

arborist report

**Arboricultural Impact
Assessment &**

**Tree Protection Management
Plan**

15-21 Britton Street,
Smithfield NSW 2164

Inspection Date: 22 January 2024

PREPARED FOR:

Lendlease
Level 14, Tower Three, International
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Document Information

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Project Name:	Proposed Multi-level Industrial Development
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Client:	Lendlease
Site:	15-21 Britton Street, Smithfield NSW 2164
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Document Status

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Version 1 - Draft	14 June 2024	
Version 2 - Draft	17 June 2024	Addresses corrections and typographic errors in response request.
Version 3 - Draft	20 June 2024	Considers the most recent civil plan set.
Version 4	24 June 2024	Updated based on client feedback.
Version 5	3 July 2024	Clarified text. Updated plans referenced.
Version 6	11 July 2024	Clarified address details.
Version 7	18 September 2024	Updated plan references
Version 8	28 October 2024	Updated report based on amended design

Review Register

Date	Reviewed By	Approved By
24 June 2024	MM	KH
3 July 2024	MM	KH
28 October 2024	MM	KH

Report Assumptions and Limitations

1. Information provided by the client or third party is assumed to be accurate.
2. All information has been sourced with care and verified to the best of the consultant's knowledge. Any opinions not duly researched are based on the consultant's experience and observations.
3. The consultant is not required to give testimony or attend court unless under a contractual agreement, subject to payment of additional fees.
4. Modifying or removing any key contextual elements will invalidate the report.
5. The report does not guarantee that future problems or deficiencies associated with the site or vegetation will not arise.
6. The report addresses the items outlined in the project brief or examined during site inspection and reflects the condition of these items at the time of inspection.
7. The inspection is limited to ground-based inspection of accessible areas and does not include dissection, excavation, or probing unless specified.
8. The report is an impartial assessment of the tree(s) and its condition based on available evidence and projected outcomes.

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Executive Summary

Canopy Consulting has been commissioned by Lendlease to prepare this report in accordance with the technical requirements of the Secretary's Environmental Assessment Requirements (SEARs), and in support of the State Significant Development Application (SSD) for the proposed warehouse and distribution centre at 28-54 Percival Rd and 15-21 Britton Street Smithfield NSW 2164.

SEARS Table			
SEARS Item	Item No.	Requirement	Report Reference Point
Landscape Design Report	#7	• Include overall masterplan concept design. • Identify the number and location of trees to be removed and retained, and how opportunities to retain significant trees have been explored and/or informs the plan. • Detail the proposed site planting, including location, number and species of plantings, heights of trees at maturity and proposed canopy coverage (as a percentage of the site area). • Demonstrates how the proposal contributes to long term landscape setting in respect of the Site and streetscape, and the objective of increased tree cover. • Outline what strategies are proposed to mitigate urban heat island effect. • Respond to all four (four) principles of the Greener Places framework.	• Section 5.5 addresses number and location of trees to be removed. • Section 5.5 and Section 6-8 address items C1, C2 and C3 of Part G7 Section 2.2 of the CDCP.

SEARS Table			
SEARS Item	Item No.	Requirement	Report Reference Point
		- Detail proposed planting schedule. - Demonstrates how Connecting to Country engagement has been incorporated. - Address the requirements of the CDCP2021.	
Biodiversity Development Assessment Report or BDAR Waiver	#9	Assess any biodiversity impacts associated with the development in accordance with the Biodiversity Conservation Act 2016 and the Biodiversity Assessment Method 2020, including the preparation of a Biodiversity Development Assessment Report (BDAR), unless a waiver is granted, or the site is on biodiversity certified land.	Section 5.5 addresses number and location of trees to be removed which accurately reflects tree quantity and species.

The proposed works include demolition of existing improvements and construction of a new multi-unit warehouse facility.

This report is required in support of addressing the requirements of items 7 & 9 of the SEARs, which will inform the site-wide landscape design of the proposal.

The report provides information on tree retention values, assesses project impacts, and offers recommendations for minimising negative impacts and preserving trees, where appropriate.

The report follows the Australian Standard AS4970-2009 *Protection of trees on development sites* to provide tree protection recommendations and uses the IACA Significance of a Tree Assessment Rating System (STARS)© to assess tree significance and allocate retention values.

The report also evaluates encroachments on Tree Protection Zones (TPZ) and Structural Root Zones (SRZ), with less than 10% TPZ encroachment considered minor, provided it is outside the SRZ, and greater than 10% or within the SRZ considered major.

Inspected trees have been physically identified with numbered metal tags affixed to the southern side of the tree at approximately 2m above ground level. Where trees were similar in size, species, and location, they were grouped together.

Findings are summarised in Table 1.

Table 1: Impact Assessment Summary

		Tree ID and Retention Value			
Recommendation	Tag/Tree QTY (Tree QTY)	High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal
Remove - project impacts	166 (252)	22, 25, 35, 38, 39, 44, 45, 58, 77, 78, 79, 80, 81, 82, 83, 110, 111, 120, 128, 131, 136, 150, 160, 166, 188, 197, 199, 203, 236, 237, 238, 239, 240, 242, 247, 259, 269, 273 Tag QTY: (38) Tree QTY: (38)	16, 28, 29, 31, 32, 33, 36, 37, 61, 92, 99, 102, 106, 108, 154, 156, 157, 161, 164, 165, 185, 189, 190, 191, 193, 195, 196, 198, 207, 212, 231, 234, 235, 241, 243, 251, 254, 255, 256, 257, 264, 267, 268, 270, 274 Tag QTY: (45) Tree QTY: (48)	1, 5, 6, 7, 8, 9, 10, 17, 24, 27, 30, 34, 40, 41, 43, 57, 63, 65, 66, 69, 75, 85, 86, 87, 88, 91, 93, 100, 101, 103, 104, 105, 107, 109, 124, 137, 138, 139, 148, 151, 153, 158, 162, 163, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178, 179, 180, 181, 182, 192, 194, 200, 202, 204, 205, 209, 214, 215, 217, 221, 230, 232, 233, 244, 245, 250, 252, 253, 258, 261, 265, 266, 275 Tag QTY: (83) Tree QTY: (166)	
Remove - irrespective	26 (77)				20, 26, 59, 60, 62, 64, 67, 70, 73, 74, 84, 89, 90, 94, 118, 130, 134, 149, 152, 155, 159, 176, 186, 201, 220, 246 Tag QTY: (26) Tree QTY: (77)
Retain - generic	39 (48)	21, 54, 112, 114, 115, 119, 121, 129, 141, 144, 184 Tag QTY: (11) Tree QTY: (11)	23, 56, 97, 113, 122, 123, 126, 132, 133, 142, 143, 146, 183 Tag QTY: (13) Tree QTY: (22)	2, 3, 4, 11, 12, 13, 14, 15, 42, 117, 135, 140, 145 Tag QTY: (13) Tree QTY: (13)	68, 98 Tag QTY: (2) Tree QTY: (2)
Retain - generic plus (requires alternative design or construction methods)	47 (77)	18, 19, 50, 53, 71, 72, 116, 125, 127, 147, 218, 219, 228, 263 Tag QTY: (14) Tree QTY: (17)	48, 49, 52, 55, 76, 95, 96, 187, 210, 211, 222, 226, 227, 229, 260, 262 Tag QTY: (16) Tree QTY: (31)	46, 47, 51, 206, 208, 216, 223, 224, 225, 248, 249, 271, 272, 277, 278 Tag QTY: (15) Tree QTY: (18)	213, 276 Tag QTY: (2) Tree QTY: (11)
Total	278 (454)				

A total of 385 trees assessed under 235 tag numbers have major TPZ encroachments due to the proposed development.

Of these, 252 trees grouped under 166 tree tags required removal due to the type and level of encroachment. These are comprised of:

- 38 High Retention Value trees,
- 48 Medium Retention Value grouped under 45 tree tags
- 166 Low Retention Value trees grouped under 84 tree tags.

This includes 15 council street trees (5, 6, 7, 8, 9, 10, 100, 101, 102, 103, 104, 105, 106, 107, 108) whose removal will require consent from the respective tree owner.

These will occur due to either in isolation or conjunction with the following:

- Being within the hardstand and/or development footprint for driveways, crossover, retaining walls or building.
- Being subject to unsustainable cut and fill activities that cannot be mitigated.
- Being within a group of trees where larger trees will be removed due to project impacts and remaining trees are of a shape or form and that their retention may cause an unacceptable level of risk or undesirable tree form.

77 trees grouped under 26 tree tags are recommended for removal irrespective of development due to their poor health and/or structural condition and/or weed status and are exempt under the CDCP.

In addition, the conflicts with the crown of trees 112-147 along the Britton Street frontage will need to be carefully analysed by a consulting arborist and the architect to determine what pruning will be required to facilitate the construction, including any scaffold or similar apparatus required for construction.

Trees 18, 19, 52, 76, 116, 125, 127, 147 will be subject to major TPZ encroachments of up to 25%, but remain outside the SRZ. Given the health and species of the trees and relative percentages of encroachment, it is expected these trees will tolerate root disturbance provided plant health techniques are employed and followed through construction - in addition to tree protection measures.

Trees 95, 96, 248, 249, 260, 262, 263, 271, 272, 276, 277, 278 are located within 23 Britton St and Trees 52, 55, 71, 72, 76, 187, 206, 208, 210, 211, 213, 216, 218, 219, 222, 223, 224, 225, 226, 227, 228, 229 within 2 Percival Road; will be subject to major cut and fill based on the current bulk earthworks plan. If these trees are to be retained, this area of the design will need to be modified to be either completely outside the TPZ or not result in an encroachment of greater than 15%. Where the level of encroachment may exceed 15% detailed root investigations will be required to guide the type and location of potential engineered solutions that will be necessary to retain these trees.

All remaining tree will be subject to a minor or nil encroachment and can therefore be retained with generic protection measures

In its current form, the proposed development will therefore see the removal of 252 trees (166 tags) due to project impacts, removal of 77 trees (26 tags) due to their health, structure or weed status, the retention of 48 trees (39 tags) with generic tree protection measures and the possible retention of another 77 trees (47 tags) where plan modification and/or root investigations will be during detailed design to ensure that potential engineered solutions do not adversely affect these trees.

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1. Background

1.1. Introduction

Lendlease (the client) proposes to undertake demolition of existing improvements and construction of a new multi-unit warehouse facility at 28-54 Percival Rd and 15-21 Britton Street, Smithfield NSW 2164.

The client has engaged Canopy Consulting to investigate trees adjacent to the proposed works where they may be adversely affected by the project.

This report is required in support of addressing the requirements of items 7 & 9 of the SEARs, which will inform the site-wide landscape design of the proposal.

The purpose of this report is to:

- identify trees within the study area
- assign retention values of all trees that may be affected within the site and those on adjoining properties
- to assess the impacts of the project
- provide recommendations for alteration to design or construction methods where necessary to minimise negative impacts
- make recommendations in accordance with Australian Standard 4970–2009: Protection of Trees on Development Sites to ensure the viable, long-term retention of trees to be retained where appropriate

1.2. Site Details

The Site is identified as 15-21 Britton Street and 28-54 Percival Road, which is made up of the following land holdings:

Table 2: Site Identification

TABLE 2. SITE IDENTIFICATION		
Site Address	Legal Description	Land Area (approx.)
15-21 Britton Street, Smithfield	Lot 1 DP 597082	3.22 hectares
28 – 54 Percival Road, Smithfield	Lot 34 DP 617521	5.53 hectares
TOTAL:		8.75 hectares

The Site is located within the eastern portion of the Smithfield Industrial Estate and is bound by established warehouse buildings and industrial land uses. The Site is made up of two (2) allotments

which currently operate independently. The western allotment (Lot 1 DP 597082) has frontage to Britton Street and comprises a warehouse building currently operating as a food processing and packaging facility and associated offices. Ancillary buildings and structures are positioned towards the northeastern boundary.

The western boundary comprises a landscaped area of mature trees which extend along the entire Britton Street frontage. An area of hard standing provides at-grade car parking at the southern end of the Site. Vehicular access to the Site is provided via Britton Street to the northeast via a controlled gate with egress provided to the southwest of the Site. A separate vehicle access to the car park is also provided via Britton Street to the south.

The eastern allotment (Lot 34 DP 617521) has frontage to Percival Road and comprises two (2) warehouse buildings and a separate two-storey office building. An area of hard stand provides at-grade car parking at the northern end of the Site and a landscaped area of mature trees exists at the southern edge. Primary vehicular access to the Site is provided via an entrance off Percival Road for both heavy vehicles and visitors. A secondary entrance is provided at the southern edge of the Site.

Whilst topography at each allotment is relatively flat, the eastern allotment sits higher than the western allotment (approximately 30m RL and 26m RL, respectively) and is currently separated by a retaining wall.

The Site is situated approximately 24km from the Sydney CBD. It is within close proximity to transport infrastructure routes, including the Cumberland Highway, which has direct access from Percival Road to the south. Public transport options are also available, with the Liverpool-Parramatta Transitway located directly north of the Site.

In accordance with the *Cumberland Local Environmental Plan 2021* (CLEP2021), the Site is zoned E4 General Industrial, as illustrated in Figure 1 below. Land uses surrounding the Site comprise the following zoning categories, including:

- E4 General Industrial;
- SP2 Infrastructure (Water Supply System and Strategic Bus Corridor);
- SP2 Infrastructure (Classified Road); and
- RE1 Public Recreation.

The nearest sensitive land uses comprise the R2 Low Density Residential zone located 560m north of the Site and 590m east of the Site. The Site and surrounding context are illustrated in Figures 2 and 3 below.

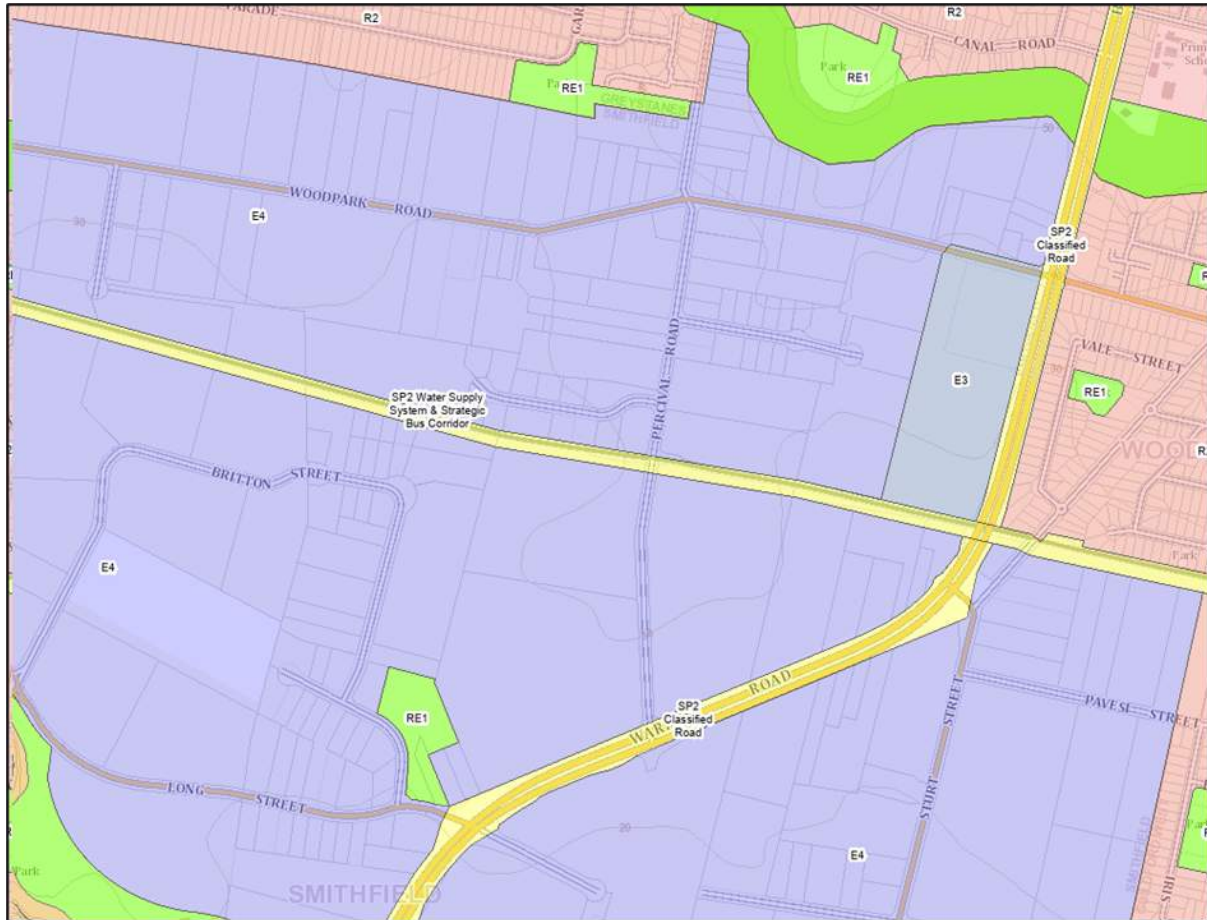


Figure 1. Land Zoning Applicable to the Site under the CLEP 2021 (Source: NSW Legislation, 2023)



Figure 2. Aerial: Existing Site Context and Surrounding Area (Source: NearMap, 2023)



Figure 3. Cadastral Map: Existing Site Context (Source: SIX Maps, 2023)

1.3. Reviewed Plans and Documents

This report has relied on the following plans and documents:

Table 3: Reviewed Plans and Documents

Title	Author	Dwg. No.	Revision	Date
PLAN OF SITE DETAIL AND LEVELS - PRELIMINARY	BOXALL	11614-001-PRELIM	NONE	26/07/2023
PLAN OF SITE DETAIL AND LEVELS	BOXALL	11614-001	NONE	26/07/2023
PLAN OF SITE DETAIL AND LEVELS	BOXALL	11614-001-COMBINED	NONE	26/07/2023
PLAN OF SITE DETAIL AND LEVELS	BOXALL	11614-001-(A)	A	26/07/2023
22144_LL_Smithfield_C21_Set21_241024	SBA ARCHITECTS	DA000-DA615	As at 24102024	As at 24102024
BULK EARTHWORKS SECTIONS SHEET 1	COSTIN ROE	DA 351	E	18/06/2024
BULK EARTHWORKS SECTIONS SHEET 2	COSTIN ROE	DA 352	E	18/06/2024
BULK EARTHWORKS PLAN	COSTIN ROE	DA 300	E	18/06/2024
Cover Page	GEOSCAPES	SSD-00	E	28/06/2024

Title	Author	Dwg. No.	Revision	Date
Landscape Master Plan: LGF & GF	GEOSCAPES	SSD-01	E	28/06/2024
Canopy Cover & Landscape	GEOSCAPES	SSD-02	E	28/06/2024
LGF & GF Detail Plan - Sheet 1	GEOSCAPES	SSD-03	E	28/06/2024
LGF & GF Detail Plan - Sheet 2	GEOSCAPES	SSD-04	E	28/06/2024
LGF & GF Detail Plan - Sheet 3	GEOSCAPES	SSD-05	E	28/06/2024
LGF & GF Detail Plan - Sheet 4	GEOSCAPES	SSD-06	E	28/06/2024
LGF & GF Detail Plan - Sheet 5	GEOSCAPES	SSD-07	E	28/06/2024
LGF & GF Detail Plan - Sheet 6	GEOSCAPES	SSD-08	E	28/06/2024
LGF & GF Detail Plan - Sheet 7	GEOSCAPES	SSD-09	E	28/06/2024
LGF & GF Detail Plan - Sheet 8	GEOSCAPES	SSD-10	E	28/06/2024
LGF & GF Detail Plan - Sheet 9	GEOSCAPES	SSD-11	E	28/06/2024
Landscape Section AA	GEOSCAPES	SSD-12	E	28/06/2024
Landscape Section BB & CC	GEOSCAPES	SSD-13	E	28/06/2024
Landscape Section DD	GEOSCAPES	SSD-14	E	28/06/2024
Upper Levels Detail Plans	GEOSCAPES	SSD-15	E	28/06/2024
Level 1 Mezzanine Amenity Area Master Plan	GEOSCAPES	SSD-16	E	28/06/2024
Level 1 Mezzanine Amenity Area Plan 01	GEOSCAPES	SSD-17	E	28/06/2024
Level 1 Mezzanine Amenity Area Plan 02	GEOSCAPES	SSD-18	E	28/06/2024
Level 1 Mezzanine Amenity Area Plan 03	GEOSCAPES	SSD-19	E	28/06/2024
Level 1 Mezzanine Amenity Area Section	GEOSCAPES	SSD-20	E	28/06/2024
Level 1 Mezzanine Amenity Area Reference Imagery	GEOSCAPES	SSD-21	E	28/06/2024
Level 1 Mezzanine Amenity Area Plant Reference Imagery	GEOSCAPES	SSD-22	E	28/06/2024
Typical Specification & Details	GEOSCAPES	SSD-23	E	28/06/2024
Landscape Matrix Details	GEOSCAPES	SSD-24	E	28/06/2024
Estate Planting Schedule & Imagery	GEOSCAPES	SSD-25	E	28/06/2024

1.4. Proposed Development

The proposal involves the construction and operation of a multi-level warehouse estate, comprising:

- Site preparation and establishment works, including:
 - Demolition of existing buildings and structures;
 - Clearing of nominated vegetation within the proposed development area;
 - Bulk earthworks to create proposed site levels;

- Decommissioning of existing vehicle crossings; and
- In-ground building services and utility work.
- Construction and operation of three (3) multi-level warehouse buildings across the two (2) allotments, comprising the following:
 - Two (2) two-storey warehouse buildings located on Lot 34 DP 617521 (Warehouse A and B), comprising of 12 individual warehouse units and ancillary office;
 - A three-storey building located on Lot 1 DP 597082 (Warehouse C), comprising of 9 individual warehouse units, ancillary office, and a café;
 - Shared outdoor amenity areas provided for employees on level 1;
 - Connected hardstand on ground floor and level 1 that will allow for vehicle circulation across the whole site;
 - A total of 482 carparking spaces within three separate carparking areas;
 - A total Gross Floor Area (GFA) of 96,568m², including 88,976m² of warehouse, 7,036m² of office, 71m² of café, 220m² of end of trip facilities and 265m² of shared amenities;
 - Four (4) new vehicle crossings on Percival Road and four (4) new vehicle crossings on Britton Street to provide separate entry and exit for heavy and light vehicles; and
 - Extensive ground and on-building landscaping works.

The Gross Floor Area (GFA) for each building is outlined in Table 4.

Table 4: Gross Floor Areas

TABLE 2: GROSS FLOOR AREAS				
Building No.	Warehouse GFA	Office GFA	Other facilities	Total GFA
Building A	29,630m ²	2,297m ²	Shared amenities: 132m ²	32,059m ²
Building B	30,122m ²	2,300m ²	Shared amenities: 133m ²	32,665m ²
			End of trip facilities: 110m ²	

TABLE 2: GROSS FLOOR AREAS

Building No.	Warehouse GFA	Office GFA	Other facilities	Total GFA
Building C	29,224m ²	2,439m ²	Café: 71m ²	31,844m ²
			End of trip facilities: 110m ²	
Total	88,976m ²	7,036m ²	556m ²	96,568m ²

The proposal involves new vehicle crossings, which will provide separate ingress and egress for heavy vehicles. Ingress is provided at Britton Street, whilst egress is provided at both Britton Street and Percival Road. Ramps are provided to allow vehicle circulation to the upper levels. Each warehouse is connected via a hardstand that will allow for vehicle circulation, loading and unloading for each warehouse tenancy.

Separate vehicle crossings are provided for cars, enabling access to the at-grade parking at Percival Road, as well as the southern end of Britton Street. A third vehicle crossing is provided at the northern end of Britton Street, which provides access to a carparking area at ground floor, mezzanine level. A total of 482 carparks are provided across the three (3) carparking areas.

The proposal will require the removal of several trees across the whole Site and will incorporate landscaping and tree planting at the side boundaries, as well as along Britton Street and Percival Road.

The proposal layout is shown in Figure 4.

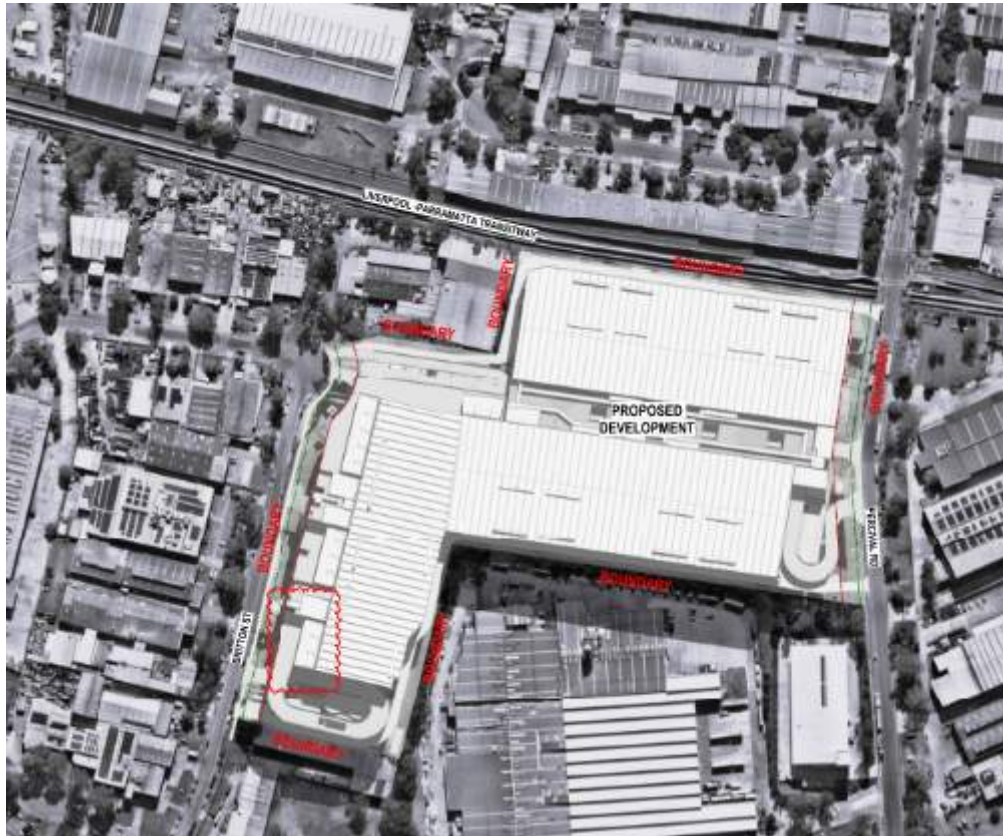


Figure 4: Proposed site layout. (SBA Architects, 2024)

1.6. Legislative Context

The Commonwealth of Australia's Environmental Protection & Biodiversity Conservation Act 1999 (EPBC Act) manages nationally significant ecological communities and heritage items. The EPBC Act delegates to the NSW Biodiversity Conservation Act 2016 (BC Act) for state and local management of ecological and heritage matters. The BC Act, which repealed the NSW Threatened Species Conservation Act 1995, may require Species Impact Statement and Biodiversity Banking and Offset Scheme agreements determined by the Biodiversity Assessment Method (BAM).

