



AEP

ECOLOGY | OFFSETS | BUSHFIRE | ARBORICULTURE

Arborist Impact Assessment

Proposed Development of a Woolworths Shopping Precinct
Lot 5211 DP 120804, 262 Hakone Road, Woongarrah, NSW



Prepared for: Fabcot Pty Ltd

c/- ADW Johnson Pty Ltd

5 May 2025

AEP Ref: 3287

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Newcastle | Sydney

10 Darvall St Carrington NSW 2294 | 275 Stanmore Rd Petersham NSW 2049

ABN: 57 659 651 537 | +61 420 624 707 | info@andersonep.com.au | www.andersonep.com.au

Document Control

Document Name	Proposed Development of a Woolworths Shopping Precinct; Lot 5211 DP 120804, 262 Hakone Road, Woongarra, NSW
Project Number	3287
Client Name	Woolworths Group
AEP Project Team	Warwick Muir Simon Purcell Natalie Black Mark Stute Kieran Giffen Alissa Rogers

Revision

Revision	Date	Author	Reviewed	Approved
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01	14/06/2024	Warwick Muir	Warwick Muir	Simon Purcell
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Distribution

Revision	Date	Name	Organisation
00	24/08/2023	Laura Neville Adam Rogic	ADW Johnson Pty Ltd Woolworths Group
01	14/06/2024	Laura Neville Shaun Carrey	ADW Johnson Pty Ltd Woolworths Group
02	28/06/2024	Laura Neville Shaun Carrey	ADW Johnson Pty Ltd Woolworths Group
03	05/05/2024	Shaun Carrey	Woolworths Group

Disclaimer

Direct observations are relevant only to the trees identified within this report. This report utilizes a rapid assessment of tree health and condition to inform retention value. This assessment of tree health and condition is based on non-destructive visual observations from ground level. Thus, it is not possible to identify all structural faults at high levels in the tree, internal structural faults or within the root system. Observations about Tree Health, Structure, Safe Useful Life Expectancy (SULE) and other characteristics have been made at the time of assessment and these characteristics may change over time due to natural growth of the tree as a living organism or due to unforeseen events. As such the observations that are supplied within are relevant for a period of 12 months from the time of assessment, after which re-assessment may be required for the trees assessed within this

report. The recommendations and methodologies for Tree Protection within this report are relevant only to the Trees assessed within this report. The author is not responsible for tree damage related to failure to apply these recommendations or methodologies for Tree Protection in full within this report or for tree damage relating to works conducted by an unaffiliated person. No responsibility for damage to persons or property is accepted for damage by trees referred to within this report.

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1.0 Introduction

1.1 Background

At the request of Fabcot Pty Ltd (the proponent) c/ ADW Johnson Pty Ltd (the client), Anderson Environment & Planning (AEP) have prepared an Arborist Impact Assessment and Tree Protection Plan at 262 Hakone Road, Woongarra NSW (the Subject Site) to support Modification Application (MA) seeking design amendments to MP10_0195 granted in September 2013, and gazetted as State Significant Development by the Minister for Planning in March 2019.

In support of the 2013 Consent (the design of which this MA seeks to modify) ecological impacts for this site were considered in a Flora and Fauna Assessment (Travers Bushfire and Ecology, 2013). This report is reflective of current plans provided by the client.

1.2 Objectives

Further to the above the following objectives for this report have been assigned:

- Tree identification plan and schedule identifying tree species, size, canopy spread and other dimensions;
- Assessment of all internal trees within the Subject Site, including, but not limited to, the health and vigour of the trees, structural integrity, life expectancy, retention value and landscape significance;
- Likely impact the proposed development will have on assessed trees, including TPZ and SRZ encroachments; and
- Tree protection plan and methodologies throughout the development for all impacted trees to be retained.

2.0 Site Description and Locality

Table 1 provide the site details for the Subject Site.

Table 1: Site Particulars

Detail	Comments
Client	Woolworths Group c/- ADW Make My Home Green
Address	262 Hakone Road, Woongarra, NSW 2259
Title(s)	Lot 5211 DP 120804
Subject Site	The Subject Site encompasses the southern portion of Lot 5211 DP 120804.
LGA	The Central Coast Council
Zoning	Under the Central Coast <i>Local Environmental Plan 2022</i> (the LEP), the Subject Site is zoned E1 – Local Centre, with a small south western section zoned as MU1 – Mixed Use.
Current Land Use	The Subject Site is an approximately 5.25ha bush block on a gradual slope, predominantly containing a dry sclerophyll forest and grassland. The north has been predominately cleared. The block contains numerous dams bounded by large trees and disturbed vegetation. An access point has been created to the north west of the site.

Detail	Comments
Surrounding Land Use	The Subject Site is surrounded by bush blocks and remnant farms in the north, a sporting field and bushland in the east. Residential dwellings in the south and a train line bounded by bushland in the west. The surrounding landscape contains largely flat to gradual sloped terrain.
Soil	The Subject site is within the Gorokan Soil Landscape, characterised by either friable Lose dark brown loamy sand within the topsoil or Yellowish-brown hard setting clayey sand within the shallow subsoil. (eSpade, 2023).

3.0 Proposed Development




It is proposed to construct a Woolworths Shopping Precinct and Associated Infrastructure.

Figure 1 depicts the extent of the Subject Site overlain on an aerial photograph of the locality.

Figure 2 shows a concept plan for the proposed development.

Disclaimer: While all reasonable care has been taken to ensure the information shown on this map is up to date and accurate, no guarantee is given that the information portrayed is free from error or omission. Please verify the accuracy of all information prior to use.

Legend

-  Site Boundary
-  Subject Site
-  Cadastre



Note:
1. Boundaries are not survey accurate
2. Do not scale off the plan



AEP

Figure 1 - Site Location

Date: May 2025

Location: 262 Hakone Rd, Woongarah, NSW, 2259

Client: Woolworths Group

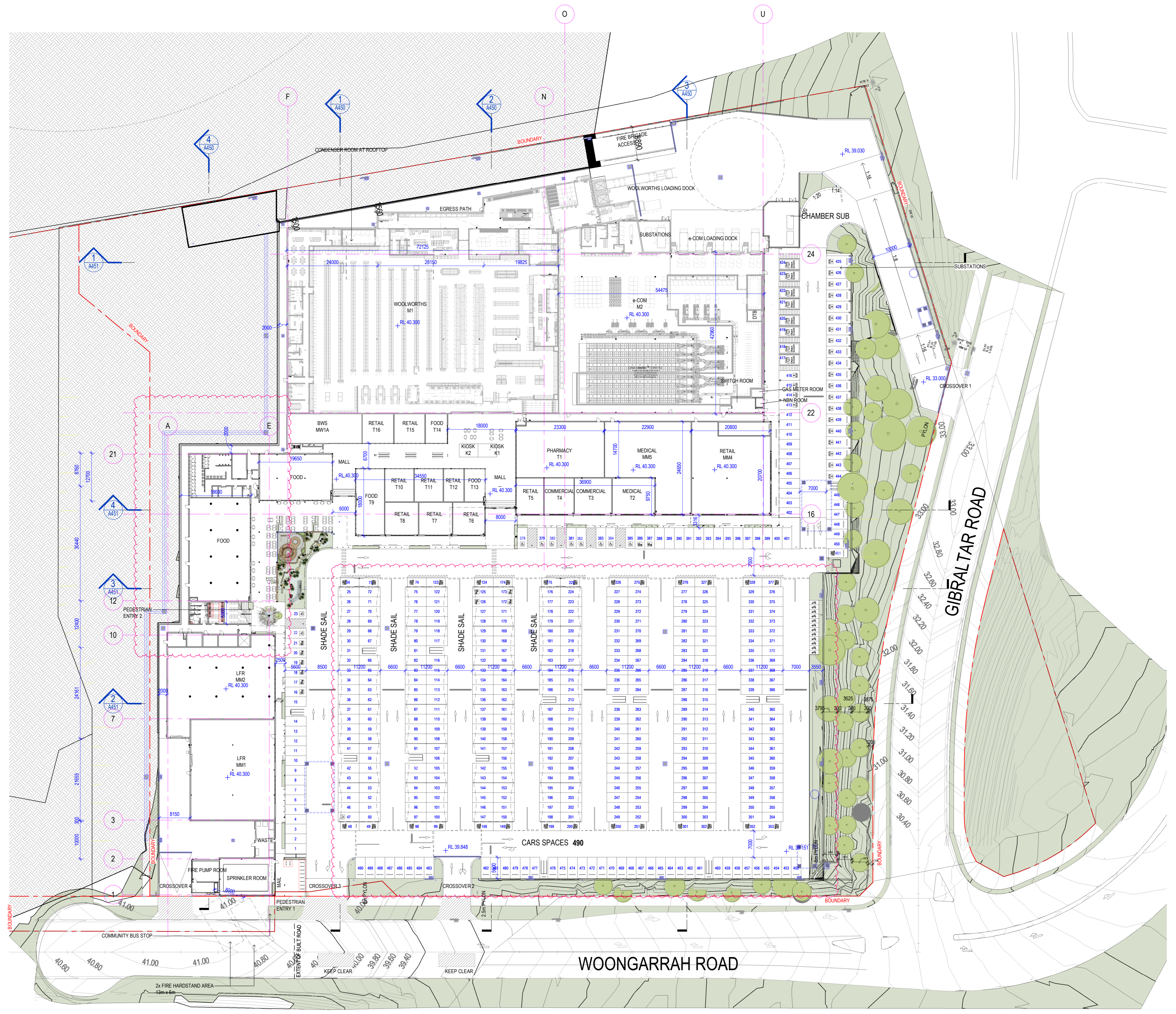
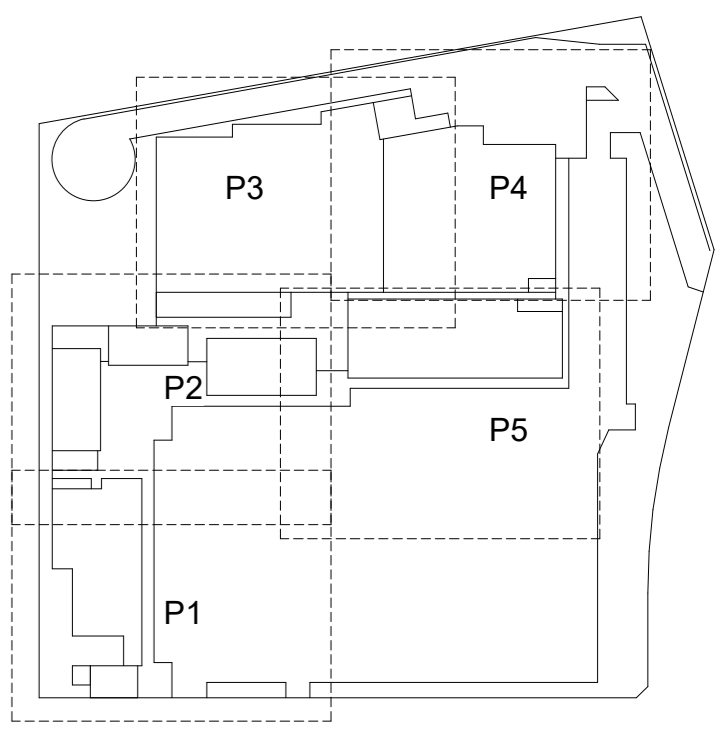
AEP ref: 3287

Revision/Issue	Date	
P1	WP	07.02.2025
P2	PRELIMINARY FOR INFORMATION	13.02.2025
P3	PRELIMINARY SHEET LAYOUT	17.02.2025
P4	BASE PLANS	21.02.2025
P5	FOR INFORMATION	05.03.2025
P6	FOR INFORMATION	10.03.2025
P7	FOR INFORMATION	17.03.2025
P8	FOR INFORMATION	18.03.2025
P9	FOR INFORMATION	21.03.2025
P10	FOR INFORMATION	31.03.2025
P11	50% ISSUE	07.04.2025
P12	FOR COORDINATION	22.04.2025
P13	FOR INFORMATION	28.04.2025
P14	FOR INFORMATION	30.04.2025
P15	FOR COORDINATION	05.05.2025

Use figured dimensions in preference to scale.
Verify dimensions at job before shop fabrication.
Reed drawing in conjunction with specification.
© ClarkeHopkinsClarke

NSW Registered Architect: Jordan Curran (11239)

50% ISSUE



1 GROUND FLOOR OVERALL
Scale 1:500

Clarke Hopkins Clarke
 Melbourne | Warrundjeri
 705 Swanston Street
 Carlton VIC 3053
 Telephone (03) 9419 4340
 Email studio@chc.com.au
 www.chc.com.au

Sydney | Gadigal Country
 Suite 3, Ground Floor
 91 Campbell Street
 Surry Hills NSW 2010
 Telephone (02) 9221 9200
 Email studio@chc.com.au
 www.chc.com.au

Scale	1:500 @ A0
Date	MARCH 2025
Drawn	Author
Architect	Checker

Project
**WOOLWORTHS
 WARNERVALE**
 262 HAKONE ROAD,
 WOONGARRAH

Drawing
**GA FLOOR PLAN - GROUND
 FLOOR - OVERALL**

Drawing No.
20230057/A200.0 P15

4.0 Methodology

The arborist site survey was undertaken over the 1 - 3 and the 7 August 2023. Each tree observed within the Subject Site was assigned a unique tree number. Tree species were identified based on guidance from regional identification guides (Fairley and Moore 1989, Robinson 2003), and descriptions and records provided by the Royal Botanic Gardens (Plantnet 2022).

4.1 Visual Tree Assessment

A visual tree assessment to evaluate the health and condition of these trees in relation to the impacts of the proposed development was undertaken from ground level following the methodology described by Mattheck and Breloer (1994). Tree height was estimated following the guidance outlined in the Private Native Forestry Code of Practice (DECC 2007) and confirmed with a laser range finder. The Diameter at Breast Height (DBH) and Diameter Above Buttress (DAB) was determined using a DBH tape and methods of calculation for the Structural Root Zone (SRZ) and Tree Protection Zone (TPZ) applied as outlined in Australian Standard 4970-2009 *Protection of trees on development Sites* (AS 4970 – 2009) (Standards Australia 2009). Tree Total Canopy Area was estimated from the formula $\text{Pi} \times (\text{average canopy spread})^2$.

4.2 SULE

The SULE method (Safe Useful Life Expectancy) estimates the suitability of the tree in the urban landscape based on the species and age of the subject tree (Barrell 1996). The following ranges have been allocated to each assessed tree:

- Greater than 40 years (Long);
- Between 15 and 40 years (Medium);
- Between 5 and 15 years (Short);
- Dead, dying, suppressed, defective or damaged (Remove); and
- Less than 5m in height or 15years of age (Young or small tree).

A full explanation of SULE methodology is included in **Appendix B**.

4.3 Tree Retention Value

To determine tree Retention Value a Landscape Significance Rating (LSR) was assigned to each tree. The LSR value provides consideration of the tree's amenity, environmental and heritage values (refer **Appendix B**). Trees are then assigned one of the following LSR categories:

- Significant (1);
- Very High (2);
- High (3);
- Moderate (4);
- Low (5);
- Very Low (6); and
- Insignificant (7).

