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### Details of Filing

Document Lodged:	Submissions
File Number:	VID1228/2017
File Title:	FRIENDS OF LEADBEATER'S POSSUM INC v VICFORESTS
Registry:	VICTORIA REGISTRY - FEDERAL COURT OF AUSTRALIA



Dated: 7/08/2019 5:46:12 PM AEST

A handwritten signature in blue ink, reading 'Warwick Soden'.

Registrar

### Important Information

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**Annexure D to Applicant's Closing Submissions**

**Assessment of harvest impacts on Leadbeater's Possum in Coupes subject of Leadbeater's Possum pleading**

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
Ada Tree	Ginger Cat 344-509-0009 (logged)	1 bordering coupe, further 2 within 200m, further 2 within 500m, and further 3 within 1km  (Agreed Map CB 7.6C)	Limited impact on Leadbeater's Possum, known colonies of possum protected in SPZ with retained habitat providing suitable habitat and corridors to enable likely movement of Leadbeater's Possum.	▲ □	<p>Mapped by VicForests as predominantly 1939 Ash regrowth with some Mixed Species in the gullies. Site inspection showed this to be appropriate for most areas inspected on the ground.</p> <p>Dead stags were unusually persistent in the general locality providing suitable habitat for Leadbeaters Possum where patches of Acacia dealbata were locally abundant in the understorey.</p> <p>No habitat trees have been retained for habitat tree recruitment in Ginger Cat or Blue Vein (see Figure). Ginger Cat is about 5 ha net and under the Code should have 20 habitat trees instead of none. (Smith (1) 4.2.1 p74)</p> <p>0 habitat trees per ha, CB 4.2.1 p106</p>	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	Blue Vein 348-506-0003 (logged)	2 in coupe & further 6 within 200m  (Agreed Map CB 7.6C)	Limited impact on LB	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat; modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [60])	Mapped by VicForests as predominantly 1939 Ash regrowth with some Mixed Species in the gullies. Site inspection showed this to be appropriate for most areas inspected on the ground, but examination of aerial photographs indicated presence of extensive uneven-aged old growth mainly in the gullies on Blue Cat and minor patches on Blue Vein, mostly in the general area mapped as Mixed Species. These areas are likely to be Critical and Important habitat for the Greater Glider and should be retained and protected to prevent a significant impact.  Dead stags were unusually persistent in the general locality providing suitable habitat for Leadbeaters Possum where patches of Acacia dealbata were locally abundant in the understorey. (Smith (1) 4.2.1 p74)  4 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short or long-term due to the absence of areas with sufficient HBTs.
	Blue Cat	1 within coupe, further 2	Likely impact on species will be limited.	Likely to have had and will continue to have a significant impact (as will contribute to a	As Above. Aerial photography suggests that uneven-aged old growth mixed species occurs in	Harvesting in this coupe would be unlikely to have a

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	344-509-0007 (scheduled)	bordering coupe, further 3 within 200m, further 4 within 500m, further 5 within a km  (Agreed Map 7.6C)		long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [72])	several large patches occupying about 25% of Blue Cat. This Critical and Important habitat for the Greater Glider (and Leadbeater's Possum) can only be reliably identified by pre-logging survey. (Smith (1) 4.2.1 p74) 2 habitat trees per ha, CB 4.2.1 p106	direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
Ada River	Johnny 348-518-0004 (scheduled)	1 bordering coupe, 1 within 50m, further 2 within 500m, further 3 within a km (Agreed Map 7.5C)	Limited impact expected because any Zone 1A habitat will be retained and LBP SPZs protecting known colonies.	▲ □	A mixture of Mixed Species and Ash uneven aged old growth 12 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
	Turducken 348-519-0008 (scheduled)	1 within coupe, further 1 within 500m, further 2 within a km (Agreed Map 7.5C)	Limited impact expected because any Zone 1A habitat will be retained and LBP SPZs protecting known colonies. Retained forest, SPZs and modelled	▲ □	A mixture of Mixed Species and Ash uneven aged old growth 16 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

