

Arboriculture advice for WA Country Builders

Date: 23rd of June 2022
Location: Lot 67, 42 Pardalote Road VASSE WA 6280
Tree Species: Corymbia calophylla(Marri)
Tree Height: 14m
Tree DBH: 1.28m

Reason for Assessment

In accordance with your instructions, I confirm that you have employed this consultant to carry out a ground-based tree assessment of a mature Corymbia calophylla located at the front left-hand side of a newly constructed dwelling. The tree was retained during the development process due to the native cockatoo's inhabiting the area. The main reason for the assessment is to assess the trees defects and level of risk to the assets/residents that reside below.

This consultant has been to site (23rd June 2022) and has photo evidence attached to this document, of the condition of the tree at the time of this submission.

Observations

- This mature species of Corymbia calophylla has had a severe trunk failure in its past.
- Weakened regrowth of around 9m high has occurred from this trunk failure.
- Trunk has a lean of approximately 70 degrees north towards the asset
- Trunk has severe decay from ground level to approximately 4.5m high on the tension side of the tree, ranging from 400mm wide to 805mm wide.
- Evidence of white ants present, but no living insects found at the time of inspection
- Marri canker present
- Some damage to bark and cambium which is consistent with machine collision.
- The asset below a high target area with occupancy being "constant".
- Useful life expectancy is limited due to the main trunk failure and large portion of decay present.

Recommendations

- Remove to ground level and replant same species in a more appropriate location. This consultant cannot find any grounds for tree retention on this occasion due to target occupancy and tree health.

Photos:



Photo 1: Evidence of major failure to trunk. Weak connections on regrowth also present.

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Photo 2: Photo showing the lean towards the North.

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Photo 3: Showing the large section of decay on tension side of tree.

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Photo 4: Closer photo showing the large section of decay and depth on tension side of tree.



Photo 5: Patches of Marri canker present.

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Photo 6: Overall photo of tree from western side of property. Slightly uneven canopy.

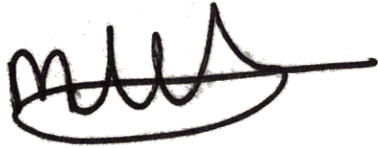


Photo 6: White ant damage

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Sincerely,

A handwritten signature in black ink, appearing to read 'M Howlett', with a long horizontal stroke extending to the right.

Mitchell Howlett – Cert III & V Arborist

Norcape Tree & Contracting Services Pty Ltd

Limitation of liability

Trees can be managed, but they cannot be controlled. To live or work near a tree involves a degree of risk.

This report only covers identifiable defects present at the time of the inspection. Norcape Tree & Contracting Services accepts no responsibility and cannot be held liable for any structural defect or unforeseen event/situation or adverse weather conditions that may occur after the time of inspection. Norcape Tree & Contracting Services cannot guarantee that the tree/s contained within this report will be structurally sound under all circumstances and is not able to detect every condition that may possibly lead to the structural failure of a tree. Norcape Tree & Contracting Services cannot guarantee that the recommendations made will categorically result in the tree being made safe. Unless specifically mentioned their report will only be concerned with above ground inspections, as such all observations have been visually assessed from ground level. Trees are living organisms and as such cannot be classified as safe under any circumstances. Trees fail in ways that the arboriculture industry does not fully understand. The recommendations are made on the basis of what can be reasonably identified at the time of inspection therefore Norcape Tree & Contracting Services accepts no liability for any recommendations made.



Basic Tree Risk Assessment Form

Client WA country Builders Date 23/6/2022 Time 11:30am
 Address/Tree location 42 Pardalote Way, Vasse Tree no. _____ Sheet _____ of _____
 Tree species Corymbia & calophylla dbh 1.28m Height 14m Crown spread dia. 10m
 Assessor(s) Mitchell Hawlett Time frame 12 months Tools used Tape, camera

Target Assessment

Target number	Target description	Target zone			Occupancy rate 1-rare 2-occasional 3-frequent 4-constant	Practical to move target?	Restriction practical?
		Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.			
1	House	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	N	N
2							
3							
4							

Site Factors

History of failures Yes, multiple Topography Flat Slope N/A % Aspect N/A
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe New subdivision
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots % Describe wetlands nearby.
 Prevailing wind direction SE Common weather Strong winds Ice Snow Heavy rain Describe Gusty winters.

