

Roadkill Monitoring Report –
1 October–30 December 2016

Tarkine Drive Upgrade



January 2017

This report details the results of roadkill monitoring activities for the Tarkine Drive over the fourth three-month period of 2016, and is the twelfth report in total. The Commonwealth Government approved the project to proceed in line with a number of environmental conditions approved under the *Environment Protection and Biodiversity Conservation Act 1999*. Condition 11 of this approval requires that the Department of State Growth publish a roadkill monitoring report every three months, as part of the *Draft Roadkill Monitoring Adaptive Management Plan (RMAMP)*, which details the results of monitoring activities.

Tarkine Drive, a 92.7km road, is monitored weekly for signs of roadkill (see Image 1 below). All road upgrade works were completed in December 2014, with the road officially reopened in June 2015.

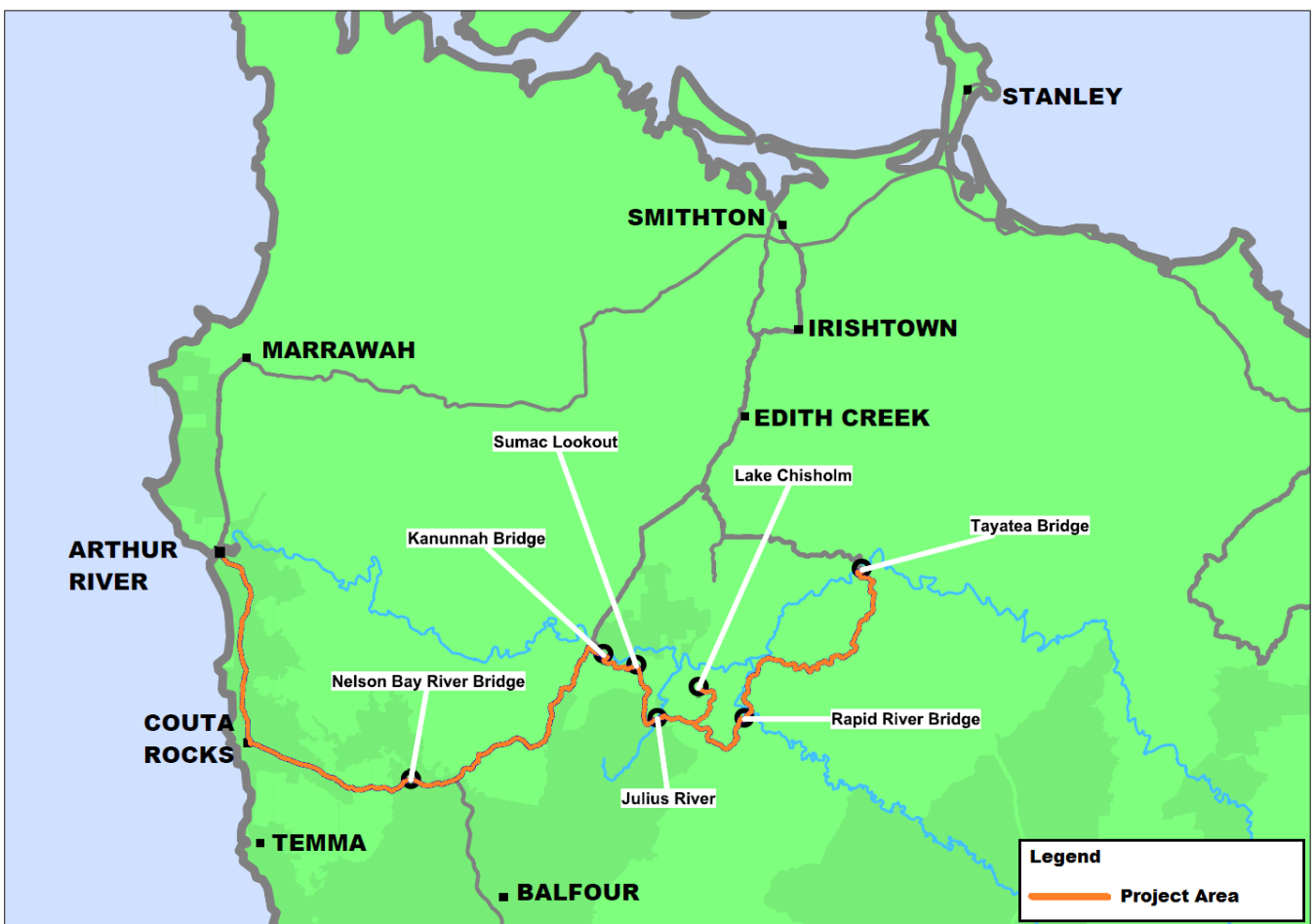


Image 1. Map of project area.