In NSW, the Environmental Planning and Assessment Act 1979 (EP&A Act) regulates significant development and infrastructure through Environmental Planning Instruments (EPI), including State Environment Planning Policies (SEPP) for matters of state or regional significance and Local Environmental Plans (LEP) and Development Control Plans (DCP) for land usage guidance for local Councils.

1.7. Planning & Tree Management Controls

Table 5: Applicable Planning & Tree Management Controls

Local Environment Plan	Cumberland Local Environmental Plan 2021 (CLEP)
Development Control Plan	Cumberland Development Control Plan 2021 (CDCP)
Tree Management Controls	Prescribed trees within the Cumberland Council LGA are protected under Part G7 Section 2.1 of the CDCP made pursuant to Chapter 2 of the State Environmental Planning Policy (Biodiversity and Conservation) 2021 (the BCSEPP). The CDCP generally protects all trees, palms and vegetation as 'declared vegetation' that meet the following: any woody perennial plant that is 4m or greater in height, measured from the base of the tree at ground level to the highest point of live foliage. Part G7 Section 2.2 outlines the objectives and controls of 'Tree management and proposed development.' Specific controls which are relevant to this proposal include C1. All proposals and development works shall comply with Australian Standard 4970-2009 'Protection of Trees on Development Sites'. C2. Development shall be designed to incorporate existing trees that are identified as being suitable for retention, with adequate setbacks to

any works and protection measures stipulated in accordance with AS 4970-2009 to ensure their long-term survival.

C3. Development proposals must consider existing trees situated on adjacent properties with adequate setbacks to any works and protection measures stipulated in accordance with AS4970-2009 to ensure their long-term survival.

C6. Trees assessed as having medium or high landscape significance retention value should be retained, with adequate setbacks to any development works to ensure their long-term survival.

Exemptions

No approval is required for the following works to live trees/vegetation:

1. tree species and vegetation listed in Table 1 of Sg& of the CDCP (except where located in Pemulwuy or within a heritage item).
2. any tree located less than 2m from the external walls of an approved residential dwelling, as measured from the outside edge of the trunk at 1m above existing ground level.
3. any Liquidambar styraciflua tree located less than 5m from the external walls of an approved residential dwelling, as measured from the outside edge of the trunk at 1m above existing ground level.
4. any Ficus spp. tree located less than 5m from the external walls of an approved residential dwelling as measured from the outside edge of the trunk at 1m above existing ground level, or less than 3m from an adjoining property boundary, as measured from the outside edge of the trunk at 1m above existing ground level.
5. to the removal of a completely dead tree on the basis that the dead tree is not providing habitat for native fauna. If

1.8. Additional Legislative Protections

The following government planning overlays have been reviewed (SEED - NSW Government, 2024). Table 5 indicates the presence of the items on site.

Table 6: Mapping Overlays

NSW OEH	Present on Site	Relevance
Threatened Ecological Communities (TEC) Greater Sydney	☐	Not present on site. No relevance
State Heritage Register	☐	Not present on site. No relevance
Biodiversity Values	☐	Not present on site. No relevance
DCP/LEP		
Heritage	☐	Not present on site. No relevance.
Terrestrial Biodiversity	☒	Present on site. Turfed area within the north-eastern corner of 34/-/DP61752
Environmentally Sensitive Land	☐	Not present on site. No relevance
Other		
10/50 Vegetation Clearing Scheme	☐	The 10/50 Vegetation Clearing Scheme, introduced after the 2013 bushfires, allows landowners within designated areas to clear trees with trunks measuring over 30 cm in circumference and within 10 metres of a building's external wall. This also applies to multi-stemmed trees. (NSW Rural Fire Service, 2020). The site is not within a designated 10/50 vegetation clearing entitlement area. Not present on site. No relevance

Figure 5 shows the site within the local area and associated planning overlays.



Figure 5: The subject site defined with a red polygon and associated planning overlays.

2. Scope

Assess the health and condition of trees on the site and neighbouring properties that may be affected by proposed works to determine tree retention values based on heritage, environmental and arboricultural principles.

Provide as an outcome of the assessment, the following:

- a description of the trees
- observations made
- retention values
- discussion of the effects the location of the proposed works may have on the trees
- make recommendations required for remedial or other works to the trees, if and where appropriate
- provide a description of the works or measures required to ameliorate the impact upon the trees to be retained; by the proposed building works or future impacts the trees may have upon the new building works if and where appropriate;
- or discuss the possible benefits of removal and replacement, if appropriate, for the medium to the long-term amenity of the site.

3. Method

3.1. Data Collection

Inspected trees have been physically identified with numbered metal tags affixed to the southern side of the tree at approximately 2m above ground level. Where trees were similar in size, species, and location, they were grouped together.

Please note: In cases where it was not possible to reach the tree, alternative methods of marking were utilised.

To record the above-ground health and condition of each tree, a Visual Tree Assessment (VTA), adapted from (Lonsdale, 2013), was undertaken from ground level on 22 January 2024 by Kane Hollstein.

This involved an inspection of

- Tree health and structural condition; both long and short term
- Site conditions
- Amenity value
- Heritage value
- Habitat value
- Environmental value

All diameter measurements were taken with a diameter tape or forestry callipers. All height and canopy spread values were estimated. Any offset measurements were measured with a tape measure.

Data was collected using GIS software linked to a Trimble Catalyst DA-2 GPS antenna with 1cm-2cm accuracy in optimal GPS conditions. Where trees were located on the survey plan, the locations were corrected using the following parameters:

- Locations were corrected to the dwg survey plan where present.
- Where absent from the survey, the GPS location was used. Using this method; locations may be +/- 1m due to tree canopies and GPS interference.

Proposed plans were georeferenced to the survey plan and impacts were assessed in GIS software. Some discrepancies may exist between surveyed boundaries and those provided by the NSW cadastre.

3.2. Useful Life Expectancy

Estimated remaining Useful Life Expectancy (ULE) has been derived using a modified version of the TreeAZ SULE method (Barrell, 2009). An explanation of attributes required to achieve each category can be found in Appendix A.

3.3. Retention Value

The trees' significance rating and retention value were determined using the IACA Significance of a Tree Assessment Rating System (STARS)©. The rating was based on the Tree Significance - Assessment Criteria and the Retention Value - Priority Matrix, which considers landscape significance and estimated Useful Life Expectancy. Detailed explanations of the attributes used can be found in Appendix A.

3.4. Tree Protection Zone and Structural Root Zone

The Tree Protection Zone (TPZ) and Structural Root Zone (SRZ) methods have been derived from the Australian Standard 4970–2009: *Protection of Trees on Development Sites* (Standards Australia Limited, 2009). The radius of the TPZ is calculated for each tree by multiplying its Diameter at Breast Height (DBH) by 12.

$$\text{TPZ radius} = \text{DBH} \times 12$$

In the event the crown spread of the tree extends beyond this offset; the TPZ may be adjusted to the outer extent of the crown spread.

The SRZ is the area around the base of a tree required for the tree's stability in the ground. The SRZ is nominally circular with the trunk at its centre and is expressed by its radius in metres.

$$\text{SRZ radius} = (D \times 50)^{0.42} \times 0.64$$

4. Observations

4.1. Site Soils

Site soils are expected to deviate from their natural state due to past urban development.

The site is located on the Blacktown Residual soil landscape which is described as ‘gently undulating rises on Wianamatta Group shales. Local relief to 30 m, slopes usually >5%. Broad rounded crests and ridges with gently inclined slopes. Cleared Eucalypt woodland and tall open-forest (dry sclerophyll forest).’ (Department of Planning, Industry and Environment, 2020)

Soils of the Blacktown landscape are characterised by ‘shallow to moderately deep (>100 cm) hardsetting mottled texture contrast soils, Red and Brown Podzolic Soils (Dr3.21, Dr3.31, Db2.11, Db2.21) on crests grading to Yellow Podzolic Soils (Dy2.11, Dy3.11) on lower slopes and in drainage lines.’ (Department of Planning, Industry and Environment, 2020)

Vegetation of this soil landscape is described as ‘Almost completely cleared open-forest and open-woodland (dry sclerophyll forest). The original woodland and open-forest were dominated by *Eucalyptus tereticornis* (forest red gum), *E. crebra* (narrow-leaved ironbark), *E. moluccana* (grey box) and *E. maculata* (spotted gum). Further west near Penrith remnant stands of *E. punctata* (grey gum) occur. Between Liverpool and St Marys, the dominant species are *E. globoidea* (white stringybark) and *E. fibrosa* (broad-leaved ironbark), with *E. longifolia* (woollybutt) as an understorey species. Individual trees or small stands of *E. sideroxylon* (mugga ironbark) are occasionally found on crests.’ (Department of Planning, Industry and Environment, 2020)

4.2. Built Environment

Attributes of the built environment that may influence root growth include:

- Structural footings for the warehouses, site offices, sheds, boundary fences, etc
- Existing subterranean services within the site and along Percival road
- Hardscapes, especially impermeable surfaces and roads that have a structural bearing capacity for trucks and larger plant
- Besser block retaining walls.

4.3. Summary of Tree Observations

Complete tree attributes and observations can be found in Appendix B - Tree Assessment Schedule. A total of 454 trees were inspected and assessed under 278 tree tags. Where trees shared similar attributes and locations, and were of lower significance, they were grouped together.

Photos and a subset of data can be viewed using [this link](#).

A total of 286 trees under 119 tags were not on the provided site survey. These include tree tags 16, 17, 23, 26, 36, 47, 49, 52, 54, 55, 56, 59, 67, 68, 70, 72, 73, 74, 75, 76, 89, 91, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 118, 123, 138, 140, 142, 145, 149, 152, 156, 158, 159, 176, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 189, 190, 191, 192, 193, 194, 195, 196, 198, 201, 202, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 245, 246, 248, 249, 250, 251, 252, 253, 255, 256, 258, 260, 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 275. As such the GPS position has been relied upon.

The site features a diverse array of trees, including indigenous, native, and exotic species. Primarily, *in situ* trees were intentionally planted. However, *Olea europaea subsp. cuspidata*, an exotic tree species with self-seeding tendencies, is likely spreading naturally throughout the site.

In the northeast area of 34/-/DP61752, there are mature *Corymbia maculata* and *Grevillea robusta*, each with microbat habitat boxes installed around 6m high. These boxes are in good condition. No evidence of bat habitat was observed during the site inspection. *Please note the site assessment was conducted during daylight hours.* This area of the site is mapped for Terrestrial Biodiversity with trees 18-22 likely to be the reason for this mapping.

In the southeast section, mature eucalyptus species and smaller exotic trees occupy the landscaped area. Most trees in this section were deemed to have high retention value. Discernible indicators of senescence were observed in Tree 41 (*Corymbia citriodora*); thus, the tree presented low site sustainability. Therefore, this resulted in a low retention value despite the high landscape significance.

Along the western boundary, mature *Casuarina cunninghamiana* held high amenity value and long-term site sustainability, warranting high retention value. However, Trees 86-88, also *Casuarina cunninghamiana*, on the northern boundary of the factory, have poor form due to previous topping and were assessed as having low retention value. As a result of the findings, the northern area of the site presents a low constraint on future developments.

The eucalyptus and casuarina along the western boundary of 1/-/DP597082 vary in size, health and site sustainability, resulting in a range of retention values. However, there are several *Eucalyptus microcorys* within this area with high amenity value due to their health, size and position along the site's western frontage.

In the staff car park, a row of *Eucalyptus microcorys*, Trees 167 - 177, exhibited poor health due to a restricted growing environment, leading to low retention value and indicating low environmental constraints on development in that area.

The eastern boundary between 1/-/DP597082 and the neighbouring property of 2 Percival Road hold a small 0.3 h pocket of *Cumberland Woodland Plains* vegetation. This is primarily due to the

canopy of mature and semi-mature *Eucalyptus moluccana*. The boundary between these two lots is partially separated by a tall better block retaining wall. This root growth constraint is to be considered when assessing construction incursions within the TPZ of Trees 220-224.

Along the site's northern boundary is a mixture of *Corymbia citriodora*, *Fraxinus griffithii* and self-sown *Olea europaea subsp. cuspidata*. Due to the range in tree dimensions and species, a range of retention values was assessed along this boundary.

Table 7 summarises the mix of species and origin.

Table 7: Tree Species and Origin Summary

Total		Origin			Grand Total
Botanical Name	Dead or other	Exotic	Indigenous	Native	
<i>Acacia decurrens</i>				2	2
<i>Angophora costata</i>			1		1
<i>Brachychiton acerifolius</i>				1	1
<i>Callistemon citrinus</i>				1	1
<i>Callistemon salignus</i>				3	3
<i>Calodendrum capense</i>		1			1
<i>Casuarina cunninghamiana</i>			32		32
<i>Casuarina glauca</i>			8		8
<i>Corymbia citriodora</i>				32	32
<i>Corymbia ficifolia</i>				1	1
<i>Corymbia maculata</i>			11		11
<i>Cupaniopsis anacardioides</i>				2	2
Dead tree	2				2
<i>Eucalyptus crebra</i>			6		6
<i>Eucalyptus grandis</i>				1	1
<i>Eucalyptus microcorys</i>	1			34	35
<i>Eucalyptus moluccana</i>			22		22
<i>Eucalyptus nicholii</i>				4	4
<i>Eucalyptus punctata</i>			2		2
<i>Eucalyptus scoparia</i>				3	3
<i>Eucalyptus sideroxylon</i>			38		38
<i>Eucalyptus sp.</i>				1	1
<i>Eucalyptus tereticornis</i>			13		13
<i>Fraxinus griffithii</i>		1			1
<i>Gleditsia triacanthos</i>		4			4
<i>Grevillea robusta</i>			2		2
<i>Leptospermum</i>				1	1

<i>Total</i>		<i>Origin</i>			
<i>Botanical Name</i>	Dead or other	Exotic	Indigenous	Native	Grand Total
<i>petersonii</i>					
<i>Ligustrum lucidum</i>		1			1
<i>Ligustrum sinense</i>		1			1
<i>Melaleuca decora</i>			2		2
<i>Melaleuca quinquenervia</i>			8		8
<i>Murraya paniculata</i>				2	2
<i>Olea europaea subsp. cuspidata</i>		12			12
<i>Pittosporum undulatum</i>			1		1
<i>Platanus x acerifolia</i>		2			2
<i>Pyrus calleryana</i>		2			2
<i>Triadica sebifera</i>		15			15
<i>Tristaniopsis laurina</i>				1	1
<i>Ulmus parvifolia</i>		1			1
Grand Total	3	40	146	89	278

Table 8 summarises the trees' legislated protection status under the CDCP. This assessment considers the size of the tree or exemption due to their species.

Table 8: Tree Legislated Protection Status

DCP Status	Tag/Tree QTY (Tree QTY)	Tree Numbers
Protected	252 (312)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 25, 27, 28, 29, 30, 31, 35, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 50, 51, 52, 53, 54, 55, 56, 57, 58, 60, 63, 64, 65, 66, 69, 71, 72, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178, 179, 180, 181, 182, 183, 184, 185, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 215, 216, 217, 218, 219, 221, 222, 223, 224, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 277, 278
Exempt	26 (142)	23, 26, 32, 33, 34, 36, 49, 59, 61, 62, 67, 68, 70, 73, 74, 91, 118, 149, 176, 186, 213, 220, 225, 246, 275, 276
N/A	0 (0)	
Total	278 (454)	

4.4. Tree Significance

Determined using the Tree Significance - Assessment Criteria of the IACA Significance of a Tree, Assessment Rating System (STARS)© (IACA, 2010); 45 trees were determined to possess a High Landscape Significance Rating due to them being:

- in good condition and good vigour;
- having a form typical for the species;
- a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;
- visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;

Table 9: Landscape Significance Rating

Landscape Value	Tag/Tree QTY (Tree QTY)	Tree Numbers
1 (High)	45 (48)	18, 21, 22, 25, 35, 38, 39, 41, 44, 45, 46, 50, 51, 53, 58, 71, 72, 78, 79, 80, 81, 82, 111, 114, 115, 116, 119, 120, 121, 125, 127, 128, 136, 160, 166, 184, 188, 197, 199, 203, 215, 219, 228, 247, 263
2 (Medium)	115 (143)	19, 24, 28, 29, 30, 31, 37, 40, 42, 47, 48, 52, 54, 55, 56, 65, 76, 77, 83, 85, 92, 99, 102, 106, 107, 108, 109, 110, 112, 113, 117, 122, 124, 126, 129, 131, 132, 133, 137, 138, 139, 141, 142, 143, 144, 145, 146, 147, 150, 151, 153, 154, 156, 157, 163, 164, 165, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 182, 183, 185, 187, 193, 195, 196, 198, 200, 202, 207, 208, 209, 210, 211, 212, 216, 218, 221, 222, 223, 224, 226, 227, 229, 231, 233, 234, 236, 237, 238, 239, 240, 241, 242, 243, 244, 251, 254, 259, 260, 262, 269, 271, 272, 273, 274, 278
3 (Low)	93 (180)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 23, 27, 32, 33, 34, 36, 43, 49, 57, 60, 61, 63, 64, 66, 69, 75, 86, 87, 88, 90, 91, 93, 95, 96, 97, 100, 101, 103, 104, 105, 123, 135, 140, 148, 152, 158, 161, 162, 178, 179, 180, 181, 189, 190, 191, 192, 194, 201, 204, 205, 206, 214, 217, 225, 230, 232, 235, 245, 248, 249, 250, 252, 253, 255, 256, 257, 258, 261, 264, 265, 266, 267, 268, 270, 275, 277
4 (Environmental Pest / Noxious Weed)	13 (67)	26, 59, 62, 67, 68, 70, 73, 74, 118, 186, 213, 220, 246
5 (Hazardous / Irreversible Decline)	12 (16)	20, 84, 89, 94, 98, 130, 134, 149, 155, 159, 176, 276
Total	278 (454)	

4.5. Retention Value

Determined using the Retention Value - Priority Matrix of the *IACA Significance of a Tree, Assessment Rating System (STARS)* © (IACA, 2010), which is a matrix assessment of landscape significance and estimated Useful Life Expectancy. Tree retention values are summarised in Table 10.

Table 10: Retention Value

Retention Value	Tag/Tree QTY (Tree QTY)	Tree Numbers
High - Priority for Retention	63 (66)	18, 19, 21, 22, 25, 35, 38, 39, 44, 45, 50, 53, 54, 58, 71, 72, 77, 78, 79, 80, 81, 82, 83, 110, 111, 112, 114, 115, 116, 119, 120, 121, 125, 127, 128, 129, 131, 136, 141, 144, 147, 150, 160, 166, 184, 188, 197, 199, 203, 218, 219, 228, 236, 237, 238, 239, 240, 242, 247, 259, 263, 269, 273
Medium - Consider for Retention	74 (101)	16, 23, 28, 29, 31, 32, 33, 36, 37, 48, 49, 52, 55, 56, 61, 76, 92, 95, 96, 97, 99, 102, 106, 108, 113, 122, 123, 126, 132, 133, 142, 143, 146, 154, 156, 157, 161, 164, 165, 183, 185, 187, 189, 190, 191, 193, 195, 196, 198, 207, 210, 211, 212, 222, 226, 227, 229, 231, 234, 235, 241, 243, 251, 254, 255, 256, 257, 260, 262, 264, 267, 268, 270, 274
Low - Consider for Removal	111 (197)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 24, 27, 30, 34, 40, 41, 42, 43, 46, 47, 51, 57, 63, 65, 66, 69, 75, 85, 86, 87, 88, 91, 93, 100, 101, 103, 104, 105, 107, 109, 117, 124, 135, 137, 138, 139, 140, 145, 148, 151, 153, 158, 162, 163, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178, 179, 180, 181, 182, 192, 194, 200, 202, 204, 205, 206, 208, 209, 214, 215, 216, 217, 221, 223, 224, 225, 230, 232, 233, 244, 245, 248, 249, 250, 252, 253, 258, 261, 265, 266, 271, 272, 275, 277, 278
Priority for Removal	30 (90)	20, 26, 59, 60, 62, 64, 67, 68, 70, 73, 74, 84, 89, 90, 94, 98, 118, 130, 134, 149, 152, 155, 159, 176, 186, 201, 213, 220, 246, 276
Total	278 (454)	

Table 11: Retention Value Descriptions

Retention Value	Description and Relevance
High - Priority for Retention	These trees are considered important for retention and should be retained and protected. Design modification or re-location of buildings should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4970-2009 <i>Protection of trees on development sites</i> . Tree-sensitive construction must be implemented, e.g. pier and beam, etc, if works are to proceed within the Tree Protection Zone.
Medium - Consider for Retention	These trees may be retained and protected. These are considered less critical; however, their retention should remain a priority, with removal only if adversely affecting the proposed building/works and all other alternatives have been exhausted.
Low - Consider for Removal	These trees are not important for retention, nor require special works or design modifications to be implemented for their retention.
Priority for Removal	These trees are considered hazardous, or in irreversible decline, or weeds and should be removed irrespective of development.

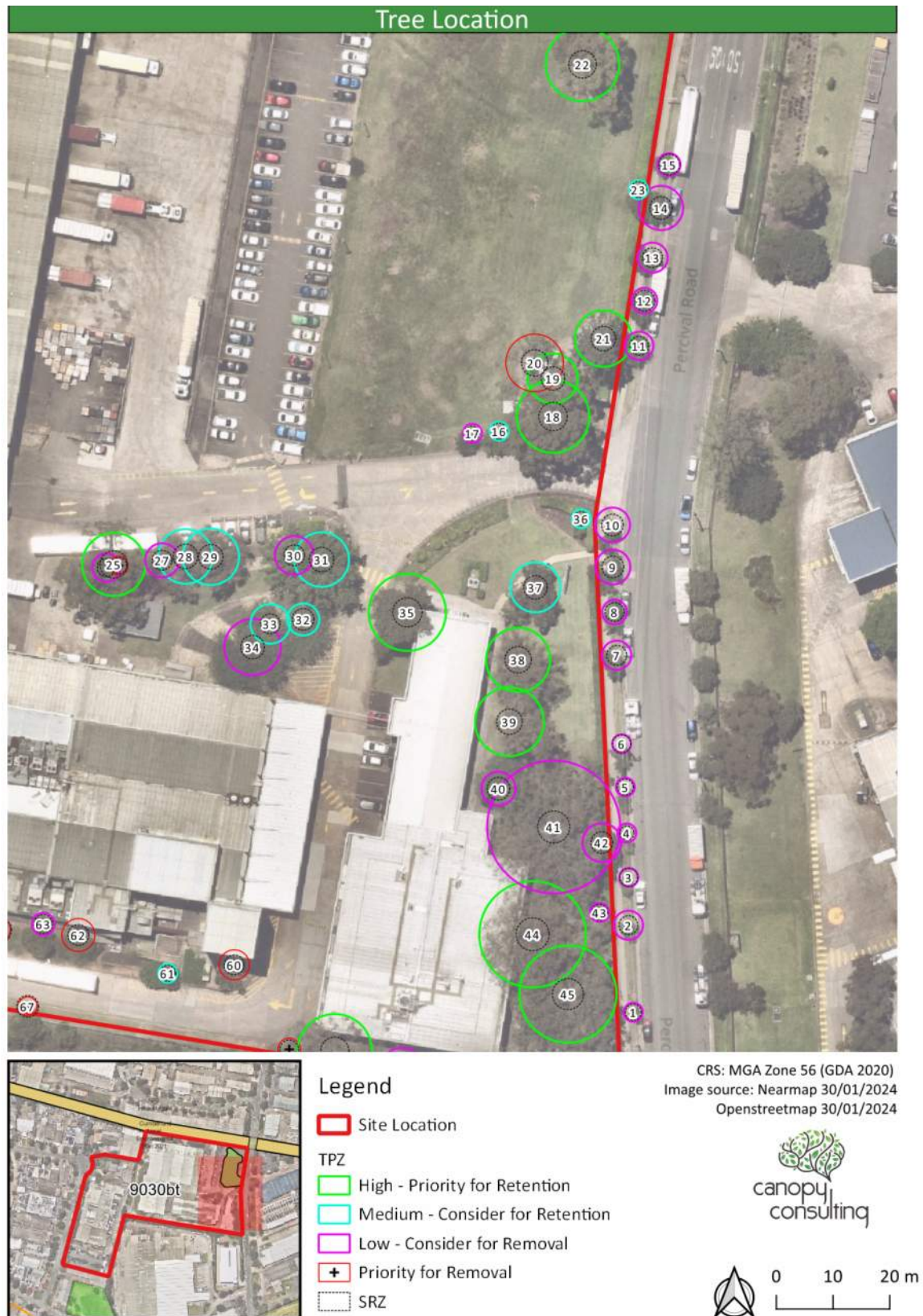


Figure 6.1: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

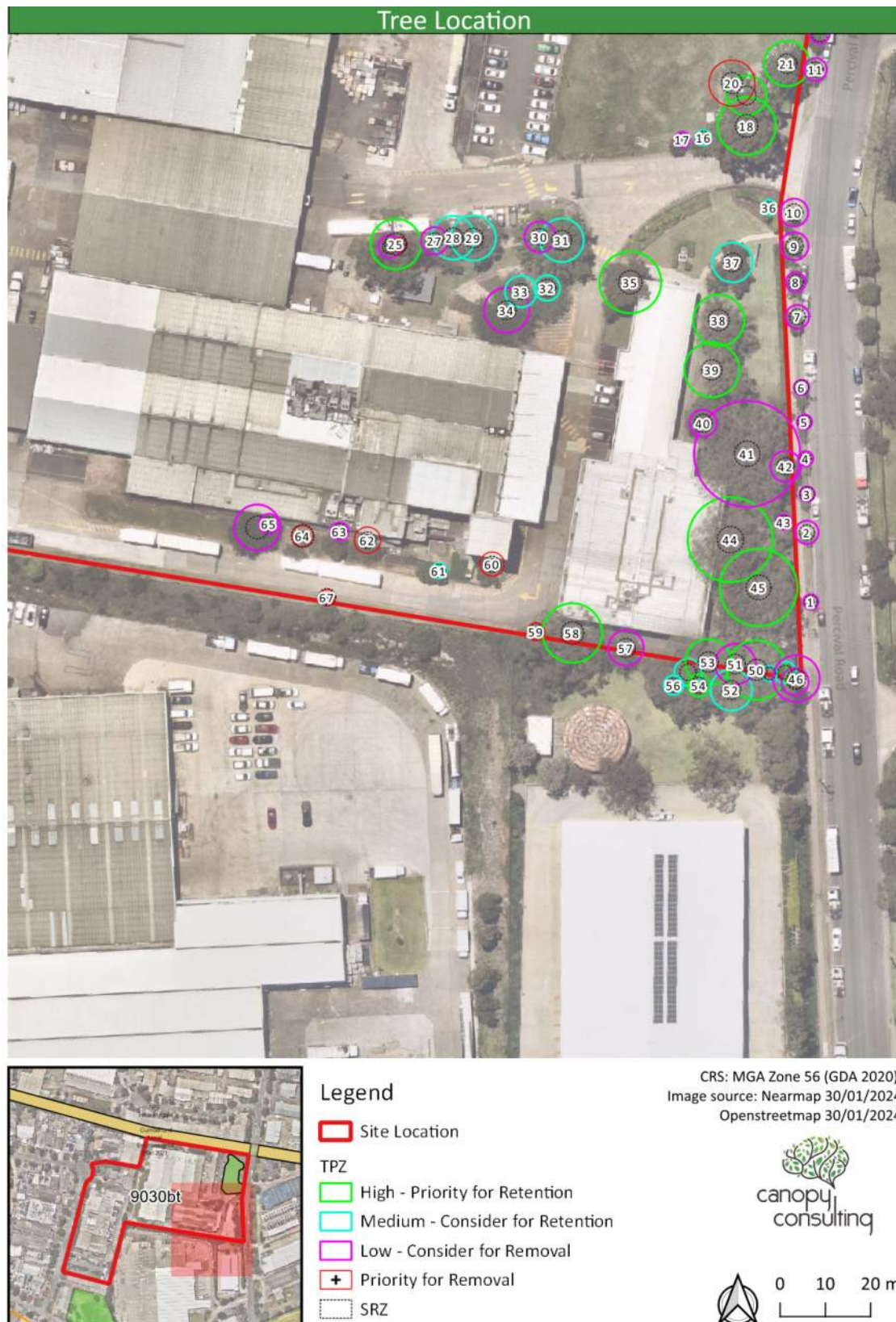


Figure 6.2: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Figure 6.3: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Figure 6.4: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Figure 6.5: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Figure 6.6: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

5. Discussion

5.1. Tree Protection Zone (TPZ)

The Tree Protection Zone (TPZ) is a radial distance measured from the centre of the trunk. Application of the TPZ is intended to ensure the protection of the root system and canopy from potential damage incurred from construction works and ensure the long-term health, stability and landscape viability of each tree to be retained.