Coupe group	Coupe	LbP detections <sup>i</sup>	Davey (First Report)	Woinarski	Smith observations regarding Leadbeater's Possum habitat	Baker
			exclusions should enable LBP movement.			
Baw Baw	Diving Spur 483-505-0018 (scheduled)	1 in coupe and further 2 within 1 km (Agreed Map 7.7C)	Limited impact expected as coupe is a mixed species type and an LBP SPZ protects the known LBP colony	▲ □	Mapped as more than about 50% old growth (pre 1860) Mixed Species with the remainder 1939 Mixed Species (Diving Spur) ... Site inspection shows that the many living senescent trees in this area have broken tops which may have been damaged by wind throw, possibly making the canopy height more uniform than normal in old growth. CB 4.2.1 p76 Uneven aged old growth Ash (depicted in photograph) CB 4.2.1 p77 12 habitat trees per hectare, CB 4.2.1 p106	Harvesting in this coupe could impact on Leadbeater's Possum habitat over the short-term if they are using the HBTs estimated to be in the coupe.
Beech Creek	Waves 300-524-0002 (scheduled)	3 within coupe, further 1 bordering coupe, further 1 within 200m, further 2 within	The impact on the local population is likely to be limited.	▲ □	VicForests map these coupes as a mix of 1939 and pre-1900 Ash Forests. Site inspection occurred only in the 1939 portion of the coupes and was consistent with mapping. Aerial photography is consistent with old growth forest mapping.	Harvesting in this coupe could have an impact on Leadbeater's Possum habitat over the short- or long-term due to the presence of these areas of high-quality habitat

Coupe group	Coupe	LbP detections <sup>i</sup>	Davey (First Report)	Woinarski	Smith observations regarding Leadbeater's Possum habitat	Baker
		500m, further 7 within a km (Agreed Map 7.8C)			Pre1900 (old growth) Ash forest is a very rare and critical resource in the Central Highlands. It is estimated that prior to European settlement, 30-60% of the Mountain Ash forests of the Central Highlands were multi-aged or old growth (Lindenmayer <i>et al.</i> 2013b). However, due to fires and past management, <2% is currently estimated to be old growth or multi-aged forest (Lindenmayer <i>et al.</i> 2015). 0 habitat trees per ha, CB 4.2.1 p106	
	Surfing 3000-539-0001 (scheduled)	2 bordering coupes, further 2 within 200m, further 2 within 500m, further 2 within a km. (Agreed Map 7.8C)	Harvesting is limited to nine hectares and any impacts on LBP would be limited	▲ □	As above. 2 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
Coles Creek	Home & Away 297-538-0004	3 bordering coupe and further 1 within a km (Agreed Map 7.11C)	The impact on the local population is likely to be limited.	▲ □	Mapping shows 1939 Ash Forest. Site inspection showed advanced Ash Regrowth ... but no trees with hollows were observed in the	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short-

Coupe group	Coupe	LbP detections <sup>i</sup>	Davey (First Report)	Woinarski	Smith observations regarding Leadbeater's Possum habitat	Baker
	(scheduled)				inspection transect. Examination of aerial Photographs (map 11A) indicated the likely presence of scattered small patches of irregular canopy consistent with old growth throughout the coupe ... Aerial photographs show that all regrowth ash on the coupe is within 100m of patches of potential old growth.  0 habitat trees per ha, CB 4.2.1 p106	or long-term due to the absence of areas with sufficient HBTs. However, any forestry operations should consider the proximate areas of high-quality habitat.
Matlock & The Triangle	Professor Xavier 317-508-0008 (logged)	4 in coupe and 2 within 200m of coupe boundary  (Agreed Map CB 7.14C)	Any impact would be negligible.	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat; modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [68])		Harvesting in this coupe, particularly southwestern part with two hectares of high-quality Leadbeater's Possum habitat, could have impacted on Leadbeater's Possum habitat over the short-term due to the presence of some high-quality habitat and known records of Leadbeater's Possum near the plot.
	Swing High	2 within 50m and further 1 within 200m	Limited impact on LBP	▲ □	Mapped as predominantly 1939 Ash regrowth forest with about 20% pre1860 forest. Site inspection and aerial photography	Harvesting in this coupe would be unlikely to have a direct impact on