Data collected as part of these monitoring activities is based on pre-defined criteria outlined by the Approval. These criteria are:

- Date and time of identification;

- Location (GPS coordinates);
- Species identified (all species are to be recorded);
- Body condition; and
- Any other notable circumstances.

Monitoring results for this three-month period are detailed in appendices at the end of this report. Five animals were recorded as roadkill during this period; no threatened species were recorded (see table in *Appendix A*). These results may be reflective of the normal seasonal variation of animal activity in this area, increased accessibility of the road due to the completion of road works or increased visitation to the area; nonetheless, these numbers are consistent with modelling developed prior to the upgrade and remain below the trigger thresholds outlined as part of the Approval.

All monitoring activities occur under a regular maintenance regime, specified in the RMAMP.

Roadkill remains an issue of particular concern for the area, and as such, a number of measures have been implemented as part of the construction project to minimise total roadkill numbers (See Appendix B). These measures include:

- Reduced speed limits;
- Installation of audible 'rumble' strips at 26 separate locations;
- Use of light-coloured pavement in the road surface to improve visibility;
- Removal of roadside vegetation to reduce proximity of habitat to road;
- Installation of new table drains to reduce ponding of water at the roadside;
- Improved sight distance;
- Wildlife warning signs; and
- Regular monitoring and removal of roadkill to prevent other scavenger animals being attracted to the road.

All of the above-listed measures have already been implemented and continue to be maintained. The recent fires had surprisingly little impact on these measures, with only three wildlife warning signs being damaged. These signs have been replaced.

It is difficult to specifically appropriate reduced numbers of roadkill to a specific measure or circumstance. It is expected that the implementation of these roadkill mitigation measures has assisted in reducing the incidences of roadkill throughout known roadkill hotspots, however this is subject to significant variability in road use, road user behaviours and other chance factors.

Following the approval of the RMAMP, should total numbers of roadkill be found to be increasing, additional mitigation measures will be implemented at pre-existing or newly identified roadkill hotspot locations.

