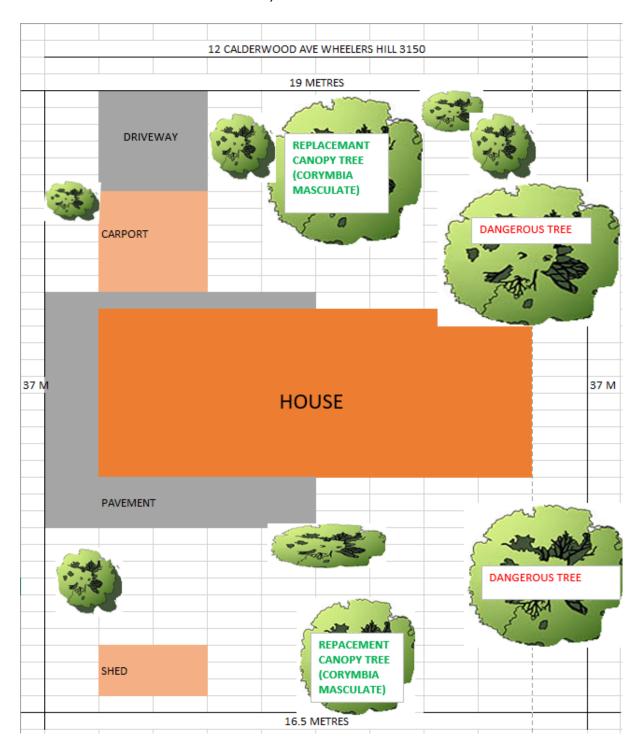
Attachment 1 - 12 Calderwood Avenue, Wheelers Hill





Attention

Peter Wallace pw.20022002@gmail.com

M: 0413 450 257

Tree Health & Risk Assessment 12 Calderwood Ave, Wheelers Hill

Tree No	Botanical Name	Common Name	Origin	Height x Spread (m)	DBH* (mm)	Age Class	Health	Structure	Useful Life Expectancy (ULE)	Retention Value	TPZ radius (m)			
1	Corymbia maculata	Spotted Gum	Native	15-20 x14	680	Mature	Good	Good	15-20	High	8.2m			
N	otes	Isolated specimen outside ecological provenance prone to abundant seed capsule and wind loading. Contributing to minor tertiary limb failure												
2	Corymbia citriodora	Lemon- scented Gum	Native	10-15 x16m	580	Mature	Good	Fair	10-15	Moderate	7.0m			
N	otes	Minor limb	failures 4	0-60mm. s	econdary	اeader to ر	north over bo	th dwellings. Go	ood healing ove	r pruning mar	ks.			

^{*}DBH=diameter measured at 1200mm above ground level in accordance with the City of Monash VPO

1. Introduction

- 1.1. Landowner is exercising a duty of care to ensure tree health and the safety of the tenants at the subject property and to address concerns expressed by the neighbours of recent branch failures.
- 1.2. The trees are protected within the City of Monash and require arboricultural assessment to determine their viability, maintenance opportunities and or justification for removal against their protection status.
- 1.3. This report summarises observation and a risk assessment carried out on both trees (appendix 1 & 2).

2. Planning Context

- 2.1. The trees are located in the City of Monash and are subject to a Vegetation Protection Overlay (VPO) and Schedule 1 of the VPO (VPO1).
- 2.2. The purpose of the VPO is to preserve existing trees and other vegetation as outlined below:

VEGETATION PROTECTION OVERLAY Shown on the planning scheme map as VPO with a number. Purpose To implement the Municipal Planning Strategy and the Planning Policy Framework. To protect areas of significant vegetation. To ensure that development minimises loss of vegetation. To preserve existing trees and other vegetation. To recognise vegetation protection areas as locations of special significance, natural beauty, interest and importance. To maintain and enhance habitat and habitat corridors for indigenous fauna.

- 2.3. VPO1 protects the significance of vegetation in Monash outlined in the tree conservation policy which recognizes the importance of canopy trees as a significant aspect of the urban character of the area and the vegetation protection measures to be achieved.
- 2.4. A permit is required to remove or destroy any vegetation that:

To encourage the regeneration of native vegetation.

- Has a trunk circumference greater than 500mm (160mmDBH) at 1200mm above ground level and;
- Is higher than 10m

3. Landscape Context

- 3.1. **Tree 1** is located in the front set-back of the allotment providing amenity for both the dwelling and locally within the streetscape. It has been well pruned with good form and structure.
- 3.2. The species is not locally endemic being native to NSW with only one small naturally occurring patch recorded in far east Gippsland. At approximately 15 m in height the tree compliments the species diversity of Monash and contributes to climate mitigation and habitat corridors which traverse the Municipality.
- 3.3. **Tree 2** is located in the rear yard within 2m of the east title boundary. A history of limb failure has triggered this health and risk assessment report

4. Tree Health Summary

4.1. **Tree 1** is a magnificent specimen with excellent form. It is estimated as being approximately 40-50 years of age. The trunk has a sway, leaning to the east but correcting at approximately two metre visible in image 2 below. There was no observed ground-heave or other signs of instability of the root plate.