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	317-508-0010 (logged)	(Agreed Map CB 7.14C)			<p>indicates that the forest was substantially uneven aged old growth before harvesting.</p> <p>Pre1900 (old growth) Ash forest is a very rare and critical resource in the Central Highlands (&lt;2% is currently estimated to be old growth or multi-aged forest). (Smith (1) 4.2.1 p87)</p> <p>1 habitat trees per ha, CB 4.2.1 p106</p>	Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs
Mount Bride	Louisiana 345-526-0003 (scheduled)	2 within 200m, further 2 within 500m, further 4 within a km. (Agreed Map 7.15C)	Limited impact expected because any Zone 1A habitat will be retained and LBP SPZs protecting known colonies.	□	<p>Site inspection showed the site to be advanced regrowth (probably 1939) Ash. Aerial photographs showed an irregular canopy associated with old growth but ground inspection showed that irregularity was due to patchy regeneration with large patches of <i>Acacia dealbata</i> (excellent for Leadbeater's Possum) and "open grown" ash trees with unusually large crowns and stem diameters resulting from reduced competition. A number of these larger than usual open grown 79 year old Ash trees had developed hollows (fissures, dead crowns see Mount Bride photo below) at an unusually young age (normal</p>	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.



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					age for hollow development is 120 years). (Smith (1) 4.2.1 p88) 3 habitat trees per ha, CB 4.2.1 p106	
	Bourbon Street 345-526-0004 (scheduled)	1 within 200m, further further 5 within a km. (Agreed Map 7.15C)	Limited impact expected because any Zone 1A habitat will be retained and LBP SPZs protecting known colonies.	☐	As above. (Smith (1) 4.2.1 p88) 3 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
Nolan's Gully	Goliath 297-505-00001 (scheduled)	1 within 500m (Agreed Map 7.18C)	Forest harvest impacts should be limited.	☐	These coupes are mapped as Ash Forest with small amounts (about 20%) Mixed Species in all but Shrek. All of the coupes have some pre1860 Ash Forest which is extremely rare and critically important to Greater Gliders and Leadbeater's Possum. Most of Shrek (about 80%), about 50% of Junior and a small amount (about 15%) of Infant and Goliath is mapped as Old Growth.  Site inspections showed habitat in areas mapped as regrowth in Goliath and Infant to have a low density scattered living large old trees (2/ha) in the overstorey. This habitat can be classified as	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

Coupe group	Coupe	LbP detections <sup>i</sup>	Davey (First Report)	Woinarski	Smith observations regarding Leadbeater's Possum habitat	Baker
					<p>uneven-aged old growth Ash which is very rare and critically important as a fire and old growth refuge for both the Greater Glider and Leadbeaters possum. Suitable habitat for both species was evident on all coupes.</p> <p>It is apparent from mapping, aerial photography and site inspections that much of the area surrounding and including the Nolan's Gully coupes, and forests to the east, are part of a very substantial patch of rare and critically important uneven-aged and old growth Ash Forest. Its sheltered gully location is likely to confer high wildfire protection refuge status. Given the rarity of this forest type, and the need to increase the level of its protection from the current 2% or less to around 33%, any logging in any of these coupes (or in any other similar coupes in surrounding areas) would have to be considered entirely contrary to... requirements for protection of Leadbeater's Possum. (Smith (1) 4.2.1 p93) 2 habitat trees per ha, CB 4.2.1 p106</p>	

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	Shrek 297-509-0001 (scheduled)	1 within 50m (Agreed Map 7.18C)	The impact on the local population is likely to be limited.	▲ □	As above. (First Smith, 4.2.1 p93) 5 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
	Infant 297-509-0002 (scheduled)	1 within 100m (Agreed Map 7.18C)	Limited impact with habitat trees in harvested area promoting future recolonization of harvested area	▲ □	As above. (First Smith, 4.2.1 p93) 2 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe could have an impact on Leadbeater's Possum habitat over the short-term if the area of high-density potential HBTs was being used by either species for denning.
	Junior 297-511-0002 (scheduled)	1 within a kilometre (Agreed Map 7.18C)	The impact on the local population is likely to be limited.	□	As above. (First Smith, 4.2.1 p93) 0 habitat trees per ha, CB 4.2.1 p106	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
New Turkey Spur	Greendale 348-515-0004	1 within 50m, further 2 within 500m,	Any impact would be small.	It is challenging to evaluate the significance of the recent harvesting activity at this coupe, but it is likely that has resulted in at least short-term		Could not analyse.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	(logged)	further 3 within 1km  (Agreed Map CB 7.17C)		diminution of the area of critical habitat for Leadbeater's possum, and is likely to contribute further to long-term decrease in its population size and interfere with its recovery (First Woinarski [61])		
	Gallipoli 348-504-0005 (scheduled)	1 within 50m and further 3 within a km (Agreed Map 7.17C)	Limited impact expected because any Zone 1A habitat will be retained and LBP SPZ protecting known colony.	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [73])	Mapped as 1939 regrowth Ash. Site inspection showed the site to have an exceptional abundance of large dead trees with hollows (stags) (11/ha) and at least one living old growth ash with hollows (see photo). Stags in regrowth Ash are also critically important to Leadbeater's Possum which is known to favour this type of habitat tree.  Dead stags provide a critical habitat tree resource in regrowth Ash forests. Due to the scarcity of habitat trees in such forests all remaining dead stags in 40+ year old regrowth forests should be protected by unlogged buffers of at least 50m radius and fire barriers to prevent damage during harvesting and post logging burning operations. (Smith (1) 4.2.1 p92)	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

