringtail Possums (11) and an unidentified possums (1) utilising AHs across the city, with numbers being robust at Ridge Park. This reflects the numbers seen across the city in 2014, which is encouraging. Evidence of parrot breeding or roosting was seen in almost 75% of the available boxes, with 42 active nest or birds in residence recorded over the two investigation periods.

## Mammals

**Common Brushtail Possum:** under the National Parks and Wildlife Act are listed as rare in South Australia. The Adelaide Plains is just one of three locations in the state where this iconic species remains relatively common. However, concerns have been raised that its numbers may be declining locally. The presence of two Brushtail Possums, with the probability of an additional animal which was not identified, is slightly down on last year, but consistent with the longer term numbers. Heywood Parks continues to be a stronghold for this species within the city.

**Ringtail Possums:** have been recorded at Ridge Park for the last six years. Given the limited nature and availability of natural hollows in the northeast corner of the park, the AHs provide shelter, in an area where Ringtails may not otherwise be present. Eleven Ringtails were



*Figure 14: First record of a Ringtail Possum in a AH at Fullarton Park.*

recorded in Ridge Park in 2015. Ringtail Possums were also recorded for the first time in Fullarton Park (Figure 14), with two boxes containing animals.

**Micro bat:** the first record of a microbat was during 2014. Evidence of these species were not observed during 2015.

## Birds

Rainbow Lorikeet: very prominent user of AHs. Twenty-six AHs had roosting or nesting attributed to this species. Lorikeet usage was recorded in AHs from across the city. The evidence ranged from chewing to feathers and eggs to chicks and/or adults. High occupation rates by Rainbow Lorikeets is typical, as this species will use hollows for both nesting and roosting; they are also known to nest all year round. Most species of parrots only use hollows for nesting, which is usually during the spring-summer breeding season.

Adelaide Rosella: eggs and/or chicks were observed in six boxes at three different locations across the city (Figure 15). Additional evidence of activity was also recorded widely for this species.

Eastern Rosella: a single pair was recorded utilising a box on the western side of the city. This number is down on observations recorded for 2013 and 2014.

Galah: two breeding events were recorded for this species at Forestville and Black Forest. 2015 represents the first recorded breeding for this species under the program.



Figure 15: Adelaide Rosella clutch of 6 eggs; Medium Parrot Box on Crommer Pde.

A number of failed nesting attempts (9) were evident from the surveys, these involved Lorikeets and Rosellas. The cause of death is unknown, however it is relatively common for Rosella eggs or chicks to fail for a variety of reasons; however little is known about the breeding success of wild Rainbow Lorikeets.<sup>7</sup>

Whilst carrying out the survey numerous sightings and calls of other birds were noted - these species included Sulphur-crested Cockatoos, Crested Pigeons, Noisy Minors, Kookaburras, Australian Magpies, Magpielarks, New Holland Honeyeaters, Red Wattlebirds, Welcome Swallows, Blackbirds, Galahs, Rainbow Lorikeets, Adelaide and Eastern Rosellas.

## Other Fauna

Marbled Gecko (*Christinus marmoratus*) were found in or behind a number of boxes. They typically live under bark or in natural hollows and takes advantage of AHs, when present.

Spiders were recorded throughout the survey and are common in AHs, particularly Huntsmans (Sparassidae) in the bat boxes or where bird and possum movement is limited.

Bees were recorded in ten AHs: Medium Parrot (5), small parrot (1) and Brushtail Boxes (4). All hives have been removed and the bees dealt with.

Lee Anderson has expressed concern about bee hives in natural and artificial hollows in previous years, and suggested a *fauNature*<sup>®</sup> undertake a trial preventing bee swarm uptake in nesting boxes for the coming spring.

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# RECOMMENDATIONS

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The approach UC is taking continues to have a positive impact on the local hollow dependant wildlife. While installing or servicing AHs, *fauNature*<sup>®</sup> staff are regularly approached by local residents - and are encouraged to keep up the good work!

These AHs have continued to supply much-needed habitat for a range of wildlife species. This year has again been very successful, with 80% of the available AHs being utilised. The AHs enhance local biodiversity and exposed residents to some of the wildlife that are able to co-exist with them, across the City.