Appendix A: Table of Results

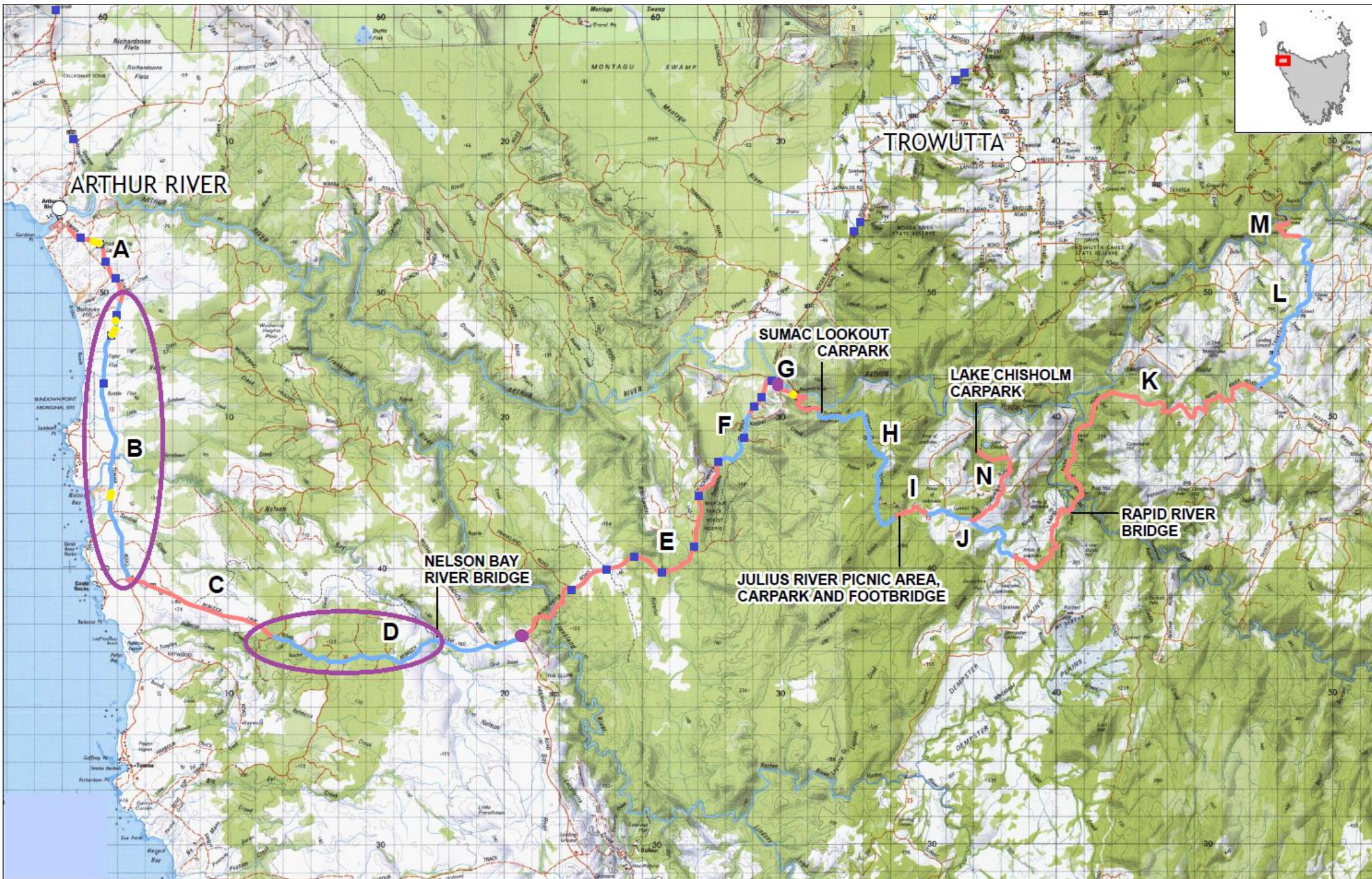
Roadkill Counts


Column1 ▼ Column2 ▼ Column3 ▼ Column4 ▼ Column5 ▼ Column6 ▼ Column7 ▼ Column8 ▼ Column9 ▼ Column10 ▼ Column11 ▼

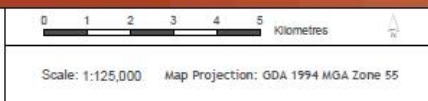
EPBC species register: 1 October to 30 December 2016

Date	Time	Common Name	Body Condition	Decimal Degrees		Eastings	Northings	GPS Error	Impact Type	Other Circumstances
18/10/2016	13.57 pm	Red necked Bennetts Wallaby	Moderate	-41.1062865	144.6845044	305569.259	5446860.308	10	Vehicle impact	
18/10/2016	14.05 pm	Pademelon	Moderate	-41.08926097	144.6897293	305957.904	5448762.14	10	Vehicle impact	
29/11/2016	14.39 pm	tiger snake	Moderate	-41.1178907	144.6867694	305793.595	5445576.864	20	Vehicle impact	
12/12/2016	12.12 pm	Pademelon	Healthy	-41.14494648	144.9432348	328274.773	5407084.24	10	Vehicle impact	
12/12/2016	13.16 pm	tiger snake	Healthy	-41.17053894	145.078918	338847.022	5440532.35	10	Vehicle impact	

Appendix B: Map of Installed Mitigation Measures




 Data sources:
 Base image by TASMGP (C) State of Tasmania
 Base data from The LUST (C) State of Tasmania
 Heritage data from CHWA
 Design data from pitt&sherry
 Map produced by pitt&sherry Date: 25/05/2012
 Map ref: HB09080_H038_PER_Fig2_Projects_12P_RevA



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|------------------------------------|-----------------------------|
| Roadkill | Mitigation |
| ● - Threatened Species | ■ - Rumble Strips |
| ● - Non-Threatened Species | ○ - Light-Coloured Pavement |
| ● - Non-Threatened Species Q3 2016 | |

DEPARTMENT OF STATE GROWTH
 Tarkine Drive - Progress Report - July-September 2016