Once the landscape significance value has been determined the following assessment matrix that utilises estimated life expectancy and landscape significance (**Table 2**) was applied to each tree.

Table 2: Tree Retention Status Matrix Assessment matrix adopted from Morton (2006).

Landscape significance rating							
Estimated Life Expectancy	1	2	3	4	5	6	7
Greater than 40 Years	High						
15 to 40 Years			Moderate				
5 to 15 Years				Low			
Less than 5 Years					Very low		
Dead or Hazardous							

4.4 Limitations

This report utilises a rapid assessment of tree health and condition to inform retention value. Should a detailed assessment of tree structural health and condition be required a tree risk assessment report should be commissioned.

This assessment of tree health and condition is based on non-destructive visual observations from ground level. Thus, it is not possible to identify all structural faults at high levels in the tree, internal structural faults or within the root system. Should a detailed assessment for structural faults be required a tree risk assessment report should be commissioned.

Weather conditions such as extreme wind, storm activity, lightning as well as other events or disturbances independent of the proposed activities are unpredictable. Unforeseeable damage to trees may occur as a result of unpredictable or unplanned weather events or disturbances.

Tree identifications are based on identifying features (fruit, inflorescence, etc.) found during August and made at ground level from within the Subject Site.

The total canopy area for each tree utilised within this report is an estimation based on field observation of canopy spread and the true amount of canopy area may differ.

Tree identified within report were initially located to GPS accuracy, the trees within this site have been surveyed with tag numbers as per survey plans provided. The tree locations and assessment as presented within the AIA have been amended to utilize these surveyed locations.

Impact assessment was based to limited concept design confined to identification of the approximate proposal footprint at the time of preparation of this report. Variation of this concept design will alter some of the recommendations and this report should be updated to reflect these changes.

5.0 Tree Assessment Results

A total of 356 trees identified within the site and neighbouring properties were assessed. Observations were made for each assessed tree (**Appendix A**). Tree locations are shown in **Figures 3**.

5.1 Summary of Tree Condition and Characteristics

Of the 356 trees assessed, 350 of these trees are located within the Subject Site. Three (3) trees are located within greater the Site Boundary and three (3) trees are located outside the Site Boundary.

All trees assessed within the site are native species. The condition of the assessed trees includes nine (9) in poor or dead condition, 38 in fair condition and 309 in good condition.

Notable Trees within this grouping that are in poor or dead Structural and Health Condition including the following:

- Tree 1 – *Allocasuarina littoralis* (Black She-oak) has two abundant dead-wood, low vigour, defoliation and increment growth. There are dead branches, stem – cracks/fractures, with the tree being on a notable lean. This tree has a short SULE and moderate retention value;
- Tree 3 – *Allocasuarina littoralis* (Black She-oak) has a poor health and structural condition with sparse crown and photosynthetic area, fungal fruiting bodies, and delaminating/degraded/wounded bark. There is subsiding branches and evidence of previous failures. This is indicative of tree decline similar to Tree 39 and this tree has a Short (5-15 years) SULE;
- Tree 26 *Eucalyptus acmenoides* (White Mahogany) and Tree 39 *Allocasuarina littoralis* (Black She-oak) were identified as deceased with no live canopy observed at the time of assessment;
- Tree 69 – *Allocasuarina littoralis* (Black She-oak) has a poor health and fair structural condition with low vigour, co-dominant leaders, dead branches and cracks/fractures within the stem. There is evidence of previous branch failures. This tree has a Short (5-15 years) SULE;
- Tree 321 – *Angophora costata* (Smooth-barked Apple) has a poor health and structural condition with evidence of dieback, defoliation and thinning crown. There is abundant deadwood, wounds/lesions/cankers and subsiding branches. This tree has a Short (5-15 years) SULE;
- Tree 386 – *Eucalyptus globoidea* (White Stringybark) has a poor health and fair structural condition with sparse crown and photosynthetic area, delaminating/degraded/wounded bark and abundant deadwood. This tree has a Remove SULE of < 5 years;
- Tree 440 – *Angophora costata* (Smooth-barked Apple) has a poor health and structural condition with delaminating/degraded/wounded bark, evidence of recent failures and stem-bulges/swelling. This tree has a Short (5-15 years) SULE; and
- Tree 448 – *Allocasuarina littoralis* (Black She-oak) has a poor health and fair structural condition with low vigour and sparse crown and photosynthetic area. There are co-dominant leaders, dead branches and evidence of previous failures. This tree has a Short (5-15 years) SULE.

5.2 Summary of Landscape Significance and Retention Value

The following landscape significance ratings (LSRs) have been applied to the assessed trees;

- 16 'Very High' These trees have a very large live crown size exceeding 200m²; or have habitat features (hollows) and are a representative of the original vegetation of the area;
- 340 'High', due to their canopy size and good health and as representatives of the original vegetation of the area; and

With consideration of the estimated life expectancy for each tree, Retention Values were assigned to each tree within the site. This identified the following;

- 216 'High',
- 136 'Moderate'; and
- Four (4) 'Low' Retention Value Trees.

The following habitat features were observed within the assessed trees;

- Hollows were observed in Trees 287, 291, 306, 373, 382, 440, 450, 453 and 462. Rainbow Lorikeets were observed using the hollows within Trees 373 and 382 at the time of assessment; and
- Stick nests were observed in Trees 333, 405, 446.

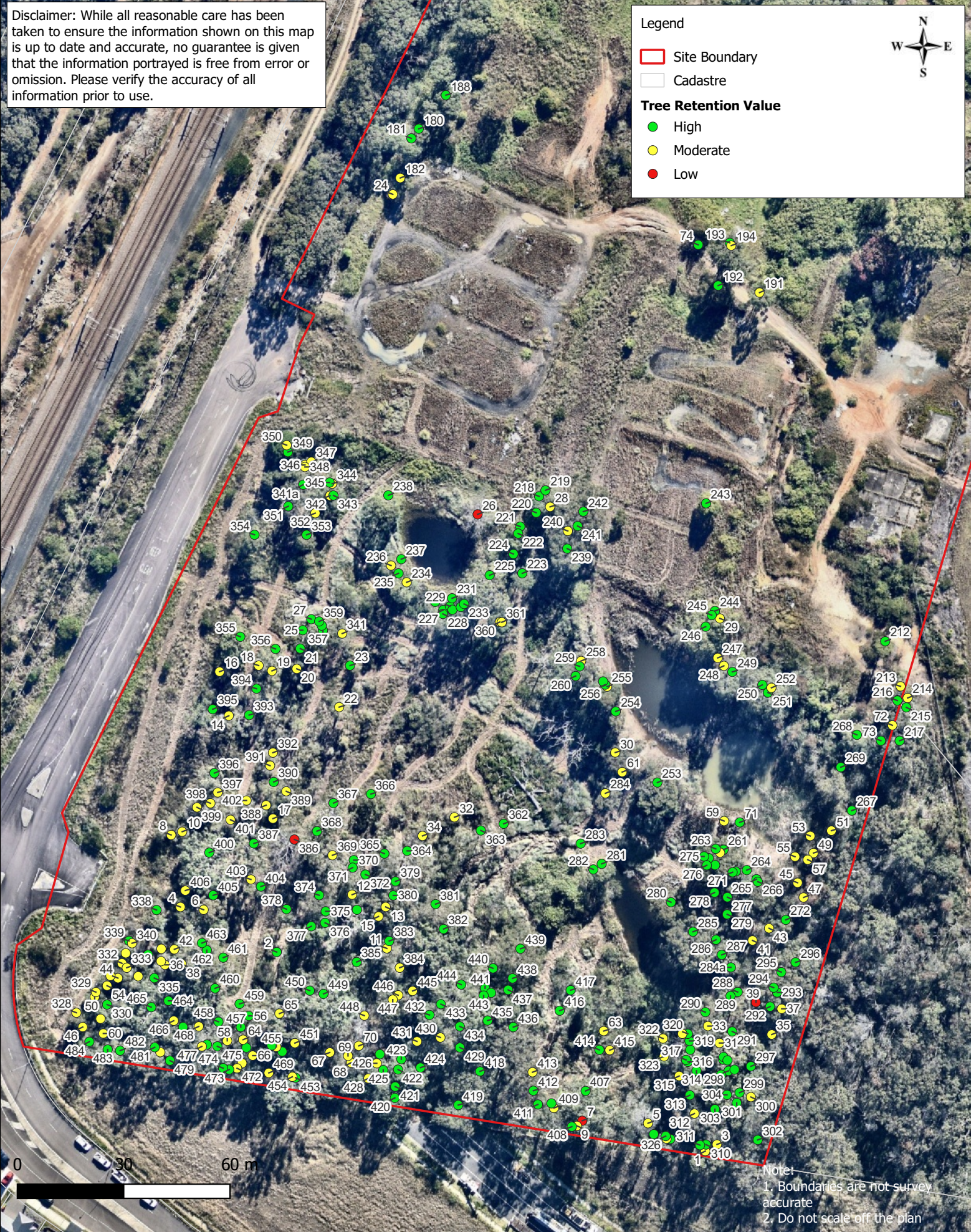
Disclaimer: While all reasonable care has been taken to ensure the information shown on this map is up to date and accurate, no guarantee is given that the information portrayed is free from error or omission. Please verify the accuracy of all information prior to use.

Legend

- Site Boundary
- Cadastre

Tree Retention Value

- High
- Moderate
- Low



Notes:
 1. Boundaries are not survey accurate
 2. Do not scale off the plan



Figure 3 - Tree Locations & Retention Value
 Location: 262 Hakone Rd, Woongarrah, NSW, 2259
 Client: Woolworths Group

Date: May 2025

AEP ref: 3287

6.0 Tree Impact Assessment

The Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) are indicative areas critical for maintaining a tree's viability and stability respectively, holding the majority of the roots necessary for each function. Any ground works within these zones is likely to impact the viability or stability of the tree by injuring the root system.

6.1 Proposal Impacts

Upon review of the supplied proposal footprint, 292 trees will require removal as they are located within the development footprint These include:

- 186 High; and
- 104 Moderate; and
- Two (2) Low Retention Value Trees.

These trees will require removal to facilitate the development. Impacts are unlikely to be mitigated through tree protection measures without major design changes, and tree stability and viability cannot be guaranteed.

It should be noted that Trees 8, 10, 374, 375, 376, 377, 378, 385, 400, 403, 404, 405, 407, 413, 418, 429, 430, 431, 432, 433, 434, 435, 436, 445, 446, 447 are within landscaped areas of the development footprint. These trees may additionally be retained within the site if design detail of the landscaped area allows for it.

Upon review of the supplied proposal footprint, 1 trees will require removal as these trees will be impacted by predicted structural root zone or major (>20%) tree protection zone encroachment. These include:

- One (1) High Retention Value Trees.

Impacts are unlikely to be mitigated through tree protection measures without major design changes, and tree stability and viability cannot be guaranteed.

Furthermore, Trees 26 and 39 have been identified as a standing dead tree(s) and should be removed for contractor and site user safety.

Ecological impacts for this site were considered in a Flora and Fauna Assessment (Travers Bushfire and Ecology, 2013). This report is reflective of current plans (see **Figure 2**) provided by the client.

A further 45 Trees can be retained within close proximity to the development footprint. All trees noted below, will require tree protection fencing for the duration of the works as displayed in **Figure 5**. The following relates to tree protection for these trees;

- Trees 452, 453, 455, 456 have potential encroachment, by the southern area of the road footprint, however the TPZ of these trees can be feasibly offset into unimpacted areas and these trees should be retained. If TPZ fencing as displayed in **Figure 5** is impractical for construction works for these trees, ground protection measures such as rumble boards must be installed for the duration of works with the encroached TPZ as displayed in **Figure 5**;
- Tree 302 has potential encroachment, by the south-western area of the driveway footprint, however the TPZ of these trees can be feasibly offset into unimpacted areas and these trees should be retained. If TPZ fencing as displayed in **Figure 5** is impractical for construction works for these trees, ground protection measures such as rumble boards must be installed for the duration of works with the encroached TPZ as displayed in **Figure 5**;
- Trees 72, 214, 215 and 217 has potential encroachment, by the western area of the driveway footprint, however the TPZ of these trees can be feasibly offset into unimpacted areas and

these trees should be retained. If TPZ fencing as displayed in **Figure 5** is impractical for construction works for these trees, ground protection measures such as rumble boards must be installed for the duration of works with the encroached TPZ as displayed in **Figure 5**;

- Other trees within close proximity to the development footprint require TPZ fencing.

TPZ fencing as displayed in **Figure 5** will be required for the duration of works to protect the assessed trees.

A total of 16 trees are a sufficient distance away from the development footprint to be retained without specific tree protection fencing.

Table 3 provides a summary of impact assessment.

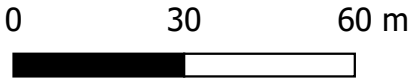
Table 3 Summary of Impact Assessment

Tree Assessment	Retention Value (Tree No)			Total
	High	Moderate	Low	
Remove (TPZ/SRZ Encroachment)	Trees 460			1
Remove (Development Footprint)	Trees 2, 21, 23, 25, 27, 56, 71, 73, 212, 216, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 235, 237, 238, 239, 241, 242, 243, 244, 245, 246, 249, 250, 251, 253, 254, 256, 257, 259, 260, 261, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 301, 303, 304, 305, 306, 307, 308, 309, 310, 311, 313, 314, 316, 317, 318, 319, 320, 324, 326, 327, 337, 338, 339, 343, 345, 349, 351, 353, 354, 355, 356, 357, 358, 359, 362, 363, 364, 365, 366, 367, 368, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 385, 387, 390, 393, 394, 395, 396, 400, 404, 405, 407, 408, 410, 411, 412, 414, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 427, 429, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 449, 450, 459, 461, 462, 463, 284a, 341a	Trees 1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40, 41, 42, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 68, 69, 70, 213, 234, 236, 240, 247, 248, 252, 255, 258, 262, 284, 300, 312, 315, 321, 322, 323, 325, 336, 340, 341, 342, 344, 346, 347, 348, 350, 352, 360, 361, 369, 384, 388, 389, 391, 392, 397, 398, 399, 401, 402, 403, 406, 409, 413, 415, 426, 428, 430, 431, 445, 446, 447, 448, 451	Tree 7, 386	292
Remove (Dead/Dying)			Trees 26, 39	2
Total Tree Removal	187	104	4	295
Retain (No fencing)	Trees, 330, 465, 479, 481, 482, 483, 484	Trees 46, 48, 50, 54, 60, 328, 329, 478, 480		16
Retain (Protection fencing)	Trees 62, 74, 180, 181, 188, 192, 193, 215, 217, 302, 335, 452, 453, 456, 457, 458, 464, 467, 473, 474, 475, 476	Trees 24, 44, 52, 58, 64, 66, 72, 182, 191, 194, 214, 331, 332, 333, 334, 454, 455, 466, 468, 469, 471, 472, 477		45
Total Tree Retention	29	32	0	61

Disclaimer: While all reasonable care has been taken to ensure the information shown on this map is up to date and accurate, no guarantee is given that the information portrayed is free from error or omission. Please verify the accuracy of all information prior to use.

