



# Alcoa Priority Areas Memo

## Huntly Mine – Myara Region

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SLR Project No.: 675.VX5890.00002

18 June 2024

Revision: 1.0

## Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
01	18 June 2024	S. Subaraj	M. Lohr	M. Lohr

## Basis of Report

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## 1.0 Introduction

### 1.1 The Project

Alcoa of Australia Ltd (Alcoa) commissioned SLR Consulting Australia Pty Ltd (SLR) to undertake targeted surveys for significant terrestrial vertebrate fauna within the Huntly/Myara Survey Area. This memorandum reflects the camera trapping effort and results within 27 individual polygons covering 60.33 ha of priority areas within the Survey Area. The Survey Area is located approximately 20 km northeast of the Pinjarra townsite, in the Jarrah Forest bioregion of Western Australia.

### 1.2 Objective and Scope

The objective of this document (the Memo) is to provide to Alcoa:

- An outline of the methodology for the use of baited camera traps in the Survey Area.
- Preliminary results of baited camera traps placed in priority areas within the Survey Area.
- A map showing locations of baited camera traps and the site number IDs of trapping locations in priority areas within the Survey Area.

## 2.0 Methods

Motion sensitive camera traps are a simple method to passively document fauna during a field survey. Camera traps were placed in areas of favourable habitat with a focus on targeting Chuditch, Quokka, and Woylie. Cameras were baited with universal bait (rolled oats, peanut butter, and sardines) and left installed for a minimum duration of 14 nights as per the recommended period in the Survey Guidelines for Australia's Threatened Mammals (Department of Sustainability Environment Water Population and Communities, 2011). Universal bait has been selected over 'Chuditch bait' (meat meal and fish oil) because it has demonstrated efficacy for attracting both Woylies and Chuditch (Wayne *et al.*, 2008), and has also successfully been used for Quokka (Hayward *et al.*, 2005). A total of 80 cameras were deployed during the field survey. However, only ten cameras were located within the priority areas and thus only data from those cameras will be reflected (**Figure 1**).

## 3.0 Results

A total of 18 species of fauna were documented by the ten camera traps within the priority areas (**Table 1**). The fauna recorded comprised nine species of birds, seven species of native mammals, and two species of non-native mammals (**Table 1**).

Four significant fauna taxa were documented (**Table 2**):

- Chuditch/Western Quoll (*Dasyurus geoffroii*) – VU (BC Act; EPBC Act, recorded at seven different priority areas within the Survey Area.
- Wambenger Brush-tailed Phascogale (*Phascogale tapoatafa wambenger*) – CD (BC Act), recorded at four different sites.
- Quenda/Southwestern Brown Bandicoot (*Isoodon fusciventer*) – P4 (DBCA), recorded at one priority area within the Survey Area.
- Western Brush Wallaby (*Notamacropus irma*) – P4 (DBCA), recorded at seven different priority areas within the Survey Area.



**Figure 1 Map of locations for baited camera traps in priority areas within the Survey Area.**



**Table 1 Fauna taxa recorded in priority areas within the Survey Area**

Site Number ID	Family	Scientific Name	Common Name	Conservation Status		No. Detections Camera Traps
				State	Federal	
<b>Birds</b>						
4, 24	Acanthizidae	<i>Acanthiza inornata</i>	Western Thornbill			2
55	Aegothelidae	<i>Aegotheles cristatus</i>	Australian Owlet-nightjar			1
38, 55	Artamidae	<i>Strepera versicolor</i>	Grey Currawong			2
43	Corvidae	<i>Corvus coronoides</i>	Australian Raven			1
22, 25	Maluridae	<i>Malurus elegans</i>	Red-winged Fairywren			2
22, 23	Pachycephalidae	<i>Colluricincla harmonica</i>	Grey Shrikethrush			2
4, 38	Petroicidae	<i>Eopsaltria griseogularis</i>	Western Yellow Robin			2
22	Petroicidae	<i>Petroica boodang</i>	Scarlet Robin			1
55	Psittaculidae	<i>Platycercus icterotis</i>	Western Rosella			1
<b>Mammals</b>						
4	Canidae	* <i>Vulpes vulpes</i>	Red Fox			1
22, 23, 25, 37, 38, 43, 55, 79	Dasyuridae	<i>Antechinus flavipes leucogaster</i>	Yellow-footed Antechinus, Mardo			8
4, 22, 23, 24, 25, 43, 55	Dasyuridae	<i>Dasyurus geoffroii fortis</i>	Chuditch/Western Quoll	VU	VU	7



