

NEOEN

**ASSESSMENT OF MATTERS OF
NATIONAL ENVIRONMENTAL SIGNIFICANCE –
PRELIMINARY DOCUMENTATION (2021/9137)**

Mount Hopeful Wind Farm

FINAL – ATTACHMENT B2

March 2024



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FINAL – ATTACHMENT B2

Prepared by
Umwelt (Australia) Pty Limited
on behalf of
Neoen Australia Pty Ltd

Report No. 22753/R03
Date: March 2024



QMS Certification Services

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Table of Contents

7.0	Likelihood of Occurrence Assessment	1
7.1	Threatened Ecological Communities	1
7.2	Threatened Flora	1
7.3	Threatened Fauna	2
7.4	Migratory Fauna	2

Figures

Figure 7.1A	<i>Cycas megacarpa</i> Habitat	3
Figure 7.2	<i>Cossinia australiana</i> Potential Habitat	5
Figure 7.3	<i>Samadera bidwillii</i> Habitat	6
Figure 7.4	<i>Decaspermum struckoiligum</i> Potential Habitat	7
Figure 7.5	Koala Habitat	8
Figure 7.6	Northern Quoll Habitat	15
Figure 7.7	White-throated Needletail Habitat	16
Figure 7.8	Ghost bat Potential Habitat	23
Figure 7.9	Greater glider (southern and central) Habitat	30
Figure 7.10	Grey-headed Flying-fox Potential Habitat	37
Figure 7.11	Red Goshawk Potential Habitat	44
Figure 7.12	Collared Delma Potential Habitat	51

Tables

Table 7.1	Likelihood of Occurrence Assessment Results: Threatened Flora	1
Table 7.2	Likelihood of Occurrence Assessment Results: Threatened Fauna	2
Table 7.3	Likelihood of Occurrence Assessment Results: Migratory Fauna	2

7.0 Likelihood of Occurrence Assessment

The likelihood of occurrence was evaluated for TECs, threatened species and migratory species identified in the PMST (**Section 5.0**). Key results of the likelihood of occurrence assessment are presented below in **Section 7.1** to **Section 7.4**. The full likelihood of occurrence assessment is available in **Appendix C**.

As described in **Section 4.4**, suitable habitat for these values has been mapped within the Study Area using modelling criteria detailed per value in **Appendix E**.

7.1 Threatened Ecological Communities

Regional ecosystems analogous with three TECs were recorded within the Study Area however, these did not satisfy the condition thresholds and/or diagnostic criteria of the relevant TEC. Therefore, no TECs are considered likely to occur within the Study Area.

7.2 Threatened Flora

Two threatened flora species are known to the Study Area, confirmed during the field survey program: *Cycas megacarpa* and *Samadera bidwillii*. *Cycas megacarpa* was recorded extensively across the Study Area and was the subject of targeted surveys in 2022 and 2023 to ensure population estimates were robust. The number of *Cycas megacarpa* individuals within the Study Area based on data interpolation is 141,392 across an area of 16,975.8 ha. The count of *Cycas megacarpa* individuals within the Disturbance Footprint, captured during 2023 pre-clearance surveys, totals 10,179 individuals. While 10,179 individuals are known to occur within the Disturbance Footprint, the final impact to individuals is still to be confirmed, with detailed design ongoing. Avoidance and mitigation measures, such as micrositing of Project infrastructure will contribute to a reduction in the number of *Cycas megacarpa* individuals impacted, as well as the final Project design, which is yet to be confirmed.

In addition, two species were determined to have a moderate likelihood of occurring based on the presence of suitable habitat and recent and/or nearby records (**Table 7.1**).

Threatened flora habitat mapping is shown in **Figure 7.1** to **Figure 7.4**. In addition to **Figure 6.2** which shows the *Cycas megacarpa* and *Samadera bidwillii* field records, **Figure 7.1A** shows *Cycas megacarpa* known habitat (confirmed and suspected) within the Development Corridor and Disturbance Footprint, and **Figure 7.1B** displays estimated densities of *Cycas megacarpa* across the Study Area based on the data interpolation.

Table 7.1 Likelihood of Occurrence Assessment Results: Threatened Flora

Common Name	Scientific Name	EPBC Act Status	NC Act Status	Likelihood of Occurrence Outcome
-	<i>Cycas megacarpa</i>	Endangered	Endangered	Known
Quassia bidwillii	<i>Samadera bidwillii</i>	Vulnerable	Vulnerable	
cossinia	<i>Cossinia australiana</i>	Endangered	Endangered	Moderate
-	<i>Decaspermum struckoiligum</i>	Endangered	Endangered	

7.3 Threatened Fauna

Six threatened fauna species are known from the Study Area, confirmed during the field survey program (Table 7.2).

The likelihood of occurrence assessment determined that one further threatened fauna species has a moderate likelihood of occurrence within the Study Area (Table 7.2). No species were identified as having a high likelihood of occurrence.

Threatened fauna habitat mapping is shown in Figure 7.5 to Figure 7.13.

Table 7.2 Likelihood of Occurrence Assessment Results: Threatened Fauna

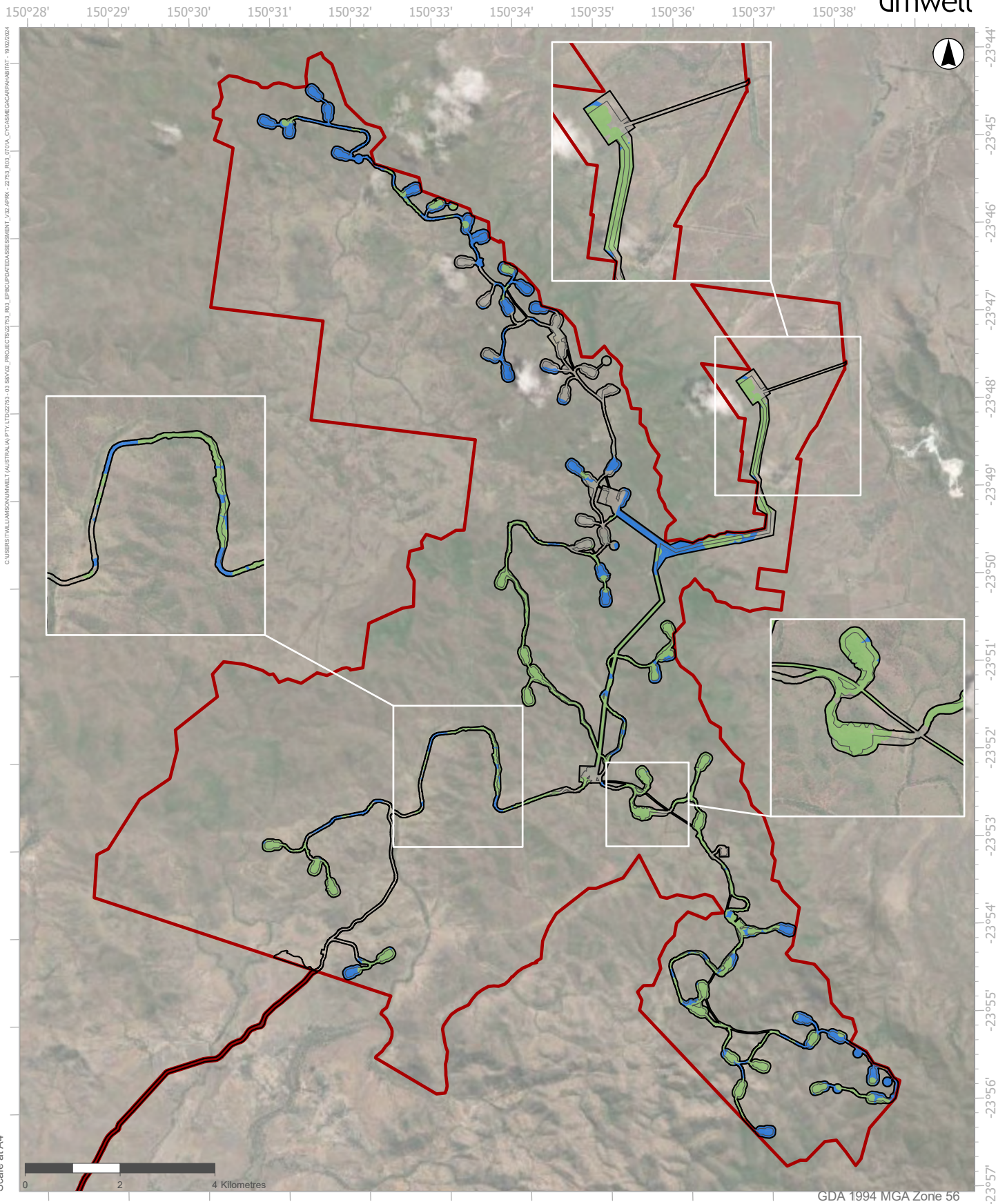
Common Name	Scientific Name	EPBC Act Status	NC Act Status	Likelihood of Occurrence Outcome
greater glider (southern and central)	<i>Petauroides volans</i>	Vulnerable	Vulnerable	Known
yellow-bellied glider (south-eastern)	<i>Petaurus australis australis</i>	Vulnerable	Vulnerable	
northern quoll	<i>Dasyurus hallucatus</i>	Endangered	Least Concern	
squatter pigeon (southern)	<i>Geophaps scripta scripta</i>	Vulnerable	Vulnerable	
white-throated needletail	<i>Hirundapus caudacutus</i>	Vulnerable, Migratory	Vulnerable	
koala	<i>Phascolarctos cinereus</i>	Endangered	Endangered	
collared delma	<i>Delma torquata</i>	Vulnerable	Vulnerable	Moderate

7.4 Migratory Fauna

Excluding the white-throated needletail (*Hirundapus caudacutus*) which is also listed threatened, two migratory fauna species are known from the Study Area, confirmed during field surveys. The likelihood of occurrence assessment determined that one species has a high likelihood of occurrence, and three species have a moderate likelihood of occurrence (Table 7.3). Migratory fauna habitat mapping is shown in Figure 7.15 to Figure 7.20.

Table 7.3 Likelihood of Occurrence Assessment Results: Migratory Fauna

Common Name	Scientific Name	EPBC Act Status	NC Act Status	Likelihood of Occurrence Outcome
rufous fantail	<i>Rhipidura rufifrons</i>	Migratory	Special Least Concern	Known
spectacled monarch	<i>Symposiachrus trivirgatus</i>			
fork-tailed swift	<i>Apus pacificus</i>			High
black-faced monarch	<i>Monarcha melanopsis</i>			Moderate
oriental cuckoo	<i>Cuculus optatus</i>			
satin flycatcher	<i>Myiagra cyanoleuca</i>			



1:110,000
Scale at A4

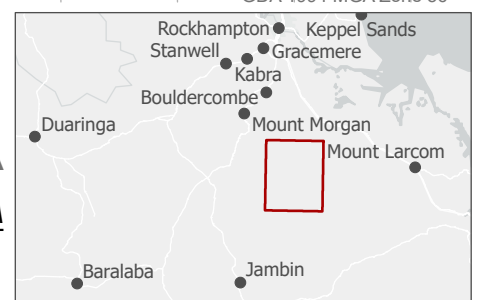
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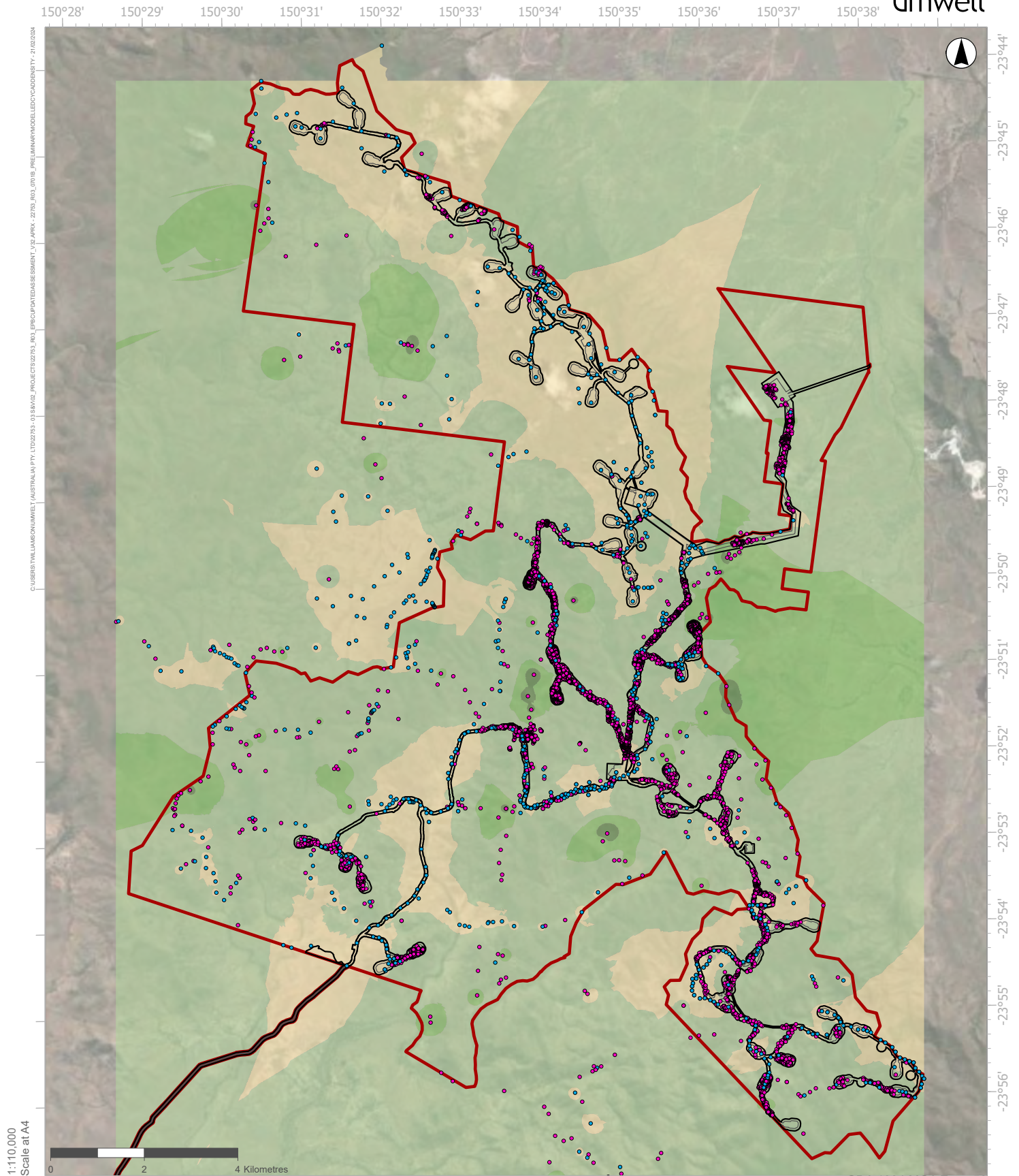
- Disturbance Footprint
- Development Corridor
- Study Area

Cycas megacarpa Habitat

- Known Habitat (confirmed)
- Known Habitat (suspected)

FIGURE 7.1A
CYCAS MEGACARPA
HABITAT





1:110,000
Scale at A4

Legend

- Disturbance Footprint
- Development Corridor
- Study Area

Surveyed Locations

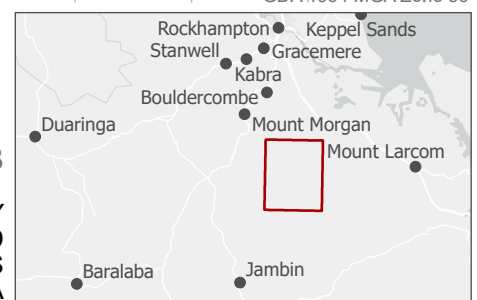
- Cycas megacarpa* Absent
- Cycas megacarpa* Present

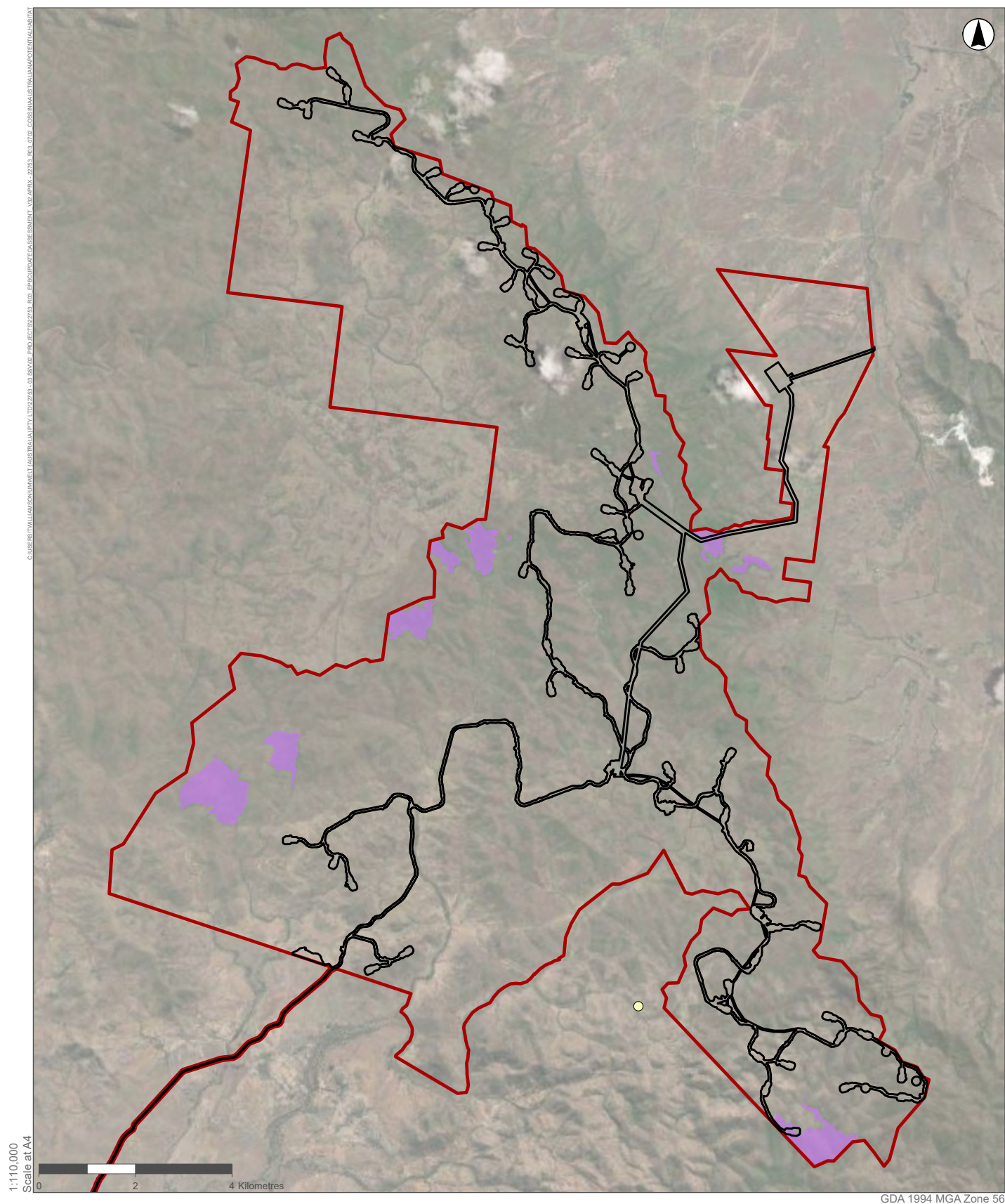
Predicted Distribution Density of *Cycas megacarpa*