Legend

- Cadastre
- Retain
- Retain (Protection)
- Remove (Footprint)
- SRZ
- TPZ
- Remove (Dead)
- Remove (SRZ Encroachment)



Note:
 1. Boundaries are not survey accurate
 2. Do not scale off the plan



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Figure 4 - Tree Impact Assessment

Location: 262 Hakone Rd, Woongarah, NSW, 2259

Client: Woolworths Group

Date: May 2025

AEP ref: 3287

7.0 Recommendations

7.1 Tree Retention and Removal

- Trees designated for removal within this report as outlined in **Section 6** should be removed by a qualified tree worker with appropriate professional liability insurance, and removed in a manner to prevent damage to retained trees; and
- Trees designated for retention within this report as outlined in **Section 6** to the development footprint should be retained with Tree Protection Measures.

7.2 Tree Protection Measures

- All tree maintenance and pruning works should be carried out by a qualified tree worker in accordance with AS4373 –2007 Pruning of Amenity Trees;
- A continuous TPZ fence should be installed for retained trees as displayed in **Figure 5**. The TPZ shall be delineated by a 1.8m interlocking chain wire fence located around trees designated to be retained within close proximity to the Works, in accordance with AS 4687. **Appendix D** details tree protection fencing that should be implemented;
- TPZ fencing must be installed before the commencement of any Works. The fencing should not be removed or altered until after the completion of works;
- All Contractors working in close proximity to the TPZ of Trees to be retained should be briefed as to the requirements of the Tree Protection Zone;
- The TPZ fencing and zone should be certified by the project arborist before construction commences;
- Tree health and condition should be monitored by the project arborist at regular stages during construction, at practical completion of construction, and after completion;
- The following activities should be avoided within the TPZ of trees to be retained where practicable:
 - Machine excavation of soil including trenching;
 - Operation of heavy equipment;
 - Stockpiling of soils;
 - Storage of heavy or other equipment;
 - Parking of vehicles;
 - Wash down and cleaning of equipment;
 - Excavation for silt fencing;
 - Dumping of waste;
 - Change of soil level or gradient; and
 - Covering with concrete, impermeable, or compacted surfaces.
- Where works are required that encroach into TPZ of trees to be retained, additional protection measures, which include trunk and low branch guards, and ground protection measures should be implemented following guidance in Australian standard *AS 4970 – 2009 Protection of trees on development Sites (Appendix D)*. These works should only be conducted under supervision of the project arborist. The use of “soft” construction methods including manual and vacuum removal of soils is recommended for works conducted within the TPZ of Trees to be retained.

7.3 Other Recommendations

- Clothing, equipment and boots should be clean and sanitised prior to each site visit to prevent onsite introduction of plant pests and diseases such as Myrtle rust; and
- Vehicles and construction equipment should utilise designated entry and egress points to avoid potential of impacts on Trees to be retained.

Disclaimer: While all reasonable care has been taken to ensure the information shown on this map is up to date and accurate, no guarantee is given that the information portrayed is free from error or omission. Please verify the accuracy of all information prior to use.

Legend

- Cadastre
- Tree Assessment**
 - Retain
 - Retain (Protection)
- Tree Protection Fencing
- SRZ
- TPZ



0 30 60 m

Note:
 1. Boundaries are not survey accurate
 2. Do not scale off the plan



Figure 5 - Tree Protection Plan

Date: May 2025

Location: 262 Hakone Rd, Woongarah, NSW, 2259

Client: Woolworths Group

AEP ref: 3287

8.0 Conclusion

The recommendations for tree retention and removal have been made with consideration of minimising Arboricultural impacts.

Based on the tree retention and removal proposed above the current proposal footprint will require the direct removal of 295 of the assessed trees, while 61 assessed trees can be retained within the site, with 45 requiring Tree Protection Measures including tree protection fencing.

Please note that assessment of tree removal and retention has been made with regards to a limited concept plan. These recommendations may be subject to change once further design and engineering detail has been prepared and this report will require updating in accordance with these changes.

The implementation of a detailed Tree Protection Plan and Tree Protection measures will be an essential part of the Construction Environment Management Plan to avoid further loss of trees in close proximity to the construction footprint.

We trust this meets your requirements. Should you require further details or clarification, please contact the undersigned or Natalie Black, Senior Environmental Manager (0431 249 360).