The numbers of AHs that are now in place across Unley is 121. This includes 105 AHs on council parks, reserves or verges, 12 in schools (Goodwood PS and Black Forest PS) and four on private property. With 12 AHs are awaiting installation/re-installation following servicing or attention.

The AHs continue to be serviced (& monitored) between March and May annually (when usage is at its lowest) and a second monitoring occurs during the September-November breeding peak, each year. Annual servicing would continue to maximise the safety and functionality of the AHs, minimise the impact to host trees and enable AH damage or occupation by feral bees to be identified, so appropriate steps can be taken to maintain this resource. This approach is working well and producing the results anticipated.

It is recommended reporting continues annually.

Feral bees have been removed from ten boxes over the last few months and it is anticipated all AHs will be reinstalled before the breeding season commences. Feral bees are the second greatest threat to hollow dependant fauna, after habitat clearance. In support of Lee Anderson's suggestion, *fauNature*<sup>®</sup> could undertake a trial looking at preventing bees building hives in AHs, within Ridge and/or Heywood Parks. Such a trial is recommended to accurately gauge the success of the program.

Discussions have also been undertaken to map the locations of the boxes across the city. *fauNature*<sup>®</sup> is in a position to supply or generate the necessary information as and when required.

*fauNature*<sup>®</sup> has also been in discussions to further the introduction of a webcam(s) project, within one or more of the cities AHs, as requested. It would be worth convening a meeting over the next few months to further clarify the scope of this exciting new aspect of the City of Unley's Wildlife Box Program.

The ongoing assessment continues to be very positive, which reinforces the strategy for enhancing wildlife by Unley Council. *fauNature*<sup>®</sup> will investigate additional areas across the city where the installation of AHs is likely to increase the presence of native species, this will be appreciated by wildlife and local residents alike.

*fauNature*<sup>®</sup> would welcome any questions regarding this report.



# APPENDIX A: LOCATIONS

Wildlife Box Installations - Locations and associated data.