- 4.2. The tree appears to have been well maintained throughout its life exhibiting signs of maintenance pruning which accord with best practice outlines in AS 4373-2007.
- 4.3. The tree has a well formed crown with good apical dominance. The scaffold and tertiary branch structures are evenly arranged with good leaf density and prolific fruit (gum-nut) production.
- 4.4. <u>Minor deadwood</u> was observed throughout the inner and upper crown. Some historical pruning exhibit good cambial healing at pruning locations.
- 4.5. Minor limb failure is evident in the crown
- 4.6. The tree is located approximately 5-6 m from the neighbours dwelling in a mulched front garden with small shrubs and herbaceous perennials.
- 4.7. Access and egress to the dwelling is via the driveway to the front of the house
- 4.8. There is minor overhang of the outer canopy towards the title boundary to the east, carport to the west and the front of the dwelling to the south.

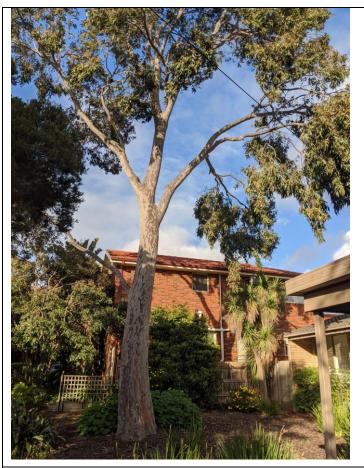


Image 1: <u>Tree 1</u> with neighbours dwelling to the east. Good leaf density heavily laden with fruit in southern hemisphere.



Image 2: <u>Tree 1</u> showing sway in lower trunk and exclusion landscaping with perimetre planting adjacent to carport and pathway to the front door.

5. Tree Health Summary

- 5.1. **Tree 2** is a healthy specimen with an asymmetrical crown evidenced by a sub-dominant leader growing towards the dwelling (Image 3).
- 5.2. The tree is free of defects and exhibited good cambial healing at old pruning points
- 5.3. Some branch failure was evident in the crown consistent with reports from the property owner and neighbours
- 5.4. The tree is located less than 2m from the east title boundary overhanging a large *Pittosporum euginoides* and small garden shed located in the neighbouring yard.
- 5.5. Access and egress to the back door is via a path from the west with exclusion landscaping and large shrubs directing pedestrian traffic from the dwelling away from the tree. A clothesline is located under the tree.
- 5.6. Minor deadwood was observed throughout the crown.
- 5.7. The branching network is elongated, laden with leaves and fruit and susceptible to dominant north west winds.



Image 3: <u>Tree 2</u> with neighbours dwelling to the east. Exclusion landscaping and planting adjacent to back door. Clothes-line in foreground (right). Asymmetry with sub-dominant leader growing to the north with good leaf density heavily laden with fruit in northern hemisphere.

6. Conclusions and Recommendations

- 6.1. **Tree 1** The tree is a healthy specimen and presents a Low Risk within the context of its location. It is recommended that the tree be maintenance-pruned with light weight reduction and re-inspected at 2-3 year intervals
- 6.2. **Tree 2** The tree is a healthy specimen and presents a Moderate-Low Risk within the context of its location however the proximity to the east title boundary and history of limb failure supports consideration for removal.
 - 6.2.1. Pruning and on-going assessments of the tree may result in reducing the risk to an acceptable level however the tree is early mature and likely to double in bio-mass continuing to require a higher than reasonable level of maintenance.
- 6.3. If Tree 2 was approved for removal by Council it is recommended a replacement canopy tree be planted in accordance with the objectives of the VPO