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal - % Chlorotic - % Necrotic - %
 Pests White ants. Abiotic Land clearing.
 Species failure profile Branches Trunk Roots Describe _____

Load Factors

Wind exposure Protected Partial Full Wind funneling Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss N/A
 Recent or planned change in load factors Land clearing exposing to wind.

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR 40 % Cracks NIL Lightning damage
 Dead twigs/branches - % overall Max. dia. _____ Codominant N/A Included bark
 Broken/Hangers Number _____ Max. dia. _____ Weak attachments Regrowth Cavity/Nest hole 0 % circ.
 Over-extended branches Previous branch failures Minor Similar branches present
 Pruning history
 Crown cleaned Thinned Raised Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Reduced Topped Lion-tailed Conks Heartwood decay
 Flush cuts Other _____ Response growth _____
 Main concern(s) Minor over extended branches with weak attachments but overall the crown look ok.
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Trunk —

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole _____ % circ. Depth _____ Poor taper
 Lean 65/70° Corrected? NO
 Response growth Some response.
 Main concern(s) Large decaying trunk on tension side with significant lean.
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

— Roots and Root Collar —

Collar buried/Not visible Depth _____ Stem girdling
 Dead Decay Conks/Mushrooms
 Ooze Cavity _____ % circ.
 Cracks Cut/Damaged roots Distance from trunk _____
 Root plate lifting Soil weakness
 Response growth _____
 Main concern(s) _____
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

Risk Categorization

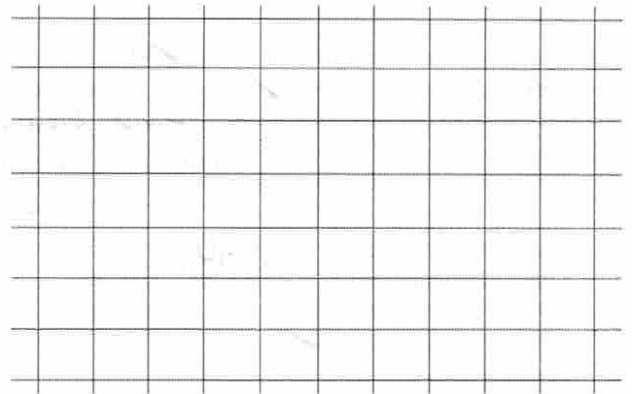
Condition number	Tree part	Conditions of concern	Part size	Fall distance	Target number	Target protection	Likelihood																Risk rating of part (from Matrix 2)
							Failure				Impact				Failure & Impact (from Matrix 1)				Consequences				
							Improbable	Possible	Probable	Imminent	Very low	Low	Medium	High	Unlikely	Somewhat	Likely	Very likely	Negligible	Minor	Significant	Severe	
1	Trunk	Decay/Lean.	6m	14m	1	N/A	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	High.
2							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4							<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Matrix 1. Likelihood matrix.

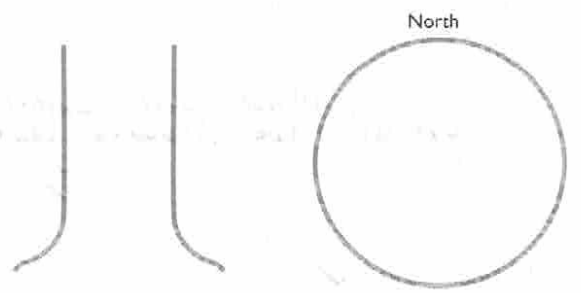
Likelihood of Failure	Likelihood of Impacting Target			
	Very low	Low	Medium	High
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Matrix 2. Risk rating matrix.

Likelihood of Failure & Impact	Consequences of Failure			
	Negligible	Minor	Significant	Severe
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low



Notes, explanations, descriptions Significant lean, poor health with large sections of decay.
This paired with poor connections in canopy makes for a risky tree.



Mitigation options NIL. Residual risk _____
 Residual risk _____
 Residual risk _____
 Residual risk _____

Overall tree risk rating Low Moderate High Extreme
 Overall residual risk Low Moderate High Extreme
 Data Final Preliminary Advanced assessment needed No Yes-Type/Reason _____
 Inspection limitations None Visibility Access Vines Root collar buried Describe _____