## Nesting Boxes Installations - City of Unley (March 2016)

BOX #	DATE	INITIALS	BOX TYPE	TREE TYPE	GPS		Facing	COMMENTS
					North	East		
<b>Ridge Park</b>								
01	22/05/09	GP	BtB	Euc	34.57.621	138.38.394	N	
02	22/05/09	GP	BtB	Euc	34.57.621	138.38.394	N	
03	22/05/09	GP	MPB	Euc	34.57.621	138.38.394	E	Bee infestation removal/reinstall (March 2013)
04	22/05/09	GP	BPB	Euc	34.57.614	138.38.415	E	
05	22/05/09	GP	MPB	Euc	34.57.612	138.38.416	E	
06	22/05/09	GP	SPB	Euc	34.57.602	138.38.453	E	
07	22/05/09	GP	SPB	Euc	34.57.601	138.38.457	E	Bee removal: new box installed (April 2014) - # or box required??
08	22/05/09	GP	BPB	Euc	34.57.616	138.38.477	E	
09	22/05/09	GP	MPB	Euc	34.57.620	138.38.481	E	Bee infestation removal/reinstall (2012)
10	22/05/09	GP	SPB	Euc	34.57.639	138.38.499	SE	
11	22/05/09	GP	BtB	Euc	34.57.678	138.38.447	NN W	
12	22/05/09	GP	BtB	Euc	34.57.678	138.38.447	N	
13	22/05/09	GP	MPB	Euc	34.57.690	138.38.443	E	
14	22/05/09	GP	BPB	Euc	34.57.699	138.38.458	SE	Bee infestation removal/reinstall 2012 - POSSIBILITY OF MOVING BOX??
15	22/05/09	GP	BPB	Euc	34.57.689	138.38.383	E	Tree removal/Bee infestation removal/reinstall (March 2013)
16	22/05/09	GP	BtB	Euc	34.57.659	138.38.347	N	
17	22/05/09	GP	BPB	??	34.57.643	138.38.304	E	Bee infestation reinstall W side of tennis court (Sept 2015)
<b>Heywood Park</b>								
19	29/05/09	JIDS	BPB	Esp	34°57.701'	138°35.987'	S	
20	29/05/09	JIDS	SPB	Esp	34°57.689'	138°35.979'	E	Repositioned due to extensive moisture (2012)
21	29/05/09	JIDS	MPB	Esp	34°57.660'	138°35.993'	E	
22	29/05/09	JIDS	BPB	Esp	34°57.658'	138°35.986'	NE	
23	29/05/09	JIDS	SPB	Esp	34°57.643'	138°35.980'	SE	Repositioned due to extensive moisture (2012)
24	29/05/09	JIDS	BPB	Esp	34°57.673'	138°36.125'	SE	
25	29/05/09	JIDS	BdB	Esp	34°57.673'	138°36.125'	NW	
26	29/05/09	JIDS	BdB	Esp	34°57.693'	138°36.125'	NE	
27	29/05/09	JIDS	BdB	Esp	34°57.693'	138°36.125'	NW	
28	29/05/09	JIDS	BPB	Esp	34°57.698'	138°36.130'	E	MPB Galah damage, replaced with BPB, Apr 2012.
105	18/08/15	JIDS	BPB	Rub	34°57.38'	138°36.9'	E	Northgate St - PLEASE CHECK GPS!
106	18/08/15	JIDS	BPB	Euc	34°57.38'	138°36.44'	SE	Northgate St - PLEASE CHECK GPS!
107	18/08/15	JIDS	LPB	Euc	34°57.37'	138°36.15'	SE	Northgate St - PLEASE CHECK GPS!
108	18/08/15	JIDS	MPB	Euc	34°57.693'	138°36.125'	E	Grove St
109	18/08/15	JIDS	KbB	Euc	34°57.633'	138°36.113'	NE	Northgate St
110	18/08/15	JIDS	PdB	Euc	34°57.633'	138°36.113'	SE	Northgate St
111	18/08/15	JIDS	BtB	Euc	34°57.637'	138°36.120'	NW	Grove St