Incursions into the TPZ may occur due to excavation, modification of existing ground levels, trenching or inverting the soil profile. Such works may damage part or all of the root system or affect soil structure and growing conditions required for long-term growth.

5.2. Structural Root Zone (SRZ)

The Structural Root Zone (SRZ) is the area required for mechanical support and anchorage of a tree. The woody root growth and soil cohesion in this area are required to hold a tree upright.

Incursions into the SRZ are not recommended as they are likely to cause loss or damage to woody roots which may significantly affect stability. However, fully elevated, pier and beam type construction or hand-dug services are possible within the SRZ.

5.3. Acceptable Encroachments into the TPZ

An encroachment of less than 10% of the entire TPZ is considered minor provided it is outside the SRZ and the area lost is compensated for elsewhere and contiguous to the TPZ.

A major encroachment is considered to be greater than 10% of the entire TPZ area. Where unavoidable, exploratory excavation using non-destructive methods such as pneumatic, hydraulic or hand digging may be required to evaluate the extent of potential damage to the root system and determine whether the tree(s) will remain viable. The area lost to encroachment should be compensated for elsewhere and contiguous to the TPZ.

Additional encroachments within the TPZ are acceptable, provided the arborist can demonstrate the tree(s) will remain viable.

5.4. Impact Mitigation Measures

TPZ encroachments should be offset and mitigated using a range of possible measures to ensure impacts are minimised and, therefore, trees remain viable post construction. Mitigation measures should be increased relative to the level of encroachment within the TPZ.

AS 4970-2009 outlines the types of TPZ encroachment and mitigation measures required to ensure long-term viability, which are summarised in Table 12. These measures are only required if a tree is to be retained.

Table 12: Mitigation Measures

Encroachment Type	Mitigation Measures
Nil	Where indirect or inadvertent encroachments may occur due to haul routes or machinery movement, tree protection should be installed.
Minor	- The area lost to encroachment must be offset elsewhere and contiguous to the TPZ. - Detailed root investigations should not be required. - Tree protection must be installed and maintained.
Major	- The Project Arborist must demonstrate the tree(s) will remain viable. - Root investigations using non-destructive methods may be required to clarify or confirm the impacts on trees to be retained. - The area lost to encroachment must be offset elsewhere and contiguous to the TPZ. - All works and excavations within the TPZ must be supervised by the Project Arborist. - Tree protection must be installed and maintained for the duration of the project. - Additional measures such as mulching or temporary irrigation may be required.

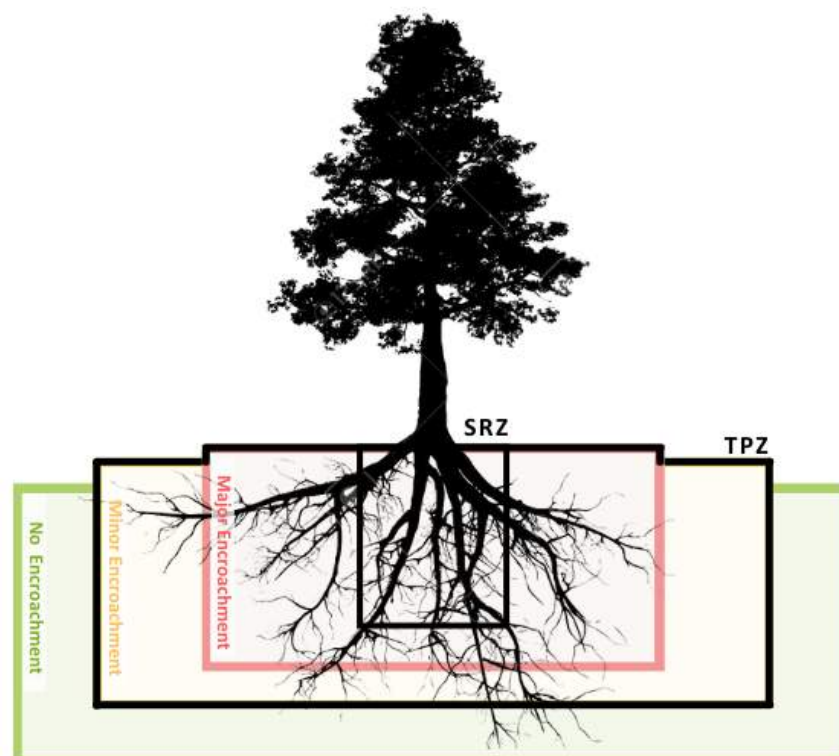


Figure 7: Indicative zones of TPZ and SRZ encroachment.

5.5. Impact Assessment

The following criteria have been considered to determine the impact on site trees that may occur due to the proposed development:

- Existing ground levels (R.L)
- Footprint of the proposed development, temporary structures, and laydown areas.
- Extent of the TPZ/SRZ
- Incursion into the TPZ, including any cut, fill, benching and shoring activities beyond the development footprint.
- Incursions to the tree canopy from the building or temporary structures (scaffolding)
- Existing site and soil conditions

The impacts of the proposed development are summarised in Table 13¹.

¹ No tree protection measures may be recommended as the tree(s) are outside the expected area of construction.
Generic tree protection measures include tree protection fencing, trunk and/or branch protection and restriction of activities within the TPZ.
Generic plus protection measures include generic tree protection measures plus supervision of works within the TPZ and may include, in combination:

- The use of root sensitive construction techniques
- Design revision
- Routing services outside the TPZ
- Root mapping

Table 13: Impact Assessment Summary

		Tree ID and Retention Value			
Recommendation	Tag/Tree QTY (Tree QTY)	High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal
Remove - project impacts	166 (252)	22, 25, 35, 38, 39, 44, 45, 58, 77, 78, 79, 80, 81, 82, 83, 110, 111, 120, 128, 131, 136, 150, 160, 166, 188, 197, 199, 203, 236, 237, 238, 239, 240, 242, 247, 259, 269, 273 Tag QTY: (38) Tree QTY: (38)	16, 28, 29, 31, 32, 33, 36, 37, 61, 92, 99, 102, 106, 108, 154, 156, 157, 161, 164, 165, 185, 189, 190, 191, 193, 195, 196, 198, 207, 212, 231, 234, 235, 241, 243, 251, 254, 255, 256, 257, 264, 267, 268, 270, 274 Tag QTY: (45) Tree QTY: (48)	1, 5, 6, 7, 8, 9, 10, 17, 24, 27, 30, 34, 40, 41, 43, 57, 63, 65, 66, 69, 75, 85, 86, 87, 88, 91, 93, 100, 101, 103, 104, 105, 107, 109, 124, 137, 138, 139, 148, 151, 153, 158, 162, 163, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178, 179, 180, 181, 182, 192, 194, 200, 202, 204, 205, 209, 214, 215, 217, 221, 230, 232, 233, 244, 245, 250, 252, 253, 258, 261, 265, 266, 275 Tag QTY: (83) Tree QTY: (166)	
Remove - irrespective	26 (77)				20, 26, 59, 60, 62, 64, 67, 70, 73, 74, 84, 89, 90, 94, 118, 130, 134, 149, 152, 155, 159, 176, 186, 201, 220, 246 Tag QTY: (26) Tree QTY: (77)
Retain - generic	39 (48)	21, 54, 112, 114, 115, 119, 121, 129, 141, 144, 184 Tag QTY: (11) Tree QTY: (11)	23, 56, 97, 113, 122, 123, 126, 132, 133, 142, 143, 146, 183 Tag QTY: (13) Tree QTY: (22)	2, 3, 4, 11, 12, 13, 14, 15, 42, 117, 135, 140, 145 Tag QTY: (13) Tree QTY: (13)	68, 98 Tag QTY: (2) Tree QTY: (2)
Retain - generic plus (requires alternative design or construction methods)	47 (77)	18, 19, 50, 53, 71, 72, 116, 125, 127, 147, 218, 219, 228, 263 Tag QTY: (14) Tree QTY: (17)	48, 49, 52, 55, 76, 95, 96, 187, 210, 211, 222, 226, 227, 229, 260, 262 Tag QTY: (16) Tree QTY: (31)	46, 47, 51, 206, 208, 216, 223, 224, 225, 248, 249, 271, 272, 277, 278 Tag QTY: (15) Tree QTY: (18)	213, 276 Tag QTY: (2) Tree QTY: (11)
Total	278 (454)				

A total of 385 trees assessed under 235 tag numbers have major TPZ encroachments due to the proposed development.

Of these, 252 trees grouped under 166 tree tags required removal due to the type and level of encroachment. These are comprised of:

- 38 High Retention Value trees,
- 48 Medium Retention Value grouped under 45 tree tags
- 166 Low Retention Value trees grouped under 84 tree tags.

This includes 15 council street trees (5, 6, 7, 8, 9, 10, 100, 101, 102, 103, 104, 105, 106, 107, 108) whose removal will require consent from the respective tree owner.

These will occur due to either in isolation or conjunction with the following:

- Being within the hardstand and/or development footprint for driveways, crossover, retaining walls or building.
- Being subject to unsustainable cut and fill activities that cannot be mitigated.
- Being within a group of trees where larger trees will be removed due to project impacts and remaining trees are of a shape or form and that their retention may cause an unacceptable level of risk or undesirable tree form.

77 trees grouped under 26 tree tags are recommended for removal irrespective of development due to their poor health and/or structural condition and/or weed status and are exempt under the CDCP.

In addition, the conflicts with the crown of trees 112-147 along the Britton Street frontage will need to be carefully analysed by a consulting arborist and the architect to determine what pruning will be required to facilitate the construction, including any scaffold or similar apparatus required for construction.

Trees 18, 19, 52, 76, 116, 125, 127, 147 will be subject to major TPZ encroachments of up to 25%, but remain outside the SRZ. Given the health and species of the trees and relative percentages of encroachment, it is expected these trees will tolerate root disturbance provided plant health techniques are employed and followed through construction - in addition to tree protection measures.

Trees 95, 96, 248, 249, 260, 262, 263, 271, 272, 276, 277, 278 are located within 23 Britton St and Trees 52, 55, 71, 72, 76, 187, 206, 208, 210, 211, 213, 216, 218, 219, 222, 223, 224, 225, 226, 227, 228, 229 within 2 Percival Road; will be subject to major cut and fill based on the current bulk earthworks plan. These trees are proposed to be retained and therefore this area of the design will need to be modified to be either completely outside the TPZ or not result in an encroachment of greater than 15%. Where the level of encroachment may exceed 15% detailed root investigations will be required to guide the type and location of potential engineered solutions that will be necessary to retain these trees.

All remaining tree will be subject to a minor or nil encroachment and can therefore be retained with generic protection measures

In its current form, the proposed development will therefore see the removal of 252 trees (166 tags) due to project impacts, removal of 77 trees (26 tags) due to their health, structure or weed status, the retention of 48 trees (39 tags) with generic tree protection measures and the possible retention of another 77 trees (47 tags) where plan modification and/or root investigations will be during detailed design to ensure that potential engineered solutions to not adversely affect these trees.

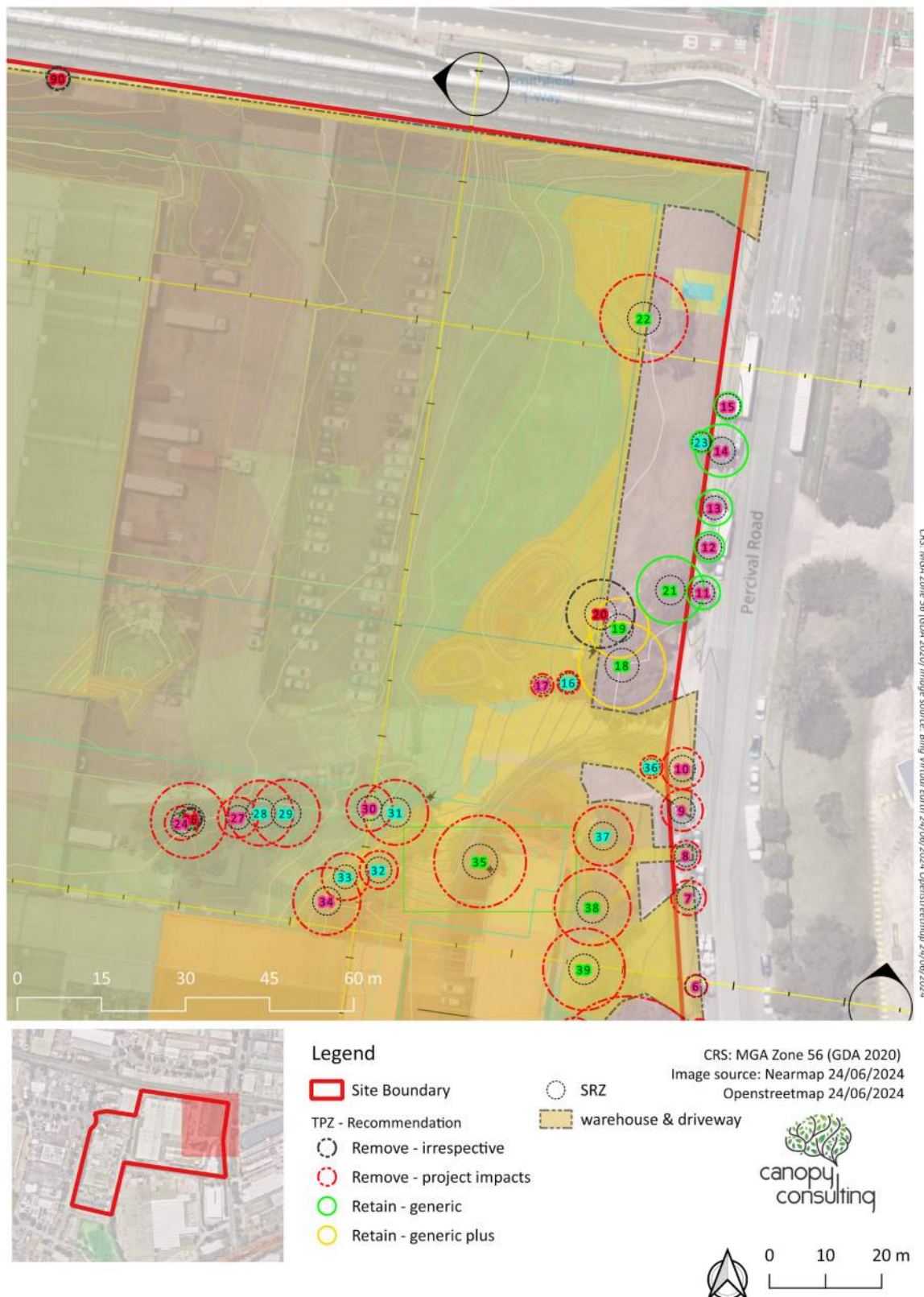


Figure 8.1: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

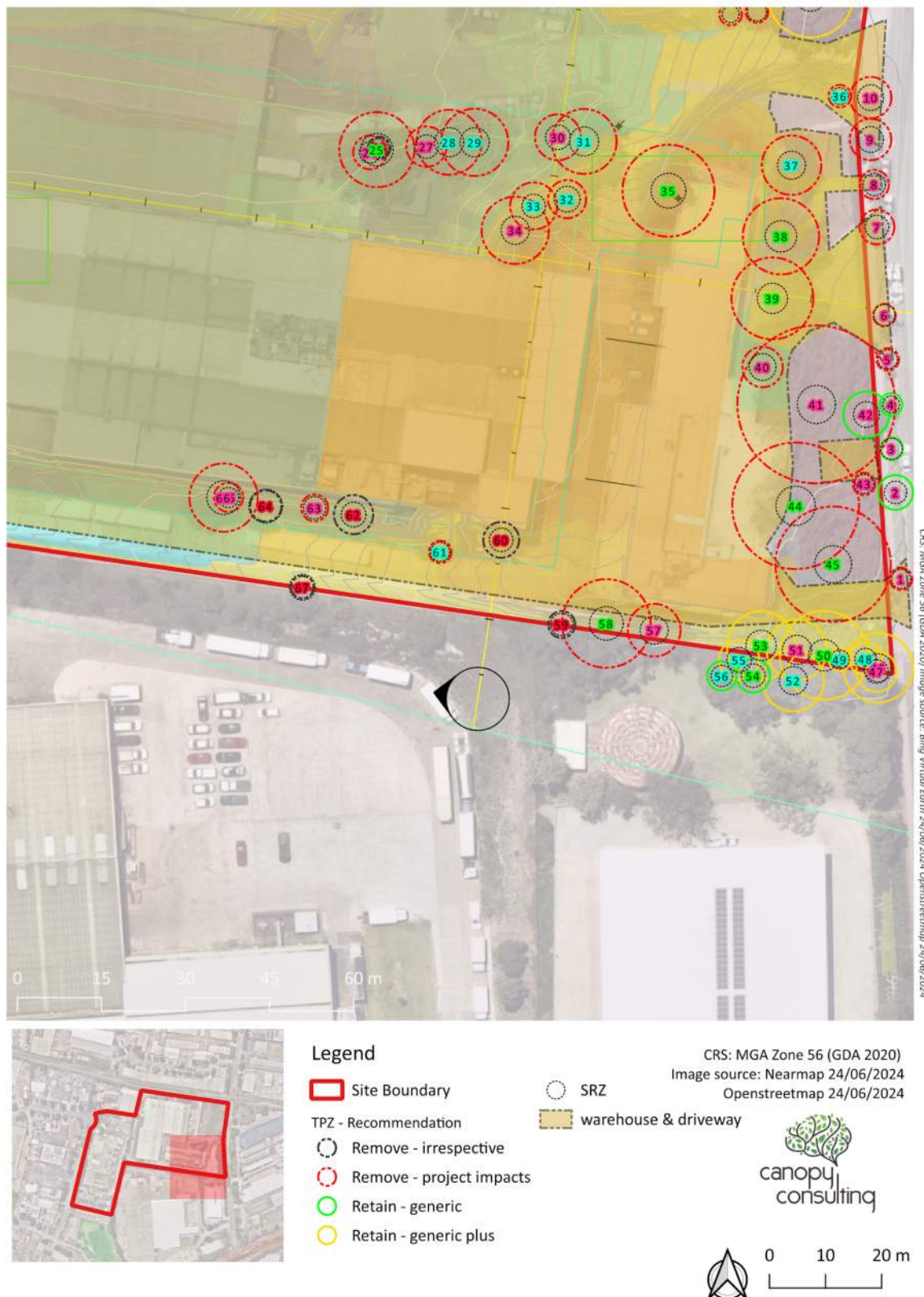


Figure 8.2: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

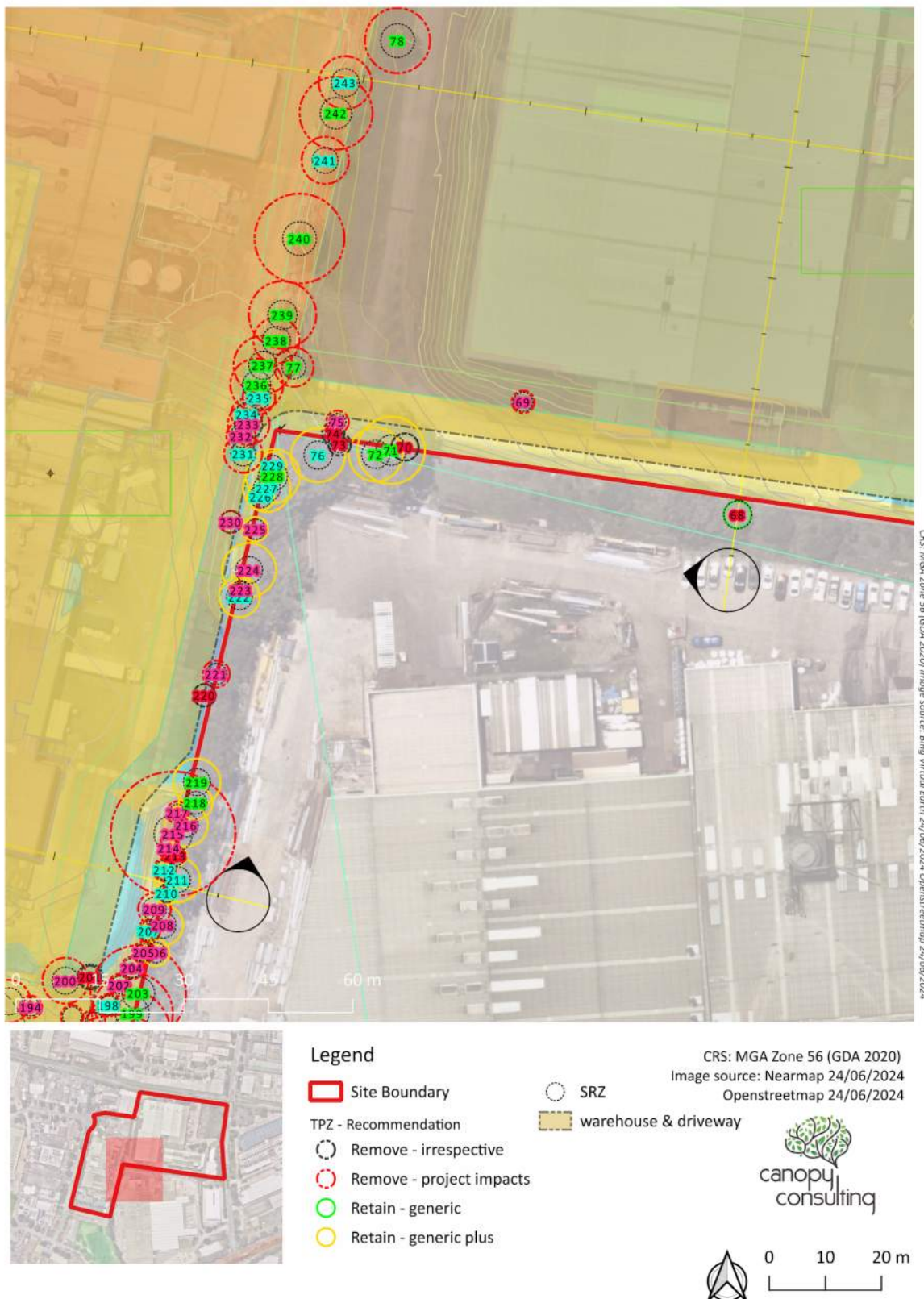


Figure 8.3: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Figure 8.4: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