Yours faithfully,



Warwick Muir

Ecologist / Arborist

BSc AQF5

0448 689 698

9.0 References

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Appendix A – Tree Schedule

Appendix A– Assessed Tree Schedule

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
1	<i>Allocasuarina littoralis</i>	Black She-oak	0.22	0.28	2.5	1.5	2.5	3.5	2.5	20	9	Mature	Poor	Poor	High	.5-15	Moderate	2.6	1.9	Remove (Footprint)
2	<i>Angophora costata</i>	Smooth-barked Apple	0.16	0.19	3	2	3	3	2.75	24	7	Semi-mature	Good	Good	High	40+	High	2.0	1.6	Remove (Footprint)
3	<i>Allocasuarina littoralis</i>	Black She-oak	0.18	0.23	4	2	1	2.5	2.375	18	4	Mature	Poor	Poor	High	.5-15	Moderate	2.2	1.8	Remove (Footprint)
4	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	0.26	0.38	3	3	3	3	3	28	6	Semi-mature	Good	Good	High	15-40	Moderate	3.1	2.2	Remove (Footprint)
5	<i>Allocasuarina littoralis</i>	Black She-oak	0.39	0.45	4	4	3	4	3.75	44	7	Mature	Fair	Fair	High	.5-15	Moderate	4.7	2.4	Remove (Footprint)
6	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.20	0.23	3	3	3	3	3	28	5	Semi-mature	Good	Good	High	15-40	Moderate	2.4	1.8	Remove (Footprint)
7	<i>Allocasuarina littoralis</i>	Black She-oak	0.28	0.32	4	4	1	1	2.5	20	8	Mature	Fair	Fair	High	<5	Low	3.4	2.1	Remove (Footprint)
8	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.30	0.32	4	3	3	4	3.5	38	6	Semi-mature	Good	Good	High	15-40	Moderate	3.6	2.1	Remove (Footprint)
9	<i>Allocasuarina littoralis</i>	Black She-oak	0.20	0.26	2.5	1.5	1	2	1.75	10	9	Mature	Fair	Fair	High	.5-15	Moderate	2.4	1.9	Remove (Footprint)
10	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.16	0.18	3	3	3	3	3	28	6	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
11	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.20	0.22	2	2	2	2	2	13	4.5	Mature	Good	Good	High	15-40	Moderate	2.4	1.8	Remove (Footprint)
12	<i>Angophora costata</i>	Smooth-barked Apple	0.15	0.19	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
13	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	22.58	0.25	1	1	2.5	2.5	1.75	10	4	Mature	Good	Good	High	15-40	Moderate	2.7	1.8	Remove (Footprint)
14	<i>Melaleuca linariifolia</i>	Snow in Summer	0.17	0.21	3	3	3	3	3	28	7	Mature	Good	Good	High	15-40	Moderate	2.0	1.7	Remove (Footprint)
15	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	19.21	0.24	1	1	2	2	1.5	7	6	Mature	Fair	Good	High	.5-15	Moderate	2.3	1.8	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
16	<i>Melaleuca linariifolia</i>	Snow in Summer	0.19	0.24	3	3	3	3	3	28	7	Mature	Good	Good	High	15-40	Moderate	2.3	1.8	Remove (Footprint)
17	<i>Melaleuca linariifolia</i>	Snow in Summer	0.18	0.24	1	1.5	1	1	1.125	4	8	Mature	Good	Good	High	15-40	Moderate	2.2	1.8	Remove (Footprint)
18	<i>Melaleuca linariifolia</i>	Snow in Summer	0.21	0.23	3	3	3	3	3	28	6	Mature	Good	Good	High	15-40	Moderate	2.6	1.8	Remove (Footprint)
19	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.18	0.24	1.5	1.5	1.5	1.5	1.5	7	4	Mature	Good	Good	High	15-40	Moderate	2.1	1.8	Remove (Footprint)
20	<i>Melaleuca linariifolia</i>	Snow in Summer	0.15	0.17	3	3	3	3	3	28	7	Mature	Fair	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
21	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.17	0.24	1.5	1.5	1.5	1.5	1.5	7	9	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
22	<i>Angophora costata</i>	Smooth-barked Apple	0.78	0.96	4	4	4	4	4	50	9	Mature	Fair	Poor	High	.5-15	Moderate	9.4	3.3	Remove (Footprint)
23	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.15	0.23	1.5	1.5	1.5	1.5	1.5	7	8	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
24	<i>Allocasuarina littoralis</i>	Black She-oak	0.19	0.21	3	3	3	3	3	28	5	Semi-mature	Good	Good	High	15-40	Moderate	2.3	1.7	Retain (Protection)
25	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.16	0.25	2	2	2	2	2	13	9	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
26	<i>Eucalyptus acmenoides</i>	White Mahogany	0.52	0.66	5	5	5	5	5	79	18	Over-mature	Dead	Dead	High	Dead	Low	6.2	2.8	Remove (Dead Tree)
27	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.15	0.22	2	1.5	1.5	1.5	1.625	8	9	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
28	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.17	0.21	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.7	Remove (Footprint)
29	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.21	2	2	2	2	2	13	6	Mature	Good	Good	High	15-40	Moderate	2.5	1.7	Remove (Footprint)
30	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.31	0.55	5	4	5	4	4.5	64	8	Semi-mature	Good	Fair	High	15-40	Moderate	3.7	2.6	Remove (Footprint)
31	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.27	3	3	3	3	3	28	8	Mature	Good	Good	High	15-40	Moderate	2.5	1.9	Remove (Footprint)
32	<i>Melaleuca linariifolia</i>	Snow in Summer	0.32	0.36	4	4	4	4	4	50	9	Mature	Good	Good	High	15-40	Moderate	3.8	2.2	Remove (Footprint)
33	<i>Allocasuarina littoralis</i>	Black She-oak	0.18	0.26	3	3.5	3.5	3.5	3.375	36	8	Mature	Good	Good	High	15-40	Moderate	2.2	1.9	Remove (Footprint)
34	<i>Eucalyptus globoidea</i>	White Stringybark	0.23	0.27	4	4	3	4	3.75	44	9	Mature	Good	Good	High	15-40	Moderate	2.8	1.9	Remove (Footprint)
35	<i>Allocasuarina littoralis</i>	Black She-oak	0.24	0.27	2	2	3.5	3	2.625	22	10	Mature	Good	Good	High	15-40	Moderate	2.9	1.9	Remove (Footprint)
36	<i>Melaleuca linariifolia</i>	Snow in Summer	0.25	0.34	3	4	4	3	3.5	38	7	Mature	Good	Good	High	15-40	Moderate	3.0	2.1	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
37	<i>Allocasuarina littoralis</i>	Black She-oak	0.29	0.38	4	3	3	4	3.5	38	10	Mature	Fair	Fair	High	15-40	Moderate	3.5	2.2	Remove (Footprint)
38	<i>Glochidion ferdinandi</i>	#N/A	0.17	0.19	3	4	4	4	3.75	44	7	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
39	<i>Allocasuarina littoralis</i>	Black She-oak	0.24	0.29	0	0	0	0	0	0	6	Mature	Dead	Dead	High	Dead	Low	2.9	2.0	Remove (Dead Tree)
40	<i>Melaleuca linariifolia</i>	Snow in Summer	0.27	0.33	4	4	4	3	3.75	44	7	Mature	Good	Good	High	15-40	Moderate	3.2	2.1	Remove (Footprint)
41	<i>Allocasuarina littoralis</i>	Black She-oak	0.20	0.25	4	2	2	2	2.5	20	8	Mature	Good	Good	High	15-40	Moderate	2.4	1.8	Remove (Footprint)
42	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	0.21	0.26	4	4	4	3	3.75	44	8	Mature	Good	Good	High	15-40	Moderate	2.5	1.9	Remove (Footprint)
43	<i>Allocasuarina littoralis</i>	Black She-oak	0.23	0.27	1	1	3	3	2	13	9	Mature	Good	Good	High	15-40	Moderate	2.8	1.9	Remove (Footprint)
44	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.25	0.29	3	3	3	3	3	28	7	Mature	Good	Good	High	15-40	Moderate	3.0	2.0	Retain (Protection)
45	<i>Allocasuarina littoralis</i>	Black She-oak	0.16	0.24	0	2	2	2	1.5	7	8	Mature	Good	Good	High	15-40	Moderate	2.0	1.8	Remove (Footprint)
46	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.28	0.33	4	4	4	4	4	50	7	Mature	Good	Good	High	15-40	Moderate	3.3	2.1	Retain
47	<i>Allocasuarina littoralis</i>	Black She-oak	0.18	0.20	2	2	2	2	2	13	8	Mature	Good	Good	High	15-40	Moderate	2.2	1.7	Remove (Footprint)
48	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.24	0.31	4	4	4	3	3.75	44	10	Mature	Good	Good	High	15-40	Moderate	2.9	2.0	Retain
49	<i>Allocasuarina littoralis</i>	Black She-oak	0.19	0.22	3	3	2	2	2.5	20	7	Mature	Good	Good	High	15-40	Moderate	2.3	1.8	Remove (Footprint)
50	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	0.22	0.24	4	4	3	3	3.5	38	8	Mature	Good	Good	High	15-40	Moderate	2.6	1.8	Retain
51	<i>Allocasuarina littoralis</i>	Black She-oak	0.23	0.30	1	2	2	2	1.75	10	8	Mature	Good	Good	High	15-40	Moderate	2.7	2.0	Remove (Footprint)
52	<i>Melaleuca linariifolia</i>	Snow in Summer	0.17	0.19	3	3	3	3	3	28	7	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Retain (Protection)
53	<i>Allocasuarina littoralis</i>	Black She-oak	0.20	0.35	2	2	2	2	2	13	8	Mature	Good	Good	High	15-40	Moderate	2.4	2.1	Remove (Footprint)
54	<i>Melaleuca linariifolia</i>	Snow in Summer	0.21	0.36	4	4	4	3	3.75	44	7	Mature	Good	Fair	High	15-40	Moderate	2.5	2.2	Retain
55	<i>Allocasuarina littoralis</i>	Black She-oak	0.22	0.23	1	2	2	2	1.75	10	8	Mature	Fair	Good	High	15-40	Moderate	2.6	1.8	Remove (Footprint)
56	<i>Eucalyptus globoidea</i>	White Stringybark	0.16	0.19	3	3	3	3	3	28	8	Semi-mature	Good	Good	High	40+	High	2.0	1.6	Remove (Footprint)
57	<i>Allocasuarina littoralis</i>	Black She-oak	0.17	0.20	1	2	1	2	1.5	7	7	Mature	Good	Good	High	15-40	Moderate	2.1	1.7	Remove (Footprint)
58	<i>Eucalyptus globoidea</i>	White Stringybark	0.17	0.20	3	3	3	3	3	28	8	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.7	Retain (Protection)
59	<i>Allocasuarina littoralis</i>	Black She-oak	0.19	0.23	2	2	2	2	2	13	5	Mature	Good	Good	High	15-40	Moderate	2.3	1.8	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
60	<i>Melaleuca linariifolia</i>	Snow in Summer	0.24	0.36	4	4	4	3	3.75	44	7	Mature	Good	Fair	High	15-40	Moderate	2.9	2.2	Retain
61	<i>Allocasuarina littoralis</i>	Black She-oak	0.26	0.30	2	2	2	2	2	13	7	Mature	Good	Good	High	15-40	Moderate	3.2	2.0	Remove (Footprint)
62	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.18	0.23	4	4	3	3	3.5	38	10	Semi-mature	Good	Good	High	40+	High	2.2	1.8	Retain (Protection)
63	<i>Acacia falcata</i>	Sickle Wattle	0.19	0.20	4	4	4	4	4	50	4	Mature	Fair	Fair	High	.5-15	Moderate	2.2	1.7	Remove (Footprint)
64	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.16	0.21	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.7	Retain (Protection)
65	<i>Allocasuarina littoralis</i>	Black She-oak	0.17	0.21	4	4	4	4	4	50	10	Mature	Good	Good	High	15-40	Moderate	2.0	1.7	Remove (Footprint)
66	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.15	0.19	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Retain (Protection)
67	<i>Allocasuarina littoralis</i>	Black She-oak	0.27	0.35	4	4	4	4	4	50	10	Mature	Fair	Fair	High	15-40	Moderate	3.2	2.1	Remove (Footprint)
68	<i>Allocasuarina littoralis</i>	Black She-oak	0.20	0.28	3	3	3	3	3	28	8	Mature	Fair	Fair	High	15-40	Moderate	2.4	1.9	Remove (Footprint)
69	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.28	3	3	3	3	3	28	8	Mature	Poor	Fair	High	.5-15	Moderate	2.5	1.9	Remove (Footprint)
70	<i>Allocasuarina littoralis</i>	Black She-oak	0.25	0.35	4	4	4	4	4	50	12	Mature	Fair	Good	High	15-40	Moderate	3.0	2.1	Remove (Footprint)
71	<i>Angophora costata</i>	Smooth-barked Apple	0.15	0.18	3	3	3	3	3	28	8	Semi-mature	Good	Good	High	40+	High	2.0	1.6	Remove (Footprint)
72	<i>Allocasuarina littoralis</i>	Black She-oak	0.20	0.23	3	3	3	4	3.25	33	9	Mature	Fair	Fair	High	15-40	Moderate	2.4	1.8	Retain (Protection)
73	<i>Angophora costata</i>	Smooth-barked Apple	0.33	0.35	5	4	6	5	5	79	14	Mature	Good	Good	High	40+	High	4.0	2.1	Remove (Footprint)
74	<i>Corymbia gummifera</i>	Red Bloodwood	0.17	0.21	2	2	2	2	2	13	7	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Retain (Protection)
180	<i>Angophora costata</i>	Smooth-barked Apple	0.38	0.45	4	4	4	4	4	50	17	Mature	Good	Good	High	40+	High	4.6	2.4	Retain (Protection)
181	<i>Angophora costata</i>	Smooth-barked Apple	0.37	0.45	6	4	5	6	5.25	87	17	Mature	Good	Good	High	40+	High	4.4	2.4	Retain (Protection)
182	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.25	4	4	4	4	4	50	10	Semi-mature	Good	Good	High	15-40	Moderate	2.4	1.8	Retain (Protection)
188	<i>Angophora costata</i>	Smooth-barked Apple	0.51	0.55	6	6	6	6	6	113	18	Mature	Good	Good	High	40+	High	6.1	2.6	Retain (Protection)
191	<i>Corymbia gummifera</i>	Red Bloodwood	0.47	0.55	4	4	5	4	4.25	57	16	Mature	Good	Good	High	15-40	Moderate	5.6	2.6	Retain (Protection)
192	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.43	0.51	6	6	7	7	6.5	133	16	Mature	Good	Good	High	40+	High	5.2	2.5	Retain (Protection)
193	<i>Corymbia gummifera</i>	Red Bloodwood	0.87	1.20	5	5	7	7	6	113	21	Mature	Good	Good	High	40+	High	10.4	3.6	Retain (Protection)
194	<i>Corymbia gummifera</i>	Red Bloodwood	0.43	0.49	5	7	6	3	5.25	87	16	Mature	Good	Good	High	15-40	Moderate	5.2	2.5	Retain (Protection)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
212	<i>Angophora costata</i>	Smooth-barked Apple	0.34	0.41	4	4	4	4	4	50	17	Mature	Good	Good	High	40+	High	4.1	2.3	Remove (Footprint)
213	<i>Angophora costata</i>	Smooth-barked Apple	0.64	0.80	9	9	8	5	7.75	189	20	Mature	Fair	Fair	High	15-40	Moderate	7.7	3.0	Remove (Footprint)
214	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.34	0.43	4	4	5	3	4	50	16	Mature	Good	Good	High	15-40	Moderate	4.1	2.3	Retain (Protection)
215	<i>Angophora costata</i>	Smooth-barked Apple	0.37	0.46	5	8	7	8	7	154	18	Mature	Good	Good	High	40+	High	4.4	2.4	Retain (Protection)
216	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.33	0.43	5	3	4	6	4.5	64	17	Mature	Good	Good	High	40+	High	4.0	2.3	Remove (Footprint)
217	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.65	0.83	9	9	10	8	9	254	21	Mature	Good	Good	Very High	40+	High	7.8	3.1	Retain (Protection)
218	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.35	4	4	4	4	4	50	17	Mature	Good	Good	High	40+	High	3.2	2.1	Remove (Footprint)
219	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.39	0.46	5	5	4	5	4.75	71	16	Semi-mature	Good	Good	High	40+	High	4.7	2.4	Remove (Footprint)
220	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.27	4	4	4	4	4	50	9	Semi-mature	Good	Good	High	40+	High	2.8	1.9	Remove (Footprint)
221	<i>Angophora costata</i>	Smooth-barked Apple	0.32	0.36	5	4	4	4	4.25	57	12	Mature	Good	Good	High	40+	High	3.8	2.2	Remove (Footprint)
222	<i>Angophora costata</i>	Smooth-barked Apple	0.33	0.37	5	4	4	4	4.25	57	13	Mature	Good	Good	High	40+	High	4.0	2.2	Remove (Footprint)
223	<i>Eucalyptus globoidea</i>	White Stringybark	0.30	0.31	4	4	4	4	4	50	8	Semi-mature	Good	Good	High	40+	High	3.6	2.0	Remove (Footprint)
224	<i>Angophora costata</i>	Smooth-barked Apple	0.19	0.22	3	3	3	3	3	28	9	Semi-mature	Good	Good	High	40+	High	2.3	1.8	Remove (Footprint)
225	<i>Angophora costata</i>	Smooth-barked Apple	0.75	0.98	8	9	9	9	8.75	241	22	Mature	Good	Good	Very High	40+	High	9.0	3.3	Remove (Footprint)
226	<i>Angophora costata</i>	Smooth-barked Apple	0.26	0.32	4	2	2	3	2.75	24	7	Semi-mature	Good	Good	High	40+	High	3.1	2.1	Remove (Footprint)
227	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.27	2	2	2	2	2	13	15	Semi-mature	Good	Good	High	40+	High	2.8	1.9	Remove (Footprint)
228	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.25	1	2	2	2	1.75	10	14	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
229	<i>Angophora costata</i>	Smooth-barked Apple	0.13	0.15	2	1	1	2	1.5	7	10	Semi-mature	Good	Fair	High	40+	High	2.0	1.5	Remove (Footprint)
230	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.30	2	2	3	2	2.25	16	14	Semi-mature	Good	Good	High	40+	High	2.8	2.0	Remove (Footprint)
231	<i>Angophora costata</i>	Smooth-barked Apple	0.26	0.28	2	3	1	2.5	2.125	14	9	Semi-mature	Good	Fair	High	40+	High	3.1	1.9	Remove (Footprint)
232	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.33	3	2	3	3	2.75	24	18	Semi-mature	Good	Good	High	40+	High	3.2	2.1	Remove (Footprint)
233	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.24	3	3	3	0	2.25	16	9	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
234	<i>Angophora costata</i>	Smooth-barked Apple	0.41	0.55	5	4	4	4	4.25	57	14	Mature	Good	Good	High	15-40	Moderate	4.9	2.6	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
235	<i>Angophora costata</i>	Smooth-barked Apple	0.35	0.44	4	3	3	4	3.5	38	16	Mature	Good	Good	High	40+	High	4.2	2.3	Remove (Footprint)
236	<i>Angophora costata</i>	Smooth-barked Apple	0.32	0.38	3	3	3	3	3	28	12	Semi-mature	Good	Good	High	15-40	Moderate	3.8	2.2	Remove (Footprint)
237	<i>Angophora costata</i>	Smooth-barked Apple	0.41	0.50	4	4	4	4	4	50	14	Mature	Good	Good	High	40+	High	4.9	2.5	Remove (Footprint)
238	<i>Angophora costata</i>	Smooth-barked Apple	0.44	0.51	6	5	6	6	5.75	104	17	Mature	Good	Good	High	40+	High	5.3	2.5	Remove (Footprint)
239	<i>Angophora costata</i>	Smooth-barked Apple	0.39	0.45	4	6	6	6	5.5	95	17	Mature	Good	Good	High	40+	High	4.7	2.4	Remove (Footprint)
240	<i>Angophora costata</i>	Smooth-barked Apple	0.22	0.26	4	4	4	4	4	50	13	Semi-mature	Fair	Fair	High	15-40	Moderate	2.6	1.9	Remove (Footprint)
241	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.51	0.65	4	6	6	8	6	113	16	Mature	Good	Good	High	40+	High	6.1	2.8	Remove (Footprint)
242	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.50	0.72	3	9	6	9	6.75	143	16	Mature	Good	Fair	High	40+	High	5.9	2.9	Remove (Footprint)
243	<i>Angophora costata</i>	Smooth-barked Apple	0.45	0.79	5	5	5	5	5	79	14	Mature	Good	Good	High	40+	High	5.4	3.0	Remove (Footprint)
244	<i>Angophora costata</i>	Smooth-barked Apple	0.61	0.79	5	6	7	6	6	113	22	Mature	Good	Good	High	40+	High	7.3	3.0	Remove (Footprint)
245	<i>Angophora costata</i>	Smooth-barked Apple	0.30	0.32	6	3	2	7	4.5	64	9	Mature	Good	Fair	High	40+	High	3.6	2.1	Remove (Footprint)
246	<i>Angophora costata</i>	Smooth-barked Apple	0.57	0.85	7	8	7	7	7.25	165	21	Mature	Good	Good	High	40+	High	6.9	3.1	Remove (Footprint)
247	<i>Allocasuarina littoralis</i>	Black She-oak	0.23	0.27	4	4	4	4	4	50	8	Mature	Fair	Fair	High	.5-15	Moderate	2.8	1.9	Remove (Footprint)
248	<i>Allocasuarina littoralis</i>	Black She-oak	0.24	0.27	4	4	4	5	4.25	57	8	Mature	Good	Good	High	15-40	Moderate	2.9	1.9	Remove (Footprint)
249	<i>Angophora costata</i>	Smooth-barked Apple	0.52	0.77	7	7	8	8	7.5	177	22	Mature	Good	Good	High	40+	High	6.2	3.0	Remove (Footprint)
250	<i>Angophora costata</i>	Smooth-barked Apple	0.79	0.95	8	8	8	8	8	201	22	Mature	Good	Good	Very High	40+	High	9.4	3.2	Remove (Footprint)
251	<i>Angophora costata</i>	Smooth-barked Apple	0.37	0.46	5	5	7	6	5.75	104	18	Mature	Good	Good	High	40+	High	4.4	2.4	Remove (Footprint)
252	<i>Angophora costata</i>	Smooth-barked Apple	0.21	0.28	4	4	4	4	4	50	11	Mature	Good	Good	High	15-40	Moderate	2.5	1.9	Remove (Footprint)
253	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.63	0.55	6	6	5	5	5.5	95	7	Mature	Good	Fair	High	40+	High	7.6	2.6	Remove (Footprint)
254	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.35	0.37	4	4	4	4	4	50	10	Mature	Good	Good	High	40+	High	4.2	2.2	Remove (Footprint)
255	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.19	0.21	4	4	3	2	3.25	33	9	Mature	Fair	Fair	High	15-40	Moderate	2.3	1.7	Remove (Footprint)
256	<i>Angophora costata</i>	Smooth-barked Apple	0.34	0.42	6	5	6	3	5	79	19	Mature	Good	Good	High	40+	High	4.1	2.3	Remove (Footprint)
257	<i>Angophora costata</i>	Smooth-barked Apple	0.35	0.43	7	4	7	7	6.25	123	19	Mature	Good	Good	High	40+	High	4.2	2.3	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
258	<i>Angophora costata</i>	Smooth-barked Apple	0.40	0.44	4	4	2	4	3.5	38	11	Mature	Good	Fair	High	15-40	Moderate	4.8	2.3	Remove (Footprint)
259	<i>Angophora costata</i>	Smooth-barked Apple	0.41	0.46	6	6	6	6	6	113	18	Mature	Good	Good	High	40+	High	4.9	2.4	Remove (Footprint)
260	<i>Angophora costata</i>	Smooth-barked Apple	0.31	0.38	4	6	6	6	5.5	95	13	Mature	Good	Good	High	40+	High	3.7	2.2	Remove (Footprint)
261	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.48	0.54	8	8	4	7	6.75	143	21	Mature	Good	Good	High	40+	High	5.8	2.6	Remove (Footprint)
262	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.23	0.25	2	2	2	2	2	13	8	Semi-mature	Good	Good	High	15-40	Moderate	2.8	1.8	Remove (Footprint)
263	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.34	0.38	5	2	4	5	4	50	20	Mature	Good	Good	High	40+	High	4.1	2.2	Remove (Footprint)
264	<i>Angophora costata</i>	Smooth-barked Apple	0.31	0.33	2	2	2	2	2	13	14	Mature	Good	Good	High	40+	High	3.7	2.1	Remove (Footprint)
265	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.45	0.46	6	5	5	3	4.75	71	14	Mature	Good	Good	High	40+	High	5.3	2.4	Remove (Footprint)
266	<i>Angophora costata</i>	Smooth-barked Apple	0.24	0.28	2	3	3	1	2.25	16	14	Mature	Good	Good	High	40+	High	2.9	1.9	Remove (Footprint)
267	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.27	0.33	4	4	5	5	4.5	64	16	Mature	Good	Good	High	40+	High	3.2	2.1	Remove (Footprint)
268	<i>Angophora costata</i>	Smooth-barked Apple	0.42	0.50	6	6	6	8	6.5	133	19	Mature	Good	Good	High	40+	High	5.0	2.5	Remove (Footprint)
269	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.68	0.81	5	7	8	9	7.25	165	19	Mature	Good	Good	High	40+	High	8.2	3.0	Remove (Footprint)
270	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.32	0.33	5	3	3	4	3.75	44	13	Semi-mature	Good	Good	High	40+	High	3.8	2.1	Remove (Footprint)
271	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.21	0.24	1	1	2	2	1.5	7	13	Semi-mature	Good	Good	High	40+	High	2.5	1.8	Remove (Footprint)
272	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.22	0.35	2	2	2	2	2	13	11	Semi-mature	Good	Good	High	40+	High	2.6	2.1	Remove (Footprint)
273	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.17	0.21	1	2	2	2	1.75	10	13	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Remove (Footprint)
274	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.29	0.32	1	2	2	2	1.75	10	14	Semi-mature	Good	Good	High	40+	High	3.5	2.1	Remove (Footprint)
275	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.28	0.34	3	0	4	3	2.5	20	12	Semi-mature	Good	Good	High	40+	High	3.4	2.1	Remove (Footprint)
276	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.19	0.22	1	1	3	2	1.75	10	9	Semi-mature	Fair	Fair	High	40+	High	2.3	1.8	Remove (Footprint)
277	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.23	0.28	3	3	2	3	2.75	24	11	Semi-mature	Good	Good	High	40+	High	2.8	1.9	Remove (Footprint)
278	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.16	0.21	2	1	2	2	1.75	10	7	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Remove (Footprint)
279	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.20	0.28	4	3	2	4	3.25	33	9	Semi-mature	Good	Good	High	40+	High	2.4	1.9	Remove (Footprint)
280	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.36	0.42	6	4	4	4	4.5	64	12	Mature	Good	Good	High	40+	High	4.3	2.3	Remove (Footprint)