BOX #	DATE	INITIALS	BOX TYPE	TREE TYPE	GPS		Facing	COMMENTS
					North	East		
112	18/08/15	JIDS	BtB	Euc	34°57.637'	138°36.120'	NW	Grove St
113	18/08/15	JIDS	MPB	Euc	34°57.637'	138°36.120'	SE	Grove St
114	18/08/15	JIDS	BPB	Euc	34°57.638'	138°36.118'	E	Grove St
115	18/08/15	JIDS	BPB	Euc	34°57.655'	138°36.124'	SE	Grove St
116	18/08/15	JIDS	BPB	Euc	34°57.660'	138°36.123'	E	Grove St
117	18/08/15	JIDS	BPB	Euc	34°57.671'	138°36.121'	E	Grove St
118	18/08/15	JIDS	PdB	Euc	34°57.671'	138°36.121'	E	Grove St
119	18/08/15	JIDS	LPB	Euc	34°57.699'	138°36.128'	E	Grove St
120	18/08/15	JIDS	Pdb	Euc	34°57.704'	138°36.128'	E	Grove St
121	18/08/15	JIDS	KbB	Euc	34°57.704'	138°36.128'	E	Grove St
<b>30 Grove St (private residence)</b>								
29	Apr-12	GP	KbB	-	-	-	-	NA private home.
30	Apr-12	GP	KbB	-	-	-	-	NA private home.
<b>McLeary Park</b>								
31	Apr-12	GP	MPB	Esp	34°56.552'	138°36.779'	E	
32	Apr-12	GP	MPB	Esp	34°56.561'	138°36.780'	E	
33	Apr-12	GP	BPB	Esp	34°56.555'	138°36.838'	E	
<b>Henery Codd Reserve</b>								
34	Apr-12	GP	MPB	Esp	34°56.812'	138°36.968'	S	Replace damaged box with NEW (MAR 2016)
35	Apr-12	GP	SPB	Esp	34°56.839'	138°36.974'	E	Replace damaged box with NEW (MAR 2016)
<b>Windsor St</b>								
19	22/05/200	GP	SPB	Esp	34°57.005'	138°36.997'	SE	Reinstalled tree following removal (March 2013)
36	Apr-12	GP	MPB	Esp	34°56.907'	138°36.974'	SE	
37	Apr-12	GP	SPB	Acs	34°56.891'	138°36.974'	E	
<b>Aroaha Tce</b>								
39	Apr-12	GP	MPB	Esp	-	-	E	Re-install after treated for bees in Aroaha or Forestville Pk
<b>Forestville Reserve, Goodwood</b>								
38	Apr-12	GP	MPB	-	-	-	-	Replaced opp. edge of car park next to lamp - GPS & tree typ required
40	17/05/14	JIDS	BPB	Esp	34°57.135'	138°35.049'	SE	Replaced after DPTI removal, by creek W side, by storm drain.
41	20/07/12	JIDS	SPB	Esp	34°57.143'	138°35.029'	SE	
42	20/07/12	JIDS	SPB	Esp	34°57.097'	138°35.085'	E	
43	20/07/12	JIDS	MPB	Esp	34°57.143'	138°35.013'	SE	
44	26/04/14	JIDS	MPB	Esp	34°57.114'	138°35.016'	SE	Replaced after DPTI removal, by creek W side.
45	20/07/12	JIDS	BPB	Esp	34°57.115'	138°35.037'	E	Bee infestation removal/reinstall (April 2013)
58	27/09/13	GP	MPB	Esp	34°57.119'	138°35.029'	S	W side of creek, near central BBQ, beside path (7591-92).
59	27/09/13	GP	SPB	Esp	34°57.091'	138°35.016'	S	W side of creek, between playground and central car park (7593-95).
60	27/09/13	GP	SPB	Esp	34°57.125'	138°35.050'	SSE	E side of creek, beside main storm water drain.
61	27/09/13	GP	MPB	Esp	34°57.052'	138°35.073'	S	NE cnr, near fence opposite railway station.
62	27/09/13	GP	BPB	Esp	34°57.066'	138°35.067'	S	E side of pool, W side of path, opposite railway station.
63	27/09/13	GP	SPB	Esp	34°57.071'	138°35.074'	S	E side of pool, near fence opposite railway station.

