

# **Murdoch Drive Connection**

## **Annual Compliance Report – Fauna Management Plan**

12 September 2018

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W81020-REP-EN-0018

# Annual Compliance Report – Fauna Management Plan

## Document Approval

Rev.	Date	Prepared by	Reviewed by	Recommended by	Approved by	Remarks
A	10/09/2018	L Fisher	L Kirchner	J Shaw	S Nicholay	
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## Annual Compliance Report – Fauna Management Plan

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## 1 INTRODUCTION

### 1.1 Project Overview

Main Roads Western Australia (MRWA) established the Building Roe 8 Alliance to construct the Roe Highway Extension – Stage 8 Project (the Project). The Project was approved by the Western Australian Minister for Environment on 2 July 2015 under Ministerial Statement 1008 (MS 1008). In accordance with Condition 11 of MS 1008 (as outlined in Table 1), a Fauna Management Plan (FMP) was developed, including a trapping and translocation program (the Program) to relocate fauna from within the Project alignment prior to clearing. Five conservation significant species were specifically identified within the FMP for relocation, including: Perth Lined Skink, Black-striped Snake, South-west Carpet Python, Jewelled Lizard and Southern Brown Bandicoot.

Following the cancellation of the Roe 8 Project on 11 March 2017, MRWA established the Metropolitan Road Improvement Alliance (MRIA) to construct the Murdoch Drive Connection (MDC). The Project involves the upgrade of the existing Kwinana Freeway and Roe Highway, as well as the connection to the Murdoch Activity Centre (MAC). MDC is being constructed in accordance with MS 1008 and as such, is required to remain compliant with conditions set out in the statement, including implementation of the FMP.

### 1.2 Location

The Project is located 14 km south of Perth within the City of Cockburn extending a small distance into the City of Melville. The Project Development Envelope (PDE) is located mostly within road reserve under the Metropolitan Regional Scheme (MRS), between Karel Avenue and Bibra Drive (Figure 1).

### 1.3 Objectives

The Environmental Protection Authority (EPA) environmental objective for terrestrial fauna is to maintain representation, diversity, viability and ecological function at the species, population and assemblage level. The environmental objectives of the FMP are to facilitate the movement of fauna within Beeliar Regional Park and minimise impacts as a result of fragmentation.

The objectives of the trapping and translocation programme are to:

- Minimise impacts of construction activities on the Southern Brown Bandicoot through the successful implementation of a trapping and relocation program
- Minimise impacts of construction activities on reptiles, specifically priority species, through the successful implementation of a trapping and relocation program.

This report represents the Annual Compliance Report required for the audit period 2 July 2017 – 1 July 2018.

