

VicForests logging coupe: 483-501-0035

South Face Road, Mount Baw Baw

Report of a Leadbeater's Possums (*Gymnobelideus leadbeateri*) detected within VicForests scheduled logging coupe 483-501-0035 off South Face Road, Mount Baw Baw.

Abstract

Within VicForests scheduled logging coupe 483-501-0035 a nocturnal survey was undertaken by WOTCH on the evening of the 18th of September 2020 off South Face Road. Throughout this nocturnal survey a critically endangered Leadbeater's Possum (*Gymnobelideus leadbeateri*) (LbP) was identified using a thermal imaging camera and recorded using a hand-held video camera. Video footage and GPS location evidence is being submitted to the Victorian Environment Department (DELWP) upon the submission of this report. This report details the methods, results, discussion, and conclusion following this detection. Among other things, we conclude that VicForests must protect this LbP detection with a 1km Special Protection Zone (SPZ) buffer around the sighting, as recommended by the expert scientists at the Australian National University (ANU).

Introduction

In 2015, under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act), the conservation status of the LbP was transferred from the endangered category to the Critically Endangered category. Within the *Leadbeater's Possum Conservation Advice 2015* document¹ it states that one of the primary threats to the species is "habitat loss and ongoing deterioration of habitat quality", it then states that this continues to occur through a number of causes including "Loss through harvesting and lack of habitat quality in regrowth forest". The Mountain Ash (*Eucalyptus regnans*) forest that the LbP depend upon are listed on the International Union for the Conservation of Nature's (IUCN) Red List of ecosystems as critically endangered². The assessment to determine the critically endangered status indicated that the ecosystem had a ≥92% chance of ecosystem collapse by 2067.

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¹ http://www.environment.gov.au/biodiversity/threatened/species/pubs/273-conservation-advice.pdf

² https://iucnrle.org/assessments/

Method used: Active search

LbP survey (active search): 18/9/2020

Survey technique:

Active search using Thermal Imaging Camera. Spotlighting with red-light torch. Digital camera video footage for recording species observed/identified. Global Positioning System (GPS) for recording location of species detection records.

Method used:

During a nocturnal survey, a small arboreal mammal was detected using the thermal imaging camera. A hand-held red spotlight was used to illuminate the arboreal mammal for visual identification. Using a video recorder under the normal settings and under the 'night shot' mode, footage of the LbP was recorded. Shortly after the LbP individual left the area. The active search survey was concluded shortly after.

Location overview map

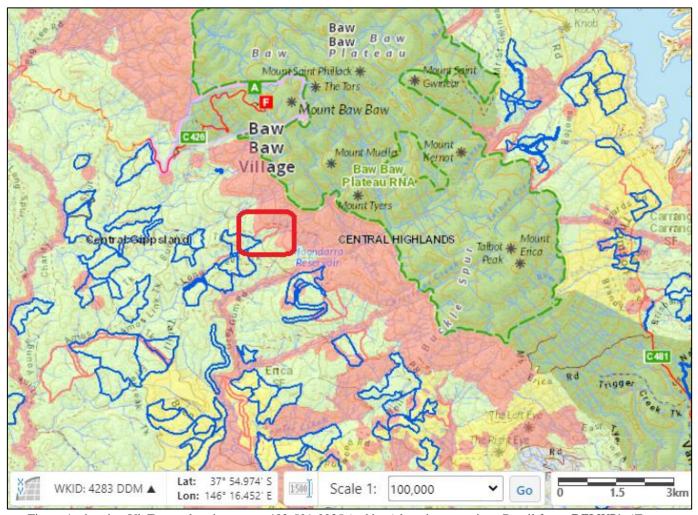


Figure 1. showing VicForests logging coupe 483-501-0035 (red box) location overview. Detail from: DELWP's 'Forest Information Portal' https://maps.ffm.vic.gov.au/fip/index.html?viewer=fip. Site accessed on the 16th of December 2020.

Results

Results 1. Figure 2, still image of the LbP sighting (2a) and the detection location coordinates (2b).



Figure 2a. still image of LbP detected at location coordinates "55 H 0435453 5808192 (UTM/Zone 55H)", captured from Figure 4 (attached video).

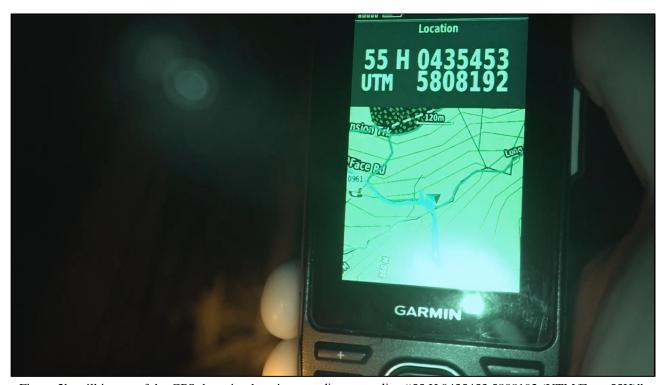


Figure 2b. still image of the GPS detection location coordinates reading "55 H 0435453 5808192 (UTM/Zone 55H)" captured from Figure 4, (attached video).

Results 2. Leadbeater's Possum detection map.