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					N	E	S	W												
281	<i>Angophora costata</i>	Smooth-barked Apple	0.31	0.39	3	3	3	3	3	28	9	Semi-mature	Good	Good	High	40+	High	3.7	2.2	Remove (Footprint)
282	<i>Angophora costata</i>	Smooth-barked Apple	0.21	0.25	1	1	3	3	2	13	9	Semi-mature	Fair	Fair	High	40+	High	2.5	1.8	Remove (Footprint)
283	<i>Angophora costata</i>	Smooth-barked Apple	0.16	0.18	3	3	3	2	2.75	24	5	Semi-mature	Good	Good	High	40+	High	2.0	1.6	Remove (Footprint)
284	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.31	0.38	4	4	4	4	4	50	8	Semi-mature	Good	Poor	High	15-40	Moderate	3.7	2.2	Remove (Footprint)
285	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.70	0.76	9	7	7	9	8	201	19.5	Mature	Good	Good	Very High	40+	High	8.4	2.9	Remove (Footprint)
286	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.25	0.29	5	4	3	5	4.25	57	16	Mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
287	<i>Corymbia gummifera</i>	Red Bloodwood	0.48	0.57	5	5	3	3	4	50	18	Mature	Fair	Fair	Very High	40+	High	5.8	2.6	Remove (Footprint)
288	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.41	0.45	4	5	5	5	4.75	71	18	Mature	Good	Good	High	40+	High	4.9	2.4	Remove (Footprint)
289	<i>Angophora costata</i>	Smooth-barked Apple	0.29	0.35	3	2	3	3	2.75	24	12	Semi-mature	Good	Good	High	40+	High	3.5	2.1	Remove (Footprint)
290	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.57	0.66	7	6	7	6	6.5	133	17	Mature	Good	Good	High	40+	High	6.9	2.8	Remove (Footprint)
291	<i>Angophora costata</i>	Smooth-barked Apple	1.00	1.07	5	9	4.5	6	6.125	118	20	Mature	Good	Fair	Very High	40+	High	12.0	3.4	Remove (Footprint)
292	<i>Angophora costata</i>	Smooth-barked Apple	0.18	0.21	2	2	3	3	2.5	20	12	Semi-mature	Good	Good	High	40+	High	2.2	1.7	Remove (Footprint)
293	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.25	2	3.5	3.5	1	2.5	20	14	Semi-mature	Fair	Good	High	40+	High	2.8	1.8	Remove (Footprint)
294	<i>Angophora costata</i>	Smooth-barked Apple	0.39	0.45	3	5	6	5	4.75	71	16	Mature	Good	Good	High	40+	High	4.7	2.4	Remove (Footprint)
295	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.61	0.71	4	5	7	7	5.75	104	16	Mature	Good	Good	High	40+	High	7.3	2.9	Remove (Footprint)
296	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.45	0.46	8	6	3	8	6.25	123	15	Mature	Good	Good	High	40+	High	5.4	2.4	Remove (Footprint)
297	<i>Angophora costata</i>	Smooth-barked Apple	0.26	0.27	4	3.5	3	2	3.125	31	16	Mature	Good	Good	High	40+	High	3.1	1.9	Remove (Footprint)
298	<i>Angophora costata</i>	Smooth-barked Apple	0.29	0.34	2	3	3	3	2.75	24	23	Semi-mature	Good	Good	High	40+	High	3.5	2.1	Remove (Footprint)
299	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.26	0.30	2	2	2	2	2	13	19	Mature	Good	Good	High	40+	High	3.1	2.0	Remove (Footprint)
300	<i>Allocasuarina littoralis</i>	Black She-oak	0.26	0.40	4	4	5	4	4.25	57	18	Mature	Good	Good	High	15-40	Moderate	3.1	2.3	Remove (Footprint)
301	<i>Angophora costata</i>	Smooth-barked Apple	0.36	0.39	1	2	2	2	1.75	10	19	Mature	Fair	Good	High	40+	High	4.3	2.2	Remove (Footprint)
302	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.83	0.97	5	7	11	7	7.5	177	25	Mature	Good	Good	Very High	40+	High	10.0	3.3	Retain (Protection)
303	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.51	0.54	4	5	5	5	4.75	71	18	Mature	Good	Good	High	40+	High	6.1	2.6	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
304	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.14	0.16	1	4	4	4	3.25	33	12	Juvenile	Fair	Fair	High	40+	High	2.0	1.5	Remove (Footprint)
305	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.28	6	5	3	4	4.5	64	16	Mature	Good	Good	High	40+	High	3.2	1.9	Remove (Footprint)
306	<i>Angophora costata</i>	Smooth-barked Apple	0.86	0.90	6	6	6	6	6	113	19	Mature	Good	Good	Very High	40+	High	10.3	3.2	Remove (Footprint)
307	<i>Angophora costata</i>	Smooth-barked Apple	0.14	0.15	1	1	1	3	1.5	7	9	Juvenile	Good	Good	High	40+	High	2.0	1.5	Remove (Footprint)
308	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.21	3	3	1	3	2.5	20	12	Semi-mature	Good	Good	High	40+	High	2.4	1.7	Remove (Footprint)
309	<i>Angophora costata</i>	Smooth-barked Apple	0.15	0.15	2.5	1	1.5	1.5	1.625	8	10	Juvenile	Good	Good	High	40+	High	2.0	1.5	Remove (Footprint)
310	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.29	0.34	3	3	2.5	2	2.625	22	20	Semi-mature	Good	Good	High	40+	High	3.5	2.1	Remove (Footprint)
311	<i>Angophora costata</i>	Smooth-barked Apple	0.29	0.37	3.5	1.5	3	2	2.5	20	20	Semi-mature	Good	Good	High	40+	High	3.5	2.2	Remove (Footprint)
312	<i>Allocasuarina littoralis</i>	Black She-oak	0.19	0.21	3	3	5	4	3.75	44	8	Mature	Good	Good	High	15-40	Moderate	2.3	1.7	Remove (Footprint)
313	<i>Angophora costata</i>	Smooth-barked Apple	0.24	0.25	2	2	3	3	2.5	20	12	Mature	Good	Good	High	40+	High	2.9	1.8	Remove (Footprint)
314	<i>Angophora costata</i>	Smooth-barked Apple	0.34	0.37	3	5	5	3	4	50	18	Mature	Good	Good	High	40+	High	4.1	2.2	Remove (Footprint)
315	<i>Allocasuarina littoralis</i>	Black She-oak	0.17	0.19	3	4	4	3	3.5	38	8	Mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
316	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.22	4	4	4	4	4	50	10	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
317	<i>Angophora costata</i>	Smooth-barked Apple	0.31	0.34	1	4	5	4	3.5	38	16	Semi-mature	Good	Good	High	40+	High	3.7	2.1	Remove (Footprint)
318	<i>Angophora costata</i>	Smooth-barked Apple	0.41	0.55	6	6	6	6	6	113	22	Mature	Good	Good	High	40+	High	4.9	2.6	Remove (Footprint)
319	<i>Angophora costata</i>	Smooth-barked Apple	0.25	0.29	2	2	2	2	2	13	19	Semi-mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
320	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.30	4	3	1	2	2.5	20	17	Semi-mature	Good	Good	High	40+	High	3.2	2.0	Remove (Footprint)
321	<i>Angophora costata</i>	Smooth-barked Apple	0.38	0.42	0	0	0	4	1	3	14	Mature	Poor	Poor	High	.5-15	Moderate	4.6	2.3	Remove (Footprint)
322	<i>Glochidion ferdinandi</i>	Cheese Tree	0.20	0.28	2	2	2	2	2	13	6	Mature	Good	Good	High	15-40	Moderate	2.4	1.9	Remove (Footprint)
323	<i>Glochidion ferdinandi</i>	Cheese Tree	0.16	0.18	2	1	2	2	1.75	10	8	Mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
324	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.14	0.17	0.3	1	2	1	1.075	4	7	Semi-mature	Fair	Fair	High	40+	High	2.0	1.6	Remove (Footprint)
325	<i>Allocasuarina littoralis</i>	Black She-oak	0.16	0.18	1.5	1.5	1.5	1.5	1.5	7	6	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
326	<i>Angophora costata</i>	Smooth-barked Apple	0.26	0.35	5	5	4	4	4.5	64	16	Mature	Good	Good	High	40+	High	3.1	2.1	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
327	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.25	0.30	2.5	1	2	4	2.375	18	9	Semi-mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
328	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.24	0.30	4	4	4	4	4	50	10	Mature	Good	Good	High	15-40	Moderate	2.9	2.0	Retain
329	<i>Allocasuarina littoralis</i>	Black She-oak	0.22	0.26	4	4	4	4	4	50	7	Mature	Fair	Good	High	15-40	Moderate	2.6	1.9	Retain
330	<i>Angophora costata</i>	Smooth-barked Apple	0.24	0.30	4	4	4	4	4	50	14	Mature	Good	Good	High	40+	High	2.9	2.0	Retain
331	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.29	0.34	4	4	3	3	3.5	38	7	Mature	Good	Good	High	15-40	Moderate	3.5	2.1	Retain (Protection)
332	<i>Melaleuca linariifolia</i>	Snow in Summer	0.26	0.31	4	4	4	4	4	50	9	Mature	Good	Good	High	15-40	Moderate	3.1	2.0	Retain (Protection)
333	<i>Melaleuca linariifolia</i>	Snow in Summer	0.30	0.34	4	4	4	4	4	50	9	Mature	Good	Good	High	15-40	Moderate	3.5	2.1	Retain (Protection)
334	<i>Melaleuca linariifolia</i>	Snow in Summer	0.21	0.26	3	3	3	3	3	28	9	Mature	Good	Good	High	15-40	Moderate	2.6	1.9	Retain (Protection)
335	<i>Angophora costata</i>	Smooth-barked Apple	0.22	0.28	4	4	4	4	4	50	14	Mature	Good	Good	High	40+	High	2.6	1.9	Retain (Protection)
336	<i>Melaleuca linariifolia</i>	Snow in Summer	0.22	0.27	3	3	3	3	3	28	10	Mature	Good	Good	High	15-40	Moderate	2.6	1.9	Remove (Footprint)
337	<i>Eucalyptus globoidea</i>	White Stringybark	0.20	0.25	4	4	4	4	4	50	9	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
338	<i>Angophora costata</i>	Smooth-barked Apple	0.29	0.36	4	4	4	4	4	50	16	Mature	Good	Good	High	40+	High	3.5	2.2	Remove (Footprint)
339	<i>Angophora costata</i>	Smooth-barked Apple	0.25	0.32	4	4	4	4	4	50	15	Mature	Good	Good	High	40+	High	3.0	2.1	Remove (Footprint)
340	<i>Melaleuca linariifolia</i>	Snow in Summer	0.20	0.25	4	3	3	3	3.25	33	9	Mature	Good	Good	High	15-40	Moderate	2.4	1.8	Remove (Footprint)
341	<i>Angophora costata</i>	Smooth-barked Apple	0.58	0.83	4	4	4	3	3.75	44	7	Mature	Fair	Poor	High	.5-15	Moderate	7.0	3.1	Remove (Footprint)
342	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.19	0.23	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.3	1.8	Remove (Footprint)
343	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.20	0.24	4	3	3	3	3.25	33	10	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
344	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.19	0.23	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.3	1.8	Remove (Footprint)
345	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.28	0.35	4	4	4	4	4	50	10	Mature	Good	Good	High	40+	High	3.4	2.1	Remove (Footprint)
346	<i>Eucalyptus globoidea</i>	White Stringybark	0.16	0.20	3	3	3	3	3	28	8	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.7	Remove (Footprint)
347	<i>Eucalyptus globoidea</i>	White Stringybark	0.15	0.19	3	3	3	3	3	28	7	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
348	<i>Eucalyptus globoidea</i>	White Stringybark	0.15	0.18	3	3	3	3	3	28	7	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.6	Remove (Footprint)
349	<i>Eucalyptus globoidea</i>	White Stringybark	0.20	0.22	0.5	2	2	2	1.625	8	7	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)