ISA Basic Tree Risk Assessment Form

Client													
Address/Tree location	Tree	no	Sheet	of									
Tree species dbh	Height	Crow	n spread dia										
Assessor(s) Tools used			Time frame										
Target Assessmen	t												
Target description	Target protection	Target within drip line Target within 1x Ht.		Practical to move target?	Restriction practical?								
2	+	- 											
3													
		+ + +											
4 Site Factors													
	Tanagranh	v Flat∏ Clana		A = = = = = = =									
History of failures Site changes None ☐ Grade change ☐ Site clearing ☐ Changed soil hydrology ☐ Ro													
Soil conditions Limited volume ☐ Saturated ☐ Shallow ☐ Compacted ☐ Pavement													
Prevailing wind direction Common weather Strong winds ☐ Ice ☐ Snow													
Tree Health and Species													
Vigor Low □ Normal □ High □ Foliage None (seasonal) □ None (dead	d)□ Normal				%								
Pests/Biotic Abiotic Species failure profile Branches ☐ Trunk ☐ Roots ☐ Describe													
Load Factors													
Wind exposure Protected ☐ Partial ☐ Full ☐ Wind funneling ☐		e crown size	Small □ Mediu	m□ La	arge 🗆								
Crown density Sparse ☐ Normal ☐ Dense ☐ Interior branches Few ☐ Normal ☐													
Recent or expected change in load factors													
Tree Defects and Conditions Affecting th	e Likelihood of Fail	ure											
— Crown and Branch	nes —				$\overline{}$								
Dead twigs/branches ☐% overall Max. dia Codor Broken/Hangers Number Max. dia Weak Over-extended branches ☐ Pruning history	□ ninant □ attachments □ us branch failures □ _ Missing bark □ Canker		Cavity/Nest hole Similar branches	ded bark % c present	irc.								
Reduced	-	rtwood decay [_										
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Dead/Missing bark Abnormal bark texture/color Collar	buried/Not visible □	Depth	Stem	girdling									
Codominant stems ☐ Included bark ☐ Cracks ☐ Dead	_	cay 🗆	Conks/Mus										
Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐ Ooze		_	Cavity 🗆										
Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐ Crack Cavity/Nest hole % circ. Depth Poor taper ☐ Root I	cut/Damaged	roots □ Di	istance from trun										
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Client Peter Wallace			Date 13 July 202	0		Tin	ne ^{2pm}						
Address/ Tree location 12 C	alderwood Ave Wheelers Hill		Troo	no 2	2 Sheet of								
Tree species Corymbia citriodora					Crown spread dia. 16 m								
•			used VTA methodology, clinometre			_	e frame						
		Target As	sessment										
-				Та	arget zo	ne		Π					
Target number	Target description		Target protection	Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.	Occupancy rate 1 – rare 2 – occasional 3 – frequent 4 – constant	Practical to move target?	Restriction practical?				
1	Resident dwelling - 4m (fro	om tree)	Exclusion landscaping										
2	Clothesline - 1m			~			2	Υ	Υ				
3 Neigh	nbours clothes-line, steps t	o small shed		~			2	N	Υ				
4 Neighbours dwellin	g 7m (not considered at ri												
		Site Fa	ictors										
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■ Dead twigs/branches □	10 <u>% ove</u> rall N	Лах. dia. <u>50mm</u>	Codominant Secondary leads	er to north	over both	dwellings	Includ	led barl	k 🗆				
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	— Trunk —		— Roots	and	Root	Coll	lar —		_				

Collar buried/Not visible □ Depth_____ Stem girdling □

Abnormal bark texture/color □

Dead/Missing bark □

Codominant stems ☐ Included bark ☐ Cracks ☐ Sapwood damage/decay ☐ Cankers/Galls/Burls ☐ Sap ooze ☐	Dead ☐ Decay ☐ Ooze ☐	Conks/Mushrooms ☐ Cavity ☐ ☐% circ.
Lightning damage ☐ Heartwood decay ☐ Conks/Mushrooms ☐	Cracks ☐ Cut/Damaged roots ☐ Distance	ce from trunk
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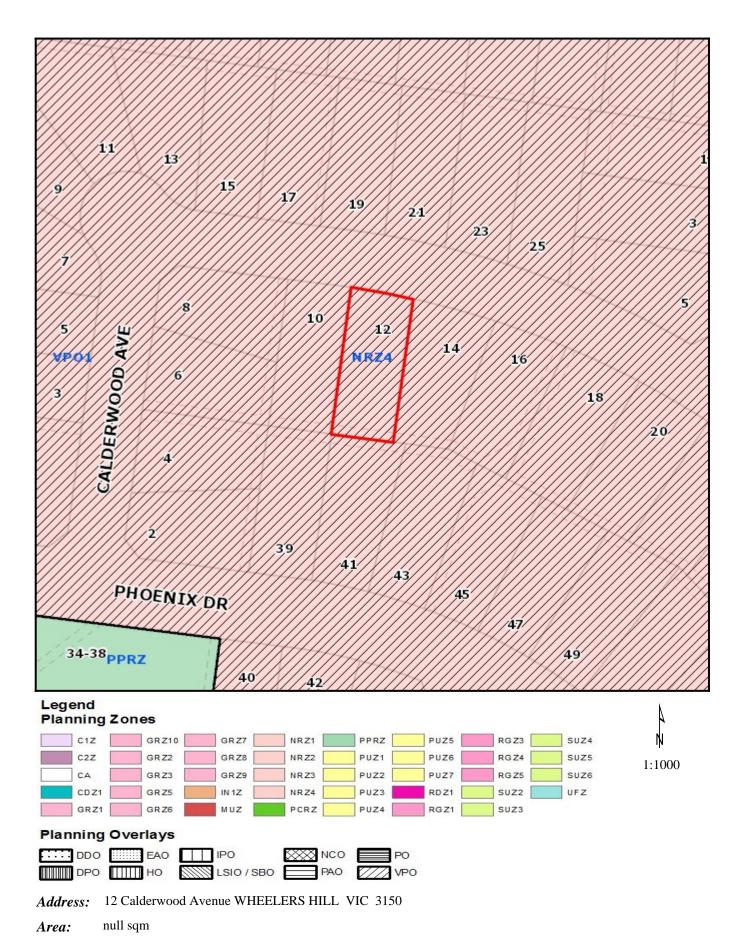
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Attachment 2 - 12 Calderwood Avenue, Wheelers Hill





Planning Overlays and Zones



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