## Annual Compliance Report – Fauna Management Plan

**Table 1 Condition requirements under Ministerial Statement 1008**

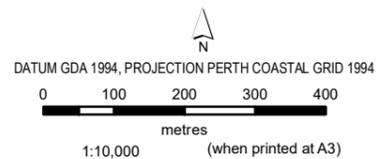
Condition	Requirement
11-1	The proponent shall ensure that the proposal is implemented to facilitate movement of fauna within Beeliar Regional Park and minimise impacts as a result of fragmentation, through implementation of conditions 11-2 to 11-6.
11-2	<p>Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall prepare a Fauna Management Plan to the requirements of the CEO on advice of the Department of Parks and Wildlife. The Fauna Management Plan shall:</p> <ol style="list-style-type: none"> <li>1. provide the surveyed locations and frequency of the fauna underpasses necessary to meet the requirements of condition 11-1;</li> <li>2. detail the size, shape and furniture within the fauna underpasses;</li> <li>3. provide an ongoing program of inspections and maintenance to ensure the underpasses are performing effectively;</li> <li>4. include a trapping and translocation program for target fauna species, which includes the southern brown bandicoot (<i>Isodon obesulus fusciventer</i>) and black cockatoos, or as otherwise agreed by the CEO;</li> <li>5. identify objectives and monitoring protocols to measure the success of trapping and translocation program required by condition 11-2(4);</li> <li>6. identify management and contingency measures, including timeframes for their implementation in the event that objectives of the trapping and translocation program in condition 11-2(4) are not being met;</li> <li>7. assess the need for noise barriers or other noise mitigation measures between Bibra Drive and Progress Drive to ensure that noise does not adversely impact fauna;</li> <li>8. should noise barriers or noise mitigation measures be required as a result of condition 11-2(7), identify management and contingency measures, including timeframes for their remediation, to be implemented in the event that noise levels are having an adverse impact on fauna;</li> <li>9. detail the visual barriers to be installed to reduce the risk of vehicle strikes to birds between North Lake and Bibra Lake; and</li> <li>10. determine the timing and frequency of reporting to the CEO.</li> </ol>
11-3	Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall implement the approved Fauna Management Plan required by condition 11-2, to the satisfaction of the CEO.
11-4	The proponent may review and revise the Fauna Management Plan to the requirements of the CEO.
11-5	The proponent shall review and revise the Fauna Management Plan as and when directed by the CEO.
11-6	The proponent shall implement the approved revisions of the Fauna Management Plan required by conditions 11-4 and 11-5.
11-7	The proponent shall submit the outcomes of the trapping and translocation program required by conditions 11-2(4) and any management or contingency measures implemented as required by condition 11-2(6) to the CEO as part of the annual compliance reporting required by condition 4 and annually to the Department of Parks and Wildlife.
11-8	The Fauna Management Plan required by condition 11-2 shall be made publicly available in a manner approved by the CEO.



PROJECT ID 60478410  
 CREATED BY RNM  
 APPROVED BY JShaw  
 LAST MODIFIED 13 SEP 2018



**LEGEND**  
 Current Project Development Envelope



Data sources: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

## Murdoch Drive Connection Development Envelope

MAINS ROADS WESTERN AUSTRALIA  
 MURDOCH DRIVE CONNECTION DEVELOPMENT

Figure

1

## 2 EXISTING CONDITIONS

Monthly rainfall and mean maximum temperature data were obtained for the audit period from the Jandakot Aero Station 9172 (refer to Figure 2). The annual rainfall for this period was 1087.4 mm and mean maximum temperature was 24.4 C.