Site Number ID	Family	Scientific Name	Common Name	Conservation Status		No. Detections Camera Traps
				State	Federal	
4, 38, 43, 79	Dasyuridae	<i>Phascogale tapoatafa wambenger</i>	Wambenger Brush-tailed Phascogale	CD		4
4, 25, 38, 55, 79	Macropodidea	<i>Macropus fuliginosus</i>	Western Grey Kangaroo			5
23, 24, 25, 37, 38, 79	Macropodidea	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		7
4	Peramelidae	<i>Isodon fusciventer</i>	Quenda / Southwestern Brown Bandicoot	P4		1
4	Suidae	* <i>Sus scrofa</i>	Pig			1
23, 24, 25, 37, 38	Tachyglossidae	<i>Tachyglossus aculeatus acanthion</i>	Short-beaked Echidna			5

\* = Introduced taxa



**Table 2 Significant fauna recorded in priority areas within the Survey Area**

Site Number ID	Scientific Name	Common Name	Conservation Status		Habitat	Deployment Dates	Latitude	Longitude	Record Type
			State	Commonwealth					
43	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Forest	06-May-2024-27-May-2024	-32.4332	116.0964	Camera Trap
55	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Forest	06-May-2024-27-May-2024	-32.4733	116.1745	Camera Trap
24	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Woodland	07-May-2024-27-May-2024	-32.4542	116.2162	Camera Trap
25	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Open Woodland	08-May-2024-28-May-2024	-32.4773	116.2138	Camera Trap
23	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Forest	08-May-2024-28-May-2024	-32.4769	116.2105	Camera Trap
4	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Forest	09-May-2024-27-May-2024	-32.4659	116.1099	Camera Trap
22	<i>Dasyurus geoffroii</i>	Chuditch/Western Quoll	VU	VU	Jarrah Forest	09-May-2024 -27-May-2024	-32.4792	116.2123	Camera Trap
43	<i>Phascogale tapoatafa wambenger</i>	Wambenger Brush-tailed Phascogale	CD		Jarrah Forest	06-May-2024-27-May-2024	-32.4332	116.0964	Camera Trap
4	<i>Phascogale tapoatafa wambenger</i>	Wambenger Brush-tailed Phascogale	CD		Jarrah Forest	09-May-2024-27-May-2024	-32.4659	116.1099	Camera Trap
79	<i>Phascogale tapoatafa wambenger</i>	Wambenger Brush-tailed Phascogale	CD		Jarrah Marri Woodland	09-May-2024-28-May-2024	-32.4664	116.244	Camera Trap
38	<i>Phascogale tapoatafa wambenger</i>	Wambenger Brush-tailed Phascogale	CD		Jarrah Marri Woodland	09-May-2024-28-May-2024	-32.4659	116.2566	Camera Trap
4	<i>Isoodon fusciventer</i>	Quenda/Southwestern Brown Bandicoot	P4		Jarrah Forest	09-May-2024-27-May-2024	-32.4659	116.1099	Camera Trap



Site Number ID	Scientific Name	Common Name	Conservation Status		Habitat	Deployment Dates	Latitude	Longitude	Record Type
			State	Commonwealth					
55	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Forest	06-May-2024-27-May-2024	-32.4733	116.1745	Camera Trap
24	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Woodland	07-May-2024-27-May-2024	-32.4542	116.2162	Camera Trap
25	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Open Woodland	08-May-2024-28-May-2024	-32.4773	116.2138	Camera Trap
23	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Forest	08-May-2024-28-May-2024	-32.4769	116.2105	Camera Trap
79	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Marri Woodland	09-May-2024-28-May-2024	-32.4664	116.244	Camera Trap
38	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Marri Woodland	09-May-2024-28-May-2024	-32.4659	116.2566	Camera Trap
37	<i>Notamacropus irma</i>	Western Brush Wallaby	P4		Jarrah Marri Woodland	09-May-2024-28-May-2024	-32.4677	116.2485	Camera Trap



## 4.0 Conclusion

The habitat within the priority area is predominantly Jarrah Forest/Woodland with most of the significant fauna species occurring within this habitat.