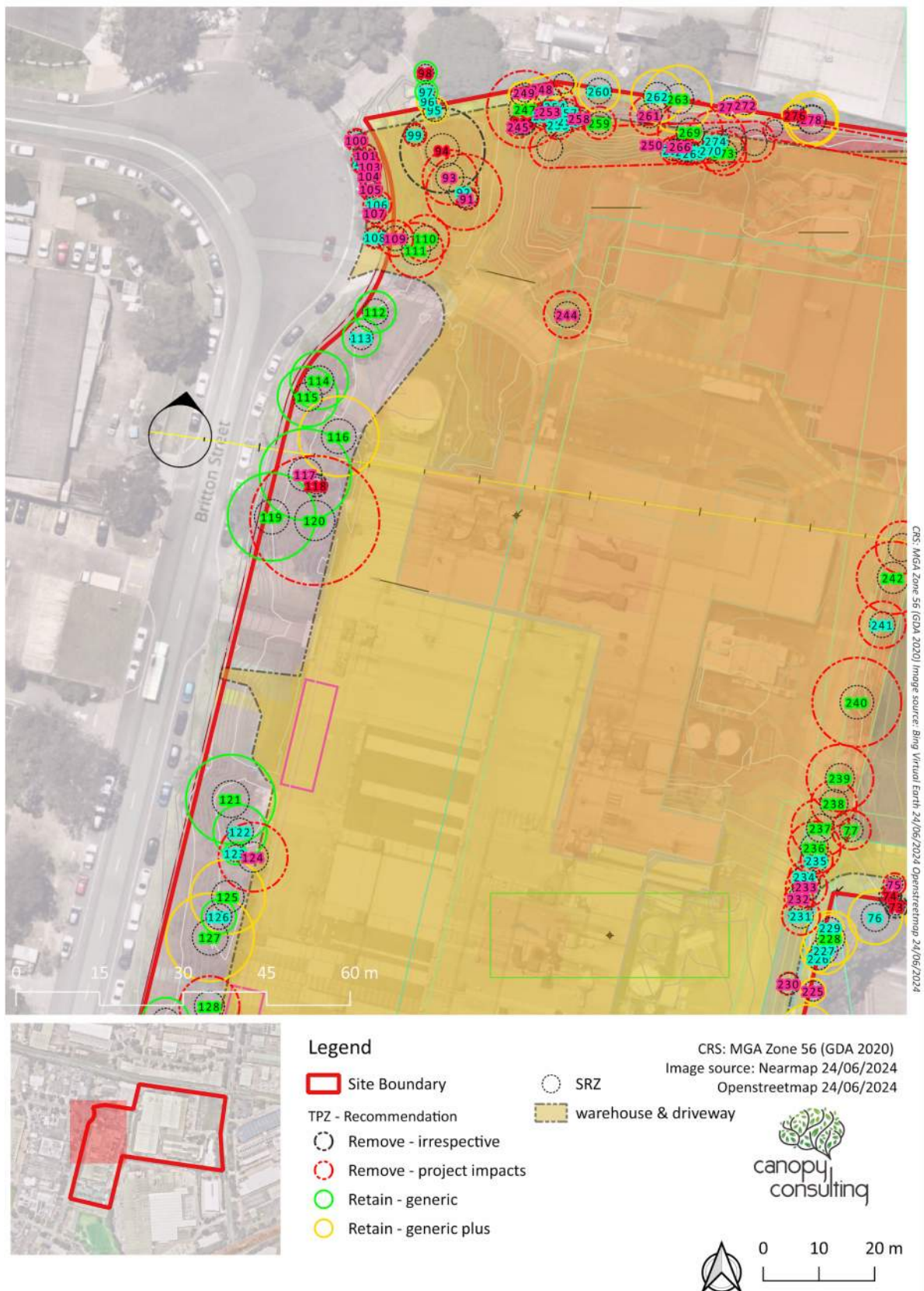
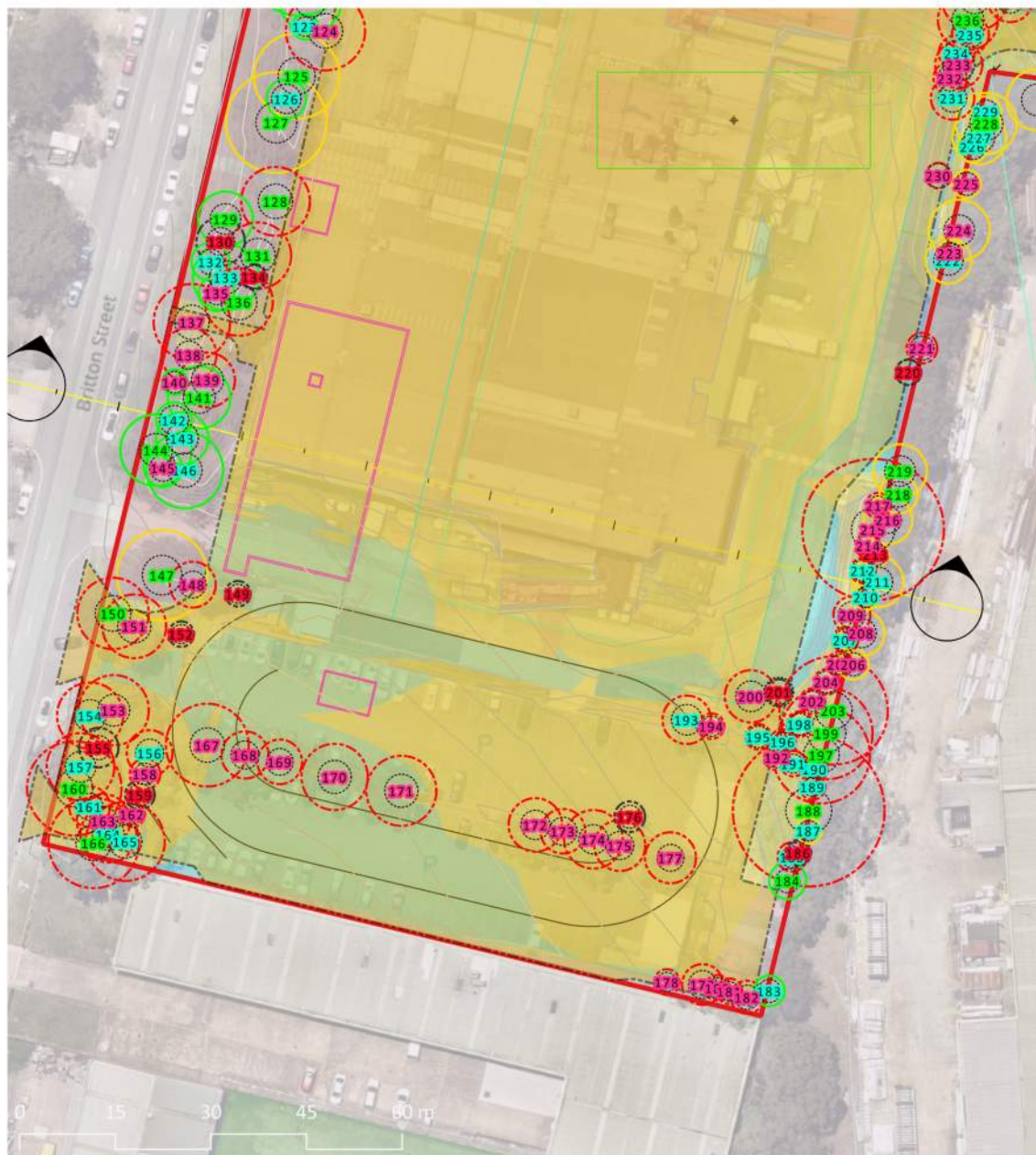


Figure 8.5: Map showing retention values, tree protection zones, structural root zones and overlaid plans.



Legend

- Site Boundary
- TPZ - Recommendation
- Remove - irrespective
- Remove - project impacts
- Retain - generic
- Retain - generic plus

- SRZ
- warehouse & driveway

CRS: MGA Zone 56 (GDA 2020)
Image source: Nearmap 24/06/2024
Openstreetmap 24/06/2024

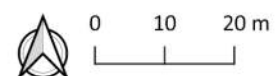


Figure 8.6: Map showing retention values, tree protection zones, structural root zones and overlaid plans.

6. Recommendations

6.1. Project Arborist

An official “Project Arborist” must be commissioned to oversee the tree protection, and any works within the TPZs and complete regular monitoring compliance certification.

The project arborist must have a minimum of five (5) years of industry experience in arboriculture, horticulture with relevant demonstrated experience in tree management on construction sites, and Diploma level qualifications in arboriculture – AQF Level 5.

6.2. Tree Retention and Removal

The recommendations of this report do not constitute consent to remove trees subject to this report. The council or consent authority should be contacted prior to undertaking works as consent may be required to remove and/or prune the tree(s).

Table 14 summarises tree removal and retention and is shown in Appendix C - Tree Protection Management Plan.

Table 14: Tree Retention and Removal

Recommendation	Tag/Tree QTY (Tree QTY)	Tree Numbers
Remove - project impacts	166 (252)	1, 5, 6, 7, 8, 9, 10, 16, 17, 22, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 43, 44, 45, 57, 58, 61, 63, 65, 66, 69, 75, 77, 78, 79, 80, 81, 82, 83, 85, 86, 87, 88, 91, 92, 93, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 120, 124, 128, 131, 136, 137, 138, 139, 148, 150, 151, 153, 154, 156, 157, 158, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 177, 178, 179, 180, 181, 182, 185, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 202, 203, 204, 205, 207, 209, 212, 214, 215, 217, 221, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 247, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 261, 264, 265, 266, 267, 268, 269, 270, 273, 274, 275
Remove - irrespective	26 (77)	20, 26, 59, 60, 62, 64, 67, 70, 73, 74, 84, 89, 90, 94, 118, 130, 134, 149, 152, 155, 159, 176, 186, 201, 220, 246
Retain - generic	39 (48)	2, 3, 4, 11, 12, 13, 14, 15, 21, 23, 42, 54, 56, 68, 97, 98, 112, 113, 114, 115, 117, 119, 121, 122, 123, 126, 129, 132, 133, 135, 140, 141, 142, 143, 144, 145, 146, 183, 184
Retain - generic plus	47 (77)	18, 19, 46, 47, 48, 49, 50, 51, 52, 53, 55, 71, 72, 76, 95, 96, 116, 125, 127, 147, 187, 206, 208, 210, 211, 213, 216, 218, 219, 222, 223, 224, 225, 226, 227, 228, 229, 248, 249, 260, 262, 263, 271, 272, 276, 277, 278

Recommendation	Tag/Tree QTY (Tree QTY)	Tree Numbers
Total	278 (454)	

Trees marked for removal are to be physically marked with paint prior to site establishment as per the approved TPMP. Before removal, the Project Arborist must confirm that all marked trees correspond with those shown in Appendix B - Tree Assessment Schedule and Appendix C – Tree Protection Management Plan.

Tree removal is to be carried out prior to the erection of protection fencing. Under no circumstances are trees marked for retention within protection areas to be damaged. Vehicles and heavy machinery used by contractors are also to be kept clear of these protection areas.

Stumps to be removed from within protection areas are to be removed in a manner that avoids damaging or disturbing roots of trees to be retained. This may include stump grinding or careful 'picking' of the stumps with machinery. Both methods are to be approved by the Project Arborist.

6.3. Offset Planting

Any tree approved to be removed from a site should be replaced with a tree of like habit and indigenous to the LGA where possible, planted as near as practicable to the location of the removed tree, grown to maturity and replaced if the planting fails to survive and thrive.

Suggested species for replacement include:

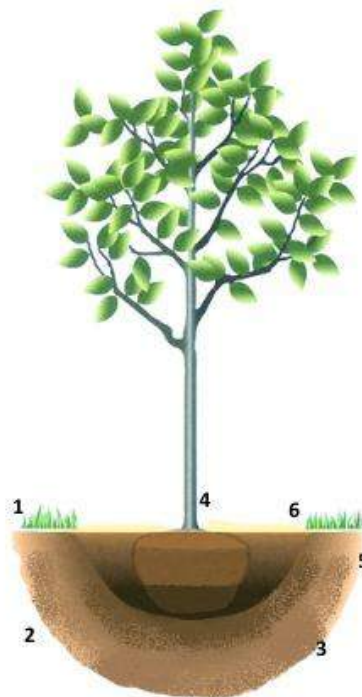
- *Eucalyptus paniculata* (Cabbage Gum)
- *Eucalyptus tereticornis* (Forest Red Gum)
- *Syncarpia glomulifera* (Turpentine)
- *Eucalyptus punctata* (Grey Gum)
- *Eucalyptus baueriana* (Blue Box)

Trees should be sourced from a reputable nursery with stock grown to NATSPEC and Australian Standard AS 2303:2018 *Tree Stock for Landscape Use* criteria.

Trees should be a minimum of 100L pot size at the time of planting.

The trees should be planted and mulched with suitably composted, natural, hardwood mulch as per Figure 9.

Six things you should know when planting a tree.



- 1. Dial Before You Dig**
Several days before planting, call the Dial Before You Dig (DBYG) hotline on 1100 or apply via their website to have any underground services identified
- 2. Handle with Care**
Always lift tree by the root ball. Keep roots moist until planting.
- 3. Digging a Proper Hole**
Dig 2 to 5 times wider than the diameter of the root ball with sloping sides to allow for proper root growth.
- 4. Planting Depth**
The trunk flare should sit slightly above ground level and the top most roots should be buried 25 to 55 mm.
- 5. Filling the Hole**
Backfill with native soil unless it's all clay. Tamp in soil gently to fill large air spaces.
- 6. Mulch**
Allow 25 to 50 mm clearance between the trunk and the mulch. Mulch should be 75 to 100 mm deep.

Source: Arbor Day Foundation

Figure 9: Recommended tree planting process. (Arbor Day Foundation, 2019)

6.4. Generic Tree Protection

Generic tree protection measures are recommended to restrict construction activities within the TPZ which may adversely affect the health and condition of a tree to be retained. In order of precedence, the following is required for trees to be retained. Tree protection measures are to be installed and maintained as shown in Appendix C - Tree Protection Management Plan.

1. Install TPZ fencing and signage as per Appendix C - Tree Protection Management Plan. Where impractical and subject to project arborist approval;
1. Install trunk and ground protection where machine access is required.

Notes:

- All activities within the fenced TPZ are to be supervised by the project arborist.
- TPZ fencing is not to be moved.

6.5. Specific Tree Protection Measures

Table 15 shows specific tree protection measures that are required to ensure the trees nominated for retention remain viable post-construction. These measures are to be read in conjunction with Appendix C – Tree Protection Management Plan (TPMP). The TPMP indicates the position of tree protection devices and other measures to ensure the protection of trees within the site to be retained as part of the proposed development.

Table 15: Specific Tree Protection Measures

Alternative Design or Construction Methods (Generic Plus)	Tag/Tree QTY (Tree QTY)	Tree Numbers
Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	12 (19)	95, 96, 248, 249, 260, 262, 263, 271, 272, 276, 277, 278
Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	27 (50)	46, 47, 48, 49, 50, 51, 53, 55, 71, 72, 187, 206, 208, 210, 211, 213, 216, 218, 219, 222, 223, 224, 225, 226, 227, 228, 229
Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	8 (8)	18, 19, 52, 76, 116, 125, 127, 147

6.6. Tree Pruning

Tree pruning is expected to be required subject to analysis of crown conflicts with the trees along Britton Street. This will require further assessment during detailed design in consultation with the Project Arborist.

Trees are to be pruned in accordance with AS 4373-2007: *Pruning of Amenity Trees* (Standards Australia, 2007).

Trees are to be dismantled and/or removed in such a manner as to avoid damage to adjacent or understory vegetation and structures.

All pruning works should be completed by a minimum AQF Level 3 Arborist or under direct supervision thereof.

6.7. Compliance and Certification Reporting – Hold Points

The following project milestones are recommended to be carried out by the project arborist. These inspections are summarised below and expanded upon in the following sections.

Table 16: Compliance and Certification Table

Construction Stage	Task	Responsibility	Certification	Timing of Inspection
Pre-construction	Indicate clearly (with spray paint or tape on trunks) trees approved for removal only	Principal Contractor	Project Arborist	Prior to site establishment
	Install tree protection measures			
	Induct construction staff into Tree Protection Management Plan			
During Construction	Supervise all excavation works proposed within the TPZ of trees to be retained			As required prior to the works proceeding adjacent to trees to be retained
	Inspection of trees by Project Arborist			Quarterly during construction period
Post-construction	Final Inspection of trees by Project Arborist			Following practical completion of works

6.8. Tree Sensitive Construction Methods

Exploratory Root Investigation

Where trees are intended to be retained, and potential works areas may enter the TPZ or SRZ, determining root location and, therefore the impact on the trees is an important process.

Exploratory root excavation should be undertaken in a manner that causes the least amount of damage to root material in the process. This may include the use of air excavation (air-spade) or hydro or dry-vac excavation. Root investigations should be undertaken at pre-agreed locations that will most effectively guide the design.

Findings of the root investigation should be compiled into a report which identifies significant roots that should be retained and less significant roots that may be appropriate for severance. The size and volume of roots which may be cut must be assessed by an arborist and consider tree physiology, existing site and soil conditions and species traits and tolerance of root pruning.

Fill within Tree Protection Zones

Where unavoidable, fill placed within TPZ of trees to be retained shall be well-drained material equivalent or finer in texture than the existing site topsoil material and should comply with AS 4419:2003 *Soils for Landscaping and Garden Use*.

The fill can be lightly consolidated but not to engineering standards. If fill is to be placed by machinery, this must be done from outside the TPZ or from existing hard stand areas. Alternatively, ground, trunk and branch protection may be used to facilitate machine access.

Pavements within Tree Protection Zones

Any pavements or footpaths within TPZ of trees to be retained should be installed at or above the existing grade to minimise the need for excavation to avoid damage or severance of primary woody roots. The pavement sub-base shall be a coarse, gap-graded material with no fines in order to allow some aeration and moisture infiltration to the root zone. The use of permeable pavements, bonded aggregate or cellular confinement systems should be investigated as alternative construction methods.

Landscaping Works within Tree Protection Zones

The landscape plan is to be checked for compliance with the TPMP. Staged removal of tree protection methods may be required to facilitate landscaping works.

Any landscaping works within the TPZ of trees to be retained are to be under the direct supervision of the Project Arborist. These may include but are not limited to; retaining walls, irrigation and lighting systems, topdressing, planting and paving.

Any landscaping works requiring excavation for drainage or the like is to be undertaken using non-destructive methods previously described.

Trenching for Installation of Underground Services

All underground services should be routed outside the TPZ of trees to be retained. Where unavoidable, services may be installed via alternative methods which may include tree sensitive excavation or Horizontal Directional Drilling (HDD). Where HDD is used, entry and exit pits are to be located outside the TPZ of trees to be retained.

Where excavation or trenching is required to facilitate the installation of underground services within the TPZs of any site trees arborist supervision is required. Works should be undertaken using techniques that are sensitive to tree roots to avoid unnecessary damage. Such techniques include

- Excavation by hand
- Excavation using a high-pressure water jet and vacuum truck
- Excavation using an Air Spade with a vacuum truck.

Machine excavation is prohibited within the TPZs of retained trees unless undertaken at the direct consent from the project arborist and/or the responsible authority.

Where a situation occurs that a significant root (root greater than >50 mm diameter) requires pruning or removal, the root is to be severed with a sharp saw implement by or under the instruction of the Project Arborist.

7. Arboricultural Method Statement – Pre-Construction & Demolition

7.1. Site Establishment

The Project Arborist is to be provided a copy of the Construction Management Plan (CMP) to check for compliance with the TPMP. The CMP should ensure that site sheds, haul roads, laydown areas and sediment control are located outside the TPZ of trees to be retained.

At the completion of site establishment, the Project Arborist is to certify that tree protection measures comply with the TPMP.

7.2. Tree Protection Zone Fencing

Protective fencing is to be installed as per Appendix C – Tree Protection Management Plan. Fencing is to comply with Australian Standard AS 4687-2007 Temporary fencing and hoardings (Standards Australia, 2007).

Once erected, protective fencing must not be removed or altered without approval from the project arborist. The TPZ fencing should be secured to restrict access.

TPZ fencing is to be a minimum of 1.8m high and mesh or wire between posts must be highly visible. Fence posts and supports should have a diameter greater than 20mm and should ideally be freestanding, otherwise be located clear of the roots.

Tree protection fencing must remain intact throughout all proposed construction works and must only be dismantled after their conclusion. The temporary dismantling of tree protection fencing must only be done with the authorisation of the Project Arborist and/or the responsible authority.

An example of tree protection fencing is shown in Figure 10.

Any works to be undertaken within the Tree Protection Zone fencing are to be monitored and certified by the project arborist.

Legend:

1. Chain wire mesh panels with shade cloth (if required) attached, held in place with concrete feet.
2. Alternative plywood or wooden paling fence panels. The fencing material also prevents building materials or soil entering the TPZ.
3. Mulch installation across the surface of TPZ (at the discretion of the project arborist). No excavation, construction activity, grade changes, surface treatment or storage of materials of any kind is permitted within the TPZ.
4. Bracing is permissible within the TPZ. Installation of supports should avoid damaging roots.

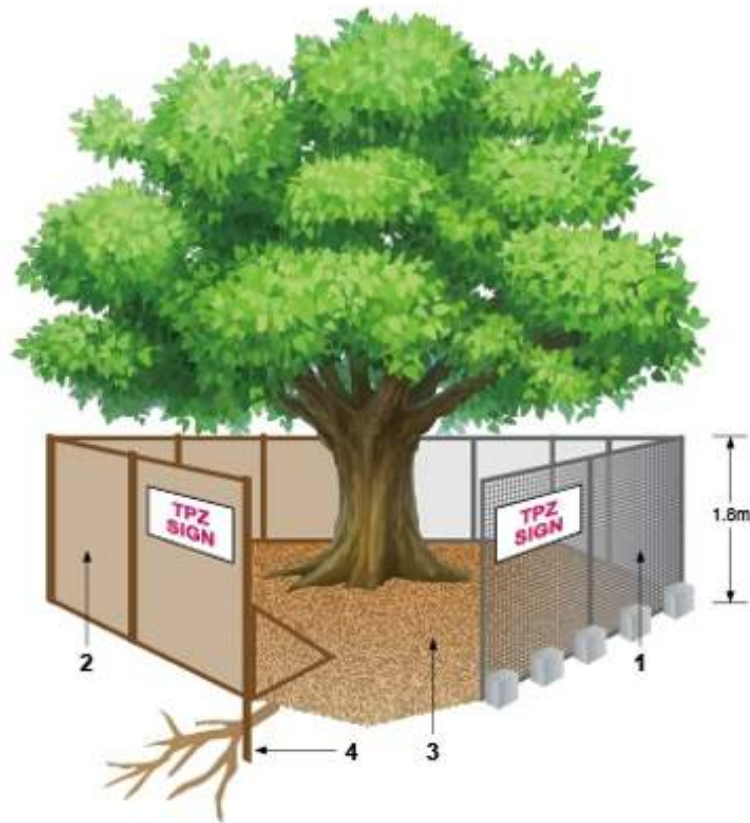


Figure 10: Recommended tree protection fencing measures. (Standards Australia, 2009)

7.3. Prohibited Activities within the TPZ

Activities generally excluded from the TPZ included but are not limited to-

- a) Machine excavation including trenching;
- b) Excavation for silt fencing;
- c) cultivation;
- d) storage;
- e) preparation of chemicals, including preparation of cement products;
- f) parking of vehicles and plant;
- g) refuelling;
- h) dumping of waste;
- i) wash down and cleaning of equipment;
- j) placement of fill;
- k) lighting of fires;
- l) soil level changes;
- m) temporary or permanent installation of utilities and signs, and

- n) physical damage to the tree.

7.4. Tree Protection Signs

Signs identifying the TPZ are to be installed on the tree protection fencing in 10m intervals. An example is shown below in Figure 11.



Figure 11: Example of tree protection signage. (Standards Australia, 2009)

7.5. Sediment Control

Sediment control within tree protection zones is to be installed to avoid below ground excavation as this may damage roots. Coir logs installed above grade that are pinned to avoid roots are an acceptable method.

7.6. Ground, Trunk and Branch Protection

If temporary access for machinery is required within the TPZ of trees to be retained, ground protection measures will be required. The purpose of ground protection is to prevent root damage and soil compaction. Measures may include a permeable membrane such as geotextile fabric beneath a 100mm thick layer of mulch or crushed rock below rumble boards, or steel plates or track mats as per Figure 12.

Tree trunk/s and/or major branches located within close proximity to works must be wrapped with protective hessian or similar acceptable material to prevent tree injury. Major branches would typically be considered to be of a diameter greater than 100mm diameter.

Timber battens (50 mm x 100 mm x 2000mm or similar) must be placed around tree trunks with battens spaced at 100 mm intervals and fixed against the trunk using metal or durable plastic strapping with connections appropriately finished or covered to protect pedestrians from snagging injury. The hessian and timber battens must not be fixed to the tree. Tree trunk and major branch protection are to remain in place for the duration of works and must be removed at the completion of the project.

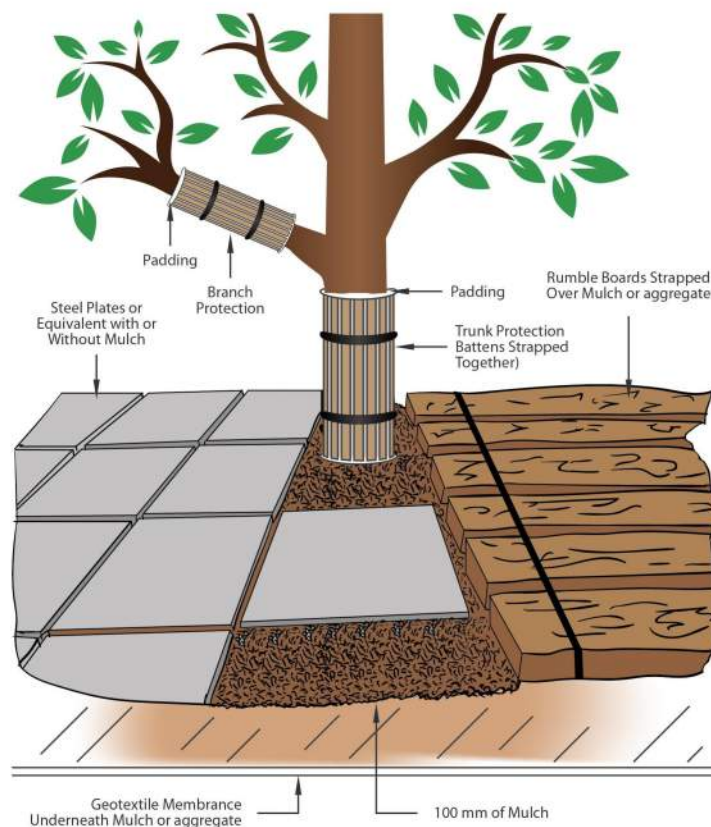


Figure 12: Details of trunk, branch and ground protection. (Standards Australia, 2009)

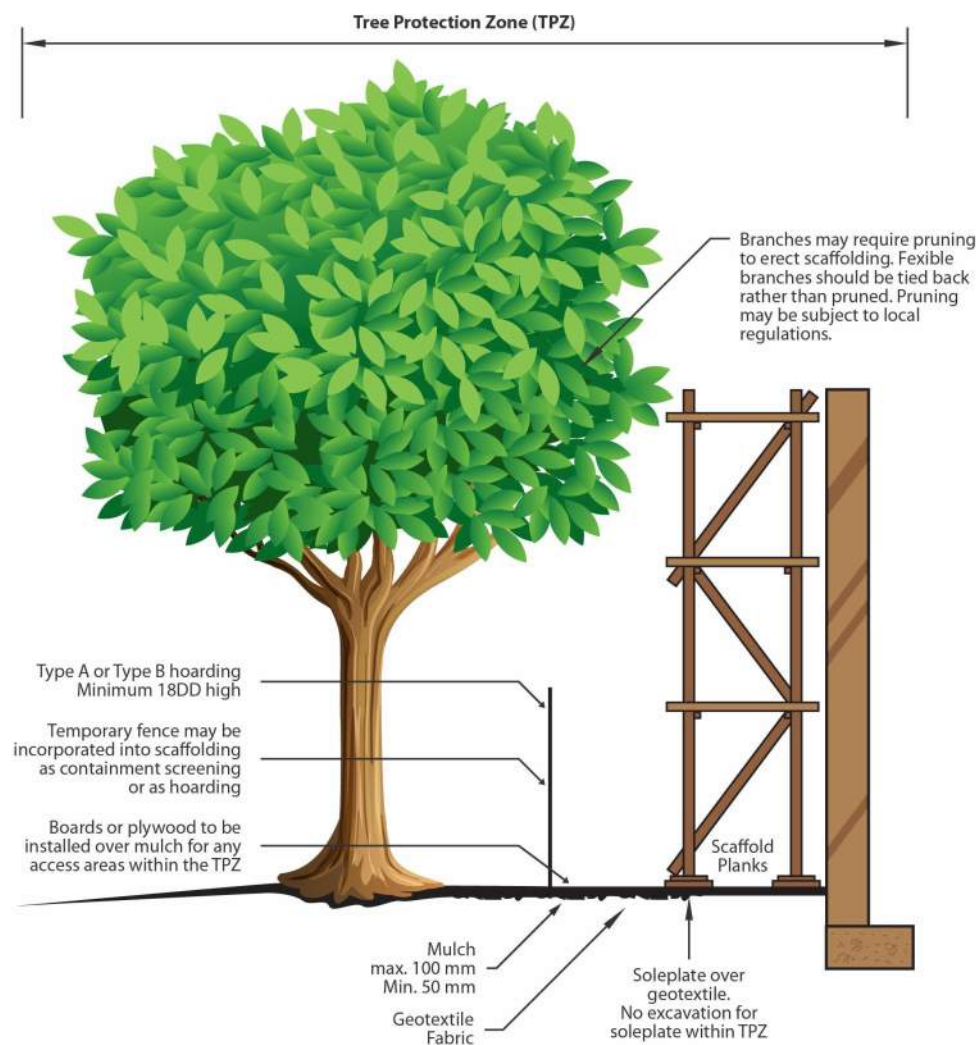
7.7. Demolition of Existing Hard Stand Areas

Demolition of existing hard stand areas within the TPZ of trees to be retained may be undertaken using machinery but must be under the supervision of the Project Arborist. Demolition of the ground surfaces must be undertaken from existing hard stand areas or ground protection and should commence at the outer extent of the existing surface material and move away from trees to be retained.