Coupe group	Coupe	LbP detections <sup>i</sup>	Davey (First Report)	Woinarski	Smith observations regarding Leadbeater's Possum habitat	Baker
					12 habitat trees per ha, CB 4.2.1 p106	
Noojee	Skerry's Reach 462-504-0004 (logged)	2 bordering coupe and further 1 within 200m (THEZ partly logged at the same location as the damaged mature Tree Geebungs labelled DDD03PA, DDD05PA, DDD06 and TTT03)  (Agreed Map 7.19C; Post-harvest map 8.17C; Map of Geebung at CB 2.3.79)	Limited impact on LBP	▲ □	Site inspection revealed a mixture of Ash and Mixed species with some scattered living old growth trees and dead stags, particularly on Epiphanie. On Skerrys and Loch Stock the habitat was structurally dense in patches highly suitable for Leadbeater's Possum.  Before logging this coupe was structurally complex with scattered old growth, two ages of regrowth and dead stags. This type of habitat supported both Greater Glider's and Leadbeaters Possums and had long term refuge conservation potential. (Smith (1), 4.2.1 p95)  1 habitat tree per ha, CB 4.2.1 p106	This extends some distance away to the west. Harvesting in this coupe could have an impact on Leadbeater's Possum habitat over the short- or long-term due to the presence of a block of high-quality habitat within the coupe boundary. In addition, forestry operations should consider the broader spatial context of the harvesting given the adjacent area of high-quality habitat for Leadbeater's Possum.
	Loch Stock 462-504-0008 (scheduled)	1 within 200m, further 1 within 500m, further 1	Limited impact expected because coupe is generally a mixed species type.	□	Site inspection revealed a mixture of Ash and Mixed species with some scattered living old growth trees and dead stags, particularly on Epiphanie. On Skerrys and	Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short-

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
		within a km (Agreed Map 7.19C; Post-harvest map 8.17C)			Loch Stock the habitat was structurally dense in patches highly suitable for Leadbeater's Possum. (Smith (1) 4.2.1 p95)  5 habitat trees per ha, CB 4.2.1 p106	or long-term due to the absence of areas with sufficient HBTs, but it should consider the broader spatial context of nearby habitat.
Rubicon	Golden Snitch  288-516-0007  (logged)	2 within 200m  (Agreed Map CB 7.20C)	Limited impact	Challenging to evaluate the significance of the recent harvesting activities for this coupe, but these actions are likely to have resulted in at least short-term diminution of the area of critical habitat for Leadbeater's possum, and are likely to contribute further to long-term decrease in the population size of Leadbeater's possum and interfere with its recovery (First Woinarski, [62])		Could not analyse.
	Hogsmeade  288-516-0006  (logged)	2 within coupe & further 4 within 200m  (Agreed Map CB 7.20C)	Limited impact	Challenging to evaluate the significance of the recent harvesting activities for this coupe, but these actions are likely to have resulted in at least short-term diminution of the area of critical habitat for Leadbeater's possum, and are likely to contribute further to long-term decrease in the population size of		Harvesting in this coupe could impact on Leadbeater's Possum habitat over the short- or long-term due to the presence of a block of high quality habitat along the western edge of the coupe.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
				Leadbeater's possum and interfere with its recovery (First Woinarski, [62])		
	Houston 287-511-0006 (logged)	1 within 500m and further 4 within a kilometre  (Agreed Map CB 7.20C)	Limited impact	Challenging to evaluate the significance of the recent harvesting activities for this coupe, but these actions are likely to have resulted in at least short-term diminution of the area of critical habitat for Leadbeater's possum, and are likely to contribute further to long-term decrease in the population size of Leadbeater's possum and interfere with its recovery (First Woinarski, [62])		Could not analyse.
	Rocketman 287-511-0009 (logged)	2 within 500m and further 3 within a kilometre  (Agreed Map CB 7.20C)	Limited impact	Challenging to evaluate the significance of the recent harvesting activities for this coupe, but these actions are likely to have resulted in at least short-term diminution of the area of critical habitat for Leadbeater's possum, and are likely to contribute further to long-term decrease in the population size of Leadbeater's possum and interfere with its recovery (First Woinarski, [62])		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
Salvage Creek	De Valera 463-504-0009 (logged)	4 within 200m  (Agreed Map CB 7.21C)	Impact will be minor	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat; modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [63])		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs, but should be considered in the broader context of neighbouring high quality habitat.
Starlings Gap	Bullseye 345-503-0005 (logged)	4 within 200m  (Agreed Map CB 7.24C)	Limited impact on LB	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat; modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [65])		Further harvesting in this coupe may have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to presence of areas with high HSI.
	Opposite Fitzies 345-506-0004	2 in coupe & further 2 within 200m (Agreed Map CB 7.24C)	Limited impact on LBP local population	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat;		While harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short-