Four significant taxa were recorded in the priority areas within the Survey Area (**Table 2**):

- The Chuditch – VU (BC Act; EPBC Act) was recorded in seven of the ten priority areas within the Survey Area.
- Wambenger Brush-tailed Phascogale – CD (BC Act) was recorded in four of the ten priority areas within the Survey Area.
- The Western Brush Wallaby – P4 (DBCA) was recorded in seven of the ten priority areas within the Survey Area.
- The Quenda/Southwestern Brown Bandicoot – P4 (DBCA) was recorded in one of the ten priority areas within the Survey Area.

We can confirm there to be more than one Chuditch present, but the exact number of individuals within the priority areas will be determined later through spot analysis.



## 5.0 References

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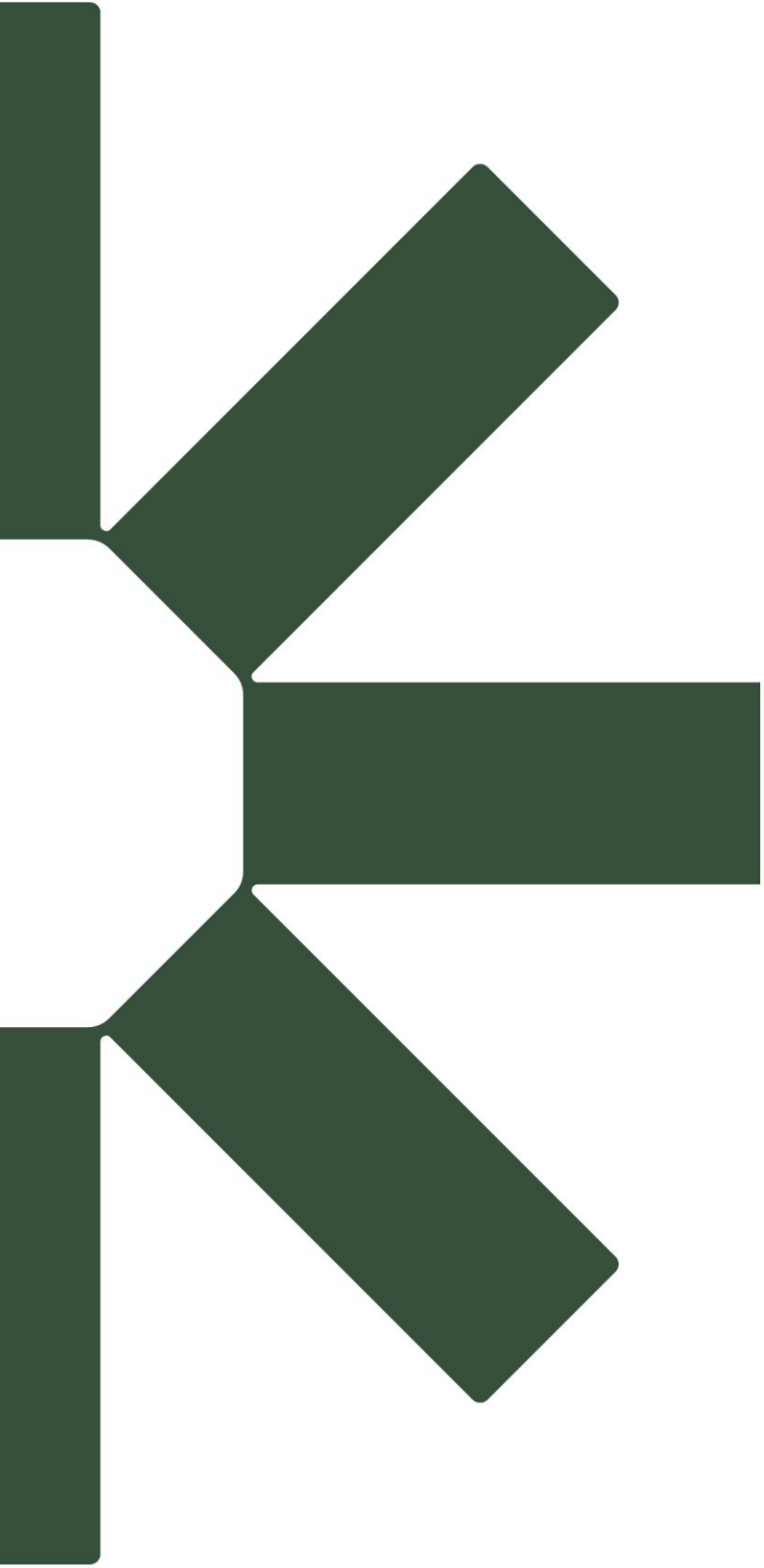


## 6.0 Feedback

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