7.8. Scaffolding

Where scaffolding is required it should be erected outside the TPZ. Where it is essential for scaffolding to be erected within the TPZ, branch removal should be minimised. This can be achieved by designing scaffolding to avoid branches or tying back branches. Where pruning is unavoidable it must be specified by the project arborist in accordance with AS 4373-2007 Pruning of Amenity Trees. NOTE: Pruning works will require approval by determining authority.

The ground below the scaffolding should be protected by boarding (e.g. scaffold board or plywood sheeting) as shown in Figure 13. Where access is required, a boardwalk or other surface material should be installed to minimise soil compaction. Boarding should be placed over a layer of mulch and impervious sheeting to prevent soil contamination. The boarding should be left in place until the scaffolding is removed.



NOTE: Excavation required for the insertion of support posts for tree protection fencing should not involve the severance of any greater than 20 mm in diameter. Without the prior approval of the project arborist.

Figure 13: Details of scaffold installation. (Standards Australia, 2009)

8. Arboricultural Method Statement – Construction Stage

8.1. Excavations Within Tree Protection Zones

The Project Arborist is to monitor the impacts of demolition, bulk earthworks, and installation of temporary infrastructure including building, sediment control and drainage works.

Where the extent of encroachment is less than 10% of the TPZ, including any excavations for benching and shoring, excavation may be undertaken using conventional construction methods. 10% of the TPZ is equivalent to one-third of the TPZ radius on one side as shown in Figure 14.

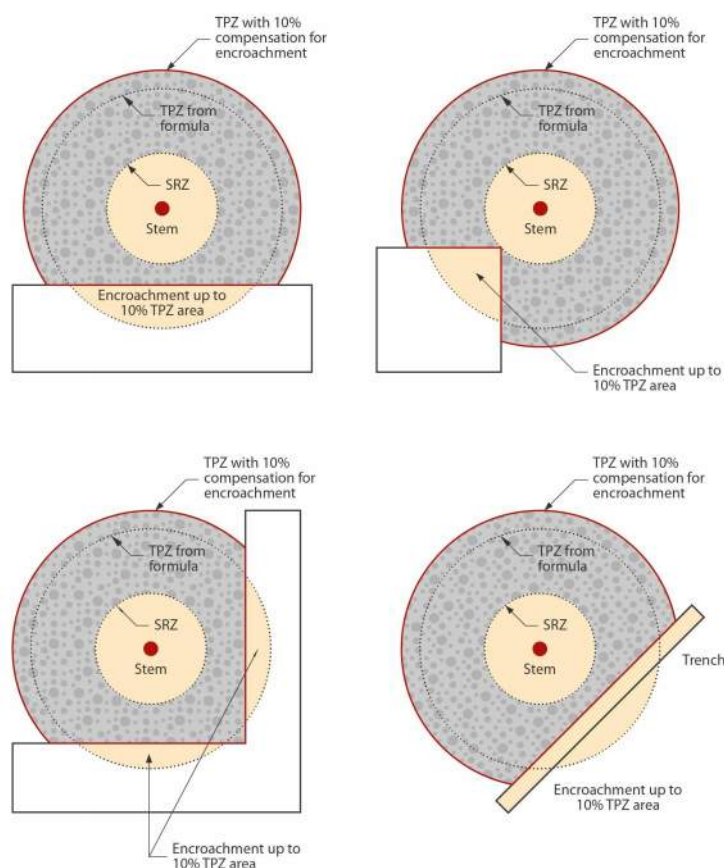


Figure 14: Example of permissible encroachment into the TPZ. (Standards Australia, 2009)

Where the encroachment is to be greater than 10% of the TPZ and prior to any mechanical excavations for building foundations, shoring, retaining wall or pavement subgrade within the TPZ of trees to be retained; exploratory excavation using non-destructive methodology shall be undertaken at the perimeter of the structure, excavation required for shoring, retaining wall or pavement subgrade within the TPZ.

Such techniques include:

- Excavation by hand
- Excavation using a high-pressure water jet and vacuum truck
- Excavation using an Air Spade with a vacuum truck.

The non-destructive excavation shall be undertaken at the outer limits of the structure to the depth of the foundation or excavation, or to a maximum of 800mm below existing surface levels. All care must be taken to prevent the damage or severance of roots greater than 50mm in diameter. Any roots encountered that are less than 50mm in diameter may be cleanly severed with a sharp pruning implement at the interface of the excavation nearest the tree. The exposed root zone is to be kept moist by way of geotextile or hessian placed along the open interface of the excavation nearest the tree.

Where roots greater than 50mm in diameter are encountered during exploratory excavation, advice from the Project Arborist shall be sought.

8.2. Tree Damage

Care is to be taken when operating cranes, piling rigs or similar near trees to avoid damage to tree canopies. Under no circumstances are branches to be torn off by construction equipment.

9. Arboricultural Method Statement – Post-construction

9.1. Defects Liability Period

Completion of outstanding building or landscaping works following the construction period must not injure trees.

9.2. Final Certification

The final inspection by the Project arborist should detail the health and condition of the trees and their growing environment and provide recommendations for any necessary remedial actions. These actions may include pruning in accordance with AS4373-2007 *Pruning of amenity trees* and/or soil remediation to repair the growing environment.

On project completion, the project arborist shall certify in writing to the Certifying Authority that the conditions of consent relating to tree protection, tree removal, pruning and planting of new trees have been complied with or, if the conditions have been contravened, detail the extent and nature of the departure from the conditions and their impacts on trees.

10. References

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11. Appendix A - IACA Significance of a Tree, Assessment Rating System (STARS) ©

Tree Landscape Significance - Assessment Criteria

1. High Significance in landscape	2. Medium Significance in landscape	3. Low Significance in landscape
The tree is in good condition and good vigour; The tree has a form typical for the species; The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age; The tree is listed as a Heritage Item, Threatened Species or part of an Endangered ecological community or listed on Councils significant Tree Register; The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity; The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values; The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa <i>in situ</i> - tree is appropriate to the site conditions.	The tree is in fair-good condition and good or low vigour; The tree has form typical or atypical of the species; The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when viewed from the street, The tree provides a fair contribution to the visual character and amenity of the local area, The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa <i>in situ</i>.	The tree is in fair-poor condition and good or low vigour; The tree has form atypical of the species; The tree is not visible or is partly visible from surrounding properties as obstructed by other vegetation or buildings, The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area, The tree is a young specimen which may or may not have reached dimension to be protected by local Tree Preservation orders or similar protection mechanisms and can easily be replaced with a suitable specimen, The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa <i>in situ</i> - tree is inappropriate to the site conditions, The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms, The tree has a wound or defect that has potential to become structurally unsound. Environmental Pest / Noxious Weed Species The tree is an Environmental Pest Species due to its invasiveness or poisonous/ allergenic properties, The tree is a declared noxious weed by legislation. Hazardous/Irreversible Decline The tree is structurally unsound and/or unstable and is considered potentially dangerous, The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.

The tree is to have a minimum of three (3) criteria in a category to be classified in that group. Note: The assessment criteria are for individual trees only, however, can be applied to a monocultural stand in its entirety e.g. hedge.

Estimated Life Expectancy

1. Long	2. Medium	3. Short	4. Remove
Trees that appear to be retainable with an acceptable level of risk for more than 40 years. Structurally sound trees located in positions that can accommodate future growth. Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery. Trees of special significance for historical, commemorative, or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.	Trees that appear to be retainable with an acceptable level of risk for 15-40 years. Trees that may only live between 15 and 40 more years. Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals. Trees that may live for more than 40 years but would be removed during the course of normal management for safety or nuisance reasons. Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.	Trees that appear to be retainable with an acceptable level of risk for 5-15 years. Trees that may only live between 5 and 15 more years. Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals. Trees that may live for more than 15 years but would be removed during the course of normal management for safety or nuisance reasons. Storm damaged or defective trees that require substantial remedial work to make safe and are only suitable for retention in the short term.	Trees with a high level of risk that would need removing within the next 5 years. Dead trees. Trees that should be removed within the next 5 years. Dying or suppressed or declining trees through disease or inhospitable conditions. Dangerous trees through instability or recent loss of adjacent trees. Dangerous trees through structural defects, including cavities, decay, included bark, wounds, or poor form. Damaged trees that are considered unsafe to retain. Trees that could live for more than 5 years but may be removed to prevent interference with more suitable individuals or to provide space for new planting. Trees that will become dangerous after removal of trees for other reasons.

Tree Retention Value – Priority Matrix

		Landscape Significance Rating				
		1 (High)	2 (Medium)	3 (Low)	4 (Environmental Pest / Noxious Weed)	5 (Hazardous / Irreversible Decline)
Estimated Life Expectancy	Long (>40)	High - Priority for Retention	High - Priority for Retention	Medium - Consider for Retention	Low - Consider for Removal	Priority for Removal
	Medium (15-40)	High - Priority for Retention	Medium - Consider for Retention	Medium - Consider for Retention Low - Consider for Removal	Low - Consider for Removal	Priority for Removal
	Short (5-15)	Low - Consider for Removal	Low - Consider for Removal	Low - Consider for Removal	Priority for Removal	Priority for Removal
	Dead Or Hazardous (0-5)	Low - Consider for Removal	Priority for Removal	Priority for Removal	Priority for Removal	Priority for Removal

Legend for Matrix Assessment

High - Priority for Retention	These trees are considered important for retention and should be retained and protected. Design modification or re-location of buildings should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4979 <i>Protection of trees on development sites</i> . Tree-sensitive construction must be implemented, e.g. pier and beam, etc if works are to proceed within the Tree Protection Zone
Medium - Consider for Retention	These trees may be retained and protected. These are considered less critical; however, their retention should remain a priority with removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered exhausted.
Low - Consider for Removal	These trees are not important for retention, nor require special works or design modification to be implemented for their retention.
Priority for Removal	These trees are considered hazardous, or in irreversible decline, or weeds and should be removed irrespective of development.