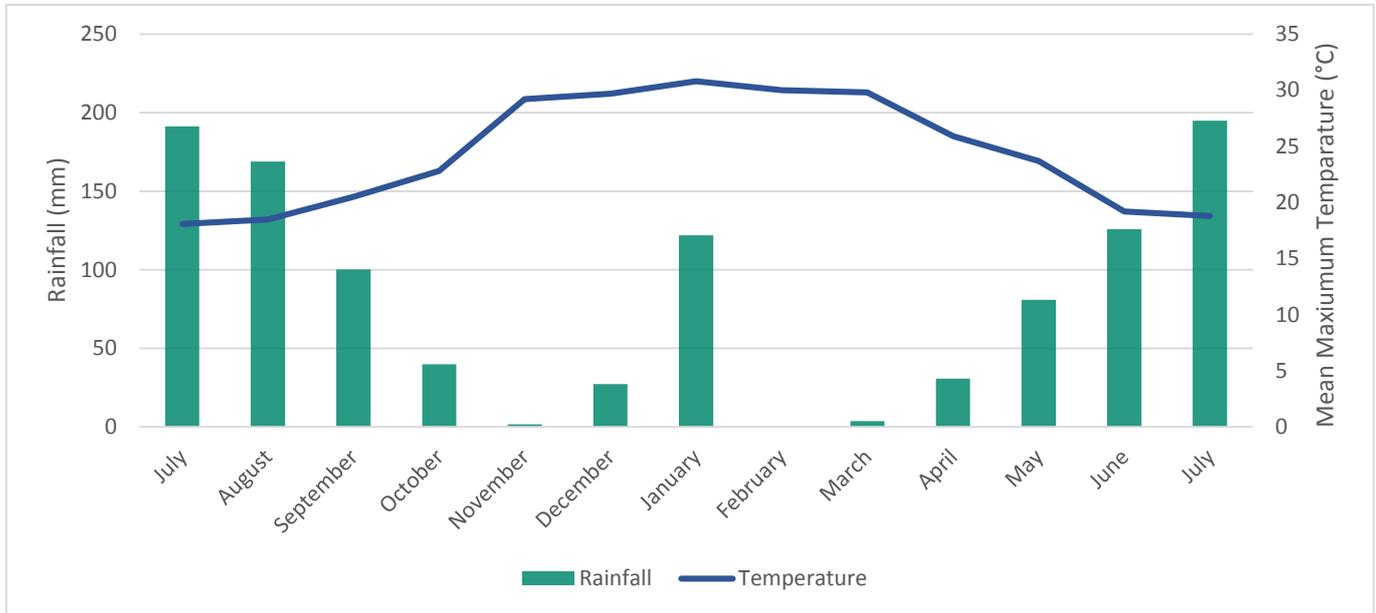


Figure 2 Rainfall and Mean Maximum Temperature for Jandakot Aero Station 9172 (BoM, 2018)

## 3 METHODOLOGY

The Program was undertaken within the PDE prior to and during six clearing events throughout the audit period, in addition to opportunistic translocation events (Licence to take fauna # TF006922; 11-001393, 08-000449 and 01-000128). Approximately 2.96 ha of native vegetation has been cleared between 2 July 2017 and 1 July 2018. A Fauna Translocation Report outlining the outcome of the Program was completed and submitted to Department of Biodiversity, Conservation and Attractions (DBCA) and the EPA prior to each clearing event commencing.

The Program has been completed by a number of suitably qualified environmental professionals, including: Glen Gaikhorst, Brad Maryan, Klinton Breese, Rachel Champion, Laura Fisher, Lukas Geidans, Cassandra House, Jared Leigh, Caroline Scally, Emilie Stenmark and Tim Williamson. All trapping and translocation activities have been undertaken in accordance with the FMP and DBCA’s Standard Operating Procedures (SOPs). Implementation of the FMP requirements during the trapping and translocation program within the PDE are summarised in Table 2.

## Annual Compliance Report – Fauna Management Plan

**Table 2 Fauna Management Plan Trapping Program Requirements**

Southern Brown Bandicoot Fauna Management Plan Requirement	Targeted Reptile Fauna Management Plan Requirement
Site reconnaissance to determine the likely habitat where Southern Brown Bandicoot will occur	Site reconnaissance will be undertaken by the qualified reptile expert prior to trapping to determine the optimal locations for traps, and methods of trapping
Traps will be set across each stage of habitat to be cleared; approximately eight traps per hectare of fencing which will be followed by the progressive clearing/fencing	A variety of methods will be used for capturing targeted reptiles dependent upon the habitat type present in each stage; the site conditions; and the prevailing weather conditions. These may include single pits, pit trap lines (10 litre and 20 litre pit sizes) as well as manual capture with traps and pits checked during the day.
Each trapping program will be undertaken for 3 - 4 days and will continue until no Southern Brown Bandicoots are caught for 2 consecutive trapping nights or as otherwise determined by a fauna expert	Each trapping program will run for 3 - 4 days and will continue until no <i>Ctenotus gemmula</i> , <i>Lerista lineata</i> , <i>Neelaps calonotos</i> and <i>Morelia spilota imbricata</i> species are trapped for two consecutive nights or as otherwise determined by a trapping expert.
Following each trapping phase a report will be provided detailing the methodology, number of animals relocated and the locations to which they were released. The brief reports will be provided to DBCA.	Following each trapping phase a summary report will be provided detailing the methodology, number of animals relocated and the locations to which they were released.

## 4 RESULTS

A total of 121 animals were translocated within the audit period, 22 of which were target species (Southern Brown Bandicoot). Table 3 provides a summary of the species translocated throughout the Program.

Appendix A provides a more detailed summary of where the animals were relocated to and from, and the trapping method used.