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350	<i>Acacia irrorata</i>	Green Wattle	0.31	0.31	5	3	3	5	4	50	8	Mature	Good	Good	High	15-40	Moderate	3.7	2.0	Remove (Footprint)
351	<i>Eucalyptus globoidea</i>	White Stringybark	0.16	0.24	3	1	3	3	2.5	20	6	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
352	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.18	0.21	3	3	3	3	3	28	7	Mature	Good	Good	High	15-40	Moderate	2.2	1.7	Remove (Footprint)
353	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.27	0.37	4	4	4	4	4	50	9	Mature	Good	Good	High	40+	High	3.2	2.2	Remove (Footprint)
354	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.28	0.39	4	3	4	4	3.75	44	10	Semi-mature	Good	Good	High	40+	High	3.4	2.2	Remove (Footprint)
355	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.40	0.48	5	5	4	4	4.5	64	13	Mature	Good	Good	High	40+	High	4.8	2.4	Remove (Footprint)
356	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.41	0.49	5	5	5	5	5	79	15	Mature	Good	Good	High	40+	High	4.9	2.5	Remove (Footprint)
357	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.17	0.25	1	2	2	2	1.75	10	9	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
358	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.22	0.29	2.5	3	2.5	2.5	2.625	22	11	Semi-mature	Good	Good	High	40+	High	2.6	2.0	Remove (Footprint)
359	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.22	0.30	3	2	2	2	2.25	16	11	Semi-mature	Good	Good	High	40+	High	2.6	2.0	Remove (Footprint)
360	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.35	3	4	4	4	3.75	44	14	Semi-mature	Good	Good	High	15-40	Moderate	3.2	2.1	Remove (Footprint)
361	<i>Angophora costata</i>	Smooth-barked Apple	0.28	0.53	4	4	4	4	4	50	14	Semi-mature	Good	Good	High	15-40	Moderate	3.4	2.5	Remove (Footprint)
362	<i>Eucalyptus globoidea</i>	White Stringybark	0.20	0.24	4	4	3	4	3.75	44	9	Mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
363	<i>Eucalyptus globoidea</i>	White Stringybark	0.35	0.41	4	4	4	4	4	50	12	Mature	Good	Good	High	40+	High	4.2	2.3	Remove (Footprint)
364	<i>Eucalyptus globoidea</i>	White Stringybark	1.01	1.20	8	7	8	7	7.5	177	20	Mature	Good	Good	High	40+	High	12.1	3.6	Remove (Footprint)
365	<i>Eucalyptus globoidea</i>	White Stringybark	0.23	0.33	4	4	4	4	4	50	9	Semi-mature	Good	Good	High	40+	High	2.8	2.1	Remove (Footprint)
366	<i>Angophora costata</i>	Smooth-barked Apple	0.26	0.31	4	4	4	4	4	50	10	Semi-mature	Good	Good	High	40+	High	3.1	2.0	Remove (Footprint)
367	<i>Angophora costata</i>	Smooth-barked Apple	0.58	0.71	6	7	7	7	6.75	143	19	Mature	Good	Good	High	40+	High	7.0	2.9	Remove (Footprint)
368	<i>Eucalyptus acmenoides</i>	White Mahogany	0.53	0.60	6	7	6	7	6.5	133	21	Mature	Good	Good	High	40+	High	6.4	2.7	Remove (Footprint)
369	<i>Eucalyptus globoidea</i>	White Stringybark	0.50	0.56	7	6	4	4	5.25	87	23	Mature	Fair	Fair	High	15-40	Moderate	6.0	2.6	Remove (Footprint)
370	<i>Angophora costata</i>	Smooth-barked Apple	0.22	0.24	2.5	1	1.5	2	1.75	10	13	Semi-mature	Fair	Good	High	40+	High	2.6	1.8	Remove (Footprint)
371	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.30	0.30	3	3	3	3	3	28	1	Semi-mature	Good	Good	High	40+	High	3.6	2.0	Remove (Footprint)
372	<i>Angophora costata</i>	Smooth-barked Apple	0.15	0.16	2	2	2	2	2	13	9	Juvenile	Good	Good	High	40+	High	2.0	1.5	Remove (Footprint)

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373	<i>Angophora costata</i>	Smooth-barked Apple	0.73	0.79	3	3	3	3	3	28	18	Mature	Fair	Poor	Very High	15-40	High	8.8	3.0	Remove (Footprint)
374	<i>Eucalyptus globoidea</i>	White Stringybark	0.35	0.43	5	5	4	5	4.75	71	12	Mature	Good	Good	High	40+	High	4.2	2.3	Remove (Footprint)
375	<i>Angophora costata</i>	Smooth-barked Apple	0.17	0.23	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Remove (Footprint)
376	<i>Angophora costata</i>	Smooth-barked Apple	0.33	0.44	4	3	3	3	3.25	33	10	Semi-mature	Good	Fair	High	40+	High	4.0	2.3	Remove (Footprint)
377	<i>Angophora costata</i>	Smooth-barked Apple	0.28	0.35	4	3	4	3	3.5	38	10	Semi-mature	Good	Good	High	40+	High	3.4	2.1	Remove (Footprint)
378	<i>Angophora costata</i>	Smooth-barked Apple	0.25	0.30	4	3	4	3	3.5	38	8	Semi-mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
379	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.20	0.23	3	2	2	2	2.25	16	13	Semi-mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
380	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.43	0.49	8	7	5	8	7	154	17	Mature	Good	Good	High	40+	High	5.2	2.5	Remove (Footprint)
381	<i>Eucalyptus globoidea</i>	White Stringybark	0.00	0.59	7	6	5	6	6	113	15	Mature	Good	Good	High	40+	High	2.0	2.7	Remove (Footprint)
382	<i>Angophora costata</i>	Smooth-barked Apple	0.92	1.12	9	8	7	8	8	201	19	Mature	Good	Good	Very High	15-40	High	11.0	3.5	Remove (Footprint)
383	<i>Eucalyptus globoidea</i>	White Stringybark	0.43	0.52	6	4	5	6	5.25	87	21	Mature	Good	Good	High	40+	High	5.2	2.5	Remove (Footprint)
384	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.32	0.35	3	3	3	3	3	28	7	Semi-mature	Good	Good	High	15-40	Moderate	3.8	2.1	Remove (Footprint)
385	<i>Angophora costata</i>	Smooth-barked Apple	0.25	0.30	4	4	3	4	3.75	44	10	Semi-mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
386	<i>Eucalyptus globoidea</i>	White Stringybark	0.60	0.70	7	7	7	7	7	154	23	Over-mature	Poor	Fair	High	<5	Low	7.2	2.8	Remove (Footprint)
387	<i>Angophora costata</i>	Smooth-barked Apple	0.56	0.72	8	7	7	8	7.5	177	18	Mature	Good	Good	High	40+	High	6.7	2.9	Remove (Footprint)
388	<i>Melaleuca linariifolia</i>	Snow in Summer	0.25	0.28	3	3	3	3	3	28	12	Mature	Good	Good	High	15-40	Moderate	3.0	1.9	Remove (Footprint)
389	<i>Melaleuca linariifolia</i>	Snow in Summer	0.26	0.28	2.5	1.5	2	2	2	13	8	Mature	Good	Good	High	15-40	Moderate	3.1	1.9	Remove (Footprint)
390	<i>Eucalyptus acmenoides</i>	White Mahogany	0.28	0.34	4	3	3	4	3.5	38	9	Semi-mature	Good	Good	High	40+	High	3.4	2.1	Remove (Footprint)
391	<i>Melaleuca linariifolia</i>	Snow in Summer	0.18	0.23	1	1	1	1	1	3	6	Mature	Good	Good	High	15-40	Moderate	2.2	1.8	Remove (Footprint)
392	<i>Melaleuca linariifolia</i>	Snow in Summer	0.20	0.25	1.5	2	2	2	1.875	11	7	Mature	Good	Good	High	15-40	Moderate	2.4	1.8	Remove (Footprint)
393	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.35	0.45	4	4	3	3	3.5	38	13	Mature	Good	Good	High	40+	High	4.2	2.4	Remove (Footprint)
394	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.29	3	3	2	3	2.75	24	10	Semi-mature	Good	Good	High	40+	High	2.8	2.0	Remove (Footprint)
395	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.36	0.48	4	4	4	5	4.25	57	16	Mature	Good	Good	High	40+	High	4.3	2.4	Remove (Footprint)

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396	<i>Eucalyptus robusta</i>	Swamp Mahogany	0.32	0.45	5	4	4	4	4.25	57	16	Mature	Good	Good	High	40+	High	3.8	2.4	Remove (Footprint)
397	<i>Melaleuca linariifolia</i>	Snow in Summer	0.21	0.26	3	3	3	3	3	28	10	Mature	Good	Good	High	15-40	Moderate	2.5	1.9	Remove (Footprint)
398	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	0.22	0.25	3	3	3	4	3.25	33	10	Mature	Good	Good	High	15-40	Moderate	2.6	1.8	Remove (Footprint)
399	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.25	0.28	4	4	4	4	4	50	6	Mature	Good	Good	High	15-40	Moderate	3.0	1.9	Remove (Footprint)
400	<i>Angophora costata</i>	Smooth-barked Apple	0.81	1.09	8	8	8	8	8	201	21	Mature	Good	Good	Very High	40+	High	9.7	3.4	Remove (Footprint)
401	<i>Melaleuca nodosa</i>	Ball Honey Myrtle	0.17	0.20	3	3	3	3	3	28	9	Mature	Good	Good	High	15-40	Moderate	2.0	1.7	Remove (Footprint)
402	<i>Melaleuca linariifolia</i>	Snow in Summer	0.33	0.50	4	4	4	4	4	50	12	Mature	Good	Good	High	15-40	Moderate	3.9	2.5	Remove (Footprint)
403	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.23	0.29	4	3	3	3	3.25	33	10	Semi-mature	Fair	Good	High	15-40	Moderate	2.8	2.0	Remove (Footprint)
404	<i>Angophora costata</i>	Smooth-barked Apple	0.17	0.21	3	4	3	3	3.25	33	8	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Remove (Footprint)
405	<i>Eucalyptus acmenoides</i>	White Mahogany	0.39	0.46	5	5	5	4	4.75	71	16	Mature	Good	Good	High	40+	High	4.7	2.4	Remove (Footprint)
406	<i>Eucalyptus globoidea</i>	White Stringybark	0.27	0.34	4	3	4	4	3.75	44	10	Mature	Good	Good	High	15-40	Moderate	3.2	2.1	Remove (Footprint)
407	<i>Angophora costata</i>	Smooth-barked Apple	0.25	0.29	2	2	2	2	2	13	10	Semi-mature	Good	Good	High	40+	High	3.0	2.0	Remove (Footprint)
408	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.78	0.89	7	8	8	8	7.75	189	22	Mature	Good	Good	High	40+	High	9.4	3.2	Remove (Footprint)
409	<i>Eucalyptus globoidea</i>	White Stringybark	0.43	0.45	5	5	5	5	5	79	16	Mature	Fair	Poor	High	15-40	Moderate	5.2	2.4	Remove (Footprint)
410	<i>Eucalyptus globoidea</i>	White Stringybark	0.61	0.69	5	6	4	8	5.75	104	14	Mature	Fair	Fair	High	40+	High	7.3	2.8	Remove (Footprint)
411	<i>Eucalyptus globoidea</i>	White Stringybark	0.41	0.50	2.5	4	2.5	3.5	3.125	31	23	Mature	Fair	Fair	High	40+	High	4.9	2.5	Remove (Footprint)
412	<i>Eucalyptus globoidea</i>	White Stringybark	0.62	0.68	6	2	6	6	5	79	16	Mature	Good	Good	High	40+	High	7.4	2.8	Remove (Footprint)
413	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.48	0.55	6	6	6	6	6	113	14	Mature	Good	Fair	High	15-40	Moderate	5.8	2.6	Remove (Footprint)
414	<i>Angophora costata</i>	Smooth-barked Apple	0.14	0.18	2	2	1	2	1.75	10	6	Semi-mature	Good	Good	High	40+	High	2.0	1.6	Remove (Footprint)
415	<i>Allocasuarina littoralis</i>	Black She-oak	0.24	0.28	3	3	2	3	2.75	24	7	Mature	Good	Good	High	15-40	Moderate	2.9	1.9	Remove (Footprint)
416	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.21	0.26	2	2	1	1	1.5	7	6	Juvenile	Good	Good	High	40+	High	2.5	1.9	Remove (Footprint)
417	<i>Corymbia gummifera</i>	Red Bloodwood	0.28	0.54	1	2	1	2	1.5	7	10	Semi-mature	Good	Good	High	40+	High	3.3	2.6	Remove (Footprint)
418	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.57	0.73	8	8	7	8	7.75	189	19	Mature	Good	Good	High	40+	High	6.8	2.9	Remove (Footprint)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
419	<i>Eucalyptus globoidea</i>	White Stringybark	0.53	0.70	8	7	7	8	7.5	177	22	Mature	Good	Good	High	40+	High	6.4	2.8	Remove (Footprint)
420	<i>Corymbia gummifera</i>	Red Bloodwood	0.32	0.40	4	4	4	4	4	50	17	Mature	Good	Good	High	40+	High	3.8	2.3	Remove (Footprint)
421	<i>Angophora costata</i>	Smooth-barked Apple	0.34	0.42	5	5	5	5	5	79	18	Mature	Good	Good	High	40+	High	4.1	2.3	Remove (Footprint)
422	<i>Angophora costata</i>	Smooth-barked Apple	0.32	0.37	4	4	4	4	4	50	16	Mature	Good	Good	High	40+	High	3.8	2.2	Remove (Footprint)
423	<i>Angophora costata</i>	Smooth-barked Apple	0.40	0.43	5	5	5	5	5	79	17	Mature	Good	Good	High	40+	High	4.8	2.3	Remove (Footprint)
424	<i>Angophora costata</i>	Smooth-barked Apple	0.30	0.37	5	4	4	4	4.25	57	15	Mature	Good	Good	High	40+	High	3.6	2.2	Remove (Footprint)
425	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.35	4	3	3	5	3.75	44	12	Mature	Good	Good	High	40+	High	3.2	2.1	Remove (Footprint)
426	<i>Allocasuarina littoralis</i>	Black She-oak	0.19	0.23	3	3	3	4	3.25	33	9	Mature	Fair	Fair	High	15-40	Moderate	2.3	1.8	Remove (Footprint)
427	<i>Angophora costata</i>	Smooth-barked Apple	0.30	0.37	4	4	4	5	4.25	57	17	Mature	Good	Good	High	40+	High	3.6	2.2	Remove (Footprint)
428	<i>Angophora costata</i>	Smooth-barked Apple	0.28	0.55	5	5	5	5	5	79	15	Mature	Fair	Fair	High	15-40	Moderate	3.4	2.6	Remove (Footprint)
429	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.26	4	4	4	3	3.75	44	13	Semi-mature	Good	Good	High	40+	High	2.4	1.9	Remove (Footprint)
430	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.24	4	4	4	4	4	50	9	Mature	Good	Good	High	15-40	Moderate	2.5	1.8	Remove (Footprint)
431	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.25	4	4	4	4	4	50	9	Mature	Good	Good	High	15-40	Moderate	2.5	1.8	Remove (Footprint)
432	<i>Angophora costata</i>	Smooth-barked Apple	0.20	0.25	3	3	3	3	3	28	14	Mature	Good	Good	High	40+	High	2.4	1.8	Remove (Footprint)
433	<i>Eucalyptus globoidea</i>	White Stringybark	0.46	0.52	5	2.5	2.5	5.5	3.875	47	22	Mature	Good	Good	High	40+	High	5.5	2.5	Remove (Footprint)
434	<i>Eucalyptus globoidea</i>	White Stringybark	0.52	0.61	6	3	6	5	5	79	22	Mature	Good	Good	High	40+	High	6.2	2.7	Remove (Footprint)
435	<i>Eucalyptus globoidea</i>	White Stringybark	0.55	0.64	3	3	7	7	5	79	21	Mature	Good	Good	High	40+	High	6.6	2.7	Remove (Footprint)
436	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.77	0.85	7	7	7	7	7	154	20	Mature	Good	Good	High	40+	High	9.2	3.1	Remove (Footprint)
437	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.33	0.36	5	6	5	5	5.25	87	14	Mature	Good	Good	High	40+	High	4.0	2.2	Remove (Footprint)
438	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.40	0.31	5	5	2	3	3.75	44	11	Mature	Good	Good	High	40+	High	4.8	2.0	Remove (Footprint)
439	<i>Eucalyptus globoidea</i>	White Stringybark	0.69	0.79	7	7	7	7	7	154	18	Mature	Good	Good	High	40+	High	8.3	3.0	Remove (Footprint)
440	<i>Angophora costata</i>	Smooth-barked Apple	1.12	1.25	6	1	3	5	3.75	44	15	Over-mature	Poor	Poor	Very High	.5-15	High	13.4	3.6	Remove (Footprint)
441	<i>Eucalyptus globoidea</i>	White Stringybark	0.44	0.50	7	8	3	8	6.5	133	21	Mature	Good	Good	High	40+	High	5.3	2.5	Remove (Footprint)