12. Appendix B - Tree Assessment Schedule

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
1	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	10	21	2.0	12.6	1.7	3	2	Good	Poor	Mature	Short (5-15)	Epicormic shoots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (81.76%) which enters the SRZ	Y	81.76	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
2	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	25.81	30	3.1	30.1	2.0	3	2	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
3	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	13.45	26	2.0	12.6	1.9	3	2	Good	Poor	Mature	Short (5-15)	Decay, Epicormic shoots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
4	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	11	16	2.0	12.6	1.5	3	2	Good	Fair	Mature	Short (5-15)	Asymmetrical crown, Epicormic shoots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
5	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	16	20	2.0	12.6	1.7	4	3	Fair	Poor	Mature	Short (5-15)	Asymmetrical crown, Deadwood minor (<3cm diameter), Epicormic shoots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (21.32%) which enters the SRZ	Y	21.32	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
6	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	17	28	2.0	13.1	1.9	4	4	Good	Poor	Mature	Short (5-15)	Asymmetrical crown, Decay, Epicormic shoots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (76.45%) which enters the SRZ	Y	76.45	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
7	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	26	34	3.1	30.6	2.1	4	4	Good	Poor	Mature	Short (5-15)	Asymmetrical crown, Epicormic shoots, Girdling roots, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (3.92%), warehouse & driveway (63.47%) which enters the SRZ	Y	63.47	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
8	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	22	31	2.6	21.9	2.0	5	5	Good	Poor	Mature	Short (5-15)	Epicormic shoots, Lifting pavement, Poor pruning - power line clearance, Root scalping, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (42.93%) which enters the SRZ	Y	42.93	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
9	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	30.64	40	3.7	42.5	2.3	6	5	Fair	Poor	Mature	Short (5-15)	Asymmetrical crown, Deadwood minor (<3cm diameter), Epicormic shoots, Girdling roots, Lifting pavement, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (0.81%), warehouse & driveway (31.11%) which enters the SRZ	Y	31.11	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
10	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	31	40	3.7	43.5	2.3	5	4	Good	Poor	Mature	Short (5-15)	Asymmetrical crown, Constrained growing environment , Epicormic shoots, Lifting pavement, Over-extended branch(es), Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance. Root growth restricted to the north due to Telstra pit and powerline footing.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (15.37%), warehouse & driveway (81.78%) which enters the SRZ	Y	81.78	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
11	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	25	29	3.0	28.3	2.0	5	4	Good	Poor	Mature	Short (5-15)	Decay, Epicormic shoots, Lifting pavement, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
12	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	22.63	38	2.7	23.2	2.2	5	5	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Epicormic shoots, Lifting pavement, Mechanical damage, Poor pruning - power line clearance, Root damage - minor, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
13	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	27.02	32	3.2	33.0	2.1	6	5	Fair	Poor	Mature	Short (5-15)	Asymmetrical crown, Epicormic shoots, Mechanical damage, Poor pruning - power line clearance, Soil compaction, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
14	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	39	45	4.7	68.8	2.4	6	6	Good	Poor	Mature	Short (5-15)	Asymmetrical crown, Deadwood minor (<3cm diameter), Epicormic shoots, Poor pruning - power line clearance, Weak attachments	Street tree. Topped for overhead powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
15	<i>Triadica sebifera</i>	Chinese Tallow Tree	1	20	36	2.4	18.1	2.2	5	3	Good	Poor	Mature	Short (5-15)	Asymmetrical crown, Deadwood minor (<3cm diameter), Epicormic shoots, Poor pruning - power line clearance, Weak attachments	Street tree. Topped for powerline clearance.	Protected	Exotic	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Council
16	<i>Cupaniopsis anacardioides</i>	Tuckeroo	1	16.31	20	2.0	12.6	1.7	5	5	Fair	Fair	Semi-mature	Medium (15-40)	Included bark	Included unions are typical for this species.	Protected	Native	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
17	<i>Cupaniopsis anacardioides</i>	Tuckeroo	1	12.81	16	2.0	12.6	1.5	5	4	Fair	Poor	Semi-mature	Short (5-15)	Crossing/rubbing branches, included bark, Weak attachments	Multiple included junctions from the base of the tree.	Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
18	<i>Corymbia maculata</i>	Spotted Gum	1	64	78	7.7	185.3	3.0	21	9	Good	Fair	Mature	Long (>40)	Co-dominant stems, Crossing/rubbing branches, Deadwood moderate (3-10cm diameter), Deadwood over low use area	Microbat habitat box at 5m.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (16.92%), warehouse & driveway (16.24%)	N	16.92	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	Site
19	<i>Corymbia maculata</i>	Spotted Gum	1	44	53	5.3	87.6	2.5	20	6	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Resin/kino/sap flow	Microbat habitat box at 5m.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ encroachment for cut (18.48%), warehouse & driveway (17.46%)	N	18.48	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	Site
20	<i>Corymbia maculata</i>	Spotted Gum	1	51	66	6.1	117.7	2.8	20	9	Very poor	Poor	Mature	Dead Or Hazardous/Remove (0-5)	Co-dominant stems, Deadwood major (>10cm diameter), Deadwood over low use area, Dieback, Excessively thin crown density	Microbat habitat box at 5m.	Protected	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ encroachment for cut (59.5%), warehouse & driveway (58.47%) which enters the SRZ	Y	59.5	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
21	<i>Grevillea robusta</i>	Silky Oak	1	50	58	6.0	113.1	2.6	19	8	Good	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Hanger(s), Weak attachments	Large aspect ratio branches at 6m. Microbat habitat box at 5m.	Protected	Indigenous	1 (High)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
22	<i>Corymbia maculata</i>	Spotted Gum	1	65	71	7.8	191.1	2.9	22	13	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter), Deadwood over low use area, Resin/kino/sap flow	Microbat habitat box at 5m.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (56.77%), fill (0.3%), warehouse & driveway (56.26%) which enters the SRZ	Y	56.77	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
23	<i>Murroya paniculata</i>	Mock Orange	1	15	20	2.0	12.6	1.7	3	40	Good	Fair	Mature	Medium (15-40)		40m Murraya, hedge form.	Exempt	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
24	<i>Casuarina glauca</i>	Swamp Sheoak	1	25	28	3.0	28.3	1.9	14	5	Good	Fair	Mature	Short (5-15)	Constrained growing environment , Inappropriate location, included bark, Weak attachments		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
25	<i>Eucalyptus grandis</i>	Flooded Gum	1	56	73	6.7	141.9	2.9	16	13	Fair	Fair	Mature	Medium (15-40)	Constrained growing environment , Crossing/rubbing branches, Deadwood major (>10cm diameter), Weak attachments	Multiple leaders growing within close proximity at 7m.	Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
26	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	11.83	20	2.0	12.6	1.7	6	4	Good	Poor	Mature	Dead Or Hazardous/Remove (0-5)	Crossing/rubbing branches, Environmental/Declared Weed, Included bark, Weak attachments		Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
27	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	30	34	3.6	40.7	2.1	7	6	Poor	Fair	Mature	Short (5-15)	Asymmetrical crown, Deadwood major (>10cm diameter), Dieback		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
28	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	48	54	5.8	104.2	2.6	9	8	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Mistletoe	Dead mistletoe within the crown.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
29	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	50	56	6.0	113.1	2.6	10	8	Good	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter)		Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
30	<i>Platanus x acerifolia</i>	London plane	1	33.96	39	4.1	52.2	2.2	10	8	Fair	Fair	Semi-mature	Short (5-15)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Epicormic shoots, Over-extended branch(es), Suppressed	Epicormic growth abundant within the crown.	Protected	Exotic	2 (Medium)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
31	<i>Platanus x acerifolia</i>	London plane	1	48	58	5.8	104.2	2.6	15	12	Good	Fair	Mature	Medium (15-40)	Asymmetrical root plate, Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Hanger(s), Root damage - minor	Small structure to the north-east of the root plate	Protected	Exotic	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (32.55%), fill (67.45%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
32	<i>Gleditsia triacanthos</i>	Honey Locust	1	28.65	42	3.4	37.1	2.3	6	9	Fair	Fair	Mature	Medium (15-40)	Deadwood over low use area, Weak attachments		Exempt	Exotic	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
33	<i>Gleditsia triacanthos</i>	Honey Locust	1	34.89	35	4.2	55.1	2.1	6	12	Fair	Fair	Mature	Medium (15-40)	Crossing/rubbing branches, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Weak attachments		Exempt	Exotic	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (72.77%), fill (27.23%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
34	<i>Gleditsia triacanthos</i>	Honey Locust	2	49.79	53	6.0	112.1	2.5	7	10	Fair	Poor	Mature	Short (5-15)	Deadwood major (>10cm diameter), Deadwood over low use area, Included bark, Weak attachments	Includes juvenile, self-sown Gleditsia to the south.	Exempt	Exotic	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (71.18%), fill (28.82%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
35	<i>Casuarina cunninghamiana</i>	River Sheoak	1	68	83	8.2	209.2	3.1	14	9	Good	Good	Mature	Medium (15-40)	Asymmetrical root plate, Deadwood minor (<3cm diameter), Deadwood over low use area, Root damage - minor, Weak attachments	High aspect ratio branch at 6m.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
36	<i>Tristaniaopsis laurina</i>	Water Gum	1	7.68	16	2.0	12.6	1.5	3	2	Good	Fair	Juvenile	Medium (15-40)	Included bark, Weak attachments		Exempt	Native	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
37	<i>Angophora costata</i>	Smooth-barked Apple Myrtle	1	44	51	5.3	87.6	2.5	8	9	Good	Fair	Mature	Medium (15-40)	Deadwood major (>10cm diameter), Deadwood over low use area, Root damage - minor, Wound(s)	Wound between second-order union in the lower southern crown.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (53.85%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
38	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	57	70	6.8	147.0	2.8	16	11	Fair	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Epicormic shoots, Weak attachments	Acute branch attachment at 11m, east side of the crown.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (57.2%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
39	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	61	63	7.3	168.3	2.7	16	8	Fair	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Epicormic shoots, Weak attachments		Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (90.19%), fill (4.29%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
40	<i>Ulmus parvifolia</i>	Chinese Elm	1	30	48	3.6	40.7	2.4	11	7	Good	Poor	Mature	Short (5-15)	Deadwood minor (<3cm diameter), Poor pruning, Previous failure(s)	Possible failure of eastern leader. Pruned to ground level. Building within close proximity to the south-west of the root plate.	Protected	Exotic	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
41	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	117.24	107	14.1	621.8	3.4	18	15	Fair	Poor	Senescent	Short (5-15)	Co-dominant stems, Deadwood major (>10cm diameter), Deadwood over low use area, Dieback, Over-extended branch(es), Weak attachments	Declining top of the canopy. Adjacent building to the south east.	Protected	Native	1 (High)	Low - Consider for Removal	TPZ encroachment for cut (18.51%), fill (14.81%), warehouse & driveway (40.53%)	N	40.53	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
42	<i>Calodendrum capense</i>	Cape Chestnut	1	33.85	40	4.1	51.8	2.3	6	6	Good	Fair	Mature	Short (5-15)	Crack or split, Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Exotic	2 (Medium)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.		Retain - generic	TPZ Fencing	Site
43	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	16	21	2.0	12.6	1.7	8	4	Fair	Fair	Juvenile	Short (5-15)	Inappropriate location, Poor pruning - power line clearance	Tree will continue to be poorly pruned for power line clearance.	Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (26.08%) which enters the SRZ	Y	26.08	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
44	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	93.86	111	11.3	398.5	3.5	24	20	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter), Epicormic shoots, Poor pruning	Root growth to the west is likely to be suppressed by the building.	Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (2.45%), warehouse & driveway (44.21%) which enters the SRZ	Y	44.21	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
45	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	86	99	10.3	334.6	3.3	22	20	Good	Good	Mature	Medium (15-40)	Deadwood major (>10cm diameter), Previous failure(s)	Root growth to the west is likely to be suppressed by the building.	Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (34.41%), warehouse & driveway (30.9%)	N	34.41	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
46	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	52	49	6.2	122.3	2.5	18	5	Fair	Poor	Semi-mature	Short (5-15)	Cavity, Deadwood moderate (3-10cm diameter), Decay, Epicormic shoots, Poor pruning - power line clearance, Wound(s)	Lower trunk is structurally compromised by decay which limits ULE.	Protected	Indigenous	1 (High)	Low - Consider for Removal	TPZ encroachment for cut (40.33%) which enters the SRZ	Y	40.33	Major	Tree will be viable for retention if bulk earthworks are deleted from the TPZ or do not result in an encroachment >15%.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
47	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	30	35	3.6	40.7	2.1	10	6	Fair	Fair	Semi-mature	Short (5-15)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots, Suppressed	Proximity to fence limits ULE.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (47.31%) which enters the SRZ	Y	47.31	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
48	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	24	28	2.9	26.1	1.9	9	6	Good	Fair	Semi-mature	Medium (15-40)	Asymmetrical crown, Co-dominant stems, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (90.98%) which enters the SRZ	Y	90.98	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
49	<i>Gleditsia triacanthos</i>	Honey Locust	1	14	21	2.0	12.6	1.7	5	6	Good	Good	Semi-mature	Medium (15-40)	Crossing/rubbing branches		Exempt	Exotic	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (88.26%) which enters the SRZ	Y	88.26	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
50	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	66	68	7.9	197.1	2.8	19	15	Fair	Good	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter)		Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (63.21%), warehouse & driveway (6.14%) which enters the SRZ	Y	63.21	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
51	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	45	55	5.4	91.6	2.6	19	10	Fair	Poor	Semi-mature	Short (5-15)	Cavity, Deadwood moderate (3-10cm diameter), Decay, Epicormic shoots, Fungal fruiting body(s), Previous failure(s), Wound(s)	Lower trunk is affected by internal decay which limits ULE.	Protected	Indigenous	1 (High)	Low - Consider for Removal	TPZ encroachment for cut (72.14%), warehouse & driveway (1.58%) which enters the SRZ	Y	72.14	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
52	<i>Eucalyptus microcorys</i>	Tallowood	1	46.1	50	5.5	96.1	2.5	13	9	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (11.52%)	N	11.52	Major	Tree will be viable for retention if bulk earthworks are deleted from the TPZ or do not result in an encroachment >15%.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	2 Percival Road
53	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	51	61	6.1	117.7	2.7	23	12	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots, Wound(s)		Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (68.48%), warehouse & driveway (13.07%) which enters the SRZ	Y	68.48	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	Site
54	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	25	32	3.0	28.3	2.1	9	5	Good	Good	Semi-mature	Long (>40)		Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	2 Percival Road
55	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	30	36	3.6	40.7	2.2	13	6	Good	Fair	Semi-mature	Medium (15-40)	Weak attachments	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (27.13%) which enters the SRZ	Y	27.13	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
56	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	22	28	2.6	21.9	1.9	9	5	Good	Fair	Semi-mature	Medium (15-40)	Asymmetrical crown, Co-dominant stems	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	2 Percival Road
57	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	39	50	4.7	68.8	2.5	13	9	Poor	Poor	Mature	Short (5-15)	Cankers, Crossing/rubbing branches, Deadwood moderate (3-10cm diameter), Decay, Dieback, Epicormic shoots, Wound(s)	Tree possesses an abundance of cancerous lesions throughout the main structural framework. Possible inhabited cavity in trunk at 5m.	Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (73.26%), warehouse & driveway (24.83%) which enters the SRZ	Y	73.26	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
58	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	66	77	7.9	197.1	3.0	25	15	Good	Good	Mature	Medium (15-40)	Damaging kerb edge, Deadwood moderate (3-10cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	TP2 encroachment for cut (63.87%), warehouse & driveway (34.37%) which enters the SRZ	Y	63.87	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
59	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	20.15	30	2.4	18.4	2.0	6	6	Good	Good	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed, Self-sown and inappropriately located	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for cut (61.1%) which enters the SRZ	Y	61.1	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
60	<i>Leptospermum petersonii</i>	Lemon-scented Tea Tree	1	27.02	33	3.2	33.0	2.1	4	4	Poor	Poor	Senescent	Dead Or Hazardous/Remove (0-5)	Co-dominant stems, Crossing/rubbing branches, Deadwood moderate (3-10cm diameter), Dieback, Excessively thin crown density, Included bark, Previous failure(s), Weak attachments, Wound(s)		Protected	Native	3 (Low)	Priority for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
61	<i>Murraya paniculata</i>	Mock Orange	3	15	20	2.0	12.6	1.7	3	2	Good	Good	Mature	Medium (15-40)		Group of 3 trees forming a hedge.	Exempt	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
62	<i>Ligustrum sinense</i>	Small-leaf Privet	1	29.34	37	3.5	38.9	2.2	5	6	Fair	Fair	Mature	Dead Or Hazardous/Remove (0-5)	Co-dominant stems, Environmental/Declared Weed, Excessively thin crown density		Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
63	<i>Callistemon salignus</i>	White Bottlebrush	1	20	31	2.4	18.1	2.0	7	4	Good	Fair	Mature	Short (5-15)	Co-dominant stems, Included bark		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
64	<i>Callistemon salignus</i>	White Bottlebrush	1	23	81	2.8	23.9	3.0	5	4	Fair	Poor	Senescent	Dead Or Hazardous/Remove (0-5)	Co-dominant stems, Decay, Previous failure(s), Weak attachments, Wound(s)	Larger stems have collapsed due to decay. Remaining structure is poor.	Protected	Native	3 (Low)	Priority for Removal	TP2 encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
65	<i>Pyrus calleryana</i>	Callery Pear	1	22	24	2.6	21.9	1.8	6	7	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Crossing/rubbing branches, Included bark		Protected	Exotic	2 (Medium)	Low - Consider for Removal	TP2 encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
66	<i>Pyrus calleryana</i>	Callery Pear	1	50.68	79	6.1	116.2	3.0	6	7	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Crossing/rubbing branches, Growing from cut stump		Protected	Exotic	3 (Low)	Low - Consider for Removal	TP2 encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
67	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	11	40	2.0	12.6	2.3	5	5	Good	Fair	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed, Self-sown and inappropriately located	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for cut (62.9%) which enters the SRZ	Y	62.9	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
68	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	20	50	2.4	18.1	2.5	4	7	Good	Good	Mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	2 Percival Road
69	<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	1	17.03	21	2.0	13.1	1.7	5	4	Fair	Fair	Juvenile	Short (5-15)	Co-dominant stems, Deadwood minor (<3cm diameter), Dieback, Included bark		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (24.28%), fill (75.72%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
70	<i>Olea europaea subsp. cuspidata</i>	African Olive	6	20	50	2.4	18.1	2.5	4	7	Good	Good	Mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 6 trees.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for cut (73.71%) which enters the SRZ	Y	73.71	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
71	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	50	60	6.0	113.1	2.7	15	9	Good	Fair	Mature	Medium (15-40)	Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	1 (High)	High - Priority for Retention	TP2 encroachment for cut (50.05%), warehouse & driveway (6.81%) which enters the SRZ	Y	50.05	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
72	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	40	50	4.8	72.4	2.5	9	8	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Included bark	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	1 (High)	High - Priority for Retention	TP2 encroachment for cut (35.17%) which enters the SRZ	Y	35.17	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
73	<i>Olea europaea subsp. cuspidata</i>	African Olive	2	10	14	2.0	12.6	1.5	4	3	Fair	Good	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 2 trees.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ encroachment for cut (41.39%) which enters the SRZ	Y	41.39	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			2 Percival Road
74	<i>Ligustrum lucidum</i>	Broadleaf Privet	1	4	6	2.0	12.6	1.5	5	3	Good	Good	Juvenile	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Group of two trees on property boundary.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ encroachment for cut (93.07%) which enters the SRZ	Y	93.07	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
75	<i>Casuarina glauca</i>	Swamp Sheoak	3	9	16	2.0	12.6	1.5	6	2	Good	Fair	Juvenile	Short (5-15)	Self-sown and inappropriately located	Group of 3 trees growing against Armco rail.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (20.67%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
76	<i>Eucalyptus crebra</i>	Narrow-leaved Ironbark	1	40	50	4.8	72.4	2.5	16	8	Fair	Good	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Dieback	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (15.88%)	N	15.88	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	2 Percival Road
77	<i>Casuarina glauca</i>	Swamp Sheoak	1	29	35	3.5	38.0	2.1	18	8	Good	Good	Mature	Long (>40)			Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ encroachment for cut (74.94%), fill (25.06%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
78	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	48	82	5.8	104.2	3.0	10	7	Good	Fair	Mature	Long (>40)	Co-dominant stems, Inappropriate location, Root scalping		Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (6.15%), fill (93.85%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
79	<i>Casuarina cunninghamiana</i>	River Sheoak	1	94.5	104	11.3	404.0	3.4	15	14	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter), Included bark	Root growth to the east is likely to be suppressed by road and drain.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (11.92%), fill (68.71%), warehouse & driveway (77.31%) which enters the SRZ	Y	77.31	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
80	<i>Casuarina cunninghamiana</i>	River Sheoak	1	60	81	7.2	162.9	3.0	23	10	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Previous failure(s)	Root growth to the east is likely to be suppressed by road and drain.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (8.23%), fill (85.17%), warehouse & driveway (83.63%) which enters the SRZ	Y	85.17	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
81	<i>Casuarina cunninghamiana</i>	River Sheoak	1	52	60	6.2	122.3	2.7	14	11	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter)	Root growth to the east is likely to be suppressed by road and drain.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (10.65%), fill (78.09%), warehouse & driveway (76.93%) which enters the SRZ	Y	78.09	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
82	<i>Casuarina cunninghamiana</i>	River Sheoak	1	57	68	6.8	147.0	2.8	17	10	Fair	Good	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Dieback, Wound(s)	Root growth to the east is likely to be suppressed by road and drain.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (7.58%), fill (88.86%), warehouse & driveway (88.55%) which enters the SRZ	Y	88.86	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
83	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	23	29	2.8	23.9	2.0	18	9	Good	Good	Semi-mature	Long (>40)		Root growth to the east is likely to be suppressed by road and drain.	Protected	Native	2 (Medium)	High - Priority for Retention	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
84	<i>Eucalyptus sp.</i>	Eucalypt	1	26	66	3.1	30.6	2.8	10	4	Good	Has failed	Semi-mature	Dead Or Hazardous/Remove (0-5)	Epicormic shoots, Previous failure(s), Weak attachments, Wound(s)	Upper crown has previously failed. Remaining regrowth is poorly attached.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ encroachment for cut (4.47%), fill (95.53%), warehouse & driveway (96.44%) which enters the SRZ	Y	96.44	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
85	<i>Eucalyptus moluccana</i>	Grey Box	1	26	34	3.1	30.6	2.1	17	10	Good	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Previous failure(s), Significant fault - bark inclusion(s), Weak attachments, Wound(s)	Tree has genetic predisposition to form unions with included bark. Root growth to the east and north is likely to be suppressed by road and drain.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (12.18%), fill (87.82%), warehouse & driveway (87.06%) which enters the SRZ	Y	87.82	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
86	<i>Casuarina glauca</i>	Swamp Sheoak	1	52	63	6.2	122.3	2.7	12	6	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Poor pruning, Weak attachments, Wound(s)	Tree has been previously lopped at 6m. Resultant regrowth is poorly attached.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
87	<i>Casuarina cunninghamiana</i>	River Sheoak	1	54	70	6.5	131.9	2.8	16	7	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Poor pruning, Weak attachments, Wound(s)	Tree has been previously lopped at 6m. Resultant regrowth is poorly attached.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
88	<i>Casuarina cunninghamiana</i>	River Sheoak	1	59	71	7.1	157.5	2.9	9	6	Good	Poor	Mature	Short (5-15)	Co-dominant stems, Poor pruning, Weak attachments, Wound(s)	Tree has been previously lopped at 5m. Resultant regrowth is poorly attached.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
89	<i>Dead tree</i>	Dead tree	1	35	45	4.2	55.4	2.4	4	1	Dead	Poor	Mature	Dead Or Hazardous/Remove (0-5)	Significant fault - standing dead tree		Protected	Dead or other	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
90	<i>Casuarina glauca</i>	Swamp Sheoak	3	17.89	28	2.1	14.5	1.9	10	3	Good	Poor	Semi-mature	Dead Or Hazardous/Remove (0-5)	Co-dominant stems, Poor pruning, Previous failure(s), Self-sown and inappropriately located	Group of 3 poorly formed trees growing within driveway.	Protected	Indigenous	3 (Low)	Priority for Removal	TPZ encroachment for cut (36.74%), fill (59.6%), warehouse & driveway (68.06%) which enters the SRZ	Y	68.06	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
91	<i>Acacia decurrens</i>	Black Wattle	1	11.31	23	2.0	12.6	1.8	5	3	Good	Fair	Semi-mature	Short (5-15)	Weak attachments		Exempt	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
92	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	56.59	64	6.8	144.9	2.7	13	10	Fair	Poor	Mature	Medium (15-40)	Cankers, Climbing vine, Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Resin/kino/sap flow, Vine growth, Weak attachments		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
93	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	41	52	4.9	76.0	2.5	12	8	Fair	Poor	Mature	Short (5-15)	Deadwood over low use area, Hanger(s), Previous failure(s), Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
94	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	63.13	77	7.6	180.3	3.0	14	9	Fair	Has failed	Mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood major (>10cm diameter), Deadwood over low use area, Decay, Included bark, Previous failure(s), Significant fault - cracked/split branches , Weak attachments	First order Junction at ground level has failed.	Protected	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (94.03%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.				Site
95	<i>Eucalyptus punctata</i>	Grey Gum	1	19.42	33	2.3	17.1	2.1	8	4	Good	Poor	Juvenile	Medium (15-40)	Co-dominant stems, Included bark, Weak attachments		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (60.87%), warehouse & driveway (11.18%) which enters the SRZ	Y	60.87	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing	Site
96	<i>Eucalyptus moluccana</i>	Grey Box	1	9	11	2.0	12.6	1.5	7	1	Good	Good	Juvenile	Medium (15-40)			Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (11.15%) which enters the SRZ	Y	11.15	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
97	<i>Eucalyptus moluccana</i>	Grey Box	1	11	15	2.0	12.6	1.5	7	1	Good	Fair	Juvenile	Medium (15-40)	Wound(s)		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	23 Britton St
98	<i>Eucalyptus punctata</i>	Grey Gum	1	12	15	2.0	12.6	1.5	6	3	Good	Fair	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Inappropriate location	Located on the neighbouring property. Using the boundary fence for support.	Protected	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.			TPZ Fencing	23 Britton St
99	<i>Eucalyptus moluccana</i>	Grey Box	1	17.03	21	2.0	13.1	1.7	8	4	Good	Fair	Juvenile	Medium (15-40)	Co-dominant stems		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
100	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	16	20	2.0	12.6	1.7	5	2	Fair	Has failed	Semi-mature	Short (5-15)	Asymmetrical crown, Epicormic shoots, Poor pruning - power line clearance, Weak attachments	The dominant leader has been pruned for powerlines	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (54.95%) which enters the SRZ	Y	54.95	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
101	<i>Eucalyptus moluccana</i>	Grey Box	1	15	28	2.0	12.6	1.9	9	3	Good	Poor	Semi-mature	Short (5-15)	Asymmetrical crown, Broken Limb, Included bark, Poor pruning - power line clearance		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (89.08%) which enters the SRZ	Y	89.08	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
102	<i>Eucalyptus moluccana</i>	Grey Box	1	20	33	2.4	18.1	2.1	11	5	Good	Fair	Semi-mature	Medium (15-40)	Crossing/rubbing branches, Weak attachments		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for warehouse & driveway (72.29%) which enters the SRZ	Y	72.29	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
103	<i>Eucalyptus moluccana</i>	Grey Box	1	6	9	2.0	12.6	1.5	5	1	Fair	Good	Juvenile	Short (5-15)	Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (93.99%) which enters the SRZ	Y	93.99	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
104	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	12.69	18	2.0	12.6	1.6	5	4	Fair	Poor	Semi-mature	Short (5-15)	Epicormic shoots, Group of self-sown suckers, Weak attachments	Epicormic regrowth from previous dead leader.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (79.78%) which enters the SRZ	Y	79.78	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
105	<i>Eucalyptus moluccana</i>	Grey Box	1	12	15	2.0	12.6	1.5	7	2	Good	Good	Semi-mature	Short (5-15)			Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (76.69%) which enters the SRZ	Y	76.69	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
106	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	21.21	23	2.5	20.4	1.8	10	3	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Poor pruning		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (4.66%), warehouse & driveway (92.2%) which enters the SRZ	Y	92.2	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
107	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	14	22	2.0	12.6	1.8	10	2	Good	Fair	Semi-mature	Short (5-15)	Included bark, Weak attachments		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (89.07%) which enters the SRZ	Y	89.07	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Council
108	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	17	22	2.0	13.1	1.8	9	4	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Previous failure(s), Weak attachments	Poor aspect ratio on bifurcation at 2m	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (1.73%), warehouse & driveway (99.75%) which enters the SRZ	Y	99.75	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Council
109	<i>Casuarina cunninghamiana</i>	River Sheoak	1	27	36	3.2	33.0	2.2	12	3	Poor	Fair	Mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Dieback, Poor pruning		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (83.79%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site
110	<i>Casuarina cunninghamiana</i>	River Sheoak	1	35	41	4.2	55.4	2.3	14	4	Good	Good	Semi-mature	Long (>40)	Poor pruning		Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.				Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
111	<i>Casuarina cunninghamiana</i>	River Sheoak	1	41	57	4.9	76.0	2.6	13	8	Good	Fair	Mature	Medium (15-40)	Asymmetrical crown, Co-dominant stems, Damaging infrastructure, Damaging kerb edge, Weak attachments	Adjacent road, damaging roadway infrastructure.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (78.98%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
112	<i>Casuarina cunninghamiana</i>	River Sheoak	1	31	41	3.7	43.5	2.3	10	5	Good	Fair	Mature	Long (>40)	Co-dominant stems		Protected	Indigenous	2 (Medium)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
113	<i>Casuarina cunninghamiana</i>	River Sheoak	1	28	35	3.4	35.5	2.1	10	6	Good	Fair	Mature	Medium (15-40)	Poor pruning, Recent change - crown architecture	Major uplift of the lower crown.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
114	<i>Eucalyptus microcorys</i>	Tallowood	1	43	55	5.2	83.6	2.6	14	8	Good	Fair	Mature	Medium (15-40)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Native	1 (High)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
115	<i>Eucalyptus microcorys</i>	Tallowood	1	45	57	5.4	91.6	2.6	15	6	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Poor pruning		Protected	Native	1 (High)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
116	<i>Eucalyptus microcorys</i>	Tallowood	1	60	83	7.2	162.9	3.1	15	8	Good	Fair	Mature	Medium (15-40)	Deadwood minor (<3cm diameter), Poor pruning		Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (12.88%), warehouse & driveway (17.18%)	N	17.18	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	Site
117	<i>Eucalyptus microcorys</i>	Tallowood	1	68	80	8.2	209.2	3.0	21	9	Poor	Poor	Mature	Short (5-15)	Co-dominant stems, Deadwood major (>10cm diameter), Deadwood over low use area, Dieback, Included bark	Western leader is declining.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (1.23%)	N	1.23	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
118	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	10	16	2.0	12.6	1.5	4	5	Good	Fair	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed		Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Remove - irrespective			Site
119	<i>Eucalyptus microcorys</i>	Tallowood	1	66	87	7.9	197.1	3.1	17	11	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
120	<i>Eucalyptus microcorys</i>	Tallowood	1	97	120	11.6	425.7	3.6	23	13	Good	Poor	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Included bark, Weak attachments		Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (22.82%), warehouse & driveway (28.63%)	N	28.63	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
121	<i>Eucalyptus microcorys</i>	Tallowood	1	67	98	8.0	203.1	3.3	19	11	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Weak attachments	Multiple branch attachments in close proximity.	Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (5.48%), warehouse & driveway (3.89%)	N	5.48	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
122	<i>Eucalyptus microcorys</i>	Tallowood	1	40	48	4.8	72.4	2.4	15	6	Fair	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Epicormic shoots, Suppressed		Protected	Native	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (7.79%), warehouse & driveway (3.94%)	N	7.79	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
123	<i>Callistemon salignus</i>	White Bottlebrush	1	7.68	12	2.0	12.6	1.5	5	3	Good	Fair	Semi-mature	Medium (15-40)	Included bark		Protected	Native	3 (Low)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
124	<i>Eucalyptus microcorys</i>	Tallowood	1	52	63	6.2	122.3	2.7	18	5	Fair	Poor	Mature	Short (5-15)	Epicormic shoots, Included bark		Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (47.99%), warehouse & driveway (42.99%) which enters the SRZ	Y	47.99	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
125	<i>Eucalyptus microcorys</i>	Tallowood	1	56	72	6.7	141.9	2.9	17	11	Good	Fair	Mature	Long (>40)	Co-dominant stems, Deadwood minor (<3cm diameter)		Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (22.93%), warehouse & driveway (18.56%)	N	22.93	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	Site
126	<i>Eucalyptus microcorys</i>	Tallowood	1	26	44	3.1	30.6	2.3	16	7	Good	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Hanger(s), Weak attachments		Protected	Native	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
127	<i>Eucalyptus microcorys</i>	Tallowood	1	66	91	7.9	197.1	3.2	19	10	Good	Fair	Mature	Long (>40)	Included bark, Weak attachments		Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (16.89%), warehouse & driveway (13.22%)	N	16.89	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing	Site
128	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	45	63	5.4	91.6	2.7	19	10	Fair	Good	Mature	Long (>40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Resin/kino/sap flow		Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (31.65%), warehouse & driveway (24.85%) which enters the SRZ	Y	31.65	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
129	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	36	48	4.3	58.6	2.4	13	8	Fair	Good	Semi-mature	Long (>40)			Protected	Native	2 (Medium)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
130	<i>Eucalyptus nicholii</i>	Narrow Leaved Peppermint	1	32	38	3.8	46.3	2.2	6	5	Poor	Poor	Mature	Dead Or Hazardous/Rem ove (0-5)	Cavity, Deadwood major (>10cm diameter), Decay, Dieback, Previous failure(s)	This tree is in irreversible decline.	Protected	Native	5 (Hazardous / Irreversible Decline)	Priority for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Remove - irrespective			Site
131	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	43	64	5.2	83.6	2.7	16	8	Fair	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Resin/kino/sap flow, Soil compaction		Protected	Native	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (23.14%), warehouse & driveway (16.18%) which enters the SRZ	Y	23.14	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
132	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	25	31	3.0	28.3	2.0	17	4	Good	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Soil compaction		Protected	Native	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
133	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	43	55	5.2	83.6	2.6	14	7	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Soil compaction		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (0.93%)	N	0.93	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
134	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	14	22	2.0	12.6	1.8	15	1	Very poor	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Deadwood major (>10cm diameter), Dieback, Soil compaction	The crown has died back to 7m.	Protected	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Remove - irrespective			Site
135	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	23	25	2.8	23.9	1.8	13	4	Poor	Fair	Semi-mature	Short (5-15)	Asymmetrical crown, Epicormic shoots, Previous failure(s), Soil compaction		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (7.23%)	N	7.23	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
136	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	44	65	5.3	87.6	2.8	18	10	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Soil compaction		Protected	Native	1 (High)	High - Priority for Retention	TP2 encroachment for cut (46.99%), warehouse & driveway (18.37%) which enters the SRZ	Y	46.99	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
137	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	50	60	6.0	113.1	2.7	16	9	Fair	Poor	Mature	Short (5-15)	Cankers, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark, Soil compaction, Weak attachments		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (58.32%), warehouse & driveway (19.41%) which enters the SRZ	Y	58.32	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
138	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	36	38	4.3	58.6	2.2	12	8	Fair	Fair	Semi-mature	Short (5-15)	Asymmetrical crown, Cankers, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Soil compaction		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (62.81%) which enters the SRZ	Y	62.81	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
139	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	1	36	53	4.3	58.6	2.5	12	11	Good	Fair	Mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Suppressed		Protected	Native	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (30.74%) which enters the SRZ	Y	30.74	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
140	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	14.8	20	2.0	12.6	1.7	7	3	Fair	Poor	Semi-mature	Short (5-15)	Dieback, Epicormic shoots, Suckers		Protected	Indigenous	3 (Low)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
141	<i>Casuarina cunninghamiana</i>	River Sheoak	1	41	51	4.9	76.0	2.5	12	6	Good	Good	Mature	Long (>40)	Deadwood major (>10cm diameter), Deadwood over low use area		Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (6.78%)	N	6.78	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
142	<i>Casuarina cunninghamiana</i>	River Sheoak	1	23	40	2.8	23.9	2.3	8	2	Fair	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Dieback		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
143	<i>Casuarina cunninghamiana</i>	River Sheoak	1	34	50	4.1	52.3	2.5	12	2	Fair	Good	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
144	<i>Casuarina cunninghamiana</i>	River Sheoak	1	46.52	58	5.6	97.9	2.6	14	7	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Weak attachments	Compression junction at 1m.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
145	<i>Casuarina cunninghamiana</i>	River Sheoak	1	25	35	3.0	28.3	2.1	12	5	Fair	Fair	Mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Previous failure(s)	Previous branch failures at 8m.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
146	<i>Casuarina cunninghamiana</i>	River Sheoak	1	50	60	6.0	113.1	2.7	16	8	Good	Poor	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark, Previous failure(s), Weak attachments	Multiple branch attachments at 7m.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	No direct encroachment	N	0	Nil	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TP2 Fencing	Site
147	<i>Casuarina cunninghamiana</i>	River Sheoak	1	59	85	7.1	157.5	3.1	12	10	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Weak attachments	Compression fork at 5m.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (22.52%), fill (0.14%), warehouse & driveway (12.3%)	N	22.52	Major	Tree is in good health and will tolerate some root impacts. Provided plant health care is employed to offset root loss and tree protection measures are installed and maintained, this tree will be viable for retention.	Retain - generic plus	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TP2 Fencing	Site
148	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	29.7	32	3.6	39.9	2.1	11	4	Good	Poor	Semi-mature	Short (5-15)	Epicormic shoots, Growing from cut stump, Weak attachments	Two endocormic branches growing from tree stump at 1m.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (41.84%), fill (10.63%), warehouse & driveway (39.51%) which enters the SRZ	Y	41.84	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
149	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	4	10	2.0	12.6	1.5	3	3	Good	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Epicormic shoots, Growing from cut stump	Epicormic shoots growing from previously removed tree.	Exempt	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	TP2 encroachment for cut (8.18%), fill (91.82%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
150	<i>Casuarina cunninghamian a</i>	River Sheoak	1	47	65	5.6	99.9	2.8	13	6	Good	Poor	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Previous failure(s)		Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (58.74%), warehouse & driveway (75.3%) which enters the SRZ	Y	75.3	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
151	<i>Casuarina cunninghamian a</i>	River Sheoak	1	42	54	5.0	79.8	2.6	14	7	Poor	Good	Mature	Short (5-15)	Damaging infrastructure, Damaging kerb edge, Deadwood moderate (3-10cm diameter), Dieback, Excessively thin crown density	Discernible thinning of the lower crown	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (95.9%), warehouse & driveway (81.83%) which enters the SRZ	Y	95.9	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
152	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	10	14	2.0	12.6	1.5	4	3	Very poor	Fair	Juvenile	Dead Or Hazardous/Rem ove (0-5)	Epicormic shoots, Excessively thin crown density, Suppressed, Wound(s)		Protected	Indigenous	3 (Low)	Priority for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
153	<i>Eucalyptus microcorys</i>	Tallowood	1	46	49	5.5	95.7	2.5	13	12	Fair	Poor	Mature	Short (5-15)	Crossing/rubbing branches, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Epicormic shoots, Weak attachments	Mature endocormic growth at 3m.	Protected	Native	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (93.99%), fill (6.01%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
154	<i>Eucalyptus microcorys</i>	Tallowood	1	43	53	5.2	83.6	2.5	13	7	Good	Good	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark	Included branch junction at 6m.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (78.77%), warehouse & driveway (79.12%) which enters the SRZ	Y	79.12	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
155	Dead tree	Dead tree	1	26	28	3.1	30.6	1.9	10	3	Dead	Poor	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Significant fault - standing dead tree		Protected	Dead or other	5 (Hazardous / Irreversible Decline)	Priority for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
156	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	30	36	3.6	40.7	2.2	12	5	Good	Fair	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter)		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
157	<i>Eucalyptus microcorys</i>	Tallowood	1	43.84	48	5.3	86.9	2.4	12	9	Fair	Fair	Mature	Medium (15-40)	Asymmetrical crown, Broken Limb, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Previous failure(s), Suppressed, Weak attachments	Compression fork at 1.5m	Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (82.71%), warehouse & driveway (85.31%) which enters the SRZ	Y	85.31	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
158	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	20	21	2.4	18.1	1.7	11	2	Poor	Fair	Semi-mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
159	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	19	24	2.3	16.3	1.8	10	1	Poor	Fair	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Epicormic shoots, Weak attachments	Epicormic shoots abundant on trunk. Suppression from the overhead canopy will restrict this tree from reaching its full potential.	Protected	Indigenous	5 (Hazardous / Irreversible Decline)	Priority for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
160	<i>Eucalyptus microcorys</i>	Tallowood	1	62	75	7.4	173.9	2.9	14	11	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Hanger(s), Included bark, Previous failure(s)	Included branch Junction at 5m. Deadwood hanger in the lower western crown over low use area.	Protected	Native	1 (High)	High - Priority for Retention	TP2 encroachment for cut (72.72%), warehouse & driveway (83.58%) which enters the SRZ	Y	83.58	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
161	<i>Eucalyptus microcorys</i>	Tallowood	1	27	33	3.2	33.0	2.1	12	7	Good	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
162	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	17	19	2.0	13.1	1.6	6	2	Fair	Good	Semi-mature	Short (5-15)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Suppressed	Suppression from the overhead canopy will restrict this tree from reaching its full potential.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
163	<i>Eucalyptus microcorys</i>	Tallowood	1	35	38	4.2	55.4	2.2	12	7	Good	Poor	Semi-mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark	Multiple included branch junctions within the crown	Protected	Native	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (77.25%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
164	<i>Eucalyptus microcorys</i>	Tallowood	1	37	50	4.4	61.9	2.5	15	5	Good	Good	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (95.08%), warehouse & driveway (49.54%) which enters the SRZ	Y	95.08	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
165	<i>Eucalyptus microcorys</i>	Tallowood	1	52	58	6.2	122.3	2.6	13	8	Good	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Weak attachments	Multiple branch attachments with close proximity.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (80.03%), fill (0.09%), warehouse & driveway (45.03%) which enters the SRZ	Y	80.03	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
166	<i>Eucalyptus microcorys</i>	Tallowood	1	59	70	7.1	157.5	2.8	15	9	Good	Fair	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark, Weak attachments	Included first-order branch junction at 3m.	Protected	Native	1 (High)	High - Priority for Retention	TPZ encroachment for cut (65.53%), warehouse & driveway (33.5%) which enters the SRZ	Y	65.53	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
167	<i>Eucalyptus microcorys</i>	Tallowood	1	54	61	6.5	131.9	2.7	9	4	Good	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (32.51%), fill (67.49%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
168	<i>Eucalyptus microcorys</i>	Tallowood	1	31	39	3.7	43.5	2.2	10	8	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood minor (<3cm diameter), Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
169	<i>Eucalyptus microcorys</i>	Tallowood	1	29	35	3.5	38.0	2.1	10	7	Fair	Fair	Mature	Short (5-15)	Constrained growing environment , Deadwood minor (<3cm diameter), Dieback, Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
170	<i>Eucalyptus microcorys</i>	Tallowood	1	42.95	54	5.2	83.5	2.6	7	4	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for fill (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
171	<i>Eucalyptus microcorys</i>	Tallowood	1	46	54	5.5	95.7	2.6	13	9	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots, Galls	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (17.54%), fill (82.46%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
172	<i>Eucalyptus microcorys</i>	Tallowood	1	35	40	4.2	55.4	2.3	11	5	Fair	Fair	Mature	Short (5-15)	Asymmetrical crown, Constrained growing environment , Deadwood minor (<3cm diameter), Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
173	<i>Eucalyptus microcorys</i>	Tallowood	1	29	36	3.5	38.0	2.2	12	7	Fair	Good	Mature	Short (5-15)	Constrained growing environment , Deadwood moderate (3-10cm diameter), Dieback, Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
174	<i>Eucalyptus microcorys</i>	Tallowood	1	38	42	4.6	65.3	2.3	12	9	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood moderate (3-10cm diameter), Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
175	<i>Eucalyptus microcorys</i>	Tallowood	1	33	39	4.0	49.3	2.2	10	8	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood moderate (3-10cm diameter), Epicormic shoots	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
176	<i>Eucalyptus microcorys</i>	Tallowood	1	20	23	2.4	18.1	1.8	3	1	Dead	Poor	Juvenile	Dead Or Hazardous/Remove (0-5)	Significant fault - standing dead tree		Exempt	Dead or other	5 (Hazardous / Irreversible Decline)	Priority for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
177	<i>Eucalyptus microcorys</i>	Tallowood	1	33	35	4.0	49.3	2.1	10	8	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Constrained growing environment , Deadwood moderate (3-10cm diameter), Epicormic shoots, Included bark	Trees position within constrained growing environment limits ULE.	Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
178	<i>Casuarina glauca</i>	Swamp Sheoak	5	11	13	2.0	12.6	1.5	6	2	Good	Fair	Juvenile	Short (5-15)	Co-dominant stems, Group of self-sown suckers	Group includes Casuarina in garden bed along southern boundary.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (9.88%), fill (39.36%), warehouse & driveway (72.34%) which enters the SRZ	Y	72.34	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
179	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	1	27	39	3.2	33.0	2.2	9	8	Good	Good	Semi-mature	Short (5-15)	Resin/kino/sap flow, Wood borer, Wound(s)		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (34.2%), warehouse & driveway (80.6%) which enters the SRZ	Y	80.6	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
180	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	1	14	19	2.0	12.6	1.6	7	5	Good	Fair	Juvenile	Short (5-15)	Co-dominant stems, Deadwood minor (<3cm diameter)		Protected	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (95.1%) which enters the SRZ	Y	95.1	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
181	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	7	10	2.0	12.6	1.5	4	2	Fair	Fair	Young	Short (5-15)	Asymmetrical crown, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (93.71%) which enters the SRZ	Y	93.71	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
182	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	22	27	2.6	21.9	1.9	8	4	Good	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Suppressed	Crown is heavily skewed to west.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for warehouse & driveway (57.61%) which enters the SRZ	Y	57.61	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
183	<i>Casuarina glauca</i>	Swamp Sheoak	10	20	25	2.4	18.1	1.8	15	8	Good	Fair	Mature	Medium (15-40)	Previous failure(s)	Located in adjoining property. Location and diameter estimated. All trees are located in adjoining property. Location and diameters estimated. Tag on fence. Group of 10 trees.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for warehouse & driveway (1.38%)	N	1.38	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	2 Percival Road
184	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	24	28	2.9	26.1	1.9	8	4	Good	Good	Semi-mature	Long (>40)			Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (0.28%), warehouse & driveway (1.98%)	N	1.98	Minor	No significant impact expected provided tree protection measures are installed and maintained during construction.	Retain - generic		TPZ Fencing	Site
185	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	2	19	20	2.3	16.3	1.7	7	3	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed	Includes small Eucalyptus to the north	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (13.87%) which enters the SRZ	Y	13.87	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
186	<i>Olea europaea subsp. cuspidata</i>	African Olive	18	15	20	2.0	12.6	1.7	6	4	Good	Good	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence. Includes 19 trees	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ encroachment for cut (1.19%)	N	1.19	Minor	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
187	<i>Eucalyptus moluccana</i>	Grey Box	5	14	17	2.0	12.6	1.6	8	2	Good	Good	Juvenile	Medium (15-40)	Co-dominant stems	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence. Includes 5 trees	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (9.94%) which enters the SRZ	Y	9.94	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
188	<i>Eucalyptus moluccana</i>	Grey Box	1	99	120	11.9	443.4	3.6	25	17	Fair	Fair	Mature	Medium (15-40)	Deadwood major (>10cm diameter), Dieback, Epicormic shoots, Mistletoe, Previous failure(s), Wound(s)	Large and significant locally indigenous species.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (46.67%), warehouse & driveway (12.07%) which enters the SRZ	Y	46.67	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
189	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	8	11	2.0	12.6	1.5	4	1	Good	Fair	Young	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (71.6%) which enters the SRZ	Y	71.6	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
190	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	8	11	2.0	12.6	1.5	4	2	Fair	Good	Young	Medium (15-40)	Asymmetrical crown, Epicormic shoots, Suppressed		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (81.93%) which enters the SRZ	Y	81.93	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
191	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	8	12	2.0	12.6	1.5	5	1	Good	Fair	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
192	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	12	19	2.0	12.6	1.6	5	2	Good	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Co-dominant stems, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (26.2%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
193	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	32	46	3.8	46.3	2.4	16	7	Fair	Good	Semi-mature	Medium (15-40)	Deadwood minor (<3cm diameter), Dieback		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (97.11%), fill (2.89%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
194	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	17	19	2.0	13.1	1.6	4	3	Good	Poor	Juvenile	Short (5-15)	Co-dominant stems, Included bark, Weak attachments		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
195	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	16	20	2.0	12.6	1.7	6	4	Fair	Good	Juvenile	Medium (15-40)	Asymmetrical crown		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
196	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	13	16	2.0	12.6	1.5	6	4	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%), warehouse & driveway (17.38%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
197	<i>Eucalyptus moluccana</i>	Grey Box	1	63	67	7.6	179.6	2.8	25	10	Fair	Good	Mature	Medium (15-40)	Deadwood major (>10cm diameter), Mistletoe	Large and significant locally indigenous species.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (54.67%), warehouse & driveway (0.18%) which enters the SRZ	Y	54.67	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
198	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	15	20	2.0	12.6	1.7	9	2	Good	Good	Juvenile	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
199	<i>Eucalyptus moluccana</i>	Grey Box	1	60	77	7.2	162.9	3.0	25	10	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood major (>10cm diameter), Dieback, Epicormic shoots, Mistletoe	Large and significant locally indigenous species.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (55.04%) which enters the SRZ	Y	55.04	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
200	<i>Eucalyptus microcorys</i>	Tallowood	1	34	45	4.1	52.3	2.4	9	7	Fair	Fair	Mature	Short (5-15)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Dieback, Included bark		Protected	Native	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (72.55%), fill (27.45%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
201	<i>Eucalyptus microcorys</i>	Tallowood	1	17	40	2.0	13.1	2.3	4	4	Fair	Poor	Semi-mature	Dead Or Hazardous/Remove (0-5)	Growing from cut stump		Protected	Native	3 (Low)	Priority for Removal	TPZ encroachment for cut (21.66%), fill (78.34%), warehouse & driveway (91.56%) which enters the SRZ	Y	91.56	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
202	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	12	17	2.0	12.6	1.6	6	3	Fair	Good	Juvenile	Short (5-15)	Asymmetrical crown, Dieback		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
203	<i>Eucalyptus moluccana</i>	Grey Box	1	71	76	8.5	228.0	2.9	24	13	Fair	Fair	Mature	Medium (15-40)	Deadwood major (>10cm diameter), Dieback, Epicormic shoots, Hanger(s), Mistletoe	Large and significant locally indigenous species.	Protected	Indigenous	1 (High)	High - Priority for Retention	TP2 encroachment for cut (49.31%), fill (3.6%), warehouse & driveway (2.09%) which enters the SRZ	Y	49.31	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
204	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	16	20	2.0	12.6	1.7	6	3	Fair	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Dieback, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
205	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	12	18	2.0	12.6	1.6	6	2	Fair	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Co-dominant stems, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (85.12%) which enters the SRZ	Y	85.12	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
206	<i>Corymbia maculata</i>	Spotted Gum	1	20	25	2.4	18.1	1.8	8	5	Fair	Fair	Semi-mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Dieback, Suppressed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (27.04%) which enters the SRZ	Y	27.04	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
207	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	15	21	2.0	12.6	1.7	8	3	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (86.76%) which enters the SRZ	Y	86.76	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
208	<i>Corymbia maculata</i>	Spotted Gum	1	30	40	3.6	40.7	2.3	14	7	Fair	Good	Semi-mature	Short (5-15)	Co-dominant stems, Deadwood minor (<3cm diameter), Dieback, Epicormic shoots	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (33.48%) which enters the SRZ	Y	33.48	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigations using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
209	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	24	32	2.9	26.1	2.1	8	2	Good	Poor	Semi-mature	Short (5-15)	Asymmetrical crown, Co-dominant stems, Included bark, Suppressed		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (65.72%), fill (10.33%) which enters the SRZ	Y	65.72	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
210	<i>Eucalyptus moluccana</i>	Grey Box	1	15	18	2.0	12.6	1.6	8	3	Good	Good	Juvenile	Medium (15-40)		Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (41.76%) which enters the SRZ	Y	41.76	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
211	<i>Eucalyptus moluccana</i>	Grey Box	1	33.3	40	4.0	50.2	2.3	18	7	Fair	Fair	Semi-mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter)	Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (26.67%) which enters the SRZ	Y	26.67	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
212	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	16	21	2.0	12.6	1.7	8	4	Good	Good	Juvenile	Medium (15-40)			Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (85.48%) which enters the SRZ	Y	85.48	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
213	<i>Olea europaea subsp. cuspidata</i>	African Olive	6	8	23	2.0	12.6	1.8	4	4	Good	Good	Semi-mature	Dead Or Hazardous/Remove (0-5)	Environmental/Dec lared Weed	Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 6 trees.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for cut (46.79%) which enters the SRZ	Y	46.79	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
214	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	14	20	2.0	12.6	1.7	6	2	Fair	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Co-dominant stems, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (88.45%) which enters the SRZ	Y	88.45	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
215	<i>Eucalyptus moluccana</i>	Grey Box	1	92.61	110	11.1	388.0	3.4	24	18	Poor	Fair	Mature	Short (5-15)	Deadwood major (>10cm diameter), Dieback, Epicormic shoots, Mistletoe	Large and significant locally indigenous species. Tree in poor health due to significant mistletoe infestation.	Protected	Indigenous	1 (High)	Low - Consider for Removal	TP2 encroachment for cut (35.65%), fill (21.33%), warehouse & driveway (17.2%) which enters the SRZ	Y	35.65	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
216	<i>Corymbia maculata</i>	Spotted Gum	1	32	35	3.8	46.3	2.1	7	6	Fair	Fair	Semi-mature	Short (5-15)	Asymmetrical crown, Co-dominant stems, Included bark, Suppressed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (38.48%) which enters the SRZ	Y	38.48	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
217	<i>Eucalyptus sideroxylon</i>	Mugga, Red Ironbark	1	12	16	2.0	12.6	1.5	6	1	Fair	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Deadwood minor (<3cm diameter), Dieback, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (89.4%) which enters the SRZ	Y	89.4	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
218	<i>Corymbia maculata</i>	Spotted Gum	1	25	30	3.0	28.3	2.0	9	5	Good	Good	Semi-mature	Long (>40)		Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TPZ encroachment for cut (22.79%) which enters the SRZ	Y	22.79	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
219	<i>Eucalyptus moluccana</i>	Grey Box	4	35	45	4.2	55.4	2.4	20	8	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Included bark	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 4 trees on eastern side of retaining wall. Root ingress west of retaining wall is not expected. Group of 4 trees grouped as they are all constrained by the retaining wall. Dimension have been recorded based on the largest tree located in the centre of the group.	Protected	Indigenous	1 (High)	High - Priority for Retention	TPZ encroachment for cut (23.9%), fill (16.1%) which enters the SRZ	Y	23.9	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
220	<i>Olea europaea subsp. cuspidata</i>	African Olive	1	11.62	30	2.0	12.6	2.0	4	4	Good	Good	Semi-mature	Dead Or Hazardous/Rem ove (0-5)	Environmental/Dec lared Weed	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Located on eastern side of retaining wall. Root ingress west of retaining wall is not expected.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TPZ encroachment for cut (30.77%), fill (66.93%), warehouse & driveway (46.93%) which enters the SRZ	Y	66.93	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
221	<i>Eucalyptus moluccana</i>	Grey Box	4	20	26	2.4	18.1	1.9	10	6	Fair	Good	Mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Dieback	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 4 trees on eastern side of retaining wall. Root ingress west of retaining wall is not expected. Group of 4 trees grouped as they are all constrained by the retaining wall. Dimension have been recorded based on the largest tree located in the centre of the group.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (34.14%), fill (33.0%), warehouse & driveway (17.79%) which enters the SRZ	Y	34.14	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
222	<i>Corymbia maculata</i>	Spotted Gum	1	30	40	3.6	40.7	2.3	14	6	Good	Good	Semi-mature	Medium (15-40)	Previous failure(s)	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TPZ encroachment for cut (31.49%), fill (17.8%), warehouse & driveway (0.32%) which enters the SRZ	Y	31.49	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
223	<i>Corymbia maculata</i>	Spotted Gum	1	10	20	2.0	12.6	1.7	7	3	Good	Fair	Semi-mature	Short (5-15)	Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (49.25%) which enters the SRZ	Y	49.25	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
224	<i>Eucalyptus moluccana</i>	Grey Box	1	40	45	4.8	72.4	2.4	14	4	Fair	Poor	Mature	Short (5-15)	Included bark, Poor pruning, Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TPZ encroachment for cut (29.18%), fill (13.51%), warehouse & driveway (3.34%) which enters the SRZ	Y	29.18	Major	Tree will suffer destabilising root loss with the current proposed cut in the TPZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road
225	<i>Acacia decurrens</i>	Black Wattle	1	18	22	2.2	14.7	1.8	4	4	Good	Fair	Mature	Short (5-15)	Asymmetrical crown, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Suppressed	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Exempt	Native	3 (Low)	Low - Consider for Removal	TPZ encroachment for cut (51.64%) which enters the SRZ	Y	51.64	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing	2 Percival Road