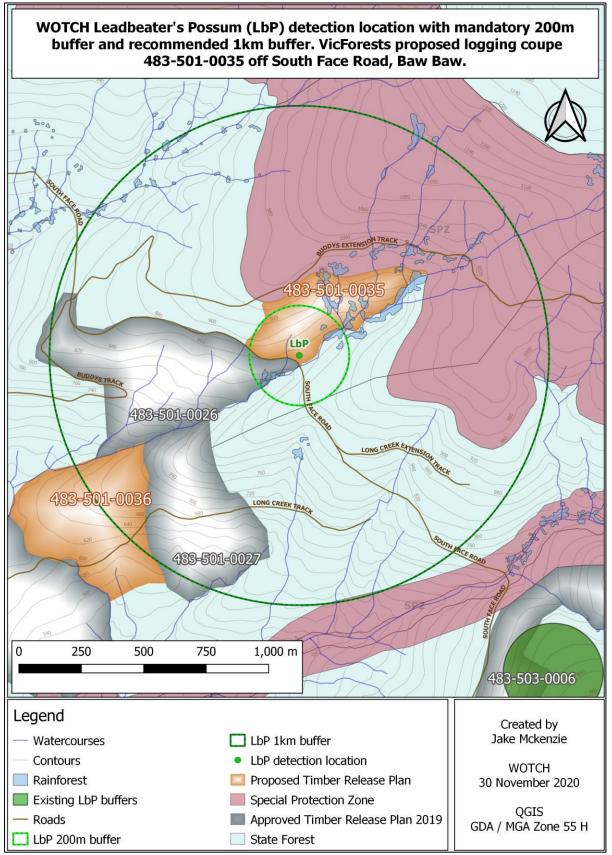


Figure 3. Map of LbP detection (central green dot) with 200m buffer (dashed light green circle) and 1km buffer (dashed dark green circle) at VicForests logging coupe 483-501-0035 off South Face Road.

Discussion

Mandatory prescriptions

It is mandatory for VicForests or any other organization undertaking timber harvesting operations within state forest of Victoria to comply with the *Code of Practice for Timber Production 2014* (the Code). The *Management Standards and Procedures for timber harvesting operations in Victoria's State Forests 2014* (the Management Standards) is an incorporated document to the Code, and the *Planning Standards for timber harvesting operations in Victoria's State forests 2014* (the Planning Standards) is an appendix to the Management Standards. Together these documents outline the mandatory prescriptions that VicForests must comply with when undertaking logging operations throughout Victoria.

The following excerpt from the Planning Standards document under Table 4 on page 39 outlines the Zoning management actions to be taken when LbP individuals are identified within the field.

Excerpt 1

FMA	Common name	Scientific name	Zoning management actions
Central Highlands MAs	Leadbeater' s Possum colony	Gymnobel ideus leadbeate ri	Establish a SPZ of 200 m radius centred on each verified Leadbeater's Possum colony.

VicForests must establish a 200m radius SPZ over each verified LbP colony. SPZs are managed for particular conservation values and the Code states that 'Timber Harvesting operations are excluded from SPZs'.

Recommended prescriptions by expert scientists at the Australian National University

The following prescriptions relevant to the protection of the LbP and their habitat were recommended by David Lindenmayer, David Blair, Lachlan McBurney and Sam Banks from the Australian National University in their paper produced in July 2013; New Restoration Forest Management Prescriptions to conserve Leadbeater's Possum and Rebuild the cover of Ecologically Mature Forest in the Central Highlands of Victoria:³

Prescription 2 – Protection of recorded locations

2.1 All locations where Leadbeater's Possum has been recorded present in the past 15 years will be protected by a 1 km buffer from which logging (both clearfell and thinnings) is excluded.

Prescription 3 – Protection of Hollow-bearing Trees

3.1 Each hollow-bearing tree (whether living or dead) will be surrounded by a buffer of unlogged forest measuring 100 m in radius.

³ Lindenmayer, D. B., Blair, D., McBurney, L., and Banks, S. (2013b). New Restoration Forest Management Prescriptions to Conserve Leadbeater's Possum and Rebuild the Cover of Ecologically Mature Forest in the Central Highlands of Victoria. Fenner School of Environment and Society Report, The Australian National University, Canberra. Version 2. July 2013.

3.3 All trees 100 or more years old should be protected and surrounded by a buffer of unlogged forest measuring 100 m in radius.

Prescription 5 – Protection of Streamside Buffers

5.1.1 Streamside buffers will be widened to a minimum of 100 m either side of a stream, whether permanent or temporary/seasonal.

Prescription 6 - Silvicultural System and Coupe Design

- 6.1.1 Variable retention harvesting methods will replace clearfelling in Victorian montane ash forests from 1st January 2014.
- 6.1.2 Clearfelling methods will not be employed after 31st December 2013.
- 6.4.1 Regeneration burns will be of low intensity and low severity.
- 6.4.2 During regeneration burns, all living and dead hollow-bearing trees will be protected with a 100 m buffer as outlined in Prescription #3 above.

Conclusion

The following conclusions have been made following the detection of a LbP during a nocturnal survey undertaken within VicForests logging coupe 483-501-0035:

- 1. A critically endangered LbP was detected at location coordinates 55 H 0435453 5808192 (UTM/Zone 55H) off South Face Road, Mount Baw Baw.
- 2. The Planning Standards, an appendix document to the Code, states that a 200m radius SPZ must be established around each verified LbP colony (see Excerpt 1, pg 6).
- 3. As recommended by the expert scientists at the Australian National University (ANU), VicForests must protect this LbP detection with a 1km SPZ buffer (see Prescription 2 – Protection of recorded locations, pg 7) around the sighting if the species is to have any chance of persisting into the future.
- 4. Further LbP surveys, using either the active search thermal imaging technique, stag-watching technique, or the remote camera-trap setup technique, are required to adequately identify the presence of other LbP individuals in the area.