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	(logged)			modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [65])		or long-term due to the absence of areas with sufficient HBTs and high-quality habitat, forestry operations should consider the broader spatial context and nearby block of Leadbeater's Possum habitat.
	Hairy Hyde 345-505-0006  (logged)	1 in coupe & further 3 within 200m  (Agreed Map CB 7.24C)	Limited impact on LB	Likely to have had and will continue to have a significant impact (as contributed to a long-term decrease in population size; adversely affected critical habitat; modified, destroyed, removed or decreased the availability or quality of habitat to the extent that the species is likely to decline; and interfered with its recovery) (First Woinarski, [65])		
	Hairy Hyde 345-505-0006  (scheduled)	1 within coupe, further 3 within 200m, further 2 within 500m, further 4	Limited impact on LBP as known colonies of possum protected in SPZ with retained habitat providing suitable habitat and corridors to enable	Further harvesting beyond that already undertaken in Hairy Hyde is likely to have a significant impact on Leadbeater's possum because it: will contribute to a long-term decrease in population size; adversely affect critical habitat; will modify, destroy,		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
		within a km (Agreed Map 7.24C)	likely movement of LBP.	remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and will interfere with its recovery. (First Woinarski, [74])		
	Smyth Creek 345-504-0003 (scheduled)	1 within coupe, further 1 within 50m, further 1 within 500m, further 6 within a km. (Agreed Map 7.24C)	Limited impact expected because of the mixed species forest type and known and modelled LBP habitat to be retained and LBP SPZs protecting known colonies.	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [74])		Harvesting in this coupe could have an impact on Leadbeater's Possum habitat over the short- or long-term due to the presence of this area of high-quality habitat
	Starlings Gap 345-504-0005 (scheduled)	2 within coupe, further 3 within 200m, further 2 within 500m, further 2 within a km. (Agreed Map 7.24C)	Limited impact expected because known and modelled LBP habitat to be retained and LBP SPZs protecting known colonies.	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [74])		
	Black Sands Road	1 within 50m, further	Limited impact on LBP as known	Likely to have had and will continue to have a significant		Harvesting in this coupe would be

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
	345-505-0009 (scheduled)	1 within 200m, further 1 within 500m, further 7 within a km. (Agreed Map 7.24C)	colonies of possum protected in SPZ with retained habitat providing suitable habitat and corridors to enable likely movement of LBP.	impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [74])		unlikely to have a direct impact on Leadbeater's Possum habitat over the short or long-term due to the absence of areas with sufficient HBTs.
Sylvia & Kalatha Creek	Gun Barrel 297-526-0001 (scheduled)	1 within 100m, further 1 within 200m, further 1 within 500m and further 2 within a km (Agreed Map 7.25C)	The impact on the local population is likely to be limited	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [75])		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs within the coupe.
	Imperium 297-530-0001 (scheduled)	2 in coupe, further 1 within 200m, further 1 within 500m and further 1 within a km	The impact on the local population is likely to be limited	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short or long-term due to the absence of areas with sufficient HBTs.