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					N	E	S	W												
442	<i>Eucalyptus globoidea</i>	White Stringybark	0.38	0.45	6	7	0.5	0	3.375	36	23	Mature	Good	Good	High	40+	High	4.6	2.4	Remove (Footprint)
443	<i>Eucalyptus pilularis</i>	Blackbutt	0.48	0.59	5	7	7	8	6.75	143	24	Mature	Good	Good	Very High	40+	High	5.8	2.7	Remove (Footprint)
444	<i>Eucalyptus globoidea</i>	White Stringybark	0.47	0.55	5.5	1	7	7	5.125	83	17	Mature	Good	Good	High	40+	High	5.6	2.6	Remove (Footprint)
445	<i>Eucalyptus globoidea</i>	White Stringybark	0.35	0.50	4	3	3	3	3.25	33	10	Semi-mature	Good	Good	High	15-40	Moderate	4.2	2.5	Remove (Footprint)
446	<i>Eucalyptus globoidea</i>	White Stringybark	0.37	0.45	5	5	4	4	4.5	64	10	Mature	Good	Good	High	15-40	Moderate	4.4	2.4	Remove (Footprint)
447	<i>Allocasuarina littoralis</i>	Black She-oak	0.21	0.25	0	3	3	3	2.25	16	7	Mature	Fair	Fair	High	.5-15	Moderate	2.5	1.8	Remove (Footprint)
448	<i>Allocasuarina littoralis</i>	Black She-oak	0.32	0.40	4	4	4	4	4	50	11	Mature	Poor	Fair	High	.5-15	Moderate	3.8	2.3	Remove (Footprint)
449	<i>Angophora costata</i>	Smooth-barked Apple	0.83	1.18	9	9	4	5	6.75	143	23	Mature	Good	Good	High	40+	High	10.0	3.5	Remove (Footprint)
450	<i>Angophora costata</i>	Smooth-barked Apple	1.28	1.60	9	9	10	9	9.25	269	23	Mature	Good	Good	Very High	40+	High	15.0	4.0	Remove (Footprint)
451	<i>Allocasuarina littoralis</i>	Black She-oak	0.26	0.31	4	4	4	4	4	50	12	Mature	Good	Good	High	15-40	Moderate	3.1	2.0	Remove (Footprint)
452	<i>Angophora costata</i>	Smooth-barked Apple	0.16	0.22	4	3	3	3	3.25	33	12	Semi-mature	Good	Good	High	40+	High	2.0	1.8	Retain (Protection)
453	<i>Angophora costata</i>	Smooth-barked Apple	0.72	0.91	8	9	7	8	8	201	23	Mature	Good	Good	Very High	40+	High	8.6	3.2	Retain (Protection)
454	<i>Allocasuarina littoralis</i>	Black She-oak	0.29	0.36	2	2	4	5	3.25	33	9	Mature	Fair	Fair	High	15-40	Moderate	3.5	2.2	Retain (Protection)
455	<i>Angophora costata</i>	Smooth-barked Apple	0.21	0.26	4	3	4	3	3.5	38	10	Semi-mature	Fair	Good	High	15-40	Moderate	2.5	1.9	Retain (Protection)
456	<i>Angophora costata</i>	Smooth-barked Apple	0.17	0.21	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Retain (Protection)
457	<i>Eucalyptus globoidea</i>	White Stringybark	0.24	0.29	4	4	4	4	4	50	10	Mature	Good	Good	High	40+	High	2.9	2.0	Retain (Protection)
458	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.49	0.62	6	6	6	6	6	113	19	Mature	Good	Good	High	40+	High	5.9	2.7	Retain (Protection)
459	<i>Eucalyptus globoidea</i>	White Stringybark	0.29	0.33	4	4	4	4	4	50	9	Mature	Good	Good	High	40+	High	3.5	2.1	Remove (Footprint)
460	<i>Angophora costata</i>	Smooth-barked Apple	0.56	0.81	7	8	7	7	7.25	165	21	Mature	Good	Good	High	40+	High	6.7	3.0	Remove (SRZ Encroachment)
461	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.28	4	4	4	4	4	50	13	Mature	Good	Good	High	40+	High	2.8	1.9	Remove (Footprint)
462	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.92	1.21	9	9	9	10	9.25	269	22	Mature	Good	Good	Very High	40+	High	11.0	3.6	Remove (Footprint)
463	<i>Corymbia gummifera</i>	Red Bloodwood	0.57	0.71	7	4	7	9	6.75	143	18	Mature	Good	Good	High	40+	High	6.9	2.9	Remove (Footprint)
464	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.29	4	3	4	3	3.5	38	13	Mature	Good	Good	High	40+	High	2.8	2.0	Retain (Protection)

Tree ID	Scientific Name	Common Name	DBH (m)	DAB (m)	Canopy Spread (m)				Canopy Spread Average (m)	Estimated Total Canopy Area (m ²)	Height (m)	Age Class	Health	Structure	Landscape significance rating	Estimated life expectancy	Retention Value	TPZ (m)	SRZ (m)	Remove / Retain
					N	E	S	W												
465	<i>Angophora costata</i>	Smooth-barked Apple	0.47	0.63	7	7	7	7	7	154	18	Mature	Good	Good	High	40+	High	5.6	2.7	Retain
466	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.22	0.28	3	3	4	4	3.5	38	13	Mature	Good	Good	High	15-40	Moderate	2.6	1.9	Retain (Protection)
467	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.35	0.44	5	4	6	4	4.75	71	13	Mature	Good	Good	High	40+	High	4.2	2.3	Retain (Protection)
468	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.18	0.21	2	3	3	3	2.75	24	12	Semi-mature	Good	Good	High	15-40	Moderate	2.2	1.7	Retain (Protection)
469	<i>Allocasuarina littoralis</i>	Black She-oak	0.18	0.23	4	4	4	4	4	50	12	Mature	Good	Good	High	15-40	Moderate	2.2	1.8	Retain (Protection)
471	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.18	0.24	3	3	3	3	3	28	12	Semi-mature	Good	Good	High	15-40	Moderate	2.2	1.8	Retain (Protection)
472	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.17	0.23	3	3	3	3	3	28	11	Semi-mature	Good	Good	High	15-40	Moderate	2.0	1.8	Retain (Protection)
473	<i>Angophora costata</i>	Smooth-barked Apple	0.18	0.22	4	4	4	4	4	50	11	Semi-mature	Good	Good	High	40+	High	2.2	1.8	Retain (Protection)
474	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.20	0.28	3	3	3	3	3	28	11	Semi-mature	Good	Good	High	40+	High	2.4	1.9	Retain (Protection)
475	<i>Angophora costata</i>	Smooth-barked Apple	0.29	0.36	4	4	4	3	3.75	44	17	Mature	Good	Good	High	40+	High	3.5	2.2	Retain (Protection)
476	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.36	0.45	5	4	5	4	4.5	64	17	Mature	Good	Good	High	40+	High	4.3	2.4	Retain (Protection)
477	<i>Angophora costata</i>	Smooth-barked Apple	0.18	0.21	3	3	3	3	3	28	10	Semi-mature	Good	Good	High	15-40	Moderate	2.2	1.7	Retain (Protection)
478	<i>Melaleuca linariifolia</i>	Snow in Summer	0.23	0.29	4	4	4	3	3.75	44	7	Mature	Good	Fair	High	15-40	Moderate	2.7	2.0	Retain
479	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.23	0.28	3	3	3	3	3	28	8	Semi-mature	Good	Good	High	40+	High	2.8	1.9	Retain
480	<i>Melaleuca styphelioides</i>	Prickly-leaved Tea Tree	0.22	0.26	4	4	3	3	3.5	38	8	Mature	Good	Good	High	15-40	Moderate	2.6	1.9	Retain
481	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.59	0.75	4	6	7	7	6	113	19	Mature	Good	Good	High	40+	High	7.1	2.9	Retain
482	<i>Angophora costata</i>	Smooth-barked Apple	0.23	0.31	4	4	4	4	4	50	13	Semi-mature	Good	Good	High	40+	High	2.8	2.0	Retain
483	<i>Angophora costata</i>	Smooth-barked Apple	0.16	0.21	3	4	3	3	3.25	33	11	Semi-mature	Good	Good	High	40+	High	2.0	1.7	Retain
484	<i>Angophora costata</i>	Smooth-barked Apple	0.27	0.36	5	5	5	5	5	79	15	Mature	Good	Good	High	40+	High	3.2	2.2	Retain
284a	<i>Eucalyptus capitellata</i>	Brown Stringybark	0.25	0.28	3	3	3	3	3	28	13	Semi-mature	Good	Good	High	40+	High	3.0	1.9	Remove (Footprint)
341a	<i>Eucalyptus globoidea</i>	White Stringybark	0.66	0.67	7	7	8	6	7	154	18	Mature	Good	Good	High	40+	High	8.0	2.8	Remove (Footprint)

Appendix B – SULE Methodology

SULE (Safe Useful Life Expectancy)

In planning context, the time a tree can expect to be usefully retained is the most important long-term consideration. SULE i.e., a system designed to classify trees into a number of categories so that information regarding tree retention can be concisely communicated in a non-technical manner. SULE categories are easily verifiable by experienced personnel without great disparity. A tree's SULE category is the life expectancy of the tree modified first by its age, health, condition, safety and location (to give safe life expectancy), then by economics (i.e., cost of maintenance: retaining trees at an excessive management cost is not normally acceptable), effect on better trees, and sustained amenity (i.e., establishing a range of age classes in a local population). SULE assessments are not static but may be modified as dictated by changes in tree health and environment. Trees with a short SULE may be at present by making a contribution to the landscape but their value to the local amenity will decrease rapidly towards the end of this period, prior to their being removed for safety or aesthetic reasons.

SULE Methodology

1. Long SULE - tree appeared retainable at the time of assessment for over 40 years with an acceptable degree of risk, assuming reasonable maintenance;

- A. Structurally sound trees located in positions that can accommodate future growth.
- B. Trees which could be made suitable for long term retention by remedial care
- C. Trees of special significance which would warrant extraordinary efforts to secure their long-term retention.

2. Medium SULE- tree appeared to be retainable at the time of assessment for 15 to 40 years with an acceptable degree of risk, assuming reasonable maintenance;

- A. Trees which may only live from 15 to 40 years.
- B. Trees which may live for more than 40 years but would be removed for safety or nuisance reasons.
- C. Trees which may live for more than 40 years but would be removed to prevent interference with more suitable individuals or to provide space for new planting.
- D. Trees which could be made suitable for retention in the medium term by remedial care.

3. Short SULE - tree appeared to be retainable at the time of assessment for 5 to 15 years with an acceptable degree of risk, assuming reasonable maintenance:

- A. Trees which may only live from 5 to 15 years.
- B. Trees which may live for more than 15 years but would be removed for safety or nuisance reasons.
- C. Trees which may live for more than 15 years but would be removed to prevent interference with more suitable individuals or to provide space for new planting.
- D. Trees which require substantial remediation and are only suitable for retention in the short term.

4. Removal - trees which should be removed within the next 5 years;

- A. Dead, dying, suppressed or declining trees.
- B. Dangerous trees through instability or recent loss of adjacent trees.
- C. Dangerous trees because of structural defects including cavities, decay, included bark, wounds or poor form.
- D. Damaged trees that are clearly not safe to retain.

E. Trees which may live for more than 5 years but would be removed to prevent interference with more suitable individuals or to provide space for new planting.^[1]_{SEP}

F. Trees which are damaging or may cause damage to existing structures within the next 5 years.

G. Trees that will become dangerous after removal of other trees for the reasons given in (a) to (f).

H. Trees in categories (a) to (g) that have a high wildlife habitat value and, with appropriate treatment, could be retained subject to regular review.

5. Small, young or regularly pruned - Trees that can be moved or replaced;

A. Small trees less than 5m in height.^[1]_{SEP}

B. Young trees less than 15 years old but over 3m in height.^[1]_{SEP}

C. Formal hedges and trees intended for regular pruning to artificially control growth.

GLOSSARY

Age Classes

- Juvenile refers to an immature tree.
- Semi-mature refers to a tree between immaturity and full size.
- Mature refers to a full-sized tree with some capacity for further growth.
- Over-mature refers to a tree already in decline.

Diameter at breast height (DBH)

Tree stem diameter at 1.4 metres above ground level.

Diameter at buttress (DAB)

Tree stem diameter as measured above the root buttress at ground level.

Tree Protection Zone (TPZ)

An indicative measure of the area necessary to protect for tree viability, encompassing the area necessary to protect both the crown and woody roots as calculated by the formula $TPZ = DBH \times 12$

Structural Root Zone (SRZ)

An indicative measure of the spread of the primary woody and structural roots necessary for tree stability, as calculated by the formula $SRZ = (DAB \times 50)^{0.42} \times 0.64$

Visual Tree Assessment (VTA)

Visual inspection of tree only.

Co-dominant leaders

A tree where two or more stems are of similar diameter.

Included Bark Junctions

A junction where the angle of the union creates an area of ingrown bark. This can create a structural weakness, and is often found on co-dominant stems.

Crown

The portion of the tree consisting of branches and leaves and any part of the trunk from which branches arise.

Stem

The position of the tree consisting of branches and leaves and any part of the trunk from which branches arise. An organ which supports branches, leaves, flowers and fruits.

Epicormic Growth

Refers to shoots produced by dormant buds within the bark or stem of a tree as a result of stress, incorrect pruning or increased light.

Health Condition

Exceptional

- Visually complete crown with dense foliage throughout that indicates strong health and vigour.
- Leaf size and colour that is true to type for the species and free from pest (insect) and disease (pathogen) damage.

- Expected levels of primary growth or seasonal extension and internodal growth evident for the species.
- No evidence of colonising saprophytes and no deadwood evident.

Good

- Visually complete crown, varying in foliage density throughout.
- Leaf size and colour that is true to type for the species with none or minor levels of pest (insect) and/or disease (pathogen) damage evident.
- Expected levels of primary growth or seasonal extension and internodal growth evident for the species.
- No evidence of colonising saprophytes and low levels of deadwood present and approximately 10mm or less in size.

Fair

- Sparse crown, varying in foliage density throughout.
- Reduced leaf size and atypical in colour for the species.
- Low to medium levels of pest (insect) and/or disease (pathogen) damage.
- Reduced, seasonal extension and internodal growth.
- Deadwood easily visible and less than approximately 30mm in size.
- Epicormic growth may be evident.