- Absent (0 - 1)
- Low (1 - 10)
- Moderate (10 - 25)
- High (25-50)

FIGURE 7.1B

PRELIMINARY
MODELLLED CYCAD
DENSITY ACROSS
THE STUDY AREA



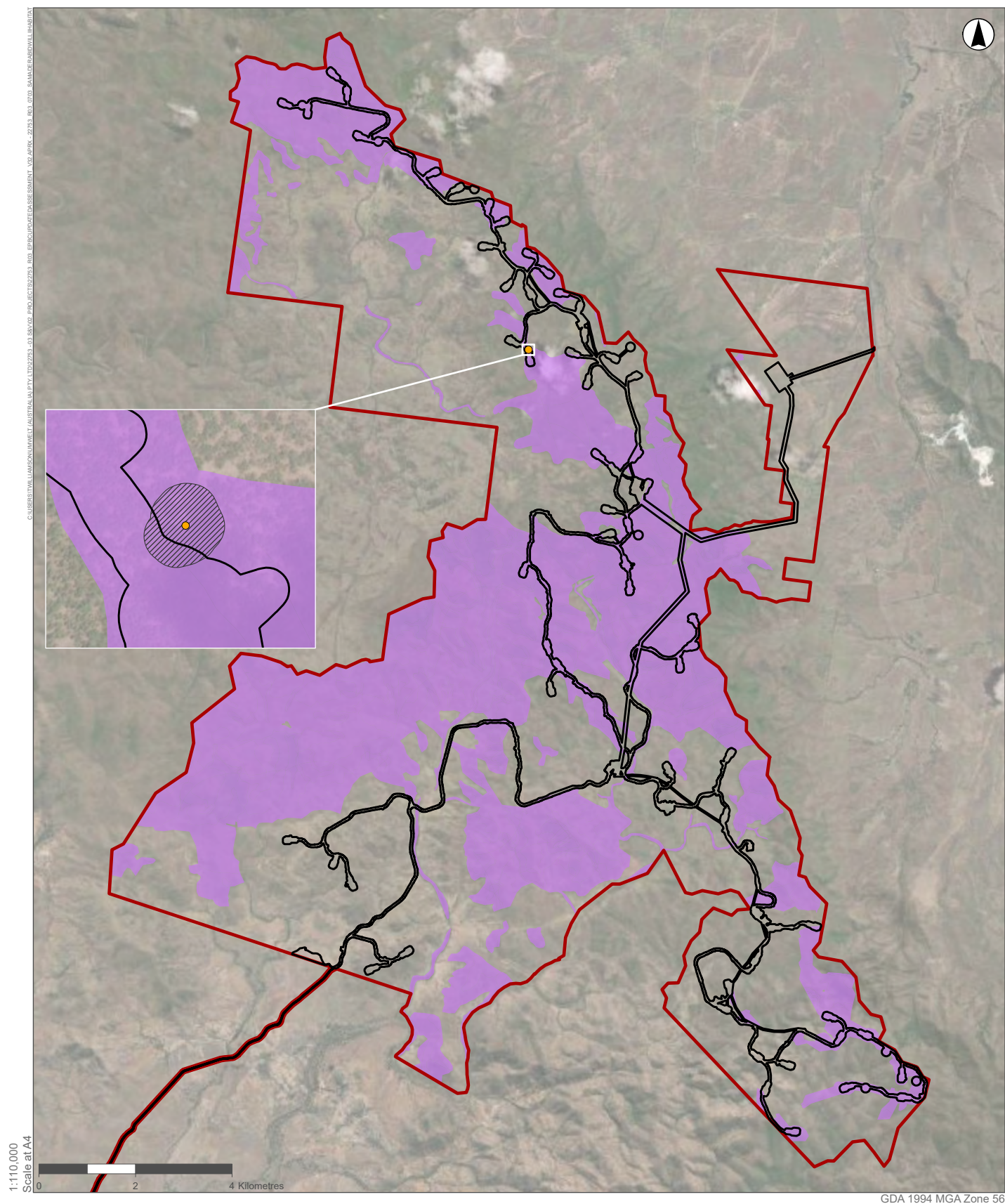


Legend

- *Cossinia australiana* Record (ALA)
- Disturbance Footprint
- Study Area
- Cossinia australiana* Potential Habitat

FIGURE 7.2

**COSSINIA AUSTRALIANA
POTENTIAL HABITAT**

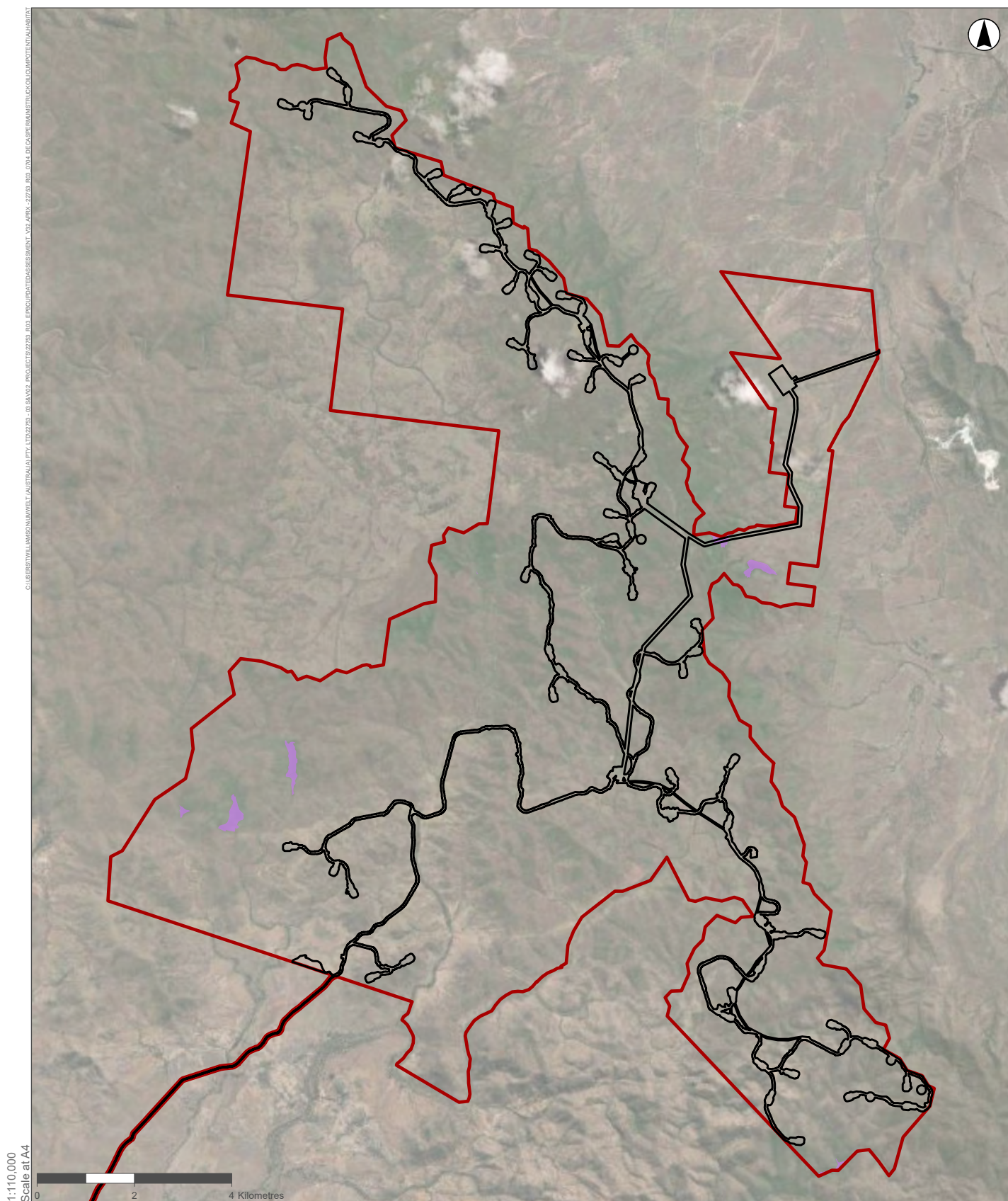


Legend

- Disturbance Footprint
- Study Area
- *Samadera bidwillii* (Vulnerable EPBC Act and NC Act) Record
- Habitat Critical to the Survival of *Samadera bidwillii* (no impact, complete avoidance)
- Samadera bidwillii* Habitat

FIGURE 7.3

SAMADERA BIDWILLII HABITAT



Legend

- Disturbance Footprint
- Study Area
- Decaspermum struckoiligum* Potential Habitat

FIGURE 7.4

**DECASPERMUM STRUCKOILICUM
POTENTIAL HABITAT**



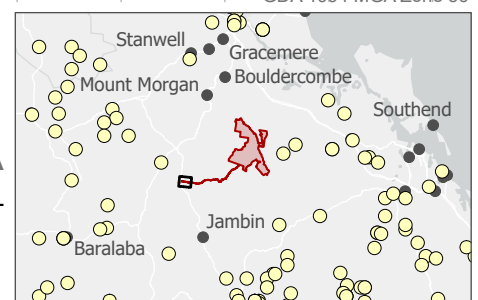
Legend

- Koala Record (ALA)
- Disturbance Footprint
- ▭ Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5A
KOALA HABITAT





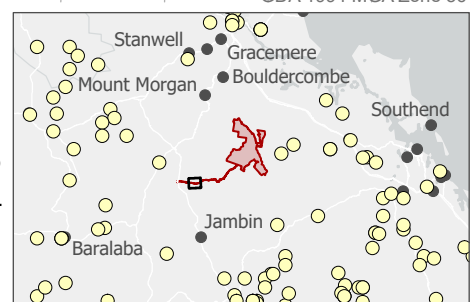
Legend

- Koala Record (ALA)
- Disturbance Footprint
- Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5B
KOALA HABITAT





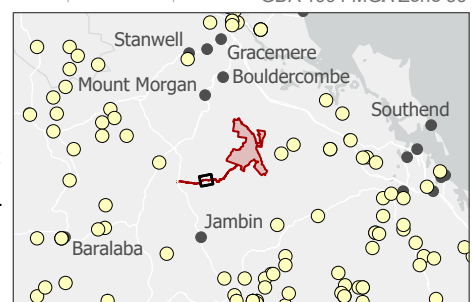
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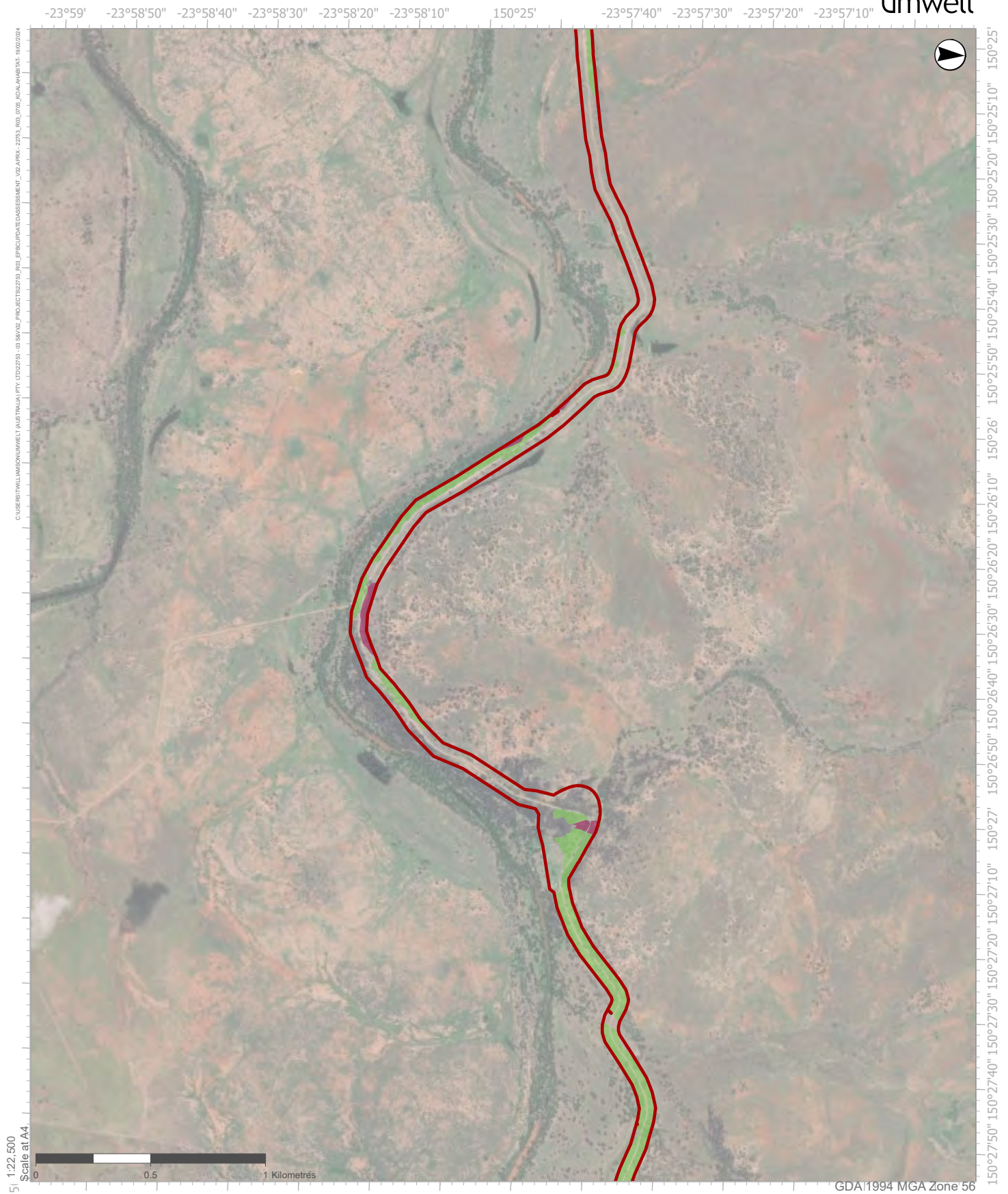
- Koala Record (ALA)
- Disturbance Footprint
- Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5C
KOALA HABITAT





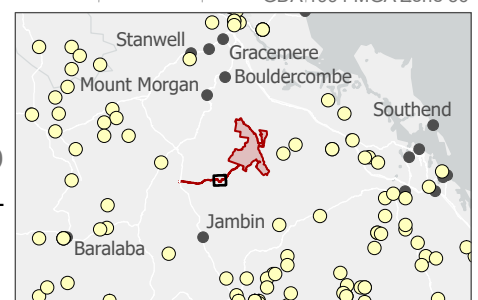
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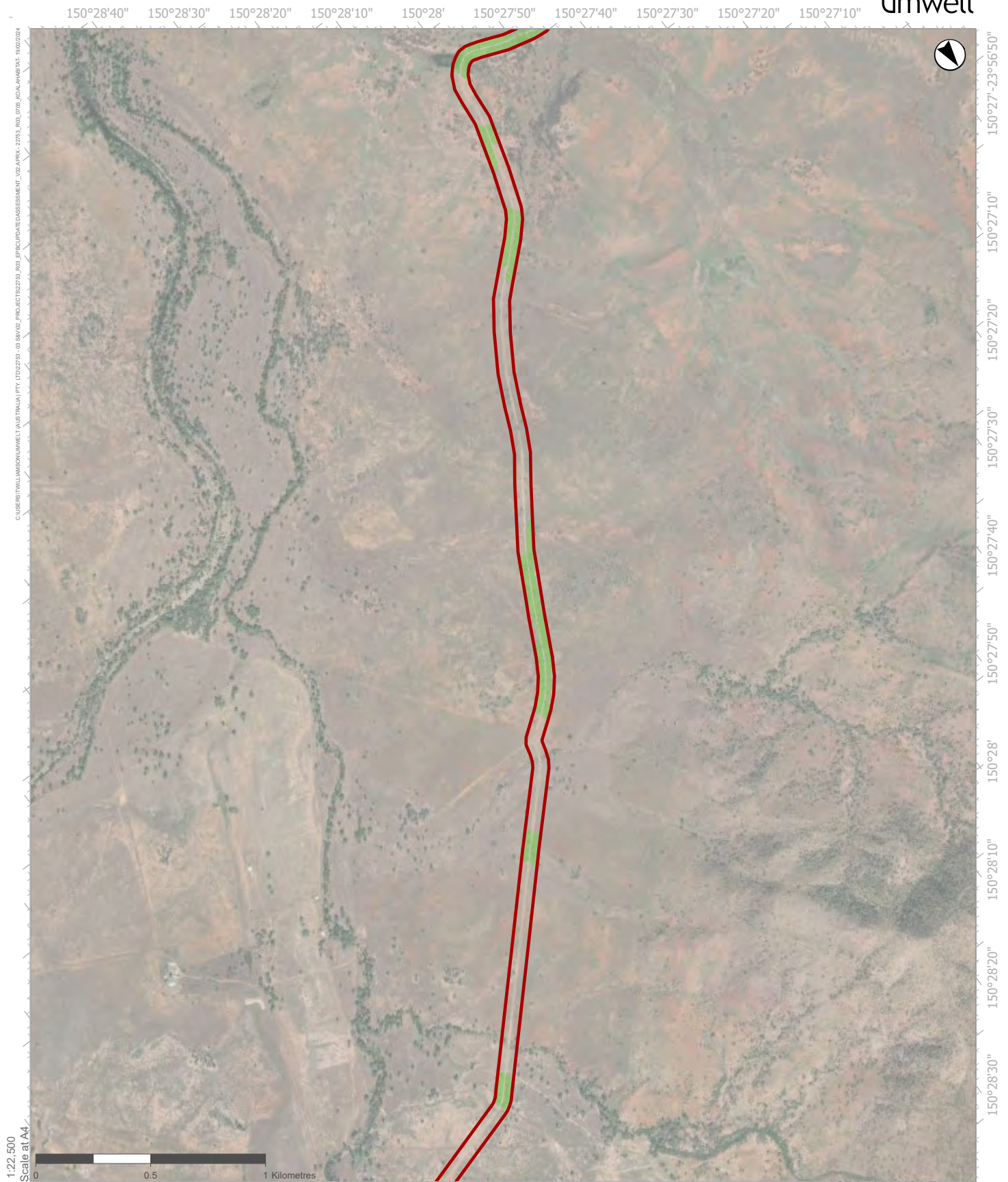
- Koala Record (ALA)
- Disturbance Footprint
- Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5D
KOALA HABITAT





