

Appendix D

Initial road kill survey - sampling regime

(Extract from Genames (25 October 2007) *Risk Assessment and Safety Plan*
- *Roadkill monitoring programme for Bell Bay Alliance*)

Project Design Summary

Sampling Frequency - one sample run every 4th day.

Sampling Methodology - The original design allocated 9 regions as per table D1 below, for detailed assessment by walking along the transects. The process was altered after the first run¹ to assessment along a contiguous stretch highway (from the start of Zone 1 to the end of Zone 8, plus Zone 9) from a slowly (circa 40 km/h) moving vehicle equipped with appropriate safety warning signs. A driver and an appropriately qualified observer man the vehicle. Carcass location is identified and logged directly to a GPS linked database. Wherever it is safe to do so, the vehicle stops by the roadside and the observer photographs the carcass. Where there may be some uncertainty by the survey team of the species of animal, the photograph(s) are forwarded to Tas. Government wildlife officers for assistance with the identification.

Reporting and Interpretation - All carcasses recorded within the contiguous sampling area are logged for future reference. Carcasses recorded within each Zone are tallied monthly and the number of carcasses per month per kilometre calculated for each Zone where possible. Trend plots are made between Zones and between months for each species. At the end of the initial 3 month study, an examination of monitoring methods comparing contiguous highway data or the discrete zones will be made.

Table D1. Zone description including length habitat and sampling speed limit².

Zone	Length (m)	Description	Habitat	Speed Limit (km/h)
1	814	Dilston from new access road to Glengarif	close-packed rural residential on west, open pasture on east	60
2	1072	from crest north of Windermere Road to western driveway just south of Mt Direction service station	dense bushland on west, open pasture on east	60
3	711	from crest south of Signal Station Tavern to western driveway just south of Tavern	open pasture both sides	60
4	862	from open space after Hillwood Road junction to Jetty Road	dense bushland both sides	60
5	876	from Johnstons Road to end of northbound dual carriageway	dense bushland both sides, with expanding orchard area on east	60
6	661	East Arm from Archers Road to northern exit of layby	open bushland/foreshore on west, open bushland on east	60
7	1101	from Williams Creek to crest north of SWD entrance	open bushland both sides	60
8	1391	from Golf Club entrance to Transend substation entrance	open grassland (golf club) on west, rural parkland (Lauriston Reservoir) on east	60
9	522	Long Reach access road from yellow boom gate to just east of the railway bridge	dense bushland both sides	40

Total 8010

¹ The first sample run took over one working day, after deployment of safety signs and repeat relocations. Therefore the methodology was altered to a more practical regime.

² Sampling speed limit relates to safety management issues. If it is necessary for work to be undertaken on the roadside, the samplers must deploy speed limit signs for that period.

The following list details the sampling dates completed to the time of writing. The scheduled finishing date for the initial study will be 4th of February 2008.

4/11/2007
16/11/2007
20/11/2007
24/11/2007
28/11/2007
2/12/2007
6/12/2007
10/12/2007
14/12/2007
18/12/2007
22/12/2007
26/12/2007
30/12/2007
3/01/2008
7/01/2008

Interim Report

The following information are extracts from GenAMES interim reports received to date. Figure D1 shows the original Zones and a thematic presentation of data obtained to 7/01/08. EPBC listed species are shown in red. Table D2 shows breakdown by Zone. Note Zone 0 = a location outside of Zones 1 -9.

Roadkill Monitoring

Interim notes 10/01/08

1. Monitoring has now been carried out on 15 occasions beginning on 04/11/07 and continuing on a 4-day cycle;
2. Photographs of carcasses continue to be submitted to BCB³ for confirmation of identity;
3. 2 Eastern Barred Bandicoots have been recorded which are a Commonwealth EPBC listed species;
4. 1 Tawny Frogmouth and 1 Green Rosella have been recorded. These are endemic and are of interest to the BCB;
5. New monitoring equipment has been acquired for GPS locating and photographing of carcasses.

³ Biodiversity Conservation Branch, Department of Primary Industries and Water.

