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1. Background

In 2019/20 the Shire of Waroona completed realignment works along Peppermint Grove Road between straight line kilometre (SLK) 1.7 to 3.4. The works, funded by the Australian Government Black Spot program, were designed to treat the causes of road accidents that had occurred along that section of road and focussed on the removal of road side obstacles and improvements to road geometry and carriageway width

Peppermint Grove Road connects to Coronation Road and forms part of the Shire's main east-west route. This route can carry up to 1,000 vehicles per day across the full range of Austroads vehicle classes, from light vehicles to heavy trucks, and is on the Restricted Access Vehicle (RAV) network.

In addition a portion of private land between 3.0 to 3.4 SLK, which contains the subject trees, required resumption and incorporation into the existing road reserve. This process is not yet complete however it is well advanced and has been approved and signed by the landowner and submitted to Landgate (Attachment 1).

2. Project Brief

Under the terms of the Black Spot funding the project must undergo a post-completion safety audit, which was carried out in June 2020 by Brad Brooksby Consulting. The safety audit was conducted in accordance with the general principles detailed in *Austroads Guide to Road Safety Part 6 Managing Road Safety Audits* and *6A Implementing Road Safety Audit* and with reference to the requirements contained in *Main Roads Western Australia Policy and Guidelines for Road Safety Audit*.

The full report is appended. In item 2.3 of the RSA five mature *Corymbia Calophylla* trees have been identified as posing a risk in the event of a vehicle leaving the carriageway of the road. According to *Austroads Guide to Road Design Part 6 – Roadside Design Safety and Barriers (2010)*. With an estimated 85th percentile speed of 100km/h, curved alignment, flat batter slopes and less than 750 vehicles per day, the required clear zone is 5.5 metres. The trees identified in item 2.3 are less than two metres from the edge of the carriageway.

3. Clearing Period

It is expected the clearing will not commence until October 2020 however since the resumption process is still underway and under the control of other agencies, Shire would like to request that the permit is valid until October 2023.

4. Calculations

The below table indicates that the estimated area is 0.05 hectares which has been calculated based on the Department of Water and Environmental conversion rate of one tree is equivalent to 0.01 hectares.

Road Reserve Width:	20m
Seal Width:	6m
Number of Trees:	5
Estimated Hectares	0.05 hectares

In addition the Shire has arranged for Shape files to be created showing a pin point for each tree with the information below being available in the attribute table. Further, due to the road being realigned and the road reserve being amended the pending new road reserve boundary line has been included to show that the trees will eventually be contained in road reserve once the resumption process has finalised.

Tree ID	Description	Trunk (m)	Canopy (m)
5180	<i>Gum Tree</i>	0.6	12
5181	<i>Gum Tree</i>	0.6	12
5182	<i>Gum Tree</i>	0.6	12
5184	<i>Gum Tree</i>	0.4	8
5185	<i>Gum Tree</i>	0.6	12

5. Aerial Map



The yellow line indicates the pending new boundary reserve boundary line.

6. Photos and Additional Information



Tree ID	Description	Trunk (m)	Canopy (m)	Additional Information
5180	<i>Corymbia Calophylla</i>	0.6	12	Photo direction was taken in a western direction. No visible signs of nesting or hollow points.



Tree ID	Description	Trunk (m)	Canopy (m)	Additional Information
5181	<i>Corymbia Calophylla</i>	0.6	12	Photo direction was taken in a western direction. No visible signs of nesting or hollow points.



Tree ID	Description	Trunk (m)	Canopy (m)	Additional Information
5182	<i>Corymbia Calophylla</i>	0.6	12	Photo direction was taken in a western direction. No visible signs of nesting or hollow points.



Tree ID	Description	Trunk (m)	Canopy (m)	Additional Information
5184	<i>Corymbia Calophylla</i>	0.4	8	Photo direction was taken in a south/ west direction. No visible signs of nesting or hollow points.
5185	<i>Corymbia Calophylla</i>	0.6	12	Photo taken in south/ west direction. No visible signs of nesting or hollow points.