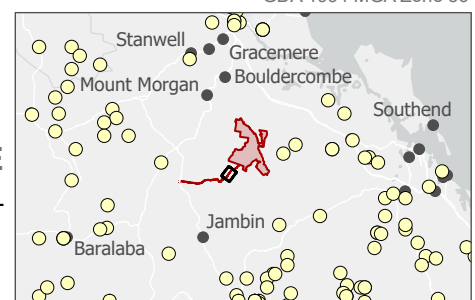
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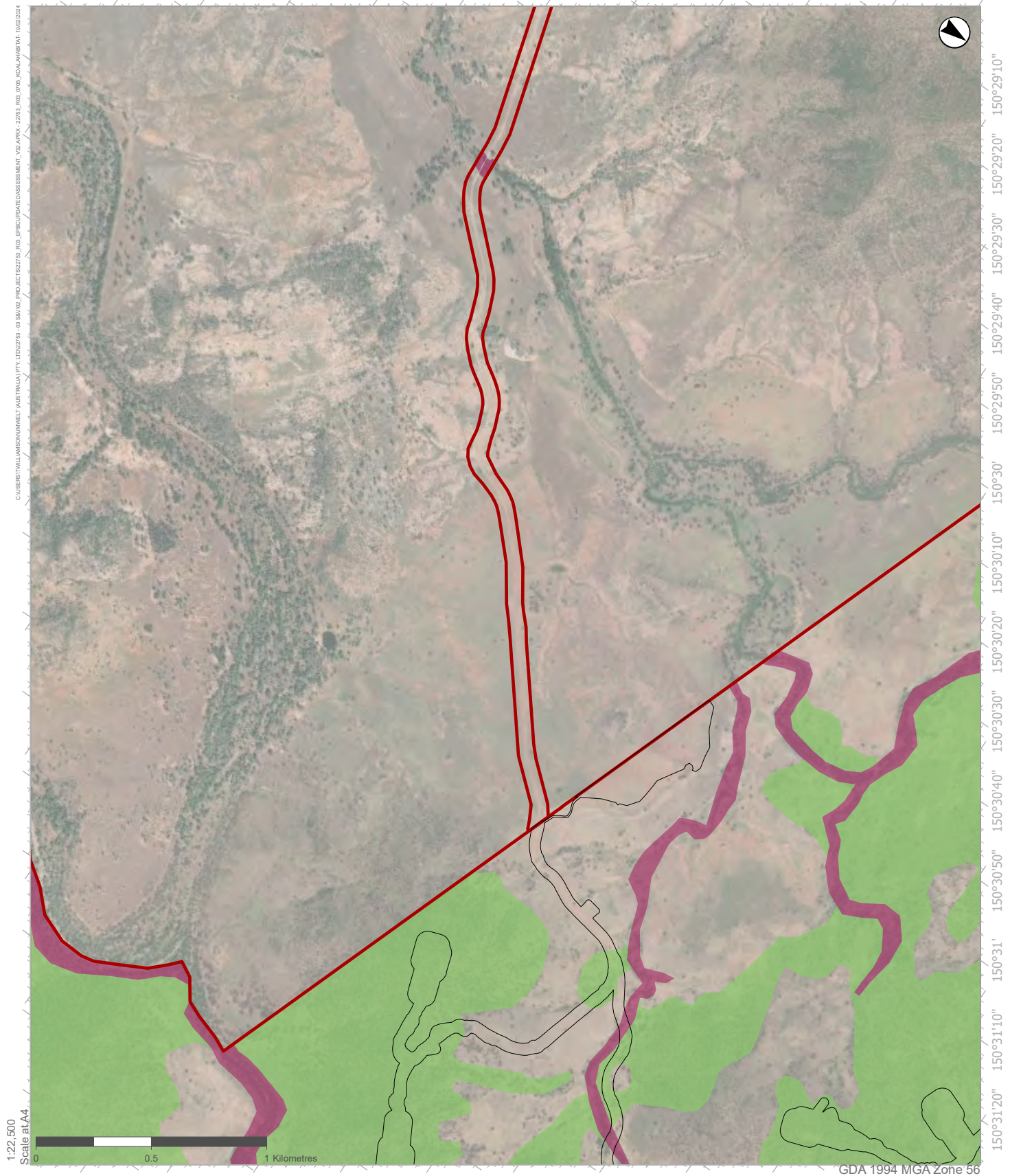
- Koala Record (ALA)
- Disturbance Footprint
- Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5E
KOALA HABITAT





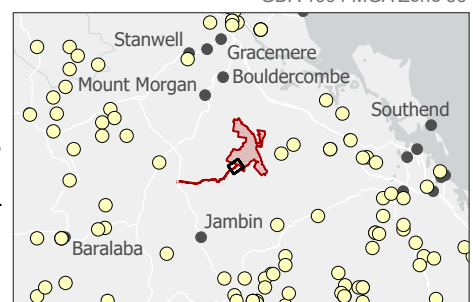
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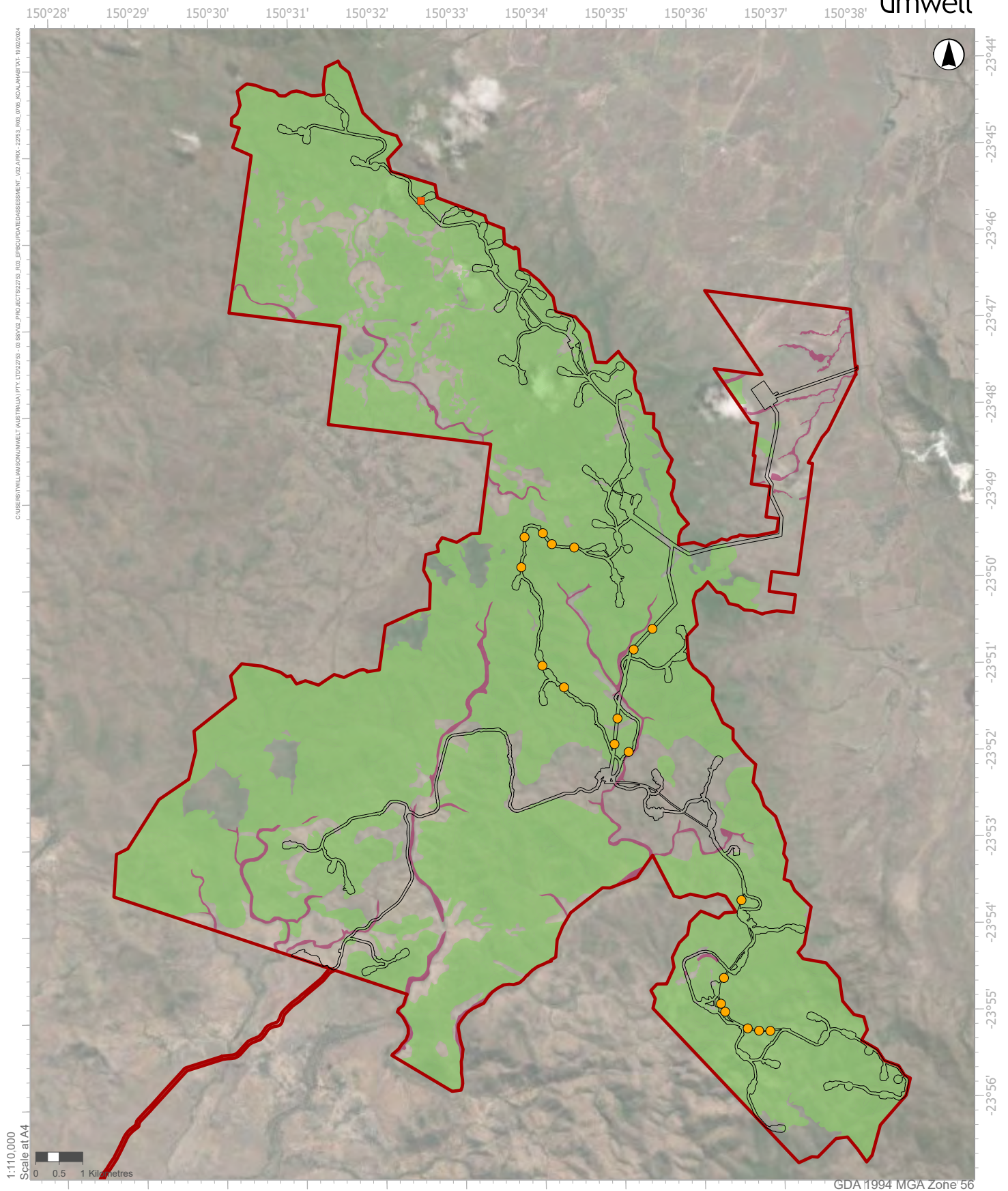
- Koala Record (ALA)
- Disturbance Footprint
- Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5F
KOALA HABITAT





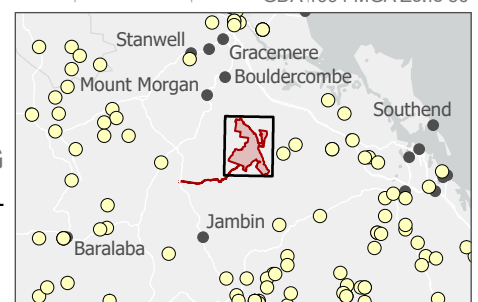
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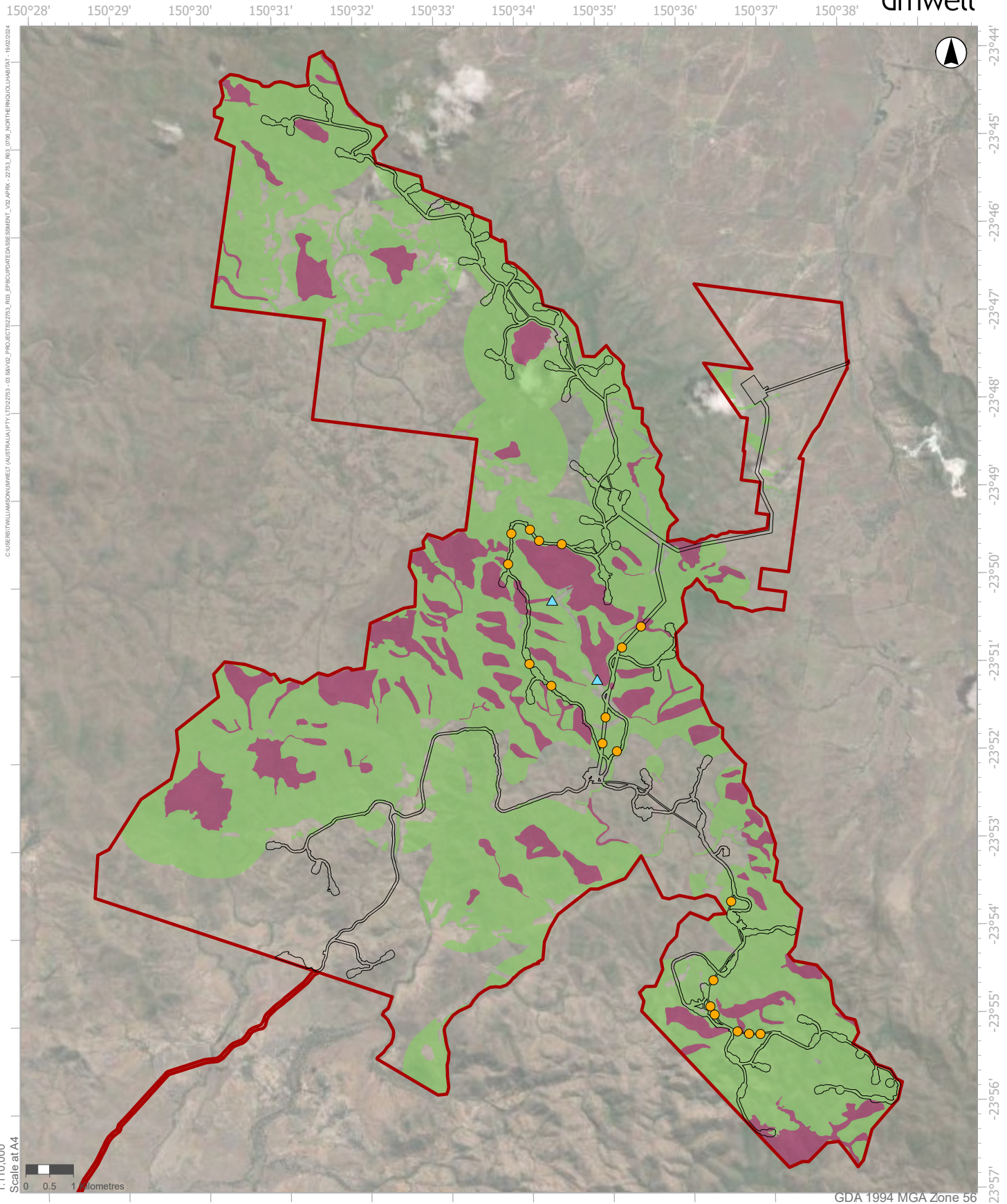
- Pinch Points
- Koala Record (ALA)
- Koala Record (Umwelt)
- Disturbance Footprint
- ▭ Study Area

Koala Habitat

- Breeding, Foraging and Dispersal
- Climate Refugia

FIGURE 7.5G
KOALA HABITAT





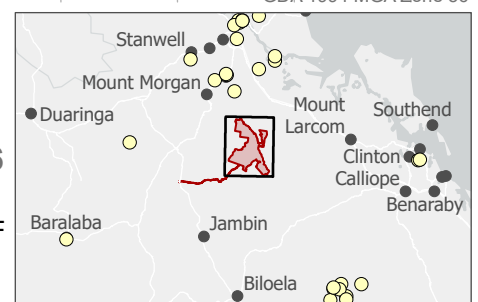
Legend

- Pinch Points
- ▲ Northern Quoll Records (Umwelt)
- Northern Quoll Record (ALA)
- Disturbance Footprint
- ▭ Study Area

Northern Quoll Habitat

- Foraging and Dispersal
- Denning and Refuge

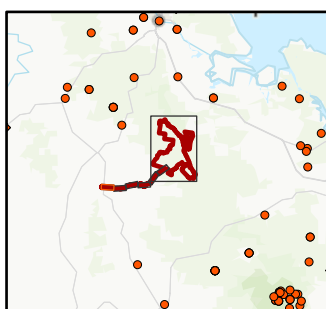
FIGURE 7.6
NORTHERN QUOLL HABITAT





Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area
- White-throated Needletail Habitat**
 - Foraging and dispersal
 - Roosting and foraging



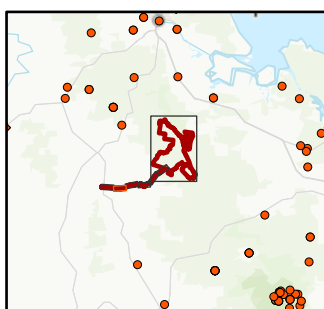
GDA 1994 MGA Zone 56

FIGURE 7.7A
WHITE-THROATED NEEDLETAIL
HABITAT



Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area
- White-throated Needletail Habitat**
 - Foraging and dispersal
 - Roosting and foraging



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FIGURE 7.7B
WHITE-THROATED NEEDLETAIL
HABITAT



Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area
- White-throated Needletail Habitat**
 - Foraging and dispersal
 - Roosting and foraging