**Table 3 Summary of Fauna Translocated**

Specie Name	Common name	Species Group	Count
<i>Cacatua galerita</i>	White Cockatoo - Corella	Bird	1
<i>Cryptoblepharus buchananii</i>	Wall or Fence Skink	Reptile	3
<i>Cygnus atratus</i>	Black Swan	Bird	1
<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	5
<i>Heleioporus eyrei</i>	Moaning Frog	Frog	14
<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	15
<i>Isodon obesulus</i>	Southern Brown Bandicoot	Mammal	22
<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	5
<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	25
<i>Litoria adelaidensis</i>	Slender Tree Frog	Frog	1
<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	7
<i>Mus musculus</i>	House Mouse	Mammal	3
<i>Oryctolagus cuniculus</i>	Rabbit	Mammal	1
<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	5
<i>Pseudonaja affinis affinis</i>	Dugite	Reptile	5
<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	8

### 5 COMPLIANCE WITH MAINTENANCE REQUIREMENTS

No maintenance requirements required in current phase.

### 6 DOCUMENTATION OF MONITORING UNDERTAKEN

Following the completion of each monitoring event required for the Program, all documentation is provided to DBCA and the EPA. The monitoring events completed during this audit period include:

- Fauna Translocation Report 1 – Clearing Area West of Kwinana Freeway (North) (*W81020-REP-EN-0002*)
- Fauna Translocation Report 2 – Clearing Area West of Kwinana Freeway (PSP North) (*W81020-REP-EN-0003*)
- Fauna Translocation Report 3 – Clearing Area West of Kwinana Freeway (PSP South) (*W81020-REP-EN-0004*)
- Fauna Translocation Report 4 – Mulching Stockpiles Bake Court East (*W81020-REP-EN-0007*)
- Fauna Translocation Report 5 – Clearing and Mulching Stockpiles Kwinana Freeway Eastern Loop (*W81020-REP-EN-0008*)
- Fauna Translocation Report 6 – Clearing Noise Wall No.8 (*W81020-REP-EN-0011*)
- South Lake – Post Translocation Monitoring Report – October 2017
- Brownman Swamp – Post Translocation Monitoring Report – November to December 2017
- Lake Clifton – Post Translocation Monitoring Report – November 2017
- Lake Kogalup – Post Translocation Monitoring Report – November to December 2017
- North Lake to Progress Drive – Post Translocation Monitoring Report – October to November 2017
- North Lake – Post Translocation Monitoring Report – October 2017
- Shirley Balla Reserve – Post Translocation Monitoring Report – November to December 2017
- South Lake – Post Translocation Monitoring Report – March 2018
- Brownman Swamp – Post Translocation Monitoring Report – March 2018
- Lake Clifton – Post Translocation Monitoring Report – March 2018
- Lake Kogalup – Post Translocation Monitoring Report – March 2018
- North Lake to Progress Drive – Post Translocation Monitoring Report – April 2018
- North Lake – Post Translocation Monitoring Report – March 2018
- Shirley Balla Reserve – Post Translocation Monitoring Report – March 2018.

### 7 TRIGGER ASSESSMENT

The FMP outlines a number of triggers values for the Project and contingency actions that are to be implemented if these values are reached (Table 4).

The Program captured 22 Southern Brown Bandicoots from a total of 409 cage trap nights during this audit period (Table 5). Clearing did not commence at any location until two consecutive nights without capture of target species had been achieved. Refer to the individual Fauna Translocation Reports for further details of the individual trapping programs.