<b>Coupe group</b>	<b>Coupe</b>	<b>LbP detections<sup>i</sup></b>	<b>Davey (First Report)</b>	<b>Woinarski</b>	<b>Smith observations regarding Leadbeater's Possum habitat</b>	<b>Baker</b>
		(Agreed Map 7.25C)		interfere with its recovery) (First Woinarski, [75])		
	Utopia 297-530-0002 (scheduled)	1 within 50m of coupe, further 3 within 500m, and further 3 within a km (Agreed Map 7.25C)	The impact on the local population is likely to be limited.	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [75])		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs.
	South Col 298-509-0001 (scheduled)	4 bordering coupe, further 1 within 50m, further 1 within 200m, further 1 within 500m, and further 1 within a km (Agreed Map 7.25C).	The impact on the local population is likely to be limited.	Likely to have had and will continue to have a significant impact (as will contribute to a long-term decrease in population size; adversely affect critical habitat; modify, destroy, remove or decrease the availability or quality of habitat to the extent that the species is likely to decline; and interfere with its recovery) (First Woinarski, [75])		Harvesting in this coupe would be unlikely to have a direct impact on Leadbeater's Possum habitat over the short- or long-term due to the absence of areas with sufficient HBTs

- i VicForests admit that each blue circle on the Agreed Maps constitutes a Leadbeater’s Possum detection (Notice to Admit CB; Notice of Dispute)
- ▲ Woinarski’s opinion is that there can be no doubt that harvesting in any coupe in which Leadbeater’s Possums occurs modifies, destroys, removes and decreases the availability or quality of habitat immediately and into the future. Considers that, given Leadbeater’s possum is Critically Endangered and undergoing decline – with its current small population size and decline pivoting largely on the sparse and declining availability of large old hollow-bearing trees – any factor that causes modification, destruction, removal, and decrease in the extent and quality of suitable forested habitat will contribute further – now and into the future – to the decline of the species (Second Woinarski, at [33]).
- Woinarski’s opinion is that:
  - i. all current and prospective suitable habitat is critical for survival of Leadbeater’s Possum, and necessary for its recovery, given the current Critically Endangered status of Leadbeater’s possum, and its predicted severe ongoing decline, including significant risks of extinction. (Draft Leadbeater’s Possum Recovery Plan CB 4.7.2.21 p38; TS 555.1-556.5).
  - ii. the much larger cohort of trees regrowing after the 1939 wildfires (which are especially targeted for harvesting) is a critical resource. These generally do not have hollows now, but in the future these will provide the next major source of hollows (Woinarski (2) at [13] and [42] and [27]). Any factor, such as harvesting of trees that currently provide hollows, ***or will do so in the foreseeable future***, will contribute to this regional-scale ongoing reduction in hollow availability, and hence will consolidate and exacerbate the long-term decrease in Leadbeater’s possum population size (W (2) at [27]).
  - iii. there is a real chance or possibility that actions, such as harvesting, that cumulatively and continually reduce the extent and quality of its habitat now and into the future, will reduce the likelihood and rate of (i.e. interfere with) any recovery. (W (2) p14)
  - iv. in relation to impacts on occurrences of Leadbeater’s Possum within 200m, 500m or 1km of the coupe - a 200 metre protective (exclusion) buffer around a sighting may not encompass all the area in which individuals of that possum colony move (and all of the habitat area on which that colony depends) (W (3) at [40]). Relative to a Leadbeater’s possum population living in an extensive continuous forest, a population contained within a 200 metre radius THEZ, surrounded or nearly so by harvested areas, is far more likely (i.e. has a real chance or possibility) to face decrease in population size. (W (2) at [28]). 200m buffers only provide a low-medium impact on reducing extinction risk, low impact on retaining quality and extent of habitat and medium impact on retaining the number of individuals, 500m buffers provide medium impacts on these matters, and one kilometre buffer was predicted to have generally ‘high’ benefits including on reducing extinction risk (LPAG Technical Report CB 11.96 p42; W (2) 4.9.1 p25-26 at [66f]). Dr Davey agreed with these ratings (T510.10-40).