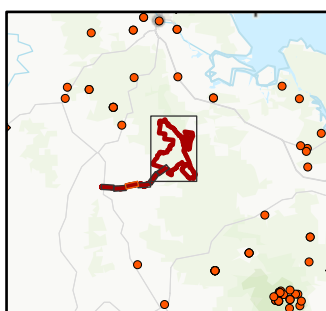
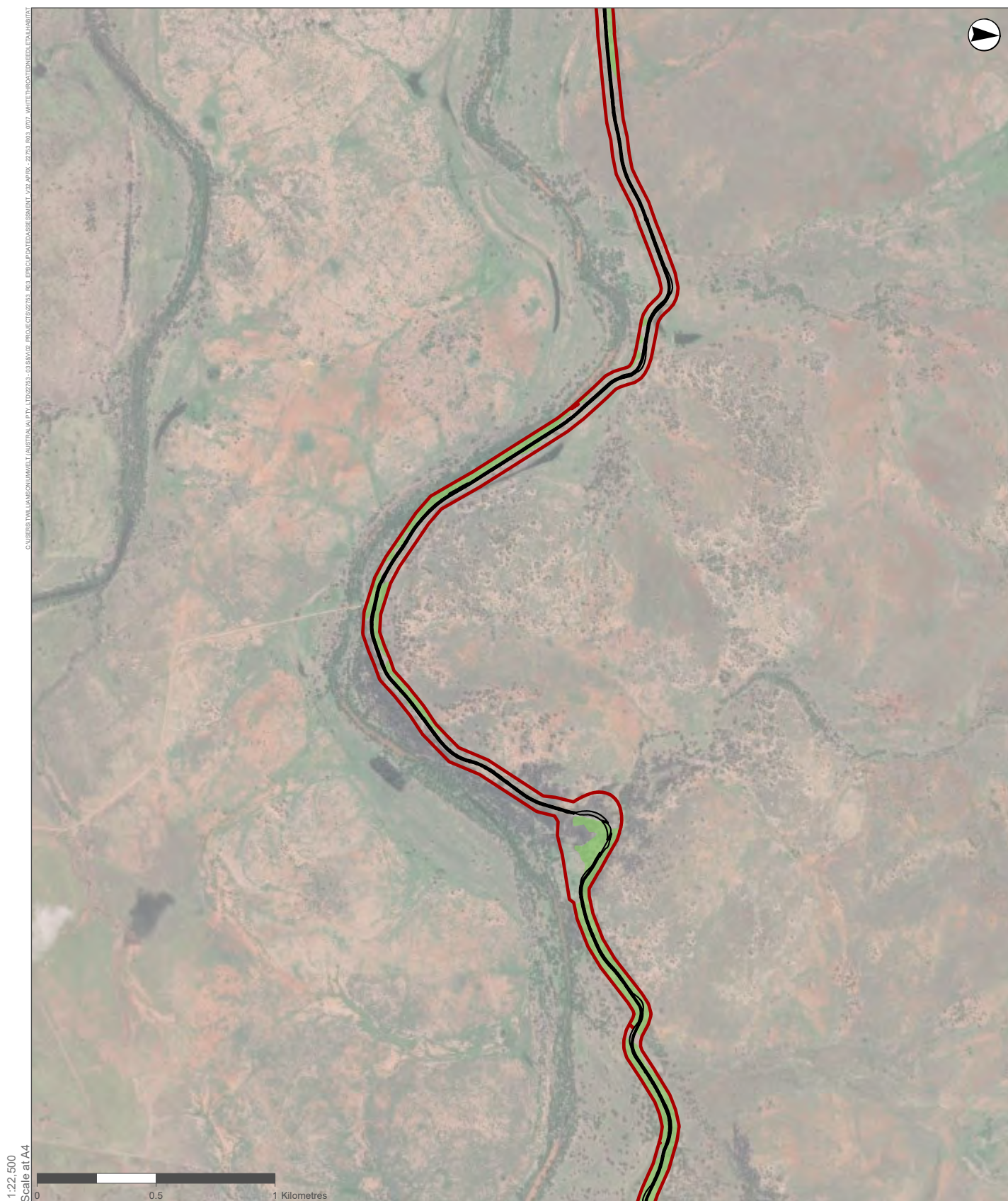


FIGURE 7.7C

**WHITE-THROATED NEEDLETAIL
HABITAT**



GDA 1994 MGA Zone 56

Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needle-tail Record (Umwelt)
- White-throated Needle-tail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area

White-throated Needle-tail Habitat

- Foraging and dispersal
- Roosting and foraging

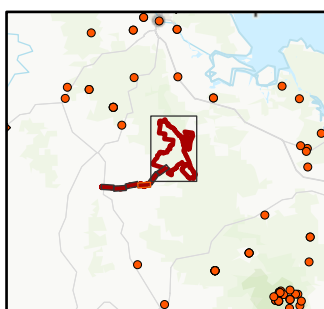
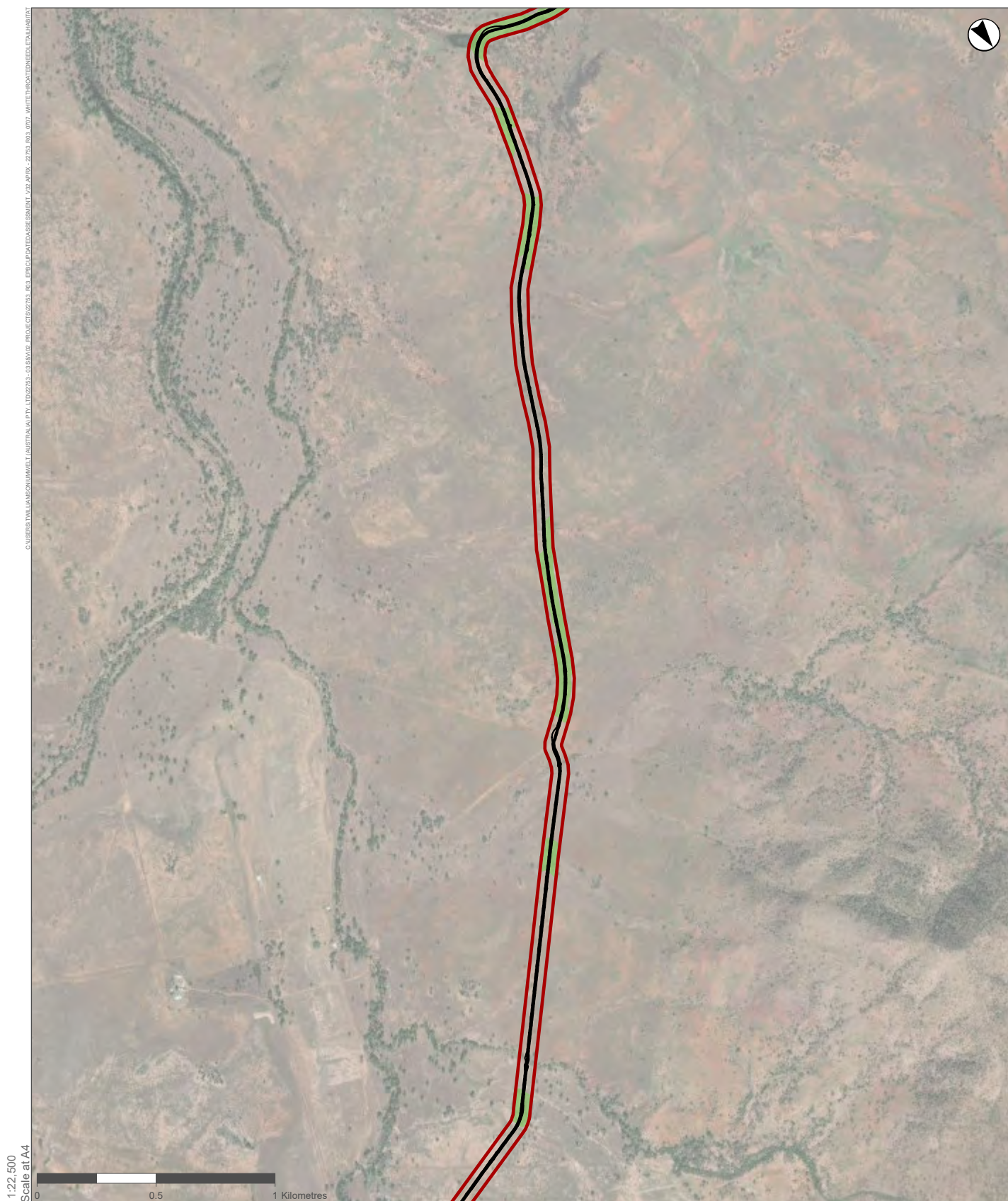


FIGURE 7.7D

**WHITE-THROATED NEEDLETAIL
HABITAT**



Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area

White-throated Needletail Habitat

- Foraging and dispersal
- Roosting and foraging

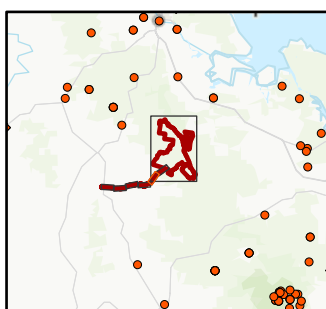
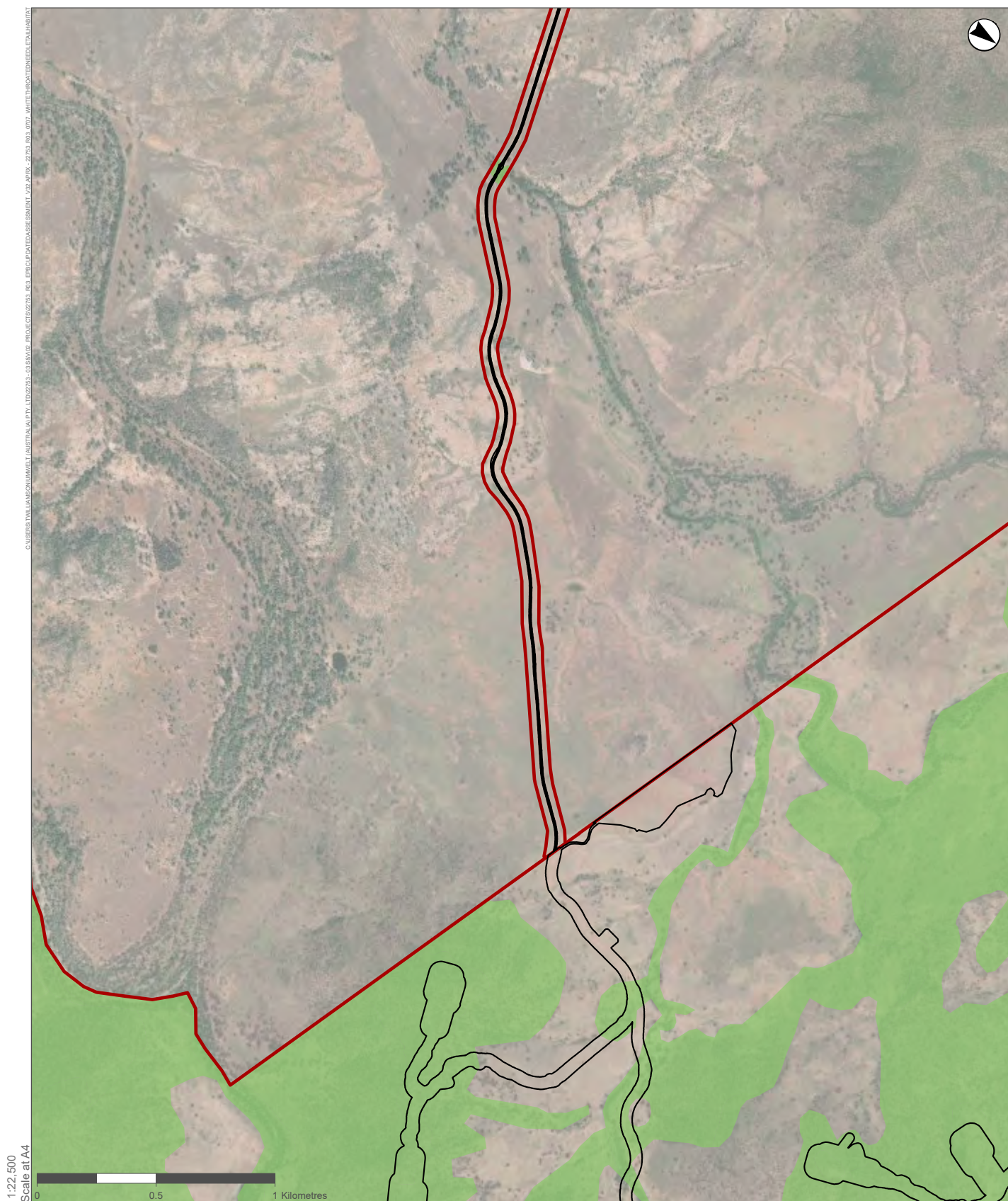


FIGURE 7.7E

**WHITE-THROATED NEEDLETAIL
HABITAT**



Legend

- Mountains, Peaks and Capes (DoR)
- White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- Disturbance Footprint
- Study Area
- White-throated Needletail Habitat**
 - Foraging and dispersal
 - Roosting and foraging

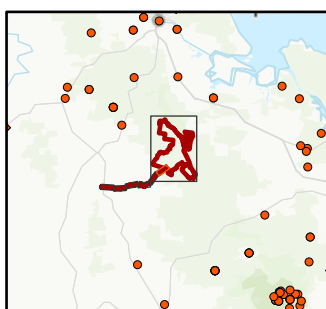
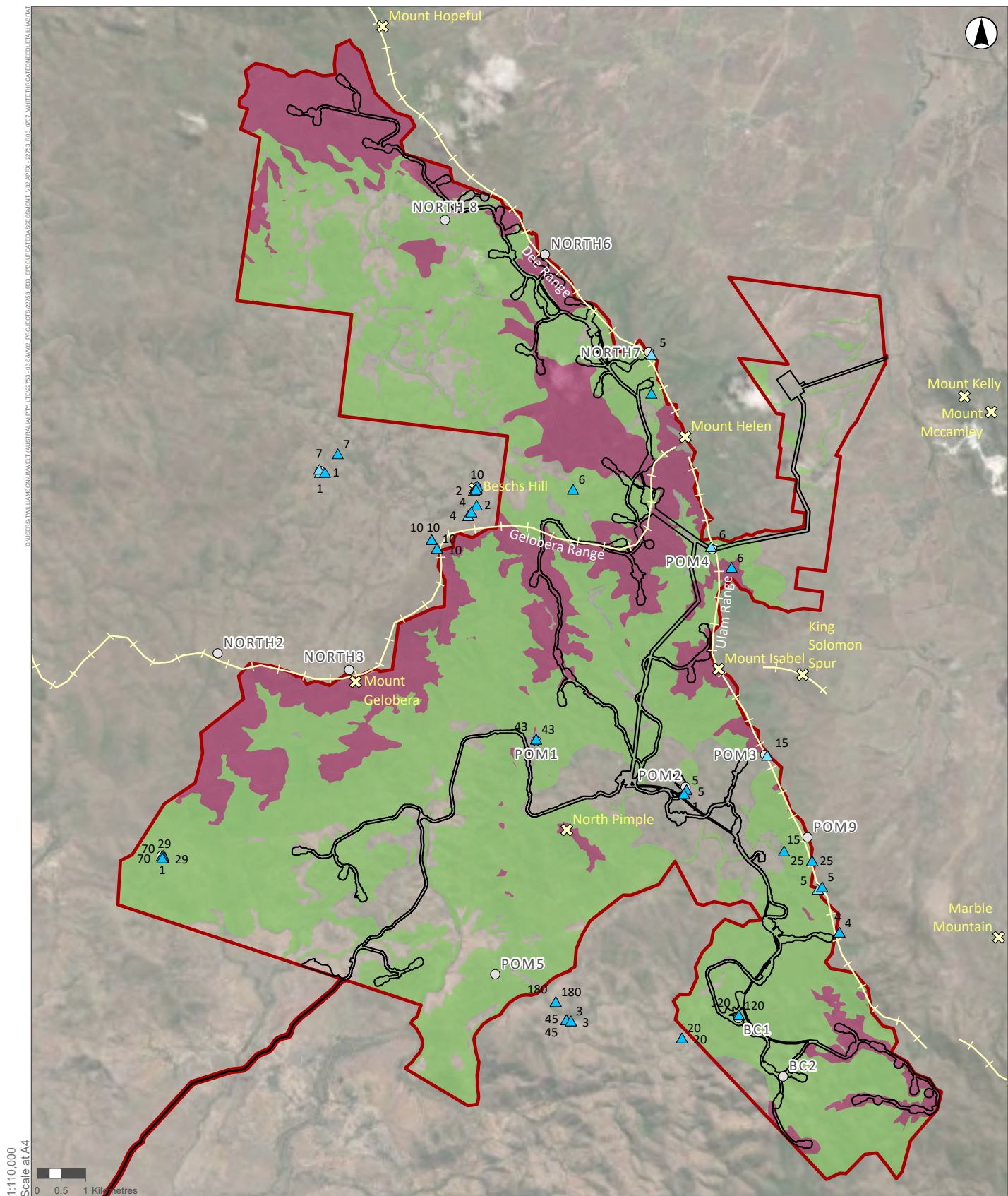


FIGURE 7.7F

**WHITE-THROATED NEEDLETAIL
HABITAT**



GDA 1994 MGA Zone 56

Legend

- ✕ Mountains, Peaks and Capes (DoR)
- ▲ White-throated Needletail Record (Umwelt)
- White-throated Needletail Record (ALA)
- Vantage Point Sites
- Mountain Range (DoR)
- ▭ Disturbance Footprint
- ▭ Study Area
- White-throated Needletail Habitat**
- Foraging and dispersal
- Roosting and foraging

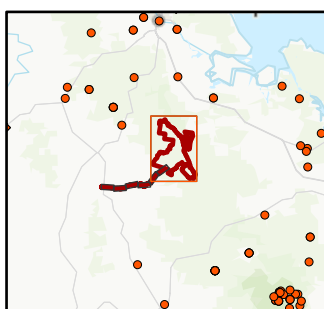


FIGURE 7.7G
WHITE-THROATED NEEDLETAIL
HABITAT

Image Source: ESRI Basemap (2022) Data source: Department of Resources (2022)



Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- ▭ Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal

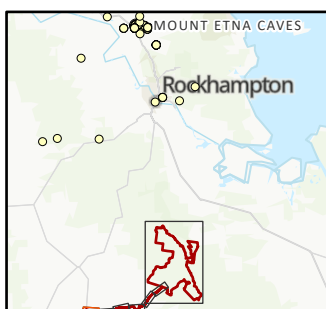


FIGURE 7.8A
GHOST BAT POTENTIAL HABITAT



Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- ▭ Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal

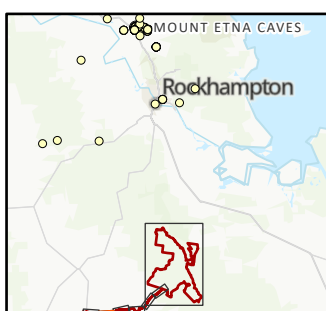


FIGURE 7.8B
GHOST BAT POTENTIAL HABITAT



1:22,500
Scale at A4

GDA 1994 MGA Zone 56

Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal

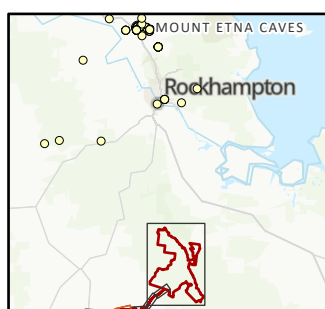


FIGURE 7.8C
GHOST BAT POTENTIAL HABITAT



Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal

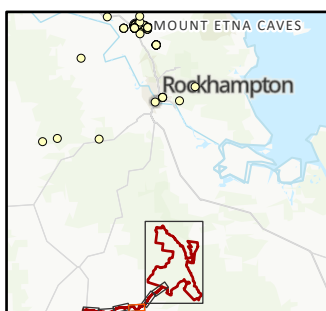
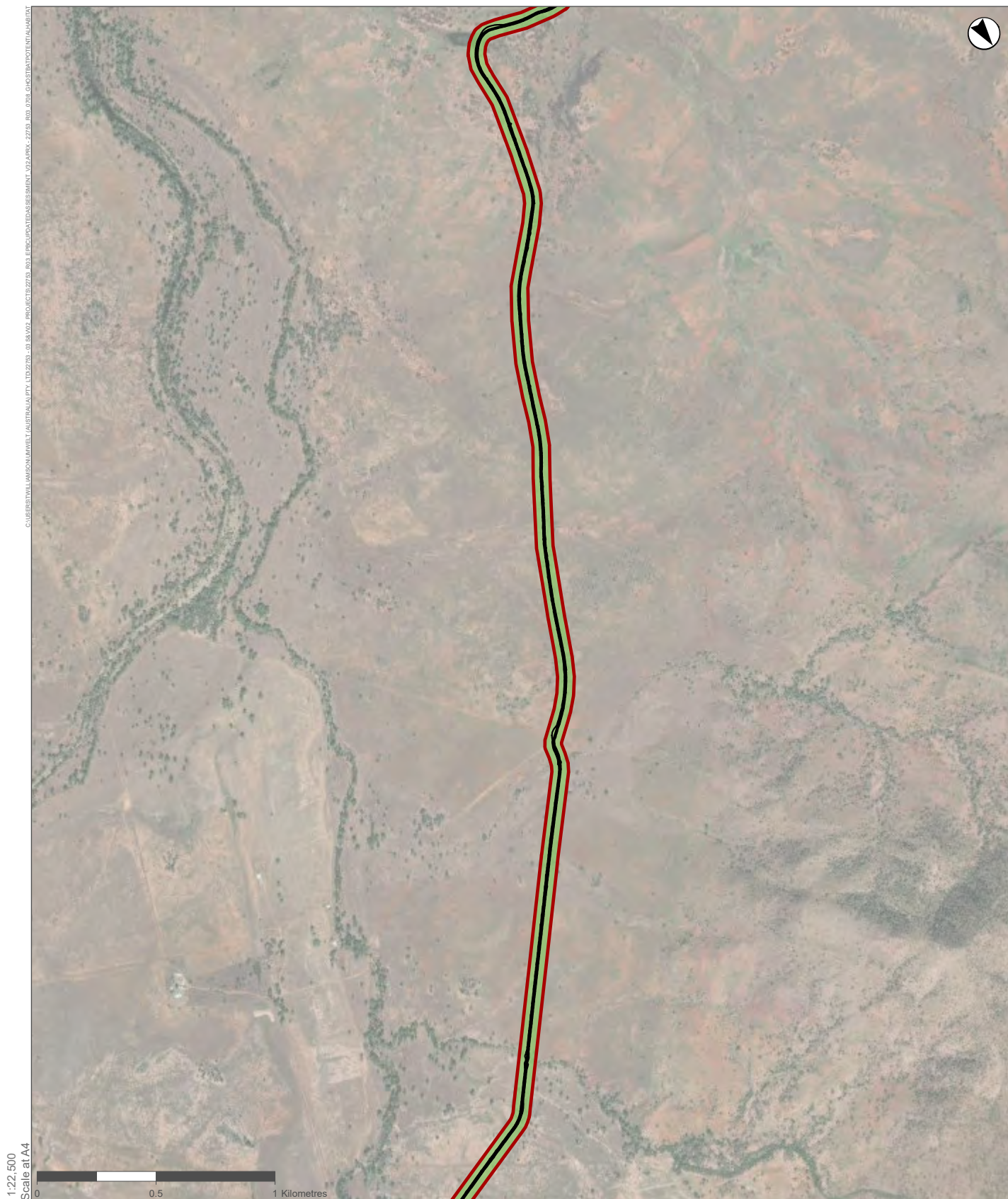
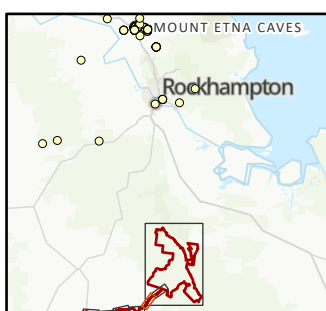


FIGURE 7.8D
GHOST BAT POTENTIAL HABITAT



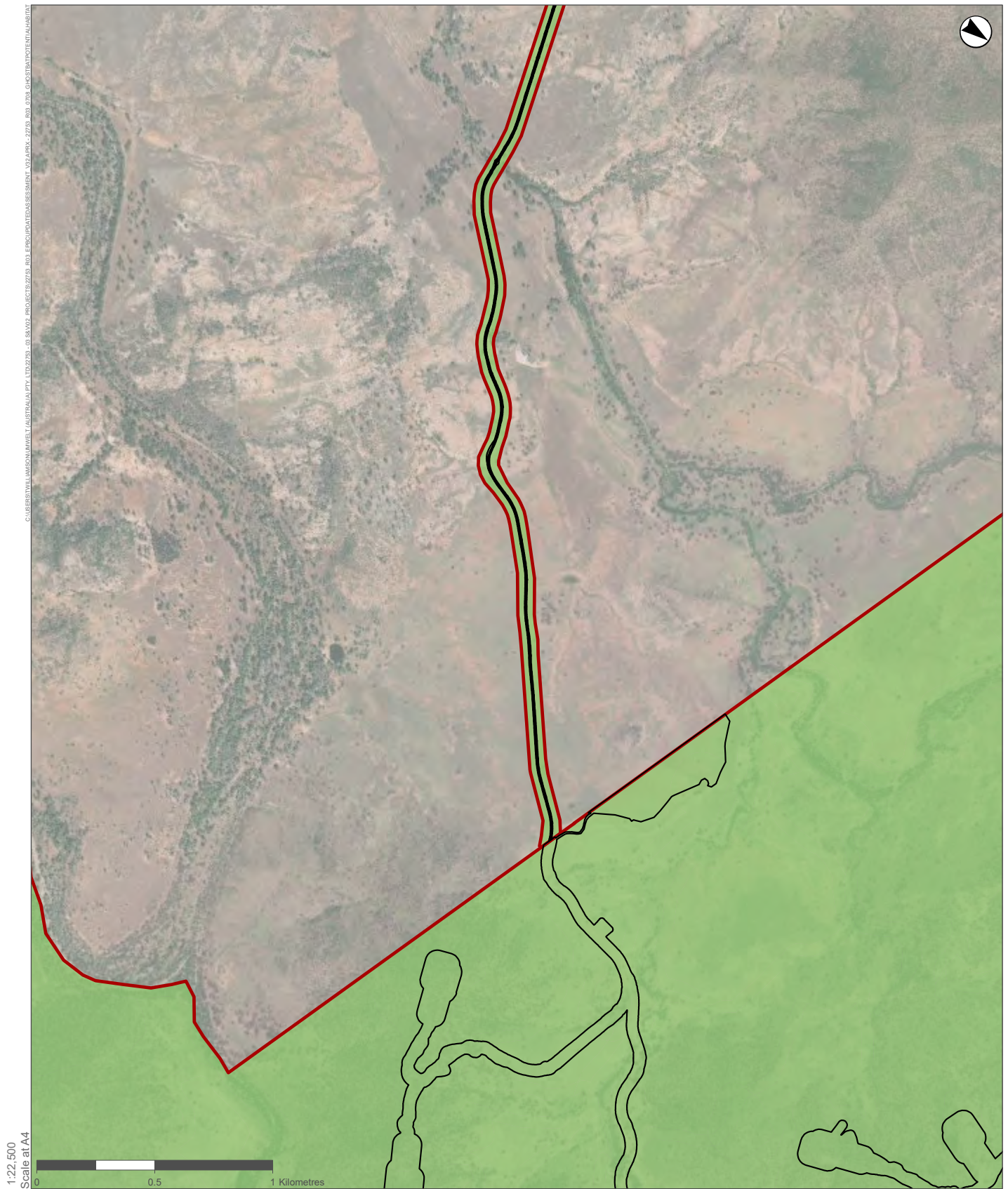
Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- ▭ Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal



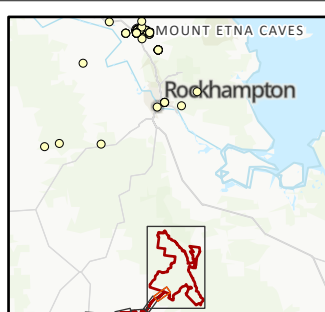
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FIGURE 7.8E
GHOST BAT POTENTIAL HABITAT



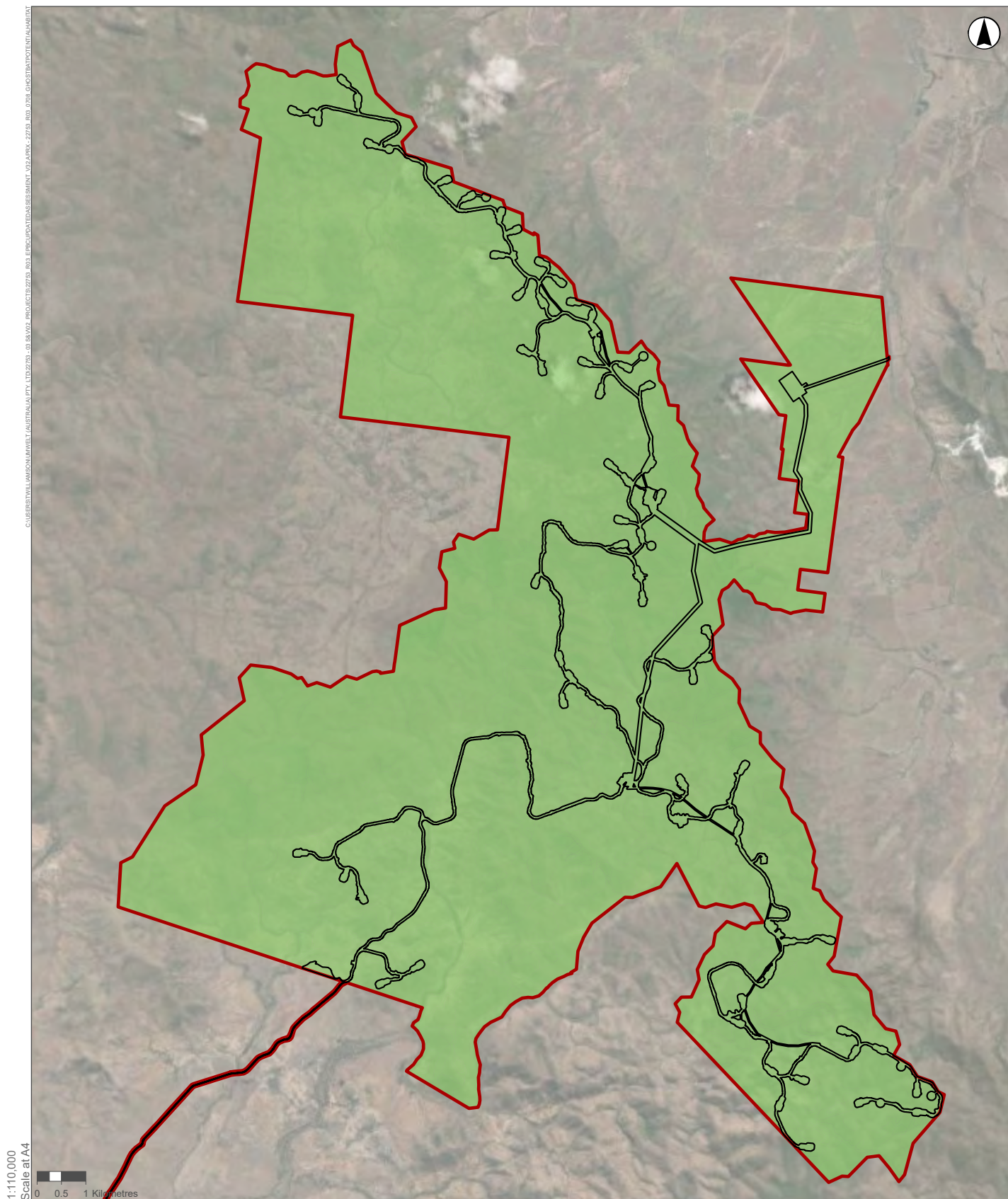
Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- ▬ Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal



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FIGURE 7.8F
GHOST BAT POTENTIAL HABITAT



Legend

- Ghost Bat Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Ghost Bat Habitat**
- Seasonal Foraging and Dispersal

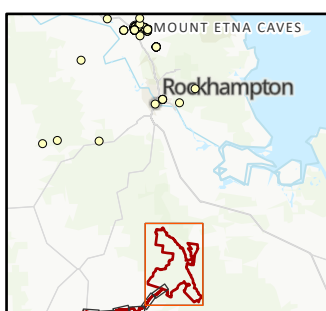
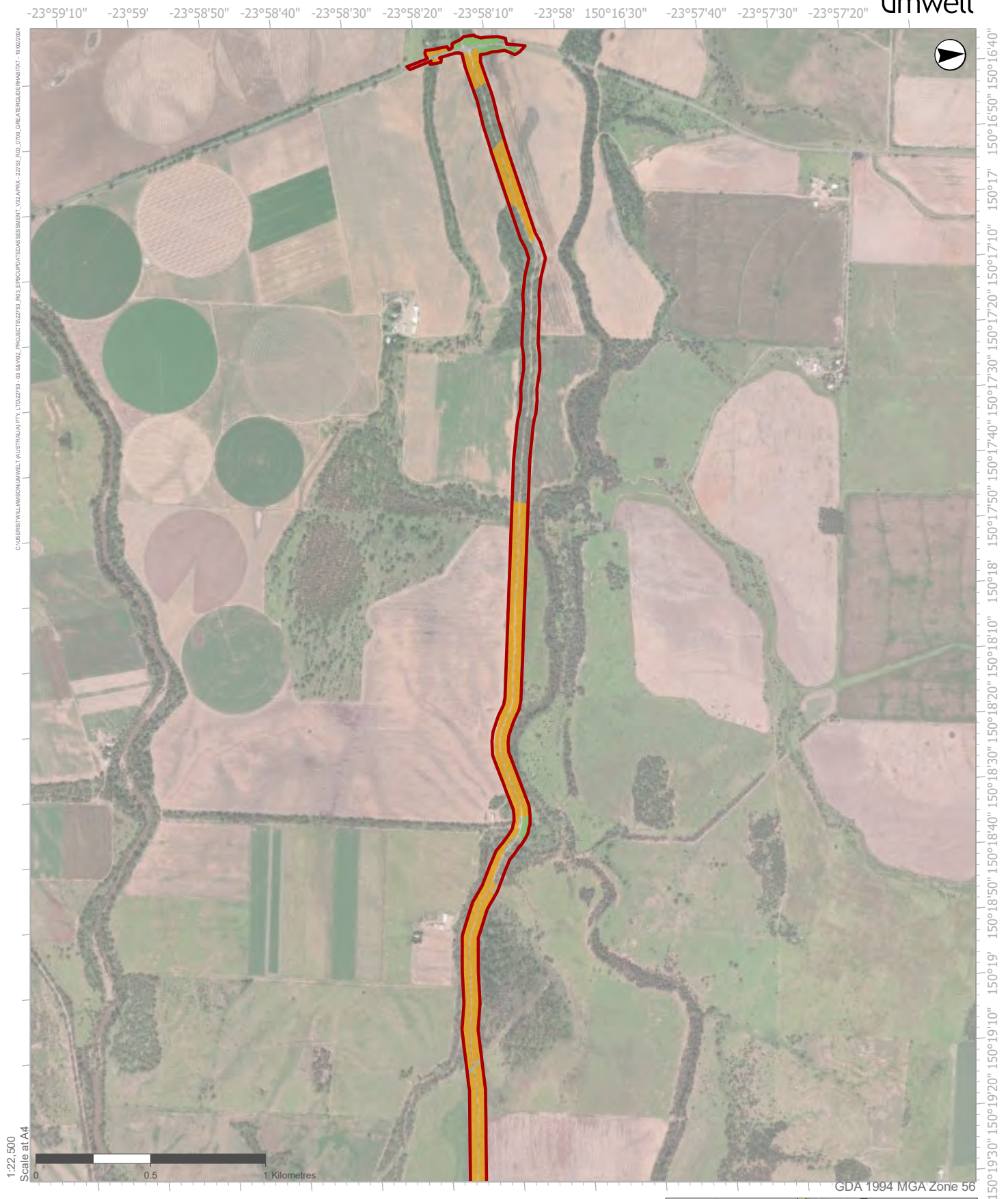


FIGURE 7.8G
GHOST BAT POTENTIAL HABITAT



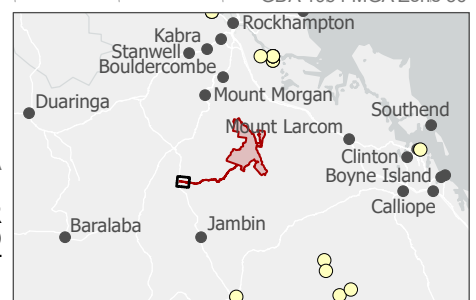
Legend

- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- ▭ Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning

FIGURE 7.9A
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





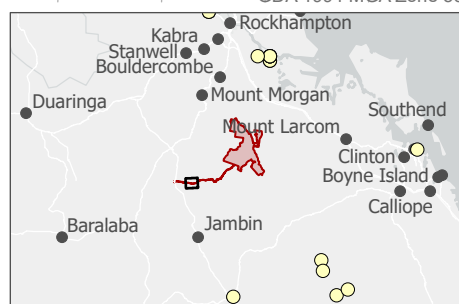
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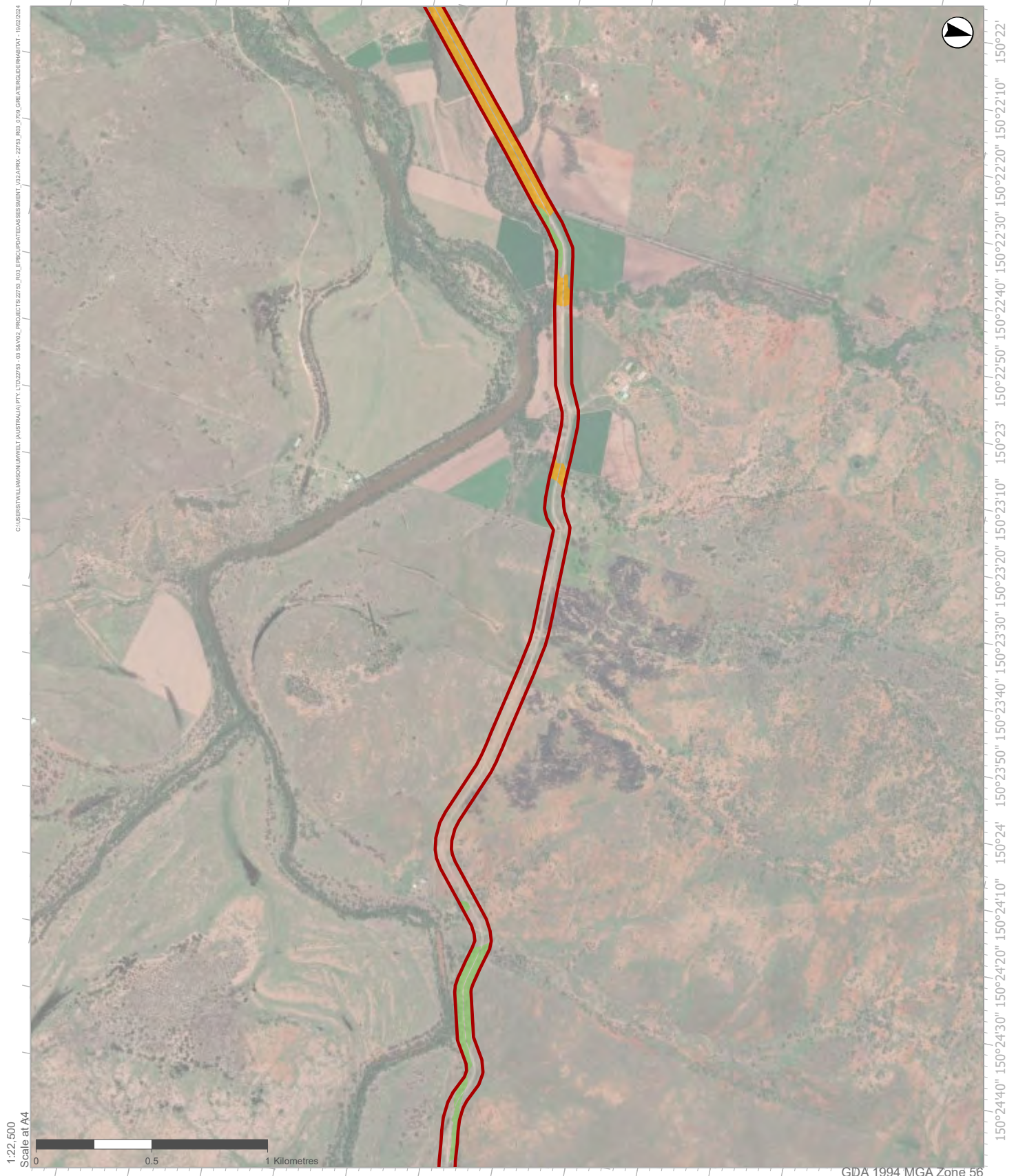
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- ▭ Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning

FIGURE 7.9B
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





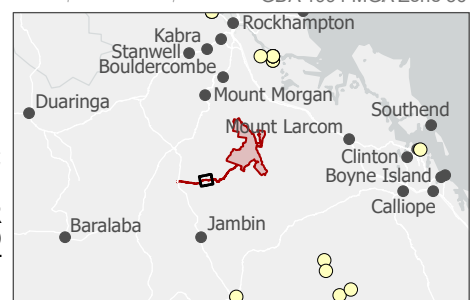
Legend

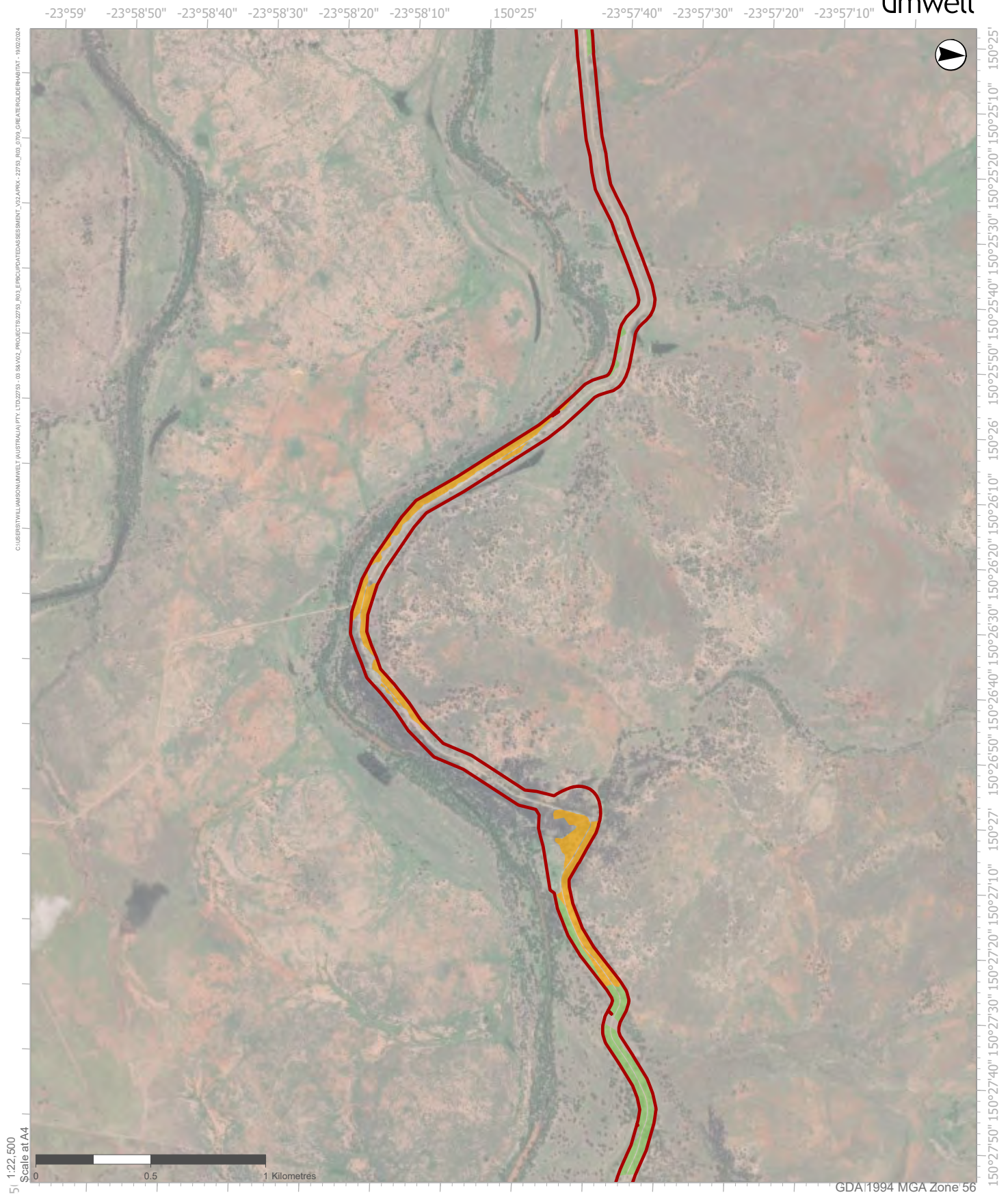
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning

FIGURE 7.9C
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





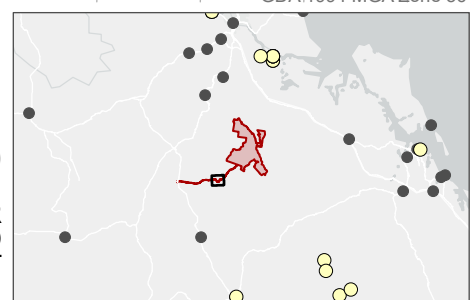
Legend

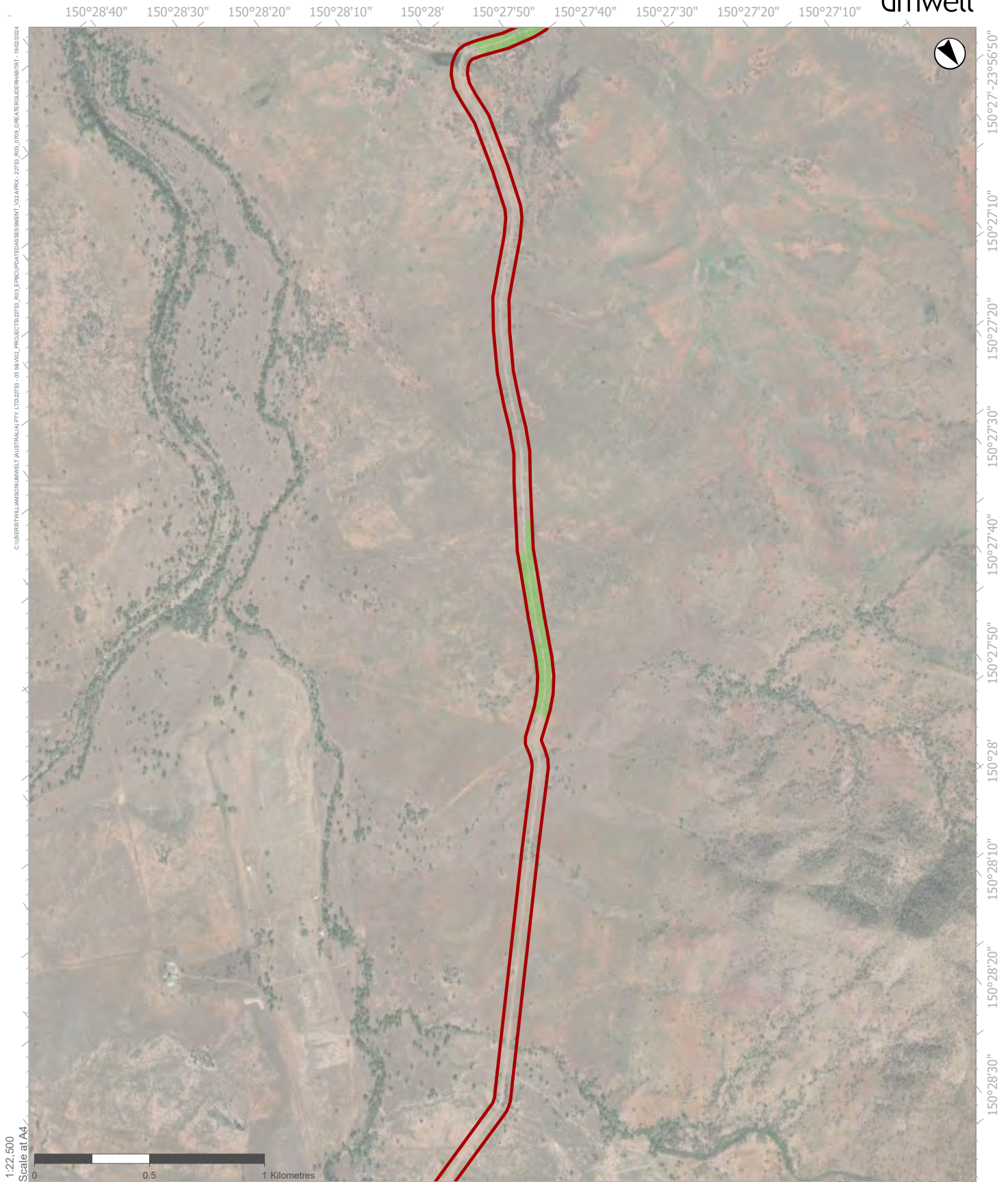
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- ▭ Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning

FIGURE 7.9D
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





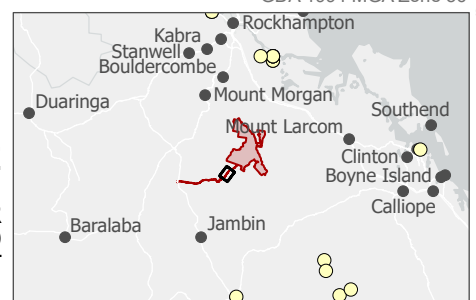
Legend

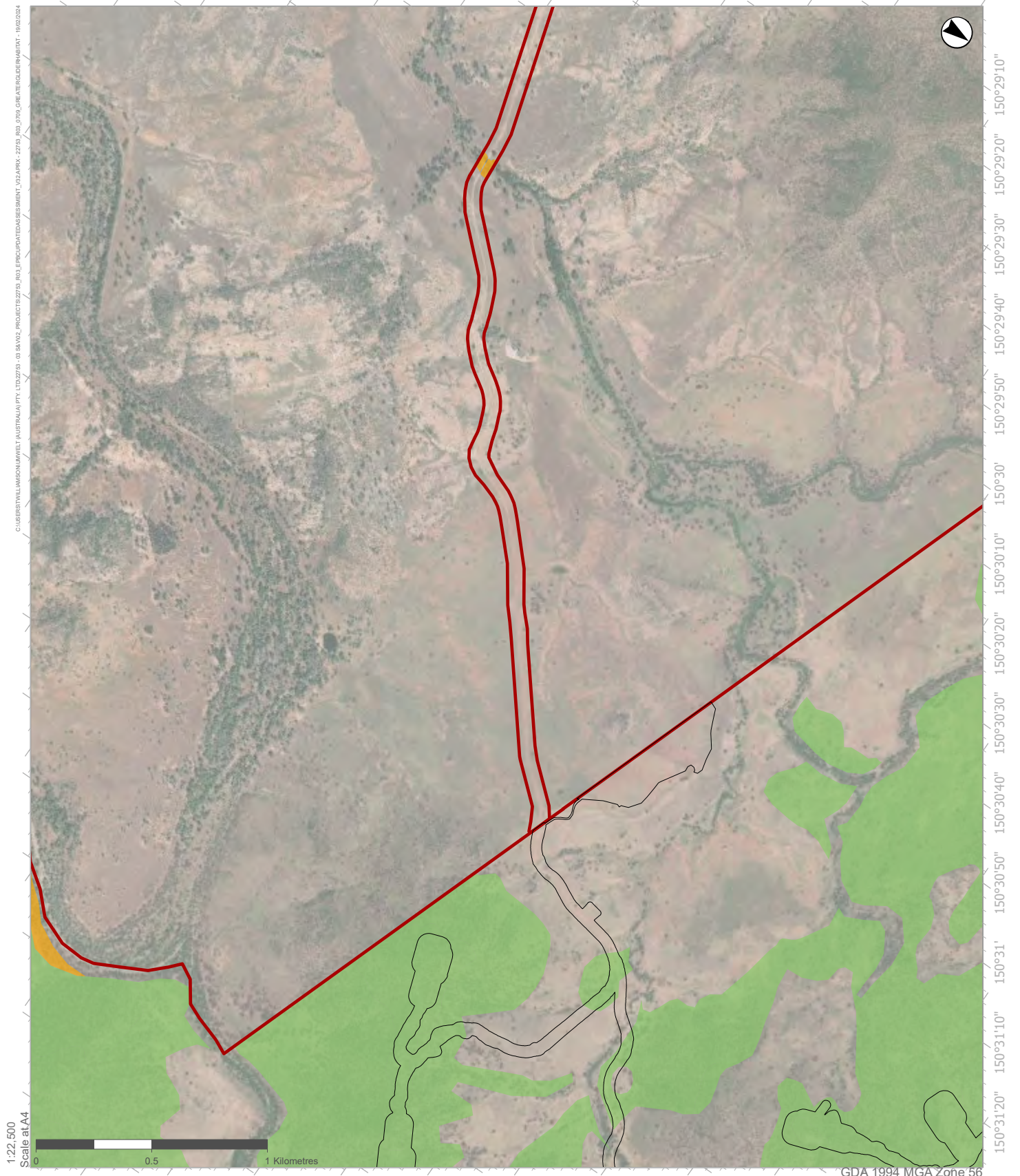
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal

FIGURE 7.9E
GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT





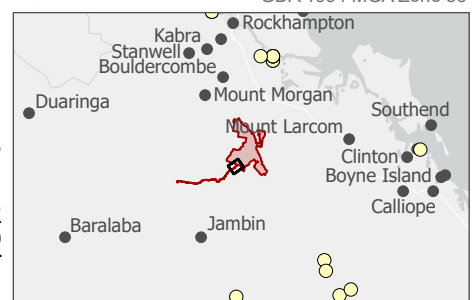
Legend

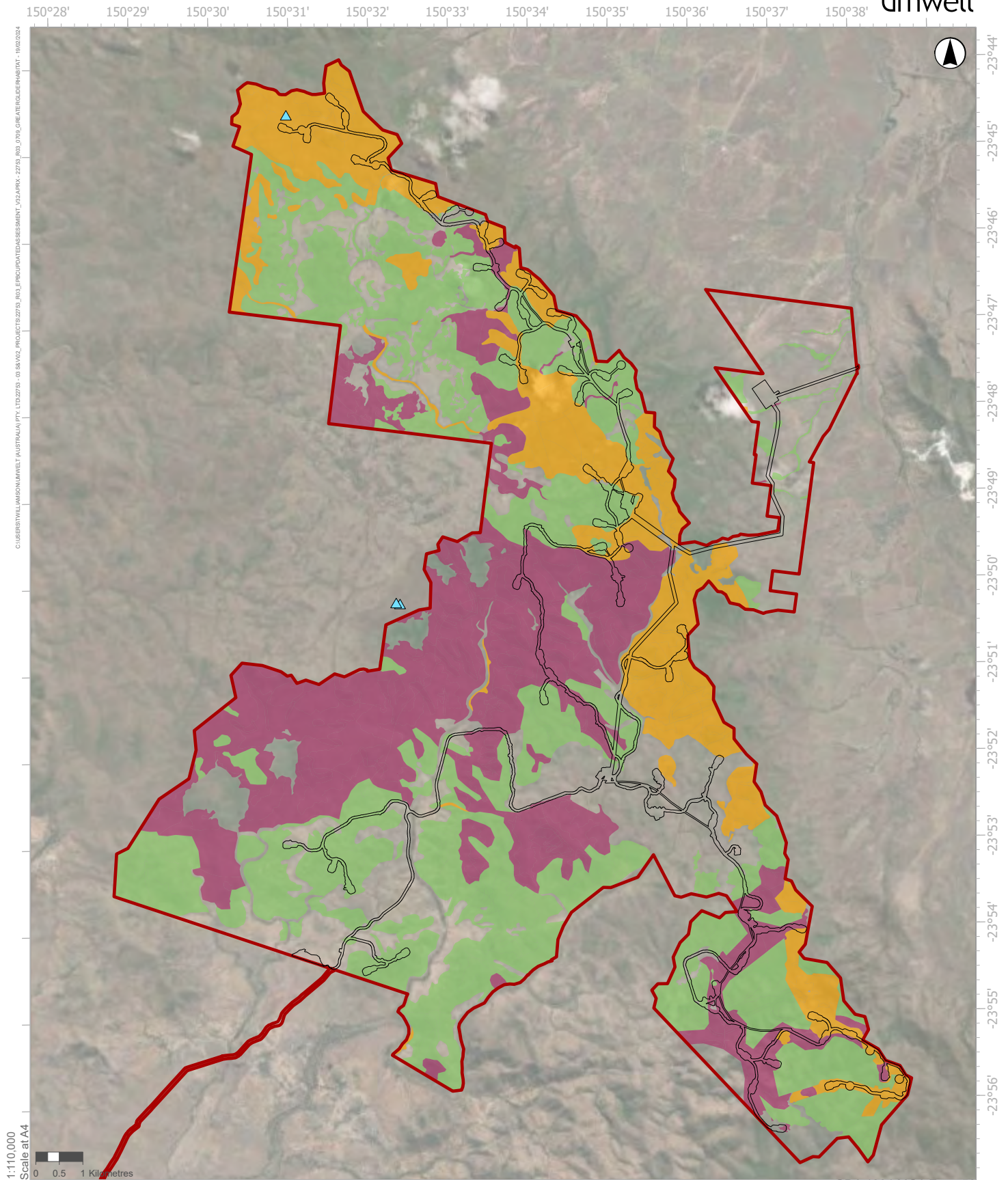
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning

FIGURE 7.9F
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





Legend

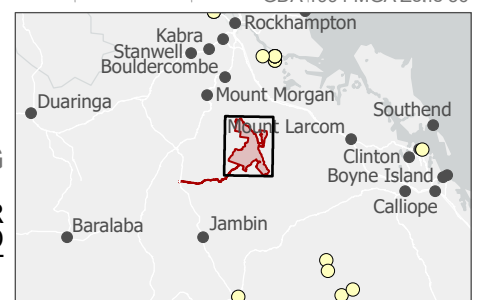
- ▲ Greater Glider (Southern and Central) Record (Umwelt)
- Greater Glider (Southern and Central) Record (ALA)
- Disturbance Footprint
- Study Area

Greater Glider (Southern and Central) Habitat

- Foraging and dispersal
- Likely / current denning
- Potential future / denning

Image Source: ESRI Basemap (2022) Data source: Department of Resources (2022)

FIGURE 7.9G
**GREATER GLIDER
(SOUTHERN AND
CENTRAL) HABITAT**





Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area

Potential Grey-headed Flying-fox Habitat

- Foraging and Dispersal

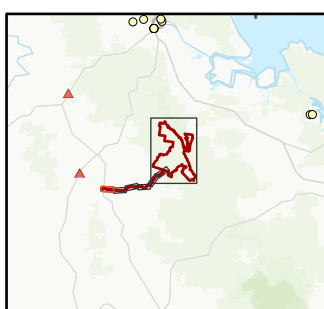


FIGURE 7.10A

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



1:22,500
Scale at A4

GDA 1994 MGA Zone 56

Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area

Potential Grey-headed Flying-fox Habitat

- Foraging and Dispersal

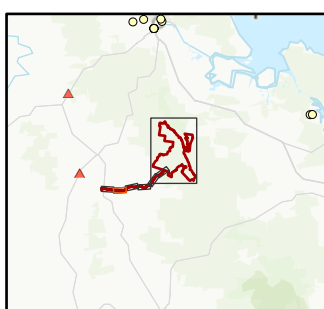


FIGURE 7.10B

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area

Potential Grey-headed Flying-fox Habitat

- Foraging and Dispersal

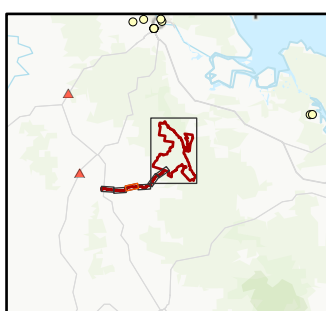


FIGURE 7.10C

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- Disturbance Footprint
- Study Area
- Potential Grey-headed Flying-fox Habitat**
- Foraging and Dispersal

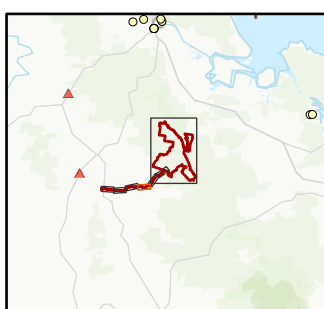


FIGURE 7.10D

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



1:22,500
Scale at A4

0 0.5 1 Kilometres

GDA 1994 MGA Zone 56

Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area
- Potential Grey-headed Flying-fox Habitat**
- Foraging and Dispersal

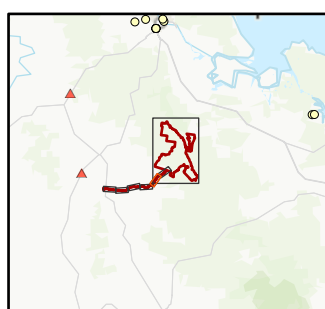
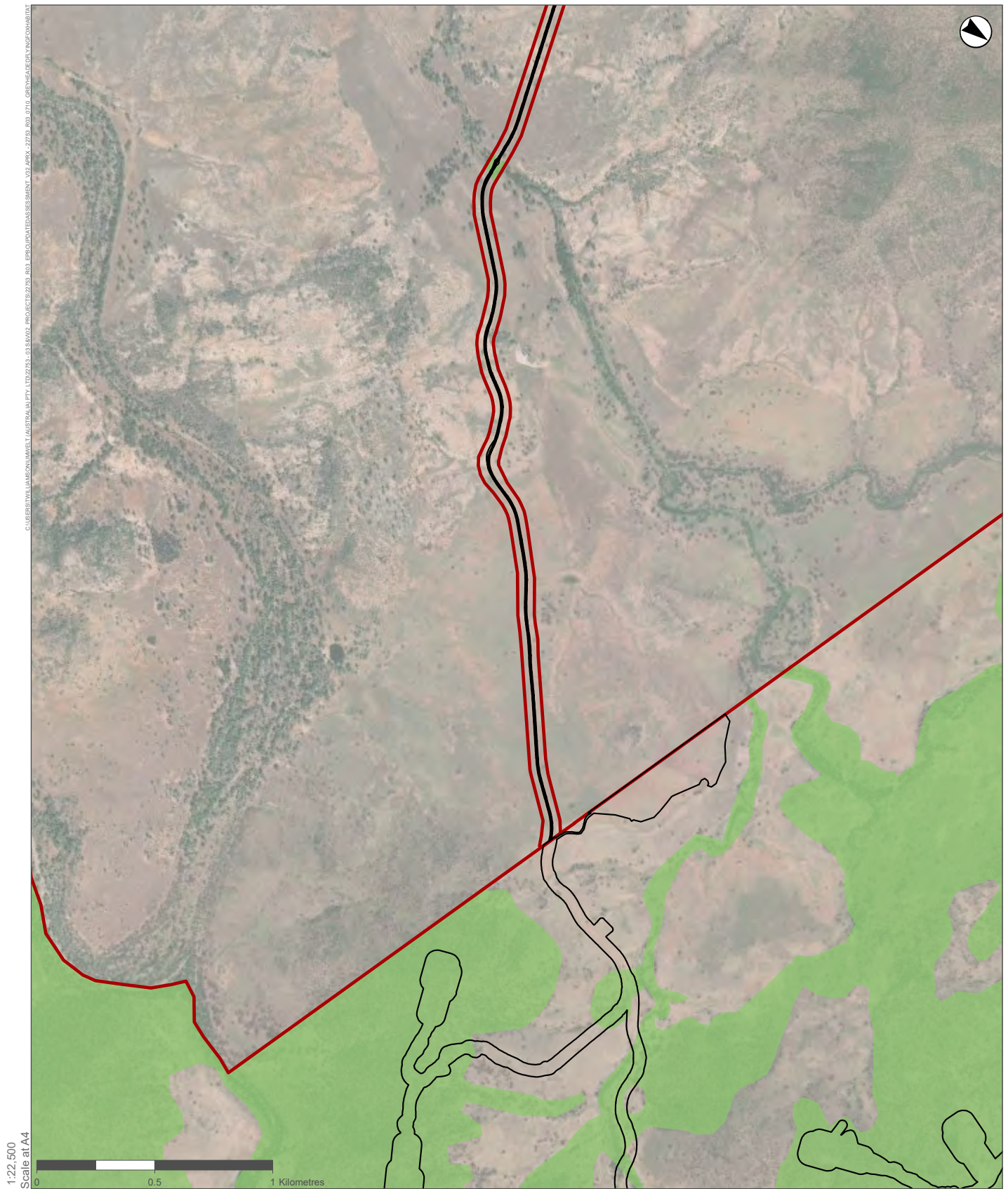


FIGURE 7.10E

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area
- Potential Grey-headed Flying-fox Habitat**
- Foraging and Dispersal

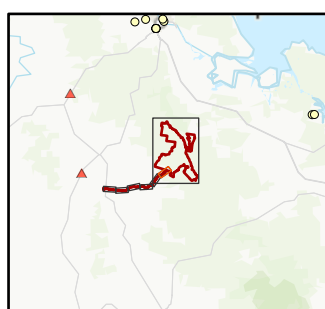
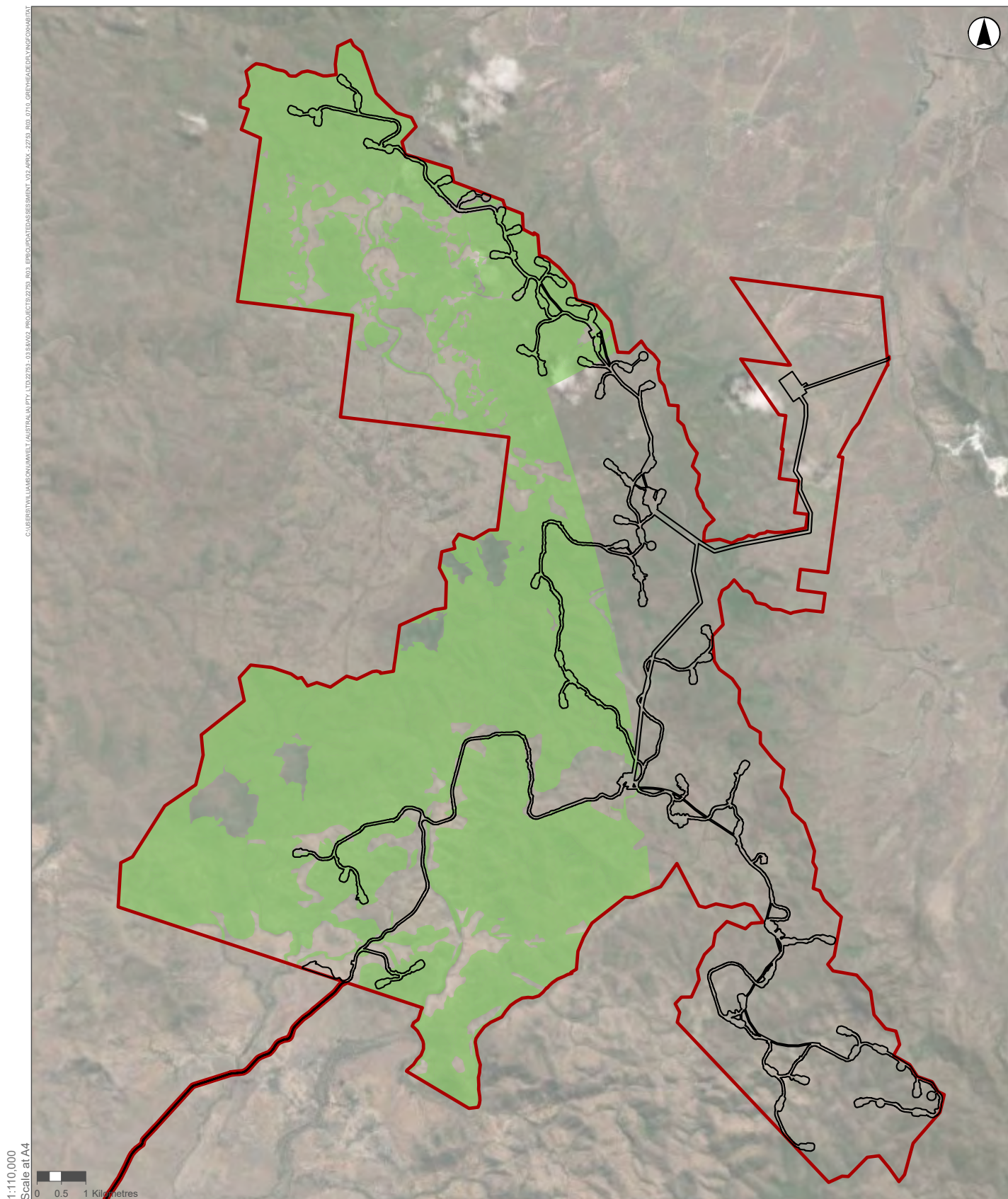


FIGURE 7.10F

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



GDA 1994 MGA Zone 56

Legend

- Grey-headed Flying-fox Record (ALA)
- ▲ Roost (National Flying-fox Monitoring Program)
- ▭ Disturbance Footprint
- ▭ Study Area
- Potential Grey-headed Flying-fox Habitat**
- Foraging and Dispersal

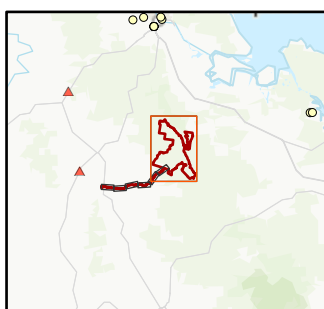


FIGURE 7.10G

**GREY-HEADED FLYING-FOX
POTENTIAL HABITAT**



Legend

- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal

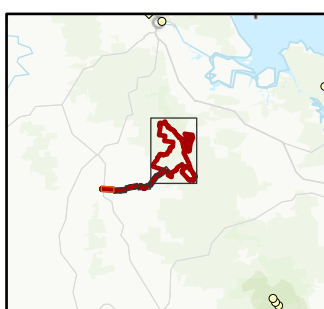


FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



1:22,500
Scale at A4

GDA 1994 MGA Zone 56

Legend

- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal

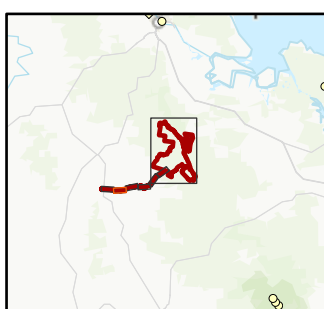


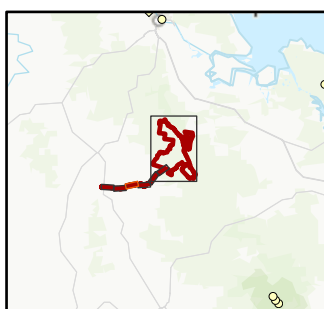
FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



Legend

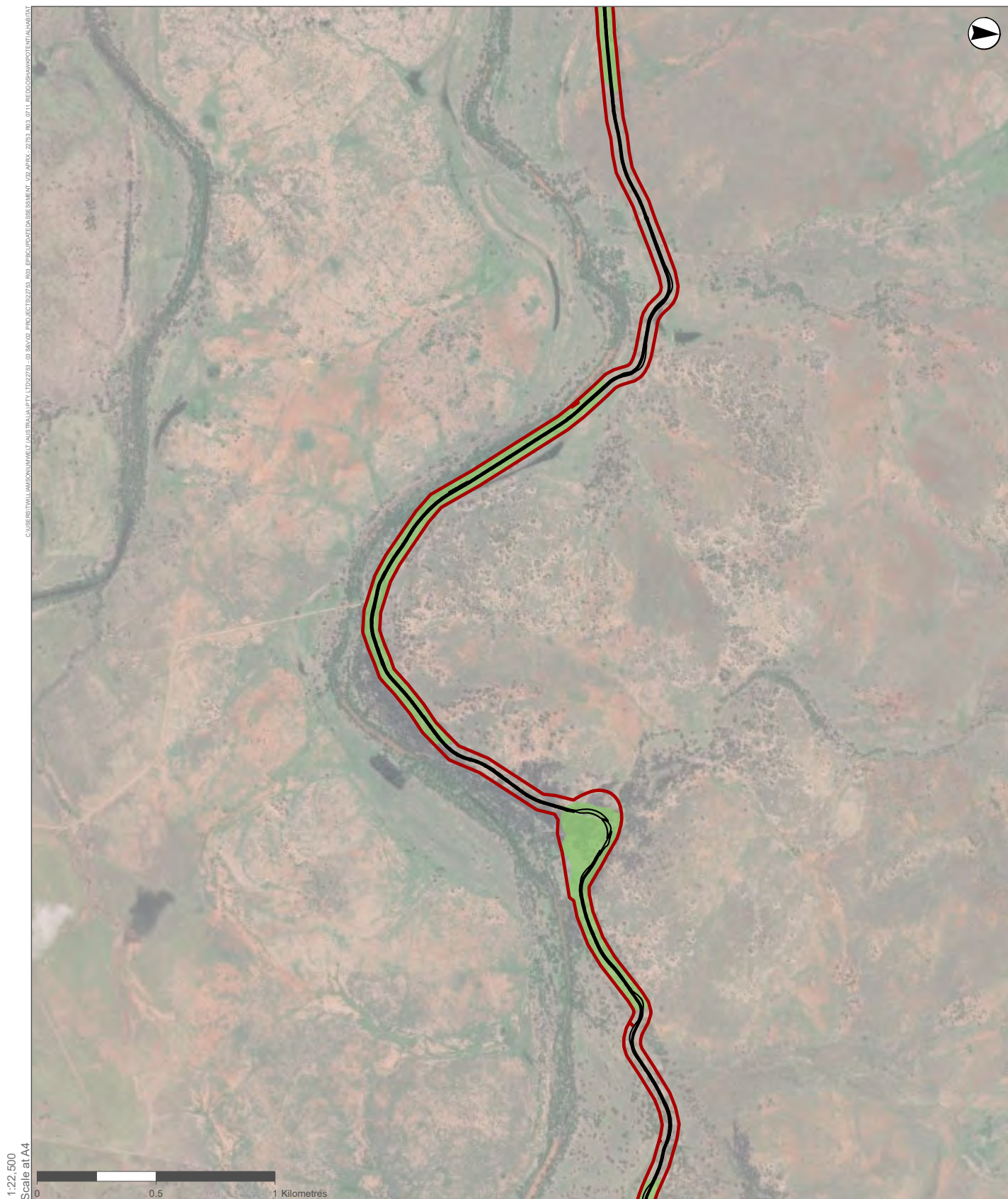
- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal



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FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



GDA 1994 MGA Zone 56

Legend

- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal

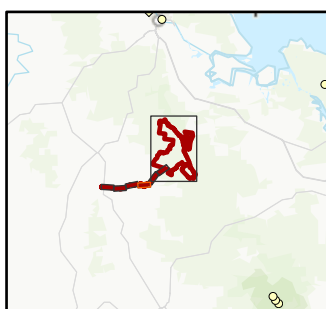
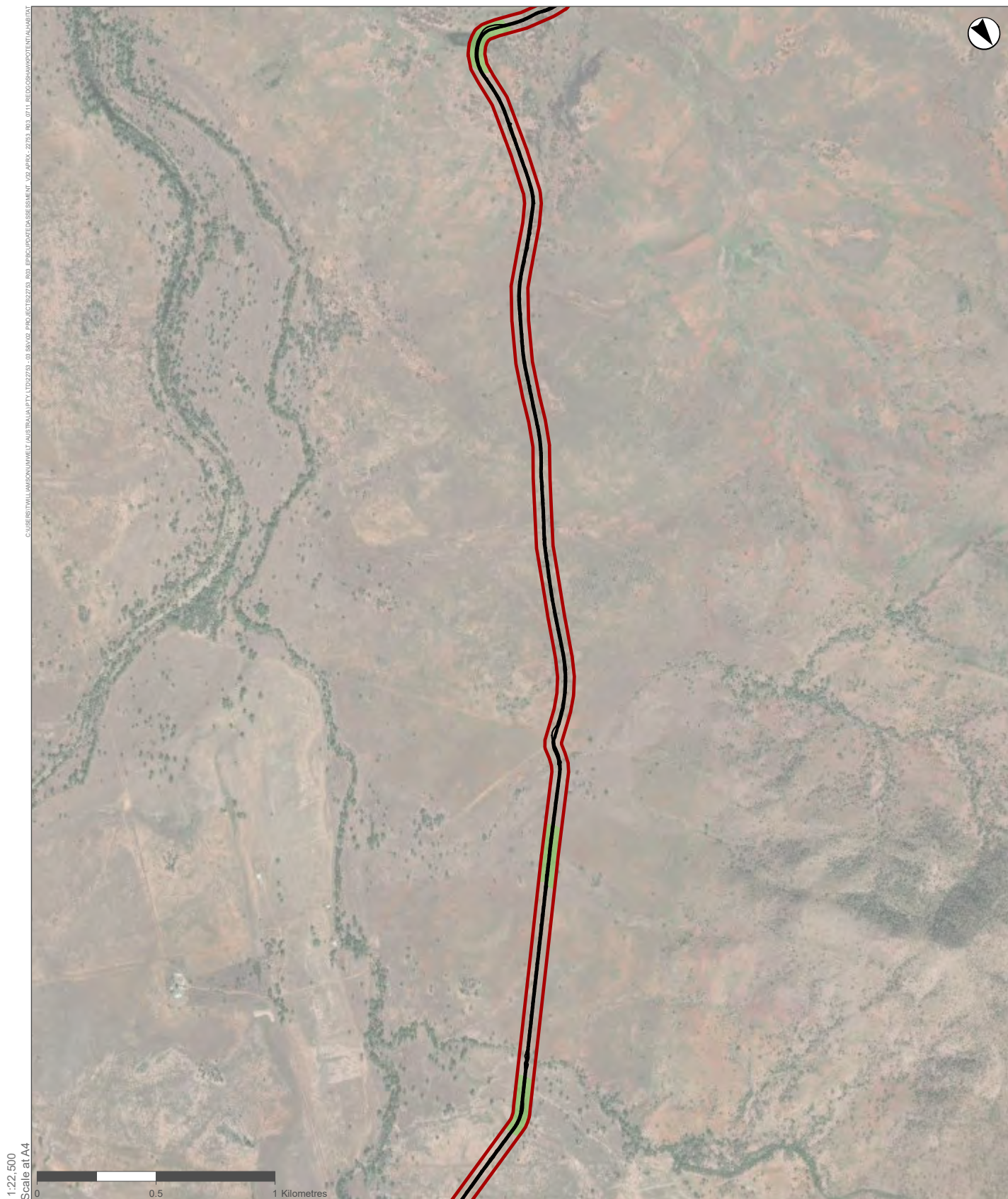


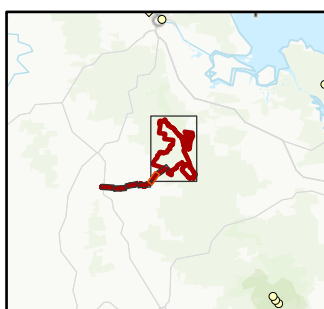
FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



Legend

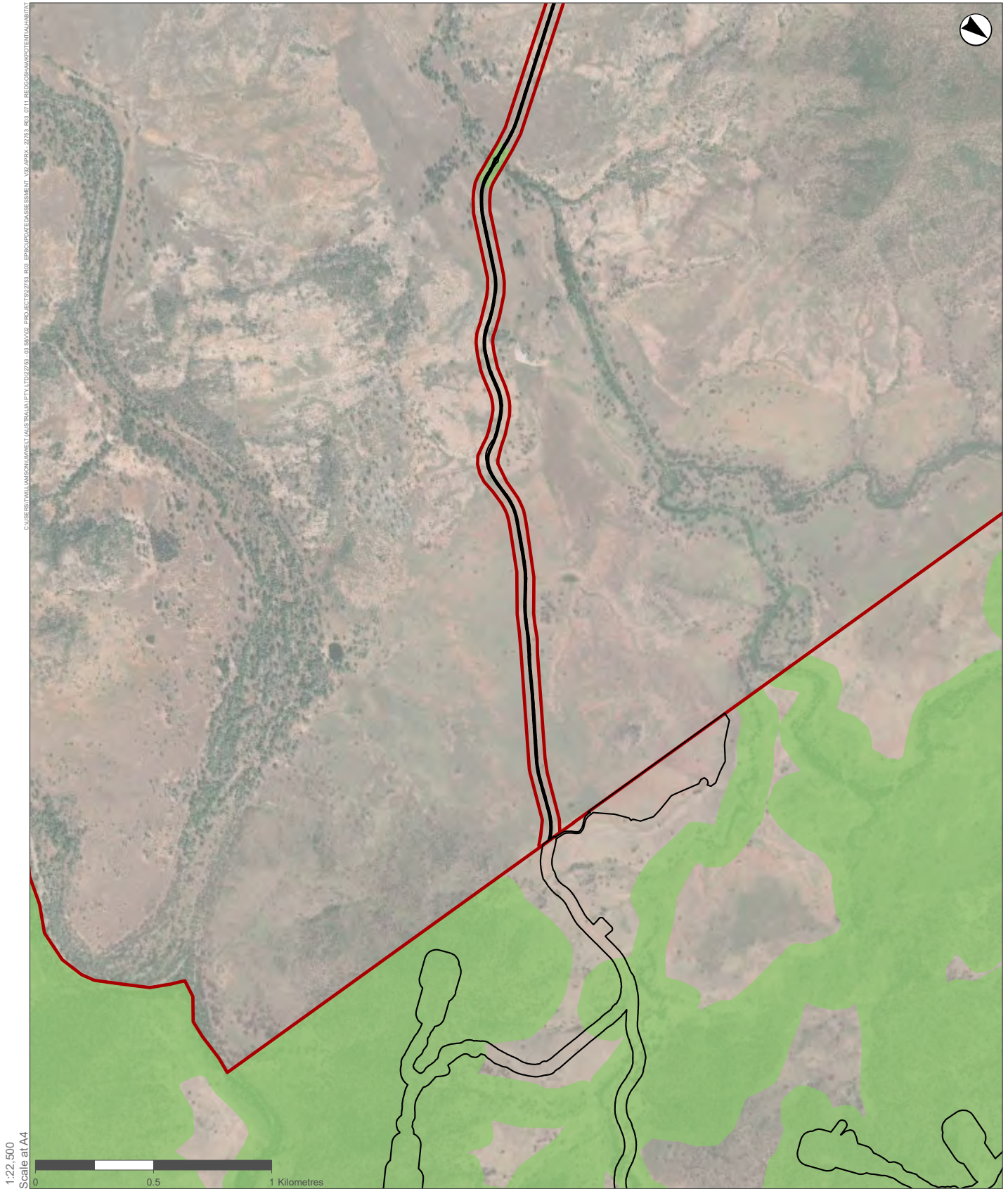
- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal



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FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



Legend

- Red Goshawk Record (ALA)
- Disturbance Footprint
- ▭ Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal

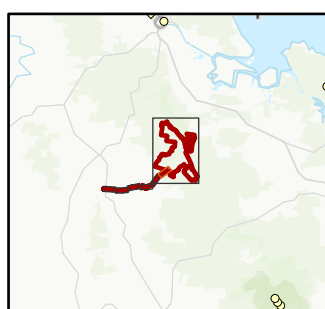
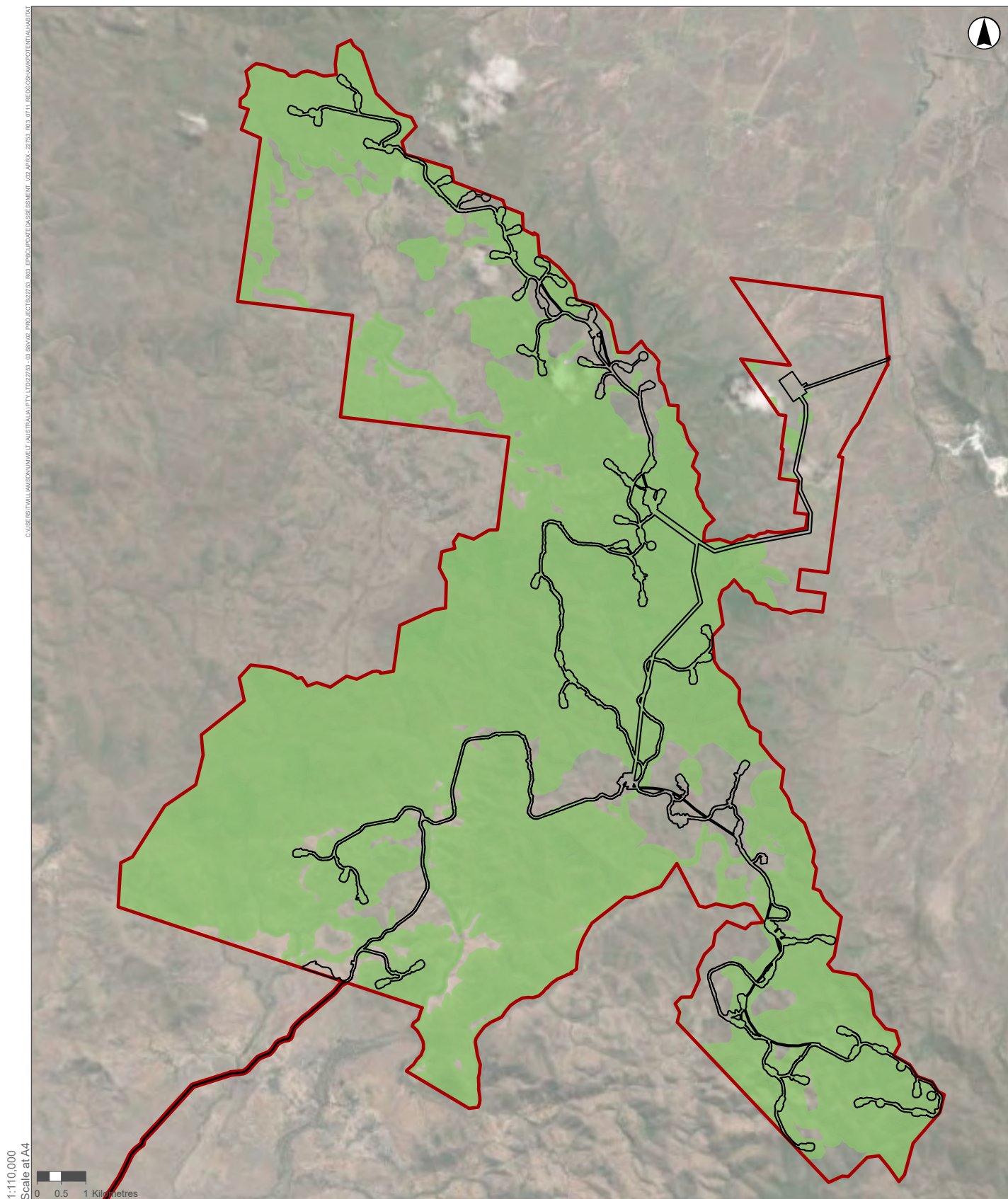


FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



Legend

- Red Goshawk Record (ALA)
- Disturbance Footprint
- Study Area
- Potential Red Goshawk Habitat**
- Marginal Foraging and Dispersal

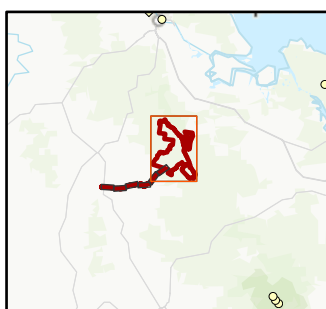
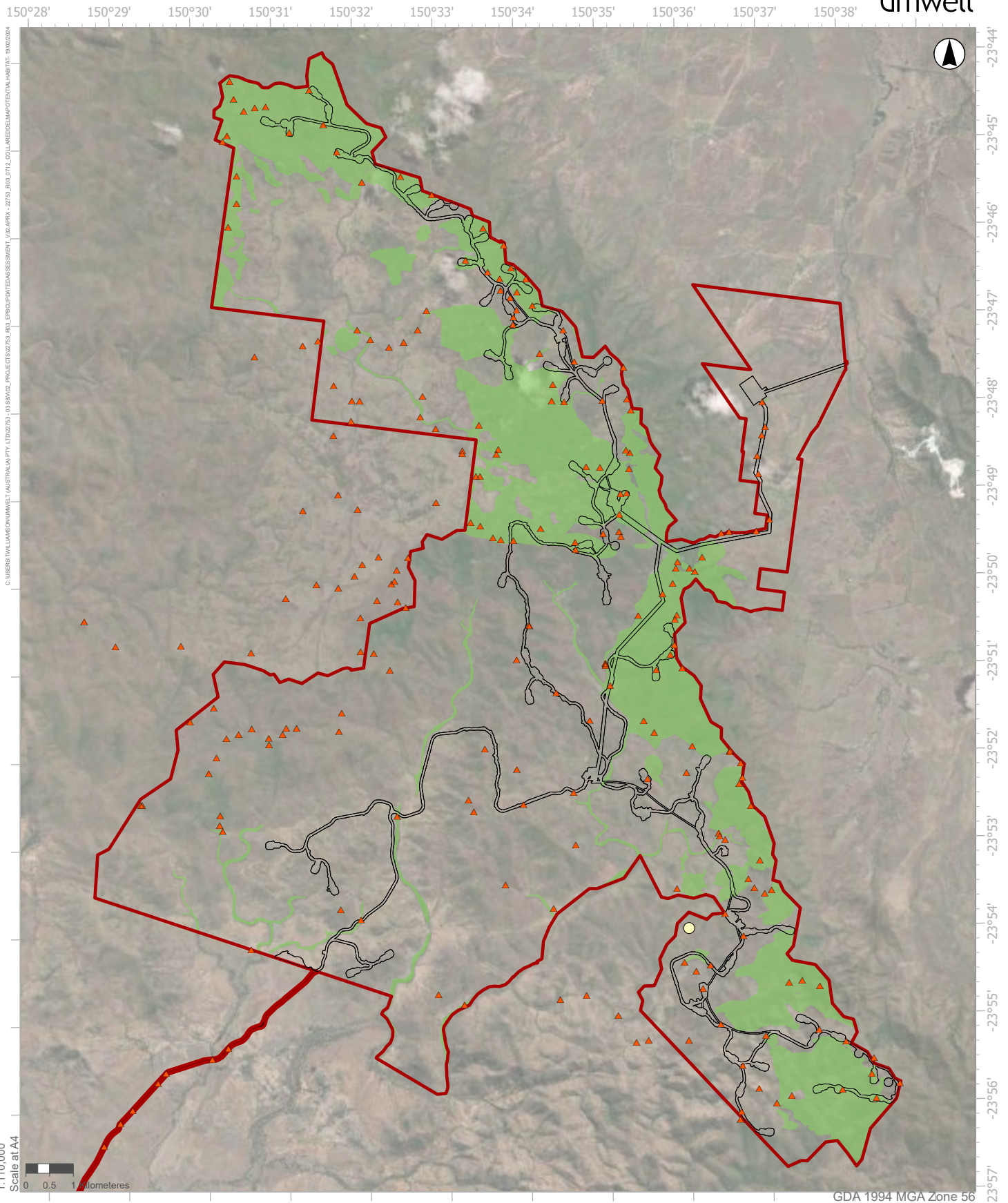


FIGURE 7.11

RED GOSHAWK POTENTIAL HABITAT



Legend

- Collared Delma Record (ALA)
- ▲ Active Diurnal Search Sites
- Disturbance Footprint
- Study Area

Potential Collared Delma Habitat

- Breeding and foraging

FIGURE 7.12
COLLARED DELMA
POTENTIAL HABITAT