BOX #	DATE	INITIALS	BOX TYPE	TREE TYPE	GPS		Facing	COMMENTS
					North	East		
64	27/09/13	JID	BPB	Esp	34°57.106'	138°35.049'	E	Moved S along creek-line (26/4/14), following damage to original tree.
66	26/04/14	JID	Bat	Esp	34°57.134'	138°35.028'	NW	Ex. Black Forest PS box; Nth of southern car park.
<b>Jellicoe Ave</b>								
46	20/07/12	JIDS	MPB	Esp	34°57.849'	138°35.711'	SE	
47	20/07/12	JIDS	BPB	Esp	34°57.885'	138°35.757'	E	
48	20/07/12	JIDS	BPB	Esp	34°57.870'	138°35.742'	E	By pedestrian crossing on train tracks.
<b>Hillsley Ave, Everard Park</b>								
49	20/07/12	JIDS	MPB	Esp	34°57.163'	138°34.511'	SE	
50	20/07/12	JIDS	MPB	Esp	34°57.124'	138°34.507'	SE	
<b>Souter Park, Goodwood (moved from Rogers 5/5/15)</b>								
51	20/07/12	JIDS	MPB	Ex	34°57.00'	138°35.35'	E	NE Albert St edge of park; in jacaranda; SE facing
52	20/07/12	JIDS	SPB	Ex	34°56.58'	138°35.35'	E	Bees removed March 2016
<b>Goodwood PS, Goodwood</b>								
53	27/09/13	JID	MPB	Esp	34°57.131'	138°35.240'	E	School vegie garden; cnr Surry & Essex St (7354-56)
54	27/09/13	JID	MPB	Esp	34°57.100'	138°35.371'	E	East side of playground; Goodwood Rd (7351-53)
55	27/09/13	JID	MPB	Esp	34°57.060'	138°35.308'	SSE	NW corner of school; Hampton St South (7349-50)
56	04/11/13	JID	SPB	Esp	34°57.097'	138°35.307'	E	West side of office block; (7527-28)
57			SPB	Esp	-	-		Not yet installed - to be in kindy playground.
<b>Black Forest School,</b>								
65	27/09/13	JID	Bird	Esp	34°57.626'	138°34.459'	E	Tree E of school grounds
67	27/09/13	JID	MPB	Esp	34°57.649'	138°34.362'	E	Tree SW of school grounds
68	27/09/13	JID	Bird	Esp	34°57.643'	138°34.492'	E	Tree E of school grounds
69	27/09/13	JID	Bird	Esp	34°57.640'	138°34.379'	E	Tree W of school grounds
70	27/09/13	GP	Bird	Esp	34°57.537'	138°34.539'	E	Forest Ave Res, NW cnr in garden bed
71	27/09/13	GP	Bird	Esp	34°57.610'	138°34.588'	SSE	Forest Ave Res, 1/2 way along E side
72	27/09/13	GP	Bird	Esp	34°57.632'	138°34.363'	E	Forest Ave Res, S end. by cricket nets
<b>Devon St &amp; Railway Tce, Goodwood</b>								
73	04/11/13	JIDS	BPB	Esp	34°57.161'	138°35.152'	S	Re-install after treated for bees.
74	04/11/13	JIDS	BPB	Ex	34°57.161'	138°35.175'	E	Molli Birch's property; Lillypilly; E side
75	04/11/13	JIDS	BPB	Ex	34°57.158'	138°35.190'	E	Molli Birch's property; Almond
76	04/11/13	JIDS	BPB	Esp	34°57.103'	138°35.139'	E	E side of tree on Railway Tce
77	04/11/13	JIDS	BPB	Esp	34°57.104'	138°35.139'	S	S side of tree on Railway Tce
<b>Lyons Pde, Millswood</b>								
78	04/11/13	GP	MPB	Ex	34°57.107'	138°35.134'	W	Bees removed March 2016
<b>Crommer Pde, Millswood</b>								
79	04/11/13	GP	SPB	Esp	34°57.305'	138°35.189'	SW	By railway line, E side of rd, N end of Cromer.
80	04/11/13	GP	MPB	Ex	34°57.360'	138°35.187'	SE	Re-install after treated for bees.
81	04/11/13	GP	SPB	Esp	34°57.370'	138°35.183'	SW	By railway line, E side of rd
82	04/11/13	GP	MPB	Ex	34°57.387'	138°35.175'	S	Re-install after treated for bees.
83	04/11/13	GP	SPB	Esp	34°57.409'	138°35.160'	SS W	By railway line, E side of rd, opposite Fairfax Ave.