## Annual Compliance Report – Fauna Management Plan

**Table 4 Fauna Trigger Values and Contingency Actions**

Trigger Value	Contingency Action	Comment
Southern Brown Bandicoots are still being trapped for 2 consecutive nights after the 3-4 day trapping program is completed	<ol style="list-style-type: none"> <li>1. Seek the advice of a fauna expert.</li> <li>2. Implement any new recommendations which may include extending the trapping program until the number caught each night significantly reduces.</li> </ol>	Where the Southern Brown Bandicoots were still being trapped for 2 consecutive nights after the 3-4 day trapping program is completed, trapping continued until there were two consecutive trap nights free from the Southern Brown Bandicoot.
<i>Ctenotus gemmula</i> , <i>Lerista lineata</i> , <i>Neelaps calonotos</i> and <i>Morelia spilota imbricata</i> are still being trapped for 2 consecutive nights after the 3-4 day trapping program is completed	<ol style="list-style-type: none"> <li>1. Seek the advice of a fauna expert.</li> <li>2. Implement any new recommendations which may include extending the trapping program until the number caught each night significantly reduces.</li> </ol>	No targeted reptiles have been trapped during this audit period.
Active Carnaby's Black Cockatoo or Forest Red-tailed Black Cockatoo nesting is observed in areas proposed to be cleared	<ol style="list-style-type: none"> <li>1. Mark the tree(s) with flagging tape and record the tree GPS.</li> <li>2. Report nesting tree(s) to Environmental Manager and Main Roads.</li> <li>3. Install temporary fencing and signage within two metres of the base of the tree.</li> <li>4. Demarcate a 10 m buffer around the base of the nesting tree(s).</li> <li>5. Retain the nesting tree(s) until hollows are no longer in use and do not clear any vegetation within 10 m of the nesting tree(s) while in use.</li> <li>6. Re-inspect the tree(s) 7 days prior to clearing to re-confirm all birds have vacated the nest.</li> <li>7. Report the status of nesting tree(s) to the Environmental Manager and Main Roads and suitability for clearing.</li> </ol>	No active Carnaby's Black Cockatoo or Forest Red-tailed Black Cockatoo nesting trees have been identified within the clearing area during this audit period.

## Annual Compliance Report – Fauna Management Plan

Trigger Value	Contingency Action	Comment
Fauna underpasses do not include the correct furniture as per the original design	<ol style="list-style-type: none"> <li>1. Investigate whether maintenance regime should be modified.</li> <li>2. Seek the advice of a fauna expert.</li> <li>3. Implement new recommendations for the underpasses within 3 months of seeking the advice of a fauna expert.</li> <li>4. Monitor the effectiveness of the new recommendations.</li> </ol>	Not applicable to date. Fauna underpasses have not been constructed.
Fauna underpasses are not being used by for Southern Brown Bandicoot	<ol style="list-style-type: none"> <li>1. Investigate whether maintenance regime should be modified.</li> <li>2. If not, review the design of the underpass (with specialist advice) and/or undertake a survey of current Southern Brown Bandicoot populations in the area.</li> <li>3. Implement new recommendations for the underpasses within 3 months of the completion of design review and/or Southern Brown bandicoot population survey.</li> <li>4. Monitor the effectiveness of the underpasses.</li> </ol>	Not applicable to date. Fauna underpasses have not been constructed.
Noise measurements are greater than the predicted 2031 build scenario including mitigation 55 dB(A) contour modelling results between Progress Drive and Bibra Lake five years after commencement of operation	<ol style="list-style-type: none"> <li>1. Monitoring the presence of fauna activity (particularly wetland birds) within potential fauna habitat associated with the project wetlands (North Lake, Roe Swam, Melaleuca Swamp, Lower Swamp (frog Swamp), Horse Paddock Swamp and Bibra Lake.</li> <li>2. If present no further action required.</li> <li>3. If not present compare results with baseline wetland and migratory bird survey (Bamford and Greatwich 2016) and investigate whether it is a result of the project.</li> <li>4. If determined to be a result of the project investigate and implement appropriate mitigation measures within two years in consultation with DPaW.</li> <li>5. Monitor the effectiveness of the mitigation measures.</li> </ol>	This condition is not relevant to the MDC scope. Works will not occur between Progress Drive and Bibra Lake.