Poor

- Obvious signs of crown decline, exhibiting significant reduction in live crown volume and foliage density with reduced leaf size and atypical in colour for the species.
- Evidence of defoliation and/or dieback of branch tips.
- Medium to high levels of pest (insect) and disease (pathogen) damage.
- Presence of exudates (kino and resins) from wounds (open and/or weeping).
- Significant reduction in seasonal extension and internodal growth, with significant levels of epicormic growth evident.
- Deadwood easily visible, approximately 30mm to 100mm in size.

Dead

- No evidence of live foliage observed throughout the crown.
- Obvious signs of cracking and shrinking wood.
- Visible evidence of delaminating bark to stems and branches.

Structure Condition

Very Good

- Strong branch unions at attachment points with no acute angles (compression and tension forks) and good branch taper at unions.
- No visibly, defective tree parts or structural defects.
- No wounds to stems and branches, no crossing and rubbing of branches and no wounds to exposed roots.
- No fungal fruiting bodies present to stems, branches and roots indicating, a presence of fungal pathogens.

Good to Fair

- Developing inclusions at unions of leading, codominant stems and branches.
- Evidence of defective tree parts (low levels) including branch and stem inclusions and crossing and rubbing of branches.
- Evidence of mechanical damage to periderm of stems, branches and roots, exposing vascular tissues.
- Exposed wounds for surface, colonising pathogens and entry points for developing decay.
- Presence of fungal fruiting bodies.
- Some evidence of cavities or hollows. (Fair only)
- No evidence of soil upheaval surrounding base of tree.

Poor

- Obvious signs and evidence of included bark to basal unions of codominant, leading stems and branches.
- Advanced, structural defects evident with failure of tree parts determined within 5 years from time of inspection and assessment.
- Evidence of decay from open wounds with presence of exudates (kino and resins) and exposed and degraded woody tissues.
- Presence of fungal fruiting bodies.
- Presence of cavities and hollows.
- Evidence of mechanical damage with advanced degradation of exposed roots.

a) Hazardous Tree**b) Immediate Removal**

- Advanced, structural defects evident. Open cracks to codominant stem and branch unions evident.
- Previous branch and stem failures evident. Failure of remaining tree parts determined within 3 months 6 months, from time of inspection and assessment. Arboricultural works to be scheduled immediately to mitigate associated hazard and risk.
- Severed roots and soil upheaval evident indicating failure of root zone.
- Tree failure imminent within 12 months from time of inspection and assessment

Landscape Significance

Assesses a tree within the landscape and rates according to criteria taken from Morton (2006):

1. Significant

- The subject tree is listed as a Heritage Item under the Local Environment Plan (LEP) with a local, state or national level of significance; or
- The subject tree forms part of the curtilage of a Heritage Item (building / structure /artifact as defined under the LEP) and has a known or documented association with that item; or
- The subject tree is a Commemorative Planting having been planted by an important historical person (s) or to commemorate an important historical event; or

- The subject tree is scheduled as a Threatened Species or is a key indicator species of an Endangered Ecological Community as defined under the or Biodiversity Conservation Act 2016 (NSW) or The Environmental Protection and Biodiversity Conservation Act 1999 (Federal); or
- The tree is a locally indigenous species, representative of the original vegetation of the area and is known as an important food, shelter or nesting tree for endangered or threatened fauna species; or
- The subject tree is a Remnant Tree, being a tree in existence prior to development of the area; or
- The subject tree has a very large live crown size exceeding 300m² with normal to dense foliage cover, is located in a visually prominent in the landscape, exhibits very good form and habit typical of the species and makes a significant contribution to the amenity and visual character of the area by creating a sense of place or creating a sense of identity; or
- The tree is visually prominent in view from surrounding areas, being a landmark or visible from a considerable distance.

2. Very high

- The tree has a strong historical association with a heritage item (building/structure/artifact/garden etc) within or adjacent the property and/or
- Exemplifies a particular era or style of landscape design associated with the original development of the site; or
- The subject tree is listed on Council's Significant Tree Register; or
- The tree is a locally-indigenous species and representative of the original vegetation of the area and the tree is located within a defined Vegetation Link/ Wildlife Corridor or has known wildlife habitat value;
- The subject tree has a very large live crown size exceeding 200m²; a crown density exceeding 70% Crown Cover (normal-dense), is a very good representative of the species in terms of its form and branching habit or is aesthetically distinctive and makes a positive contribution to the visual character and the amenity of the area.

3. High

- The tree has a suspected historical association with a heritage item or landscape supported by anecdotal or visual evidence; or
- The tree is a locally-indigenous species and representative of the original vegetation of the area; or
- The subject tree has a large live crown size exceeding 100m²; and
- The tree is a good representative of the species in terms of its form and branching habit with minor deviations from normal (eg crown distortion/suppression) with a crown density of at least 70% Crown Cover (normal); and
- The subject tree is visible from the street and surrounding properties and makes a positive contribution to the visual character and the amenity of the area.

4. Moderate

- The subject tree has a medium live crown size exceeding 40m²; and
- The tree is a fair representative of the species, exhibiting moderate deviations from typical form (distortion/suppression etc) with a crown density of more than 50% Crown Cover (thinning to normal); and
- The tree makes a fair contribution to the visual character and amenity of the area; and

- The tree is visible from surrounding properties, but is not visually prominent – view may be partially obscured by other vegetation or built forms.
- The tree has no known or suspected historical association.

5. Low

- The subject tree has a small live crown size of less than 40m² and can be replaced within the short term with new tree planting; or
- The tree is a poor representative of the species, showing significant deviations from the typical form and branching habit with a crown density of less than 50% Crown Cover (sparse); and
- The subject tree is not visible from surrounding properties (visibility obscured) and makes a negligible contribution or has a negative impact on the amenity and visual character of the area.

6. Very low

- The subject tree is listed as an Environment Weed Species in the relevant Local Government Area, being invasive, or a nuisance species.
- The subject tree is scheduled as exempt (not protected) under the provisions of the local Council's Tree Preservation Order due to its species, nuisance or position relative to buildings or other structures.

7. Insignificant

- The tree is a declared Noxious Weed under the Biosecurity Act (NSW) 2015 or identified as a priority weed within the local region.

Appendix C – Site Photographs



Plate 1 Above: Tree 26 – *Eucalyptus acmenoides* dead.

Plate 2 Below: Tree 69 – *Allocasuarina littoralis* showing stem cracks/fractures. This tree has a short SULE.





Plate 3 Above: Tree 386 – *Eucalyptus globoidea* showing poor health. This tree has a SULE of <5 years and should be removed.

Plate 4 Below: Tree 440 – *Angophora costata* showing large hollows present within the canopy. This tree has a high retention value despite its short SULE.





Plate 5 Above: Tree 225 – *Angophora costata* showing good health and structure with a large canopy exceeding 200sqm. This tree has a very high LSR.

Plate 6 Below: Tree 291 – *Angophora costata*. This tree has hollows within the canopy.





Plate 7 Above: Tree 400 – *Angophora costata* showing a large canopy exceeding 200sqm and good health and structure. This tree has a very high LSR.

Plate 8 Below: Tree 462 – *Eucalyptus capitellata* showing a large canopy exceeding 200sqm and good health and structure. This tree has hollows present and has a very high LSR.

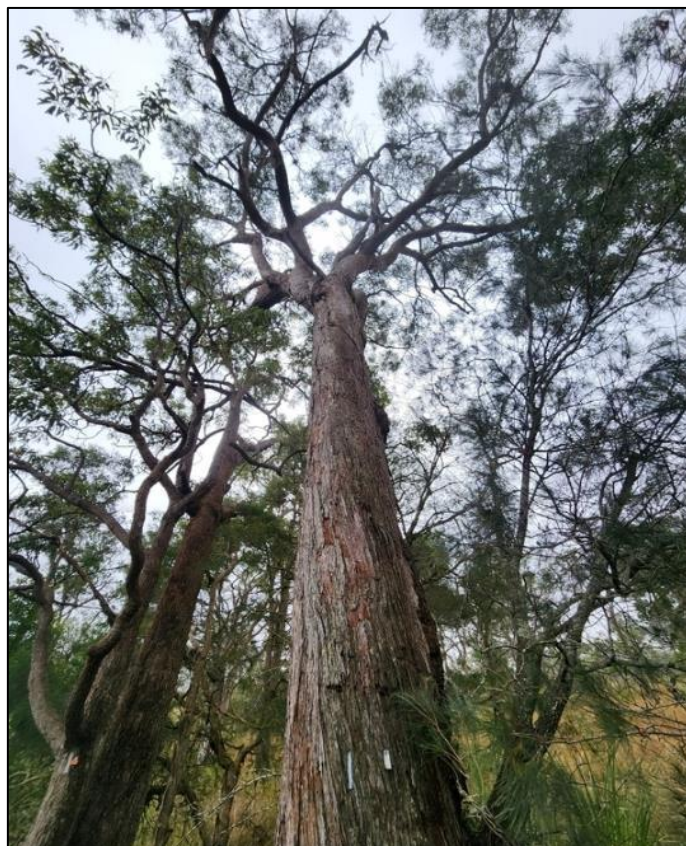




Plate 9 Above: A dam and bushland in the south east of Subject Site facing south.

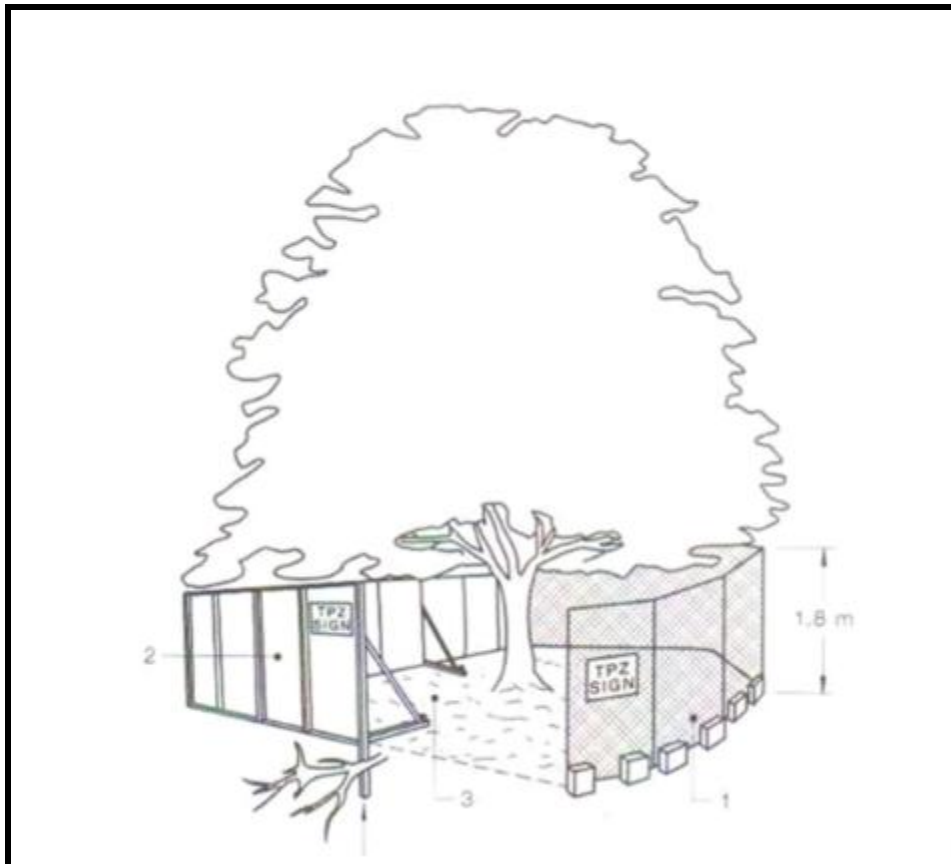
Plate 10 Below: The south of the Subject site facing west.



Appendix D –Tree Protection Fencing and Ground Protection

Example of tree protection fencing:

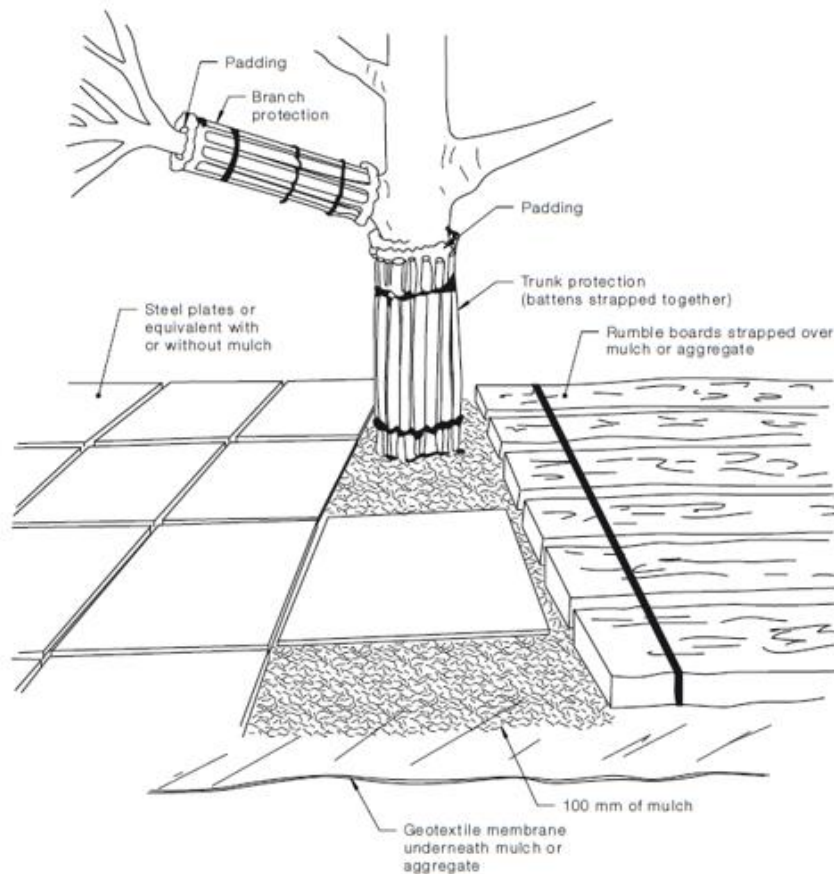
1. Fence off all trees noted for retention with 1.8m steel mesh fencing at the perimeter of the designated protection zone. Attach signs relating to the importance of tree protection and penalties for breaching tree protection orders to the fencing. If the area is large, install multiple signs.
2. Signs should state that this is a restricted area, no entry unless in the company of the arborist. Authorised access to the protected zone could be through a locked gate or via ladders
3. Mulching and semi-regular watering for established protection zones.



4.5.3 Ground protection

If temporary access for machinery is required within the TPZ ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction within the TPZ. Measures may include a permeable membrane such as geotextile fabric beneath a layer of mulch or crushed rock below rumble boards as per Figure 4.

These measures may be applied to root zones beyond the TPZ.



NOTES:

- 1 For trunk and branch protection use boards and padding that will prevent damage to bark. Boards are to be strapped to trees, not nailed or screwed.
- 2 Rumble boards should be of a suitable thickness to prevent soil compaction and root damage.

FIGURE 4 EXAMPLES OF TRUNK, BRANCH AND GROUND PROTECTION