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
226	<i>Eucalyptus moluccana</i>	Grey Box	1	20	30	2.4	18.1	2.0	10	5	Good	Fair	Semi-mature	Medium (15-40)	Previous failure(s), Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (64.89%) which enters the SRZ	Y	64.89	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
227	<i>Eucalyptus moluccana</i>	Grey Box	1	35	45	4.2	55.4	2.4	17	6	Good	Fair	Mature	Medium (15-40)	Deadwood minor (<3cm diameter), Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (41.27%), fill (6.96%), warehouse & driveway (1.05%) which enters the SRZ	Y	41.27	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
228	<i>Eucalyptus moluccana</i>	Grey Box	1	40	55	4.8	72.4	2.6	19	8	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Previous failure(s), Weak attachments	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	1 (High)	High - Priority for Retention	TP2 encroachment for cut (35.99%), fill (5.58%), warehouse & driveway (1.04%) which enters the SRZ	Y	35.99	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
229	<i>Casuarina glauca</i>	Swamp Sheoak	12	20	25	2.4	18.1	1.8	12	14	Good	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 12 trees.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (45.68%) which enters the SRZ	Y	45.68	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%. If an encroachment >15% is required, root investigation using non-destructive means will be required.	Retain - generic plus	Delete cut and fill from the TP2. No works are to exceed an encroachment of greater than 15% of the TP2. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TP2 Fencing	2 Percival Road
230	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	12	28	2.0	12.6	1.9	4	3	Fair	Fair	Juvenile	Short (5-15)	Co-dominant stems, Growing from cut stump		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (0.47%), fill (99.53%), warehouse & driveway (80.87%) which enters the SRZ	Y	99.53	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
231	<i>Casuarina cunninghamiana</i>	River Sheoak	1	28	36	3.4	35.5	2.2	8	5	Good	Fair	Semi-mature	Medium (15-40)	Poor pruning, Previous failure(s)		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (15.39%), fill (84.61%), warehouse & driveway (78.65%) which enters the SRZ	Y	84.61	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
232	<i>Casuarina cunninghamiana</i>	River Sheoak	1	22	30	2.6	21.9	2.0	4	1	Fair	Has failed	Semi-mature	Short (5-15)	Epicormic shoots, Poor pruning	This tree has been topped at 4m.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (10.1%), fill (89.9%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
233	<i>Casuarina cunninghamiana</i>	River Sheoak	1	31	49	3.7	43.5	2.5	13	3	Fair	Fair	Semi-mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area	Northern leader has been pruned back to the trunk.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (21.61%), fill (78.39%), warehouse & driveway (90.22%) which enters the SRZ	Y	90.22	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
234	<i>Casuarina cunninghamiana</i>	River Sheoak	1	23	30	2.8	23.9	2.0	12	2	Fair	Good	Semi-mature	Medium (15-40)	Deadwood minor (<3cm diameter), Poor pruning		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (11.27%), fill (88.73%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
235	<i>Casuarina cunninghamiana</i>	River Sheoak	1	24	30	2.9	26.1	2.0	13	4	Good	Good	Semi-mature	Medium (15-40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Indigenous	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (17.41%), fill (82.59%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
236	<i>Casuarina cunninghamiana</i>	River Sheoak	1	39	53	4.7	68.8	2.5	18	6	Good	Good	Mature	Long (>40)	Crack or split, Deadwood moderate (3-10cm diameter), Deadwood over low use area	Split branch at 6m over garden bed.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (53.0%), fill (47.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
237	<i>Casuarina cunninghamiana</i>	River Sheoak	1	43	53	5.2	83.6	2.5	13	8	Good	Good	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Previous failure(s)		Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (79.79%), fill (20.21%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
238	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	34	49	4.1	52.3	2.5	12	7	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark, Weak attachments	Included unions a typical in this tree species.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
239	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	50	55	6.0	113.1	2.6	15	5	Good	Fair	Mature	Long (>40)	Co-dominant stems, Included bark, Weak attachments	Included first-order branch junction.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (91.68%), fill (8.32%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
240	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	67	80	8.0	203.1	3.0	15	5	Good	Fair	Mature	Long (>40)	Epicormic shoots, Included bark, Weak attachments	Included first-order union at 2m. Feature consistent with tree species.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (83.72%), fill (16.28%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
241	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	35	40	4.2	55.4	2.3	9	6	Fair	Good	Mature	Medium (15-40)	Wound(s)	Basal wound on the western side of the trunk. 300mm retaining wall to the western side of the root plate.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (93.27%), fill (6.73%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
242	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	54	69	6.5	131.9	2.8	15	7	Good	Fair	Mature	Long (>40)	Deadwood moderate (3-10cm diameter), Deadwood over low use area, Included bark, Weak attachments	Included first-order union at 2m. Feature consistent with tree species.300mm retaining wall to the western side of the root plate.	Protected	Indigenous	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (80.32%), fill (19.68%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
243	<i>Melaleuca quinquenervia</i>	Broad-leaved Paperbark	1	39	53	4.7	68.8	2.5	14	7	Fair	Fair	Mature	Medium (15-40)	Co-dominant stems, Included bark, Weak attachments	300mm retaining wall to the western side of the root plate.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (86.26%), fill (13.74%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
244	<i>Corymbia ficifolia</i>	Flowering Gum	1	35	43	4.2	55.4	2.3	6	6	Poor	Good	Mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Deadwood over low use area		Protected	Native	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
245	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	8	12	2.0	12.6	1.5	9	2	Fair	Good	Juvenile	Short (5-15)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
246	<i>Olea europaea subsp. cuspidata</i>	African Olive	27	17.09	40	2.1	13.2	2.3	6	5	Good	Fair	Mature	Dead Or Hazardous/Remove (0-5)	Asymmetrical crown, Co-dominant stems, Environmental/Declared Weed, Included bark, Weak attachments	Group of 26 to the east.	Exempt	Exotic	4 (Environmental Pest / Noxious Weed)	Priority for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree should be considered for removal irrespective of development due to its current condition and/or weed status.	Remove - irrespective			Site
247	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	57.8	78	6.9	151.1	3.0	18	11	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Deadwood moderate (3-10cm diameter), Deadwood over low use area, Weak attachments		Protected	Native	1 (High)	High - Priority for Retention	TP2 encroachment for cut (79.43%), warehouse & driveway (53.88%) which enters the SRZ	Y	79.43	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
248	<i>Grevillea robusta</i>	Silky Oak	4	18	22	2.2	14.7	1.8	10	4	Fair	Good	Juvenile	Short (5-15)	Asymmetrical crown	Group of 3 to the east.Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Group of 4 trees on northern side of fence.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (53.72%), warehouse & driveway (1.53%) which enters the SRZ	Y	53.72	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
249	<i>Pittosporum undulatum</i>	Sweet Pittosporum	1	15	20	2.0	12.6	1.7	6	4	Good	Good	Semi-mature	Short (5-15)	Environmental/Declared Weed	Located in adjoining property. Location and diameters estimated.Located in adjoining property.	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (60.7%) which enters the SRZ	Y	60.7	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TPZ and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
250	<i>Fraxinus griffithii</i>	Evergreen Ash	19	30	40	3.6	40.7	2.3	6	5	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Crossing/rubbing branches	Ground of 18 to the east of tagged tree. Periphery planting.	Protected	Exotic	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (87.58%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
251	<i>Corymbia maculata</i>	Spotted Gum	1	20	26	2.4	18.1	1.9	12	5	Good	Good	Semi-mature	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (82.68%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
252	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	13	17	2.0	12.6	1.6	9	2	Good	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Self-sown and inappropriately located, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (71.31%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
253	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	13	18	2.0	12.6	1.6	9	2	Good	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Self-sown and inappropriately located, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (61.89%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
254	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	32	38	3.8	46.3	2.2	19	7	Fair	Good	Semi-mature	Medium (15-40)	Deadwood minor (<3cm diameter), Dieback, Epicormic shoots		Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (39.64%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
255	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	22	28	2.6	21.9	1.9	12	3	Good	Fair	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed, Wound(s)		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (99.87%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
256	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	15	20	2.0	12.6	1.7	10	3	Good	Fair	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (94.39%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
257	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	20	26	2.4	18.1	1.9	16	5	Good	Fair	Semi-mature	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (53.64%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
258	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	7	10	2.0	12.6	1.5	7	2	Good	Good	Young	Short (5-15)	Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (76.52%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
259	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	24	31	2.9	26.1	2.0	20	6	Good	Good	Semi-mature	Long (>40)			Protected	Native	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (74.74%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
260	<i>Melaleuca decora</i>	White Feather Honey Myrtle	1	31	41	3.7	43.5	2.3	8	7	Good	Fair	Mature	Medium (15-40)	Co-dominant stems, Damaging infrastructure, Deadwood moderate (3-10cm diameter)	Damaging fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (51.59%) which enters the SRZ	Y	51.59	Major	Tree may be retained if cut and fill are deleted from the TPZ and not result in an enroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing	Site
261	<i>Melaleuca decora</i>	White Feather Honey Myrtle	1	29.21	37	3.5	38.6	2.2	8	3	Fair	Fair	Semi-mature	Short (5-15)	Co-dominant stems, Deadwood minor (<3cm diameter), Dieback, Epicormic shoots, Suppressed		Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (97.47%), warehouse & driveway (23.79%) which enters the SRZ	Y	97.47	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site

Tree no.	Botanical Name	Common Name	Trees in group	DBH Total (cm)	DRB (cm)	Radial TPZ (m)	TPZ area (m2)	Radial SRZ (m)	Tree Height (m)	Canopy (m)	Vigour	Structural Condition	Age Class	ULE (Yrs.)	Observations	Comments	DCP Status	Origin	STARS Significance Rating	Retention Value	Encroachment into TPZ/SRZ	Within SRZ	Encroachment %	Encroachment Type	Likely Impact	Impact Assessment Recommendation	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures	Ownership
262	<i>Casuarina cunninghamiana</i>	River Sheoak	1	39	50	4.7	68.8	2.5	16	6	Good	Fair	Semi-mature	Medium (15-40)	Asymmetrical crown, Suppressed	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (42.97%) which enters the SRZ	Y	42.97	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
263	<i>Casuarina cunninghamiana</i>	River Sheoak	1	50	60	6.0	113.1	2.7	22	10	Good	Good	Mature	Medium (15-40)	Deadwood moderate (3-10cm diameter)	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence.	Protected	Indigenous	1 (High)	High - Priority for Retention	TP2 encroachment for cut (43.51%), warehouse & driveway (3.06%) which enters the SRZ	Y	43.51	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
264	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	20	28	2.4	18.1	1.9	11	3	Good	Fair	Semi-mature	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
265	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	11	15	2.0	12.6	1.5	8	2	Good	Fair	Juvenile	Short (5-15)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
266	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	11	15	2.0	12.6	1.5	6	2	Good	Good	Juvenile	Short (5-15)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
267	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	20	28	2.4	18.1	1.9	12	3	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
268	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	16	21	2.0	12.6	1.7	12	3	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
269	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	48	52	5.8	104.2	2.5	22	14	Good	Good	Mature	Long (>40)	Co-dominant stems, Deadwood minor (<3cm diameter)		Protected	Native	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (96.84%), warehouse & driveway (54.67%) which enters the SRZ	Y	96.84	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
270	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	14	20	2.0	12.6	1.7	8	2	Good	Good	Juvenile	Medium (15-40)	Asymmetrical crown, Suppressed		Protected	Native	3 (Low)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (100.0%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
271	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	14	17	2.0	12.6	1.6	8	1	Good	Good	Juvenile	Short (5-15)	Self-sown and inappropriately located		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (32.01%) which enters the SRZ	Y	32.01	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
272	<i>Eucalyptus tereticornis</i>	Forest Red Gum	1	15	20	2.0	12.6	1.7	8	1	Good	Good	Juvenile	Short (5-15)	Self-sown and inappropriately located		Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (12.69%) which enters the SRZ	Y	12.69	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
273	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	33	40	4.0	49.3	2.3	16	8	Good	Good	Semi-mature	Long (>40)	Deadwood minor (<3cm diameter)		Protected	Native	2 (Medium)	High - Priority for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (95.33%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
274	<i>Corymbia citriodora</i>	Lemon-scented Gum	1	45.18	48	5.4	92.3	2.4	19	9	Good	Fair	Mature	Medium (15-40)	Co-dominant stems	Codominant near base.	Protected	Native	2 (Medium)	Medium - Consider for Retention	TP2 encroachment for cut (100.0%), warehouse & driveway (65.48%) which enters the SRZ	Y	100	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
275	<i>Callistemon citrinus</i>	Crimson Bottlebrush	56	10	12	2.0	12.6	1.5	3	2	Good	Good	Mature	Medium (15-40)	Group of 55 trees to the east and south along the eastern boundary.		Exempt	Native	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (94.75%), fill (3.04%), warehouse & driveway (68.64%) which enters the SRZ	Y	94.75	Major	Tree not viable for retention due to impacts to the crown and/or root zone that cannot be reduced or remediated under the current design.	Remove - project impacts			Site
276	<i>Olea europaea subsp. cuspidata</i>	African Olive	5	20	25	2.4	18.1	1.8	8	6	Good	Good	Mature	Dead Or Hazardous/Remove (0-5)	Environmental/Declared Weed	Group of 4 trees to the east. Located in adjoining property. Location and diameters estimated.	Exempt	Exotic	5 (Hazardous / Irreversible Decline)	Priority for Removal	TP2 encroachment for cut (29.92%) which enters the SRZ	Y	29.92	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
277	<i>Casuarina cunninghamiana</i>	River Sheoak	1	36	50	4.3	58.6	2.5	13	5	Good	Poor	Semi-mature	Short (5-15)	Co-dominant stems, Significant fault - bark inclusion(s)	Located in adjoining property. Location and diameters estimated. Located in adjoining property. Location and diameters estimated. Tag on fence. Sever bark inclusion at 5m limits ULE .	Protected	Indigenous	3 (Low)	Low - Consider for Removal	TP2 encroachment for cut (43.59%) which enters the SRZ	Y	43.59	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St
278	<i>Casuarina cunninghamiana</i>	River Sheoak	1	40	55	4.8	72.4	2.6	12	6	Good	Poor	Semi-mature	Short (5-15)	Deadwood moderate (3-10cm diameter), Previous failure(s)	Located in adjoining property. Location and diameters estimated.Located in adjoining property. Location and diameters estimated. Tag on fence. Apical stem has previously failed resulting in reduced ULE.	Protected	Indigenous	2 (Medium)	Low - Consider for Removal	TP2 encroachment for cut (43.47%) which enters the SRZ	Y	43.47	Major	Tree will suffer destabilising root loss with the current proposed cut in the SRZ. Cut and fill will need to be deleted from the TP2 and not result in an encroachment of greater than 15%.	Retain - generic plus	Bulk earthworks and all construction activity must be deleted from the TP2 where it would exceed an encroachment greater than 15%.	TPZ Fencing	23 Britton St