BOX #	DATE	INITIALS	BOX TYPE	TREE TYPE	GPS		Facing	COMMENTS
					North	East		
84	04/11/13	GP	MPB	Esp	34°57.422'	138°35.147'	SW	Re-install after treated for bees.
85	04/11/13	GP	SPB	Esp	34°57.428'	138°35.139'	S	By railway line, E side of rd
86	04/11/13	GP	MPB	Ex	34°57.459'	138°35.101'	SW	Re-install after treated for bees.
87	04/11/13	GP	SPB	Ang	34°57.501'	138°35.046'	S	Re-install after treated for bees.
88	04/11/13	GP	MPB	Esp	34°57.515'	138°35.033'	E	By railway line, E side of rd
89	04/11/13	GP	MPB	Ex	34°57.531'	138°35.013'	S	By railway line, E side of rd
90	04/11/13	GP	BPB	Ang	34°57.534'	138°35.003'	E	By railway line, E side of rd
91	04/11/13	GP	MPB	Mel	34°57.569'	138°34.973'	E	By railway line, E side of rd
<b>Goodwood Oval, Millswood</b>								
92	04/11/13	JIDS	MPB	Esp	34°57.407'	138°34.991'	E	SE corner of garden in SE corner of GW Oval; by Fairfax Ave.
93	04/11/13	GP	SPB	Esp	34°57.405'	138°34.968'	E	SW corner of garden in SE corner of GW Oval; by Fairfax Ave.
94	04/11/13	JIDS	Possum	Esp	34°57.384'	138°34.965'	E	NW end of garden in SE corner of GW Oval; by Curzon Ave.
<b>Fullarton Park Centre, Fullarton</b>								
95	04/04/14	JIDS	BPB	Ex	34°57.476'	138°34.506'	E	Bee removal: new box installed (April 2014); Near front Centre entrance.
96	04/04/14	GP	BPB	Pine	-	-	-	Re-install after treated for bees - South side of building.
97	04/04/14	GP	BPB	Ex	-	-	-	Re-install after treated for bees - South side of building.
98	04/04/14	GP	BPB	Esp	34°57.502'	138°34.485'	E	S side of Centre, behind front car park
99	04/04/14	GP	BPB	Pep	34°57.463'	138°34.472'	SE	W side of Centre, beyond toilet block & access road.
100	04/04/14	GP	BPB	Ex	34°57.452'	138°34.485'	E	N side of Centre, NW outside playground
101	04/04/14	JIDS	BPB	Esp	34°57.462'	138°34.493'	E	Playground, N side of Centre, s side of playground
102	04/04/14	JIDS	BPB	Ex	34°57.485'	138°34.494'	W	Playground, N side of Centre, E side of playground
103	24/09/14	GP	BPB		34°57.463'	138°34.495'		Next to Fullarton Rd, opp. Cultress; no #, lacking sawdust.
104	24/09/14	GP	BPB		34°57.455'	138°34.506'		Tree type & facing required!
<b>Legend</b>								
SPB Small Parrot Box								
MPB Medium Parrot Box								
BPB Brushtail Possum Box								
BdB Bat Box (inc door)								
Esp Eucalypt species								
Acs Allocasuarina								
Ex Exotic								
Ang Angophora								
Mel Melaluca								
Grb Gravillea robusta								
Pp Pepper Tree								

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# APPENDIX B: PHOTO SUMMARY

Wildlife Box - selected observational records.

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No. 03: Ringtail Possums - Medium Parrot Box; Ridge Park. 2015



No. 005: Two Ringtail Possums - Medium Parrot Box; Ridge Park. 2015



No. 006: Rainbow Lorikeet - Small Parrot Box; Ridge Park. 2015



No. 013: Two Rainbow Lorikeet eggs - Medium Parrot Box; Ridge Park. 2015.



No. 019: Brushtail Possum - Possum Box; Heywood Park. 2015



No. 020: Rainbow Lorikeet chick & egg - Small Parrot Box; Heywood Park. 2015



No. 021: Rainbow Lorikeet - Medium Parrot Box, Heywood Park. 2015



No. 023: Two Rainbow Lorikeets - Small Parrot Box; Heywood Park. 2015



No. 024: Brushtail Possum - Brushtail Box; Heywood Park. 2015



No. 042: Two Rainbow Lorikeets - Small Parrot Box; Forestville. 2015



No. 046: Two Lorikeet chicks - Medium Parrot Box; Jellicoe Ave. 2015



No. 047: Two Rainbow Lorikeet eggs - Medium Parrot Box; Jellicoe Ave. 2015



No. 049: Adelaide Rosella chick & eggs -  
Medium Parrot Box; Hillsley Ave. 2015



No. 050: Two Lorikeet chicks - Medium  
Parrot Box; Hillsley Ave. 2015



No. 081: Adelaide Rosella eggs - Small  
Parrot Box; Cromer Pde. 2015



No. 088: Eurasian Starling eggs - Medium  
Parrot Box; Crommer Pde. 2015



No. 097: Koala near - Possum Box;  
Fullarton Park. 2015



No. 103: Ringtail Possum - Possum Box;  
Fullarton Park. 2015

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4. Wildlife Box Monitoring and Evaluation Report for Unley City Council (Feb 2014).
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7. Higgins P.J. Handbook of Australian, New Zealand and Antarctic Birds, Vol 4(1999) p207 & 333-334.