Roadkill Monitoring Map

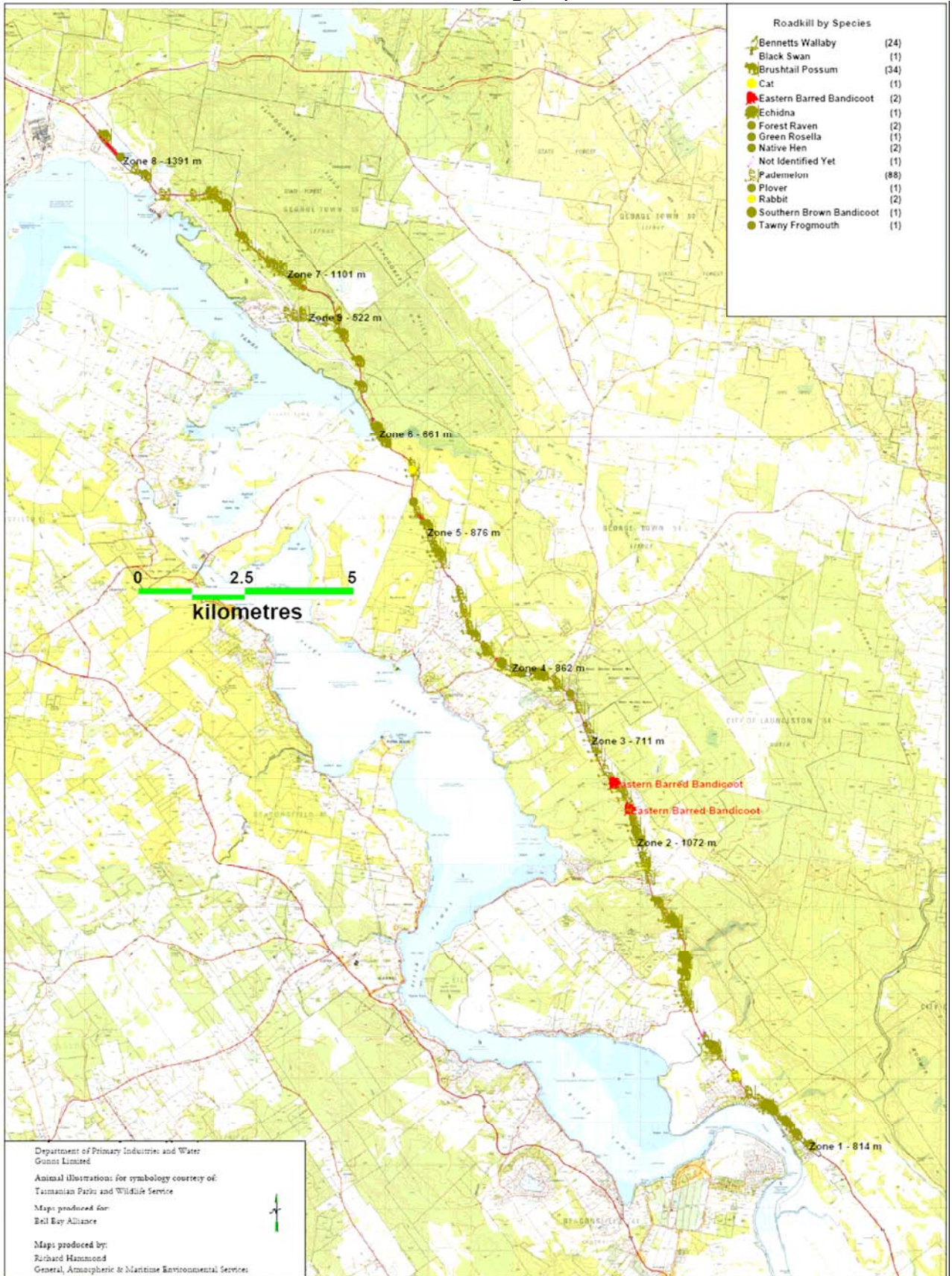


Figure D1 Map of Sampling Zones showing interim data

Table D2. Interim Data of Roadkill on East Tamar Highway 4/11/07 - 7/11/08 by Zone.⁴

Zone	Bennetts Wallaby	Black Swan	Brushtail Possum	Cat	Eastern Barred Bandicoot	Echidna	Forest Raven	Green Rosella	Native Hen	Not Yet Identified	Pademelon	Plover	Rabbit	Tawny Frogmouth
0	9	1	21	1	2	1	2	1	2	1	69	0	2	1
1	0	0	2	0	0	0	0	0	0	0	0	0	0	0
2	3	7	0	0	0	0	0	0	0	0	7	0	0	0
3	0	0	0	0	0	0	0	0	0	0	3	0	0	0
4	1	0	0	0	0	0	0	0	0	0	2	0	0	0
5	1	0	2	0	0	0	0	0	0	0	3	0	0	0
6	3	0	4	0	0	0	0	0	0	0	1	0	0	0
7	4	0	3	0	0	0	0	0	0	0	1	0	0	0
8	2	0	2	0	0	0	0	0	0	0	0	1	0	0
9	1	0	0	0	0	0	0	0	0	0	2	0	0	0
Total	24	8	34	1	2	1	2	1	2	1	88	1	2	1

⁴ Zone 0 = any location outside Zones 1-9

Experience & qualifications of prime contractor

The prime contractor for this work is General, Atmospheric & Maritime Environmental Services (GenAMES). The principal of GenAMES is Mr Richard Hammond. A brief summary of Mr Hammond's background is presented below:

Richard Hammond:

- I have been in the environmental monitoring and management field for over 30 years;
- I hold a B.Sc. and a M.App.Sc. from UNSW;
- I was the environmental superintendent of a significant open cut base metal mine in NSW for 5 of those years;
- I have been engaged in risk management and emergency response since relocating to Tasmania almost 20 years ago and was responsible for the response plans that went into effect during a major maritime oil spill in this state some 12 years ago;
- I was the co-chair of Wildcare Inc for 9 years. This organisation coordinates the volunteers who become involved in caring for injured & orphaned wildlife in the state and oversees much of their training as well as most other aspects of caring for our natural heritage;
- I am expert in the application of GIS and mobile mapping applications in the natural resource and emergency management fields and have presented & co-authored presentations at industry conferences.