## Annual Compliance Report – Fauna Management Plan

**Table 5 Southern Brown Bandicoot Trap Nights and Captures**

Fauna Translocation Report	Trap Night	Date *	Details
Fauna Translocation Report 1 – Clearing Area West of Kwinana Freeway (North) <i>A total of 85 cage trap nights within the trapping area during this period.</i>	1	5 December 2017	▪ <b>2</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	6 December 2017	▪ <b>2</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	7 December 2017	▪ <b>2</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	8 December 2017	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	5	9 December 2017	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
Fauna Translocation Report 2 – Clearing Area West of Kwinana Freeway (PSP North) <i>A total of 60 cage trap nights within the trapping area during this period.</i>	1	13 January 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	14 January 2018	▪ <b>3</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	17 January 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	18 January 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	5	19 January 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
Fauna Translocation Report 3 – Clearing Area West of Kwinana Freeway (PSP South) <i>A total of 48 cage trap nights within the trapping area during this period.</i>	1	20 January 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	21 January 2018	▪ <b>2</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	22 January 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	23 January 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
Fauna Translocation Report 4 – Mulching Stockpiles at Baker Court <i>A total of 60 cage trap nights within the trapping area during this period.</i>	1	9 February 2018	▪ <b>3</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	10 February 2018	▪ <b>2</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	11 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	12 February 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	5	13 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	6	14 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
Fauna Translocation Report 5 – Clearing and Mulching Stockpiles at Kwinana Freeway Eastern Loop <i>A total of 96 cage trap nights within the trapping area during this period.</i>	1	22 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	23 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	24 February 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	25 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	5	26 February 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
Fauna Translocation Report 6 – Clearing Noise Wall No. 8 <i>A total of 60 cage trap nights within the trapping area during this period.</i>	1	15 May 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	2	16 May 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	3	17 May 2018	▪ <b>1</b> <i>Isoodon obesulus fusciventer</i> trapped
	4	18 May 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped
	5	19 May 2018	▪ <b>No</b> <i>Isoodon obesulus fusciventer</i> trapped

\* Date refers to the morning the trap was inspected

### **8 CONCLUSION**

The FMP was successfully implemented throughout the audit period in accordance with condition 11 of MS 1008. No non-conformances have been identified, and contingency actions have been implemented where required.

## APPENDIX A – DETAILED SUMMARY OF THE FAUNA TRANSLOCATION THROUGHOUT THE PROGRAM

Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
23/11/2017	Bibra Drive Office Compound	By hand	<i>Pseudonaja affinis affinis</i>	Dugite	Reptile	1	Injured, taken to Animal Hospital at Murdoch University	11-001393-1
5/12/2017	Kwinana West (North)	Funnel	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	2	Released at North Lake	TF006922
5/12/2017	Kwinana West (North)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at North Lake	TF006922
5/12/2017	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	TF006922
5/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
5/12/2017	Kwinana West (North)	Cage	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	TF006922
5/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
5/12/2017	Kwinana West (North)	Bucket	<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	1	Released at Shirley Balla	TF006922
5/12/2017	Kwinana West (North)	Funnel	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	1	Released at Shirley Balla	TF006922
6/12/2017	Kwinana West (North)	Funnel	<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	1	Released at Shirley Balla	TF006922
6/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
6/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
6/12/2017	Kwinana West (North)	Bucket	<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	1	Released at North Lake	TF006922
6/12/2017	Kwinana West (North)	Funnel	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Shirley Balla	TF006922
6/12/2017	Kwinana West (North)	Bucket	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	1	Released at North Lake	TF006922

## Annual Compliance Report – Fauna Management Plan

Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
7/12/2017	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	TF006922
7/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
7/12/2017	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	TF006922
7/12/2017	Kwinana West (North)	Funnel	<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	1	Released at North Lake	TF006922
7/12/2017	Kwinana West (North)	Bucket	<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	1	Released at North Lake	TF006922
7/12/2017	Kwinana West (North)	Bucket	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	1	Released at North Lake	TF006922
8/12/2017	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	TF006922
8/12/2017	Kwinana West (North)	Bucket	<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	1	Released at North Lake	TF006922
8/12/2017	Kwinana West (North)	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at North Lake	TF006922
9/12/2017	Kwinana North Loop	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Neerabup National Park	TF006922
9/12/2017	Kwinana West (North)	Funnel	<i>Delma fraseri</i>	Fraser's Legless Lizard	Reptile	1	Released at North Lake	TF006922
11/12/2017	Kwinana West (North)	By hand	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	2	Released at North Lake	11-001393-1
3/01/2018	Kwinana East	By hand	<i>Pseudonaja affinis affinis</i>	Dugite	Reptile	1	Released at Bibra Lake	11-001393-1
10/01/2018	Bibra Drive Office Compound	By hand	<i>Oryctolagus cuniculus</i>	Rabbit	Mammal	1	Diseased, taken to Animal Hospital at Murdoch University	11-001393-2
12/01/2018	Kwinana West (North)	By hand	<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	1	Released at North Lake	11-001393-2
12/01/2018	Kwinana West (North)	By hand	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	11-001393-2
12/01/2018	Kwinana West (North)	Funnel	<i>Cryptoblepharus buechananii</i>	Wall or Fence Skink	Reptile	1	Released at North Lake	11-001393-2
12/01/2018	Kwinana West (North)	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at North Lake	11-001393-2

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Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
13/01/2018	Kwinana West (North)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	2	Released at Bibra Lake	11-001393-1
13/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	2	Released at Bibra Lake	11-001393-1
13/01/2018	Kwinana West (North)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	2	Released at Bibra Lake	11-001393-1
13/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at Bibra Lake	11-001393-1
14/01/2018	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-1
14/01/2018	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-1
14/01/2018	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-1
17/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-1
17/01/2018	Kwinana West (North)	Bucket	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	11-001393-1
17/01/2018	Kwinana West (North)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-1
17/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-1
18/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at Bibra Lake	11-001393-1
18/01/2018	Kwinana West (North)	Cage	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	11-001393-1
18/01/2018	Kwinana West (North)	Funnel	<i>Cryptoblepharus buchananii</i>	Wall or Fence Skink	Reptile	1	Released at North Lake	11-001393-1
19/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	2	Released at North Lake	11-001393-1
19/01/2018	Kwinana West (North)	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at North Lake	11-001393-1
19/01/2018	Kwinana West (North)	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at North Lake	11-001393-1
19/01/2018	Kwinana West (North)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-1

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Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
19/01/2018	Kwinana West (South)	By hand	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	11-001393-1
20/01/2018	Kwinana West (South)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-1
20/01/2018	Kwinana West (South)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-1
20/01/2018	Kwinana West (South)	Bucket	<i>Hemiergis quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Bibra Lake	11-001393-1
21/01/2018	Kwinana West (South)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	3	Released at Bibra Lake	11-001393-1
21/01/2018	Kwinana West (South)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	2	Released at Bibra Lake	11-001393-1
21/01/2018	Kwinana West (South)	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-1
21/01/2018	Kwinana West (South)	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	2	Released at Shirley Balla	11-001393-1
23/01/2018	Kwinana West (South)	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at Bibra Lake	11-001393-1
9/02/2018	Baker Court Stockpiles	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-2
9/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
9/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
9/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
10/02/2018	Baker Court Stockpiles	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-2
10/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
10/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
12/02/2018	Baker Court Stockpiles	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-2
12/02/2018	Baker Court Stockpiles	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2

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Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
13/02/2018	Baker Court Stockpiles	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at Bibra Lake	11-001393-1
14/02/2018	Baker Court Stockpiles	Bucket	<i>Heleioporus eyrei</i>	Moaning Frog	Frog	1	Released at Bibra Lake	11-001393-1
14/02/2018	Baker Court Stockpiles	Bucket	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at Bibra Lake	11-001393-1
22/02/2018	Kwinana East	Bucket	<i>Cryptoblepharus buchananii</i>	Wall or Fence Skink	Reptile	1	Released at Bibra Lake	11-001393-2
22/02/2018	Kwinana East	Bucket	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	1	Released at Bibra Lake	11-001393-2
22/02/2018	Kwinana East	Bucket	<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	1	Released at Bibra Lake	11-001393-2
23/02/2018	Kwinana East	Bucket	<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	1	Released at Bibra Lake	11-001393-2
24/02/2018	Kwinana East	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Shirley Balla	11-001393-2
24/02/2018	Kwinana East	Bucket	<i>Lerista elegans</i>	West Coast Four-toed Skink	Reptile	1	Released at Shirley Balla	11-001393-2
25/02/2018	Kwinana East	Funnel	<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	1	Released at Shirley Balla	11-001393-2
8/03/2018	Wetlands 2	By hand	<i>Cygnus atratus</i>	Black Swan	Bird	1	Juvenile taken to Cockburn Native ARC	11-001393-2
17/04/2018	Kwinana West (South)	By hand	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Bibra Lake	11-001393-2
17/04/2018	Kwinana West (South)	By hand	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	1	Released at Bibra Lake	11-001393-2
20/04/2018	Kwinana East	By hand	<i>Menetia greyii</i>	Common Dwarf Skink	Reptile	2	Released at Bibra Lake	11-001393-2
10/05/2018	Kwinana West (South)	By hand	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at North Lake	11-001393-2
10/05/2018	Kwinana West (South)	By hand	<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	1	Released at Bibra Lake	11-001393-2
10/05/2018	Kwinana West (South)	By hand	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Bibra Lake	11-001393-2
14/05/2018	Noisewall 8 South	Bucket	<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	1	Released at Bibra Lake	11-001393-2
15/05/2018	Noisewall 8 South	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
15/05/2018	Noisewall 8 South	Bucket	<i>Pogona minor minor</i>	Western Bearded Dragon	Reptile	1	Released at Bibra Lake	11-001393-2
15/05/2018	Noisewall 8 South	Funnel	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at Bibra Lake	11-001393-2
16/05/2018	Noisewall 8 South	Bucket	<i>Hemiergus quadrilineata</i>	Two-toed Earless Skink	Reptile	1	Released at North Lake	11-001393-2
16/05/2018	Noisewall 8 South	Bucket	<i>Mus musculus</i>	House Mouse	Mammal	2	Released on site	11-001393-2

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Date	Location	Method	Species Name	Common Name	Species Group	Count	Fate	Licence #
17/05/2018	Noisewall 8 South	Cage	<i>Isoodon obesulus</i>	Southern Brown Bandicoot	Mammal	1	Released at Brownman Swamps	11-001393-2
17/05/2018	Noisewall 8 South	Bucket	<i>Mus musculus</i>	House Mouse	Mammal	1	Released on site	11-001393-2
18/05/2018	Bibra Drive Office Compound	By hand	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-2
18/05/2018	Bibra Drive Office Compound	By hand	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-2
18/05/2018	Bibra Drive Office Compound	By hand	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	1	Released at North Lake	11-001393-1
19/05/2018	Noisewall 8 South	Cage	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at Shirley Balla	11-001393-2
23/05/2018	Kwinana Freeway West Loop	By hand	<i>Cacatua galerita</i>	White Cockatoo - Corella	Bird	1	Injured, taken to Animal Hospital at Murdoch University	11-001393-2
31/05/2018	Bibra Drive Office Compound	By hand	<i>Limnodynastes dorsalis</i>	Banjo Frog or Pobblebonk	Frog	5	Released at Bibra Lake	11-001393-2
31/05/2018	Bibra Drive Office Compound	By hand	<i>Tiliqua rugosa rugosa</i>	Bobtail	Reptile	1	Released at Bibra Lake	11-001393-2
1/06/2018	Bibra Drive Office Compound	By hand	<i>Litoria adelaidensis</i>	Slender Tree Frog	Frog	1	Released at North Lake	11-001393-2
1/06/2018	Bibra Drive Office Compound	By hand	<i>Pseudonaja affinis affinis</i>	Dugite	Reptile	2	Released at North Lake	11-001393-2
6/06/2018	Bibra Drive Office Compound	By hand	<i>Pseudonaja affinis affinis</i>	Dugite	Reptile	1	Injured, taken to Animal Hospital at Murdoch University	11-001393-2