13. Appendix C – Tree Protection Management Plan



REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024

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- LEGEND
- Site Boundary
 - TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
 - TPZ Fencing



DRAWN: KH
DWG NO: TPMP.01
SCALE: 1:500 @A3

5 0 5 10 m

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

PO Box 902
Five Dock NSW 2046
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P: 1300 1 CANOPY

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Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
10	Triadica sebifera	3.7	2.3	Remove - project impacts	Council		
11	Triadica sebifera	3.0	2.0	Retain - generic	Council		TPZ Fencing
12	Triadica sebifera	2.7	2.2	Retain - generic	Council		TPZ Fencing
13	Triadica sebifera	3.2	2.1	Retain - generic	Council		TPZ Fencing
14	Triadica sebifera	4.7	2.4	Retain - generic	Council		TPZ Fencing
15	Triadica sebifera	2.4	2.2	Retain - generic	Council		TPZ Fencing
16	Cupaniopsis anacardioides	2.0	1.7	Remove - project impacts	NULL		
17	Cupaniopsis anacardioides	2.0	1.5	Remove - project impacts	NULL		
18	Corymbia maculata	7.7	3.0	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
19	Corymbia maculata	5.3	2.5	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
20	Corymbia maculata	6.1	2.8	Remove - irrespective	NULL		
21	Grevillea robusta	6.0	2.6	Retain - generic	NULL		TPZ Fencing
22	Corymbia maculata	7.8	2.9	Remove - project impacts	NULL		
23	Murraya paniculata	2.0	1.7	Retain - generic	NULL		TPZ Fencing
36	Tristaniopsis laurina	2.0	1.5	Remove - project impacts	NULL		
90	Casuarina glauca	2.1	1.9	Remove - irrespective	NULL		

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
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REV	DESCRIPTION	DATE
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PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
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LEGEND

- Site Boundary
- TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
 - TPZ Fencing

DRAWN: KH
DWG NO: TPMP.03
SCALE: 1:500 @A3

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

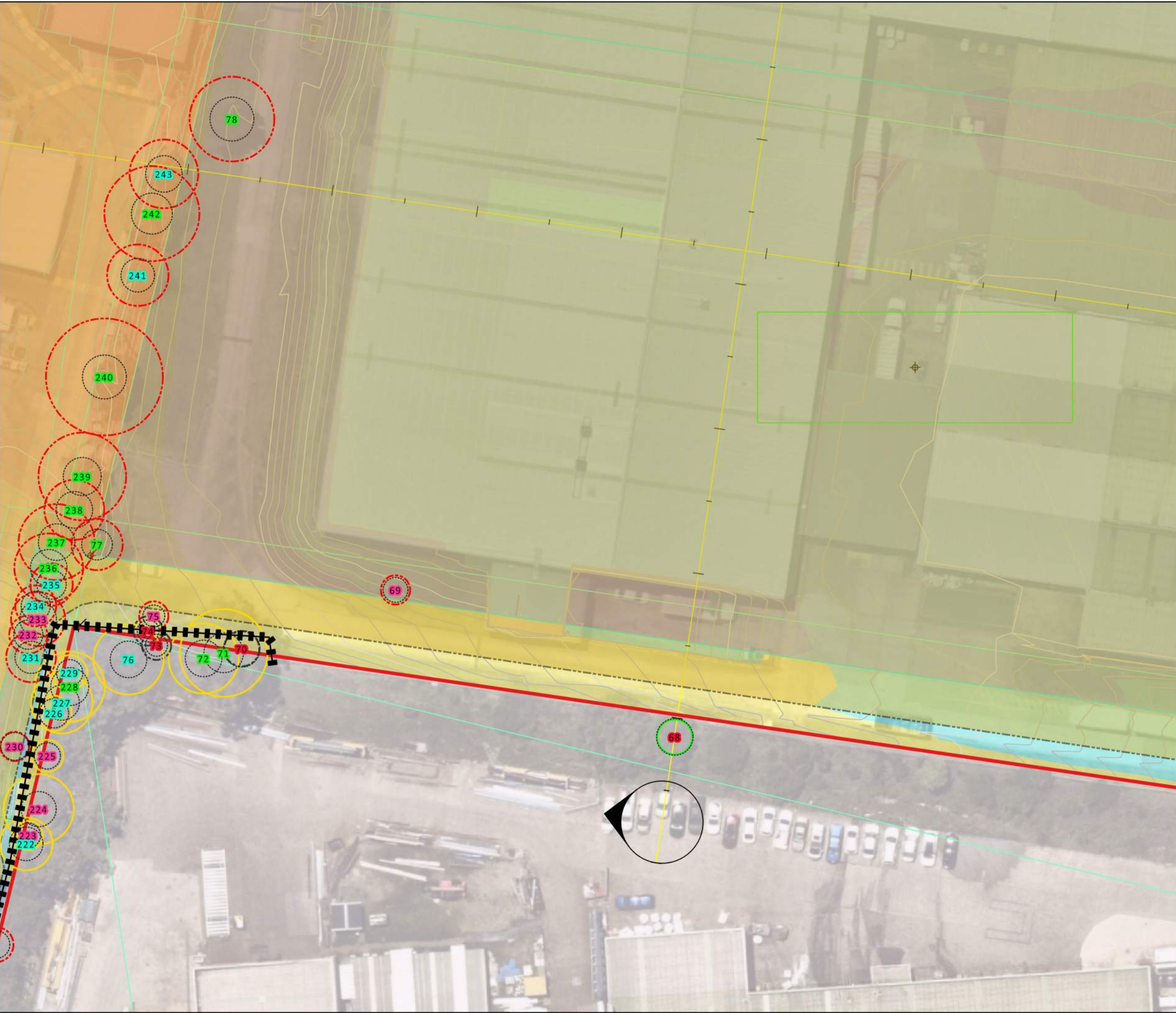
CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

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Five Dock NSW 2046
E: info@canopyconsulting.com.au
P: 1300 1 CANOPY

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
6	Triadica sebifera	2.0	1.9	Remove - project impacts	Council		
7	Triadica sebifera	3.1	2.1	Remove - project impacts	Council		
8	Triadica sebifera	2.6	2.0	Remove - project impacts	Council		
9	Triadica sebifera	3.7	2.3	Remove - project impacts	Council		
10	Triadica sebifera	3.7	2.3	Remove - project impacts	Council		
24	Casuarina glauca	3.0	1.9	Remove - project impacts	NULL		
25	Eucalyptus grandis	6.7	2.9	Remove - project impacts	NULL		
26	Olea europaea subsp. cuspidata	2.0	1.7	Remove - irrespective	NULL		
27	Eucalyptus nicholii	3.6	2.1	Remove - project impacts	NULL		
28	Eucalyptus nicholii	5.8	2.6	Remove - project impacts	NULL		
29	Eucalyptus nicholii	6.0	2.6	Remove - project impacts	NULL		
30	Platanus x acerifolia	4.1	2.2	Remove - project impacts	NULL		
31	Platanus x acerifolia	5.8	2.6	Remove - project impacts	NULL		
32	Gleditsia triacanthos	3.4	2.3	Remove - project impacts	NULL		
33	Gleditsia triacanthos	4.2	2.1	Remove - project impacts	NULL		
34	Gleditsia triacanthos	6.0	2.5	Remove - project impacts	NULL		
35	Casuarina cunninghamiana	8.2	3.1	Remove - project impacts	NULL		
36	Tristaniopsis laurina	2.0	1.5	Remove - project impacts	NULL		
37	Angophora costata	5.3	2.5	Remove - project impacts	NULL		
38	Eucalyptus sideroxylon	6.8	2.8	Remove - project impacts	NULL		
39	Eucalyptus sideroxylon	7.3	2.7	Remove - project impacts	NULL		
1	Triadica sebifera	2.0	1.7	Remove - project impacts	Council		
2	Triadica sebifera	3.1	2.0	Retain - generic	Council		TPZ Fencing
3	Triadica sebifera	2.0	1.9	Retain - generic	Council		TPZ Fencing
4	Triadica sebifera	2.0	1.5	Retain - generic	Council		TPZ Fencing
5	Triadica sebifera	2.0	1.7	Remove - project impacts	Council		
40	Ulmus parvifolia	3.6	2.4	Remove - project impacts	NULL		
41	Corymbia citriodora	14.1	3.4	Remove - project impacts	NULL		
42	Calodendrum capense	4.1	2.3	Retain - generic	NULL		TPZ Fencing
43	Corymbia citriodora	2.0	1.7	Remove - project impacts	NULL		
44	Corymbia citriodora	11.3	3.5	Remove - project impacts	NULL		
45	Corymbia citriodora	10.3	3.3	Remove - project impacts	NULL		
46	Eucalyptus tereticornis	6.2	2.5	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
47	Eucalyptus tereticornis	3.6	2.1	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
48	Corymbia citriodora	2.9	1.9	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
49	Gleditsia triacanthos	2.0	1.7	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
50	Eucalyptus tereticornis	7.9	2.8	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
51	Eucalyptus tereticornis	5.4	2.6	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
52	Eucalyptus microcorys	5.5	2.5	Retain - generic plus	2 Percival Road	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
53	Eucalyptus tereticornis	6.1	2.7	Retain - generic plus	NULL	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
54	Eucalyptus crebra	3.0	2.1	Retain - generic	2 Percival Road		TPZ Fencing
55	Eucalyptus crebra	3.6	2.2	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
56	Eucalyptus crebra	2.6	1.9	Retain - generic	2 Percival Road		TPZ Fencing
57	Corymbia citriodora	4.7	2.5	Remove - project impacts	NULL		
58	Corymbia citriodora	7.9	3.0	Remove - project impacts	NULL		
59	Olea europaea subsp. cuspidata	2.4	2.0	Remove - irrespective	NULL		
60	Leptospermum petersonii	3.2	2.1	Remove - irrespective	NULL		
61	Murraya paniculata	2.0	1.7	Remove - project impacts	NULL		
62	Ligustrum sinense	3.5	2.2	Remove - irrespective	NULL		
63	Callistemon salignus	2.4	2.0	Remove - project impacts	NULL		
64	Callistemon salignus	2.8	3.0	Remove - irrespective	NULL		
65	Pyrus calleryana	2.6	1.8	Remove - project impacts	NULL		
66	Pyrus calleryana	6.1	3.0	Remove - project impacts	NULL		
67	Olea europaea subsp. cuspidata	2.0	2.3	Remove - irrespective	NULL		

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PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
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- LEGEND**
- Site Boundary
 - TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
 - TPZ Fencing



DRAWN: KH
DWG NO: TPMP.05
SCALE: 1:500 @A3

5 0 5 10 m

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

PO Box 902
Five Dock NSW 2046
E: info@canopyconsulting.com.au
P: 1300 1 CANOPY

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Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
68	Olea europaea subsp. cuspidata	2.4	2.5	Retain - generic	2 Percival Road		TPZ Fencing
69	Brachychiton acerifolius	2.0	1.7	Remove - project impacts	NULL		
70	Olea europaea subsp. cuspidata	2.4	2.5	Remove - irrespective	NULL		
71	Eucalyptus crebra	6.0	2.7	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
72	Eucalyptus crebra	4.8	2.5	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
73	Olea europaea subsp. cuspidata	2.0	1.5	Remove - irrespective	2 Percival Road		
74	Ligustrum lucidum	2.0	1.5	Remove - irrespective	NULL		
75	Casuarina glauca	2.0	1.5	Remove - project impacts	NULL		
76	Eucalyptus crebra	4.8	2.5	Retain - generic plus	2 Percival Road	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
77	Casuarina glauca	3.5	2.1	Remove - project impacts	NULL		
78	Melaleuca quinquenervia	5.8	3.0	Remove - project impacts	NULL		
227	Eucalyptus moluccana	4.2	2.4	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
228	Eucalyptus moluccana	4.8	2.6	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
229	Casuarina glauca	2.4	1.8	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
235	Casuarina cunninghamiana	2.9	2.0	Remove - project impacts	NULL		
236	Casuarina cunninghamiana	4.7	2.5	Remove - project impacts	NULL		
237	Casuarina cunninghamiana	5.2	2.5	Remove - project impacts	NULL		
238	Melaleuca quinquenervia	4.1	2.5	Remove - project impacts	NULL		
239	Melaleuca quinquenervia	6.0	2.6	Remove - project impacts	NULL		
240	Melaleuca quinquenervia	8.0	3.0	Remove - project impacts	NULL		
241	Melaleuca quinquenervia	4.2	2.3	Remove - project impacts	NULL		
242	Melaleuca quinquenervia	6.5	2.8	Remove - project impacts	NULL		
243	Melaleuca quinquenervia	4.7	2.5	Remove - project impacts	NULL		
221	Eucalyptus moluccana	2.4	1.9	Remove - project impacts	NULL		
222	Corymbia maculata	3.6	2.3	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
223	Corymbia maculata	2.0	1.7	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
224	Eucalyptus moluccana	4.8	2.4	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
225	Acacia decurrens	2.2	1.8	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
226	Eucalyptus moluccana	2.4	2.0	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an enroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
230	Melaleuca quinquenervia	2.0	1.9	Remove - project impacts	NULL		
231	Casuarina cunninghamiana	3.4	2.2	Remove - project impacts	NULL		
232	Casuarina cunninghamiana	2.6	2.0	Remove - project impacts	NULL		
233	Casuarina cunninghamiana	3.7	2.5	Remove - project impacts	NULL		
234	Casuarina cunninghamiana	2.8	2.0	Remove - project impacts	NULL		

REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024
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PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
CLIENT: LENDLEASE SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164		
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- LEGEND**
- Site Boundary
 - TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - SRZ



DRAWN: KH
DWG NO: TPMP.07
SCALE: 1:500 @A3

5 0 5 10 m

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

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Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
90	Casuarina glauca	2.1	1.9	Remove - irrespective	NULL		
79	Casuarina cunninghamiana	11.3	3.4	Remove - project impacts	NULL		
80	Casuarina cunninghamiana	7.2	3.0	Remove - project impacts	NULL		
81	Casuarina cunninghamiana	6.2	2.7	Remove - project impacts	NULL		
82	Casuarina cunninghamiana	6.8	2.8	Remove - project impacts	NULL		
83	Corymbia citriodora	2.8	2.0	Remove - project impacts	NULL		
84	Eucalyptus sp.	3.1	2.8	Remove - irrespective	NULL		
85	Eucalyptus moluccana	3.1	2.1	Remove - project impacts	NULL		
86	Casuarina glauca	6.2	2.7	Remove - project impacts	NULL		
87	Casuarina cunninghamiana	6.5	2.8	Remove - project impacts	NULL		
88	Casuarina cunninghamiana	7.1	2.9	Remove - project impacts	NULL		
89	Dead tree	4.2	2.4	Remove - irrespective	NULL		
275	Callistemon citrinus	2.0	1.5	Remove - project impacts	NULL		

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
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REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024
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PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
CLIENT: LENDLEASE SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164		
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C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024

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- LEGEND
- Site Boundary
 - TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
 - TPZ Fencing



DRAWN: KH
DWG NO: TPMP.09
SCALE: 1:500 @A3

5 0 5 10 m

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

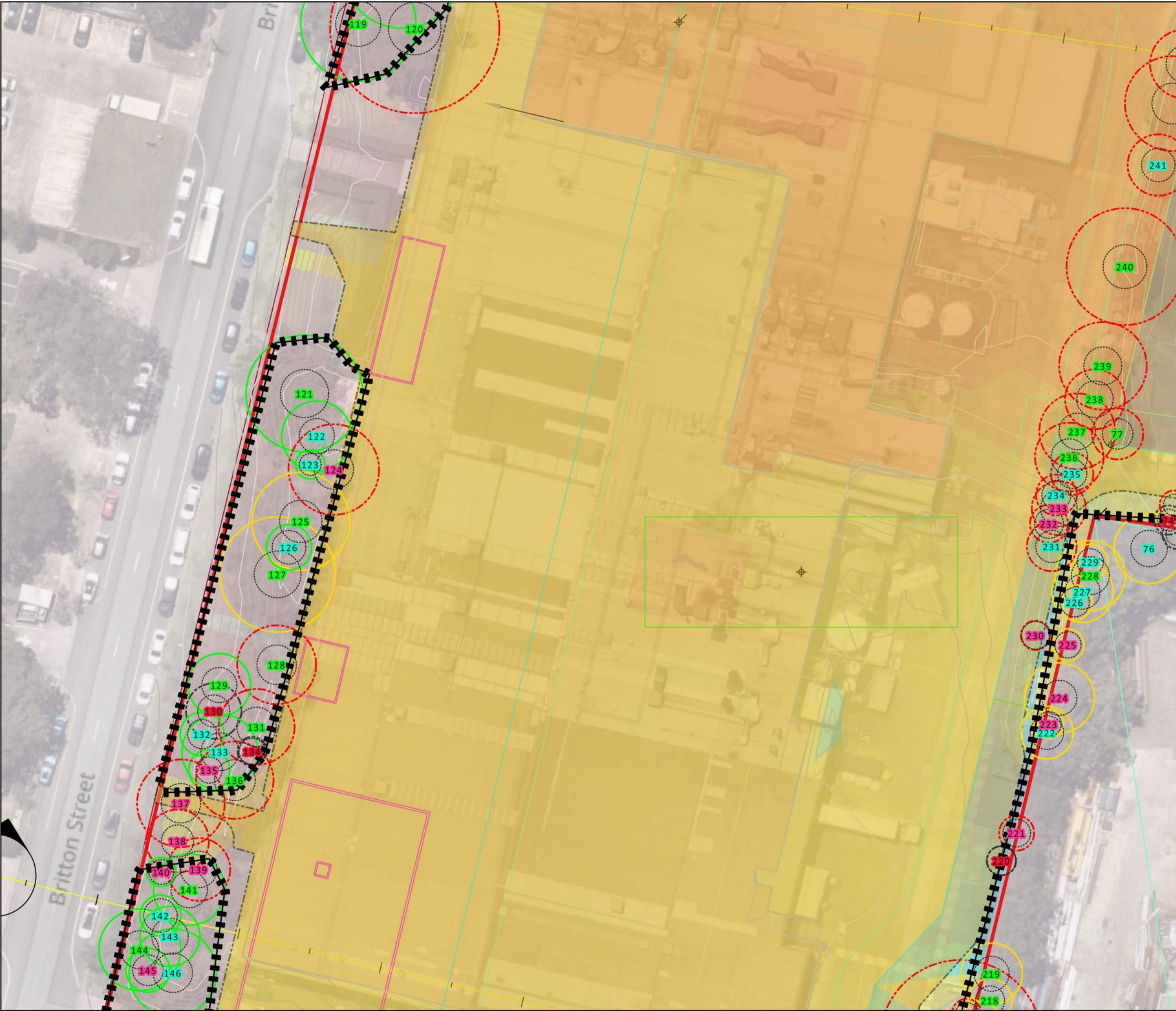
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canopy consulting

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendation	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
78	Melaleuca quinquenervia	5.8	3.0	Remove - project impacts	NULL		
79	Casuarina cunninghamiana	11.3	3.4	Remove - project impacts	NULL		
80	Casuarina cunninghamiana	7.2	3.0	Remove - project impacts	NULL		
81	Casuarina cunninghamiana	6.2	2.7	Remove - project impacts	NULL		
82	Casuarina cunninghamiana	6.8	2.8	Remove - project impacts	NULL		
242	Melaleuca quinquenervia	6.5	2.8	Remove - project impacts	NULL		
243	Melaleuca quinquenervia	4.7	2.5	Remove - project impacts	NULL		
276	Olea europaea subsp. cuspidata	2.4	1.8	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
277	Casuarina cunninghamiana	4.3	2.5	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
278	Casuarina cunninghamiana	4.8	2.6	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
275	Callistemon citrinus	2.0	1.5	Remove - project impacts	NULL		
100	Eucalyptus tereticornis	2.0	1.7	Remove - project impacts	Council		
101	Eucalyptus moluccana	2.0	1.9	Remove - project impacts	Council		
102	Eucalyptus moluccana	2.4	2.1	Remove - project impacts	Council		
103	Eucalyptus moluccana	2.0	1.5	Remove - project impacts	Council		
104	Eucalyptus tereticornis	2.0	1.6	Remove - project impacts	Council		
105	Eucalyptus moluccana	2.0	1.5	Remove - project impacts	Council		
106	Eucalyptus tereticornis	2.5	1.8	Remove - project impacts	Council		
107	Eucalyptus tereticornis	2.0	1.8	Remove - project impacts	Council		
108	Eucalyptus tereticornis	2.0	1.8	Remove - project impacts	Council		
112	Casuarina cunninghamiana	3.7	2.3	Retain - generic	NULL		TPZ Fencing
113	Casuarina cunninghamiana	3.4	2.1	Retain - generic	NULL		TPZ Fencing
114	Eucalyptus microcorys	5.2	2.6	Retain - generic	NULL		TPZ Fencing
115	Eucalyptus microcorys	5.4	2.6	Retain - generic	NULL		TPZ Fencing
116	Eucalyptus microcorys	7.2	3.1	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
117	Eucalyptus microcorys	8.2	3.0	Retain - generic	NULL		TPZ Fencing
118	Olea europaea subsp. cuspidata	2.0	1.5	Remove - Irrespective	NULL		
119	Eucalyptus microcorys	7.9	3.1	Retain - generic	NULL		TPZ Fencing
120	Eucalyptus microcorys	11.6	3.6	Remove - project impacts	NULL		
91	Acacia decurrens	2.0	1.8	Remove - project impacts	NULL		
92	Eucalyptus sideroxylon	6.8	2.7	Remove - project impacts	NULL		
93	Eucalyptus sideroxylon	4.9	2.5	Remove - project impacts	NULL		
94	Eucalyptus sideroxylon	7.6	3.0	Remove - Irrespective	NULL		
95	Eucalyptus punctata	2.3	2.1	Retain - generic plus	NULL	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
96	Eucalyptus moluccana	2.0	1.5	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
97	Eucalyptus moluccana	2.0	1.5	Retain - generic	23 Britton St		TPZ Fencing

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendation	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
98	Eucalyptus punctata	2.0	1.5	Retain - generic	23 Britton St		TPZ Fencing
99	Eucalyptus moluccana	2.0	1.7	Remove - project impacts	NULL		
109	Casuarina cunninghamiana	3.2	2.2	Remove - project impacts	NULL		
110	Casuarina cunninghamiana	4.2	2.3	Remove - project impacts	NULL		
111	Casuarina cunninghamiana	4.9	2.6	Remove - project impacts	NULL		
244	Corymbia ficifolia	4.2	2.3	Remove - project impacts	NULL		
245	Corymbia citriodora	2.0	1.5	Remove - project impacts	NULL		
246	Olea europaea subsp. cuspidata	2.1	2.3	Remove - Irrespective	NULL		
247	Corymbia citriodora	6.9	3.0	Remove - project impacts	NULL		
248	Grevillea robusta	2.2	1.8	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
249	Pittosporum undulatum	2.0	1.7	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
250	Fraxinus griffithii	3.6	2.3	Remove - project impacts	NULL		
251	Corymbia maculata	2.4	1.9	Remove - project impacts	NULL		
252	Corymbia citriodora	2.0	1.6	Remove - project impacts	NULL		
253	Corymbia citriodora	2.0	1.6	Remove - project impacts	NULL		
254	Corymbia citriodora	3.8	2.2	Remove - project impacts	NULL		
255	Corymbia citriodora	2.6	1.9	Remove - project impacts	NULL		
256	Corymbia citriodora	2.0	1.7	Remove - project impacts	NULL		
257	Corymbia citriodora	2.4	1.9	Remove - project impacts	NULL		
258	Corymbia citriodora	2.0	1.5	Remove - project impacts	NULL		
259	Corymbia citriodora	2.9	2.0	Remove - project impacts	NULL		
260	Melaleuca decora	3.7	2.3	Retain - generic plus	NULL	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
261	Melaleuca decora	3.5	2.2	Remove - project impacts	NULL		
262	Casuarina cunninghamiana	4.7	2.5	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
263	Casuarina cunninghamiana	6.0	2.7	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
264	Corymbia citriodora	2.4	1.9	Remove - project impacts	NULL		
265	Corymbia citriodora	2.0	1.5	Remove - project impacts	NULL		
266	Corymbia citriodora	2.0	1.5	Remove - project impacts	NULL		
267	Corymbia citriodora	2.4	1.9	Remove - project impacts	NULL		
268	Corymbia citriodora	2.0	1.7	Remove - project impacts	NULL		
269	Corymbia citriodora	5.8	2.5	Remove - project impacts	NULL		
270	Corymbia citriodora	2.0	1.7	Remove - project impacts	NULL		
271	Eucalyptus tereticornis	2.0	1.6	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
272	Eucalyptus tereticornis	2.0	1.7	Retain - generic plus	23 Britton St	Bulk earthworks and all construction activity must be deleted from the TPZ where it would exceed an encroachment greater than 15%.	TPZ Fencing
273	Corymbia citriodora	4.0	2.3	Remove - project impacts	NULL		
274	Corymbia citriodora	5.4	2.4	Remove - project impacts	NULL		

REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024
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DRAWN: KH DWG NO:TPMP.010		
PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
CLIENT: LENDLEASE SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164		
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REV	DESCRIPTION	DATE
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C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024

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LEGEND

- Site Boundary
- TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
- TPZ Fencing



DRAWN: KH 5 0 5 10 m
DWG NO: TPMP.011
SCALE: 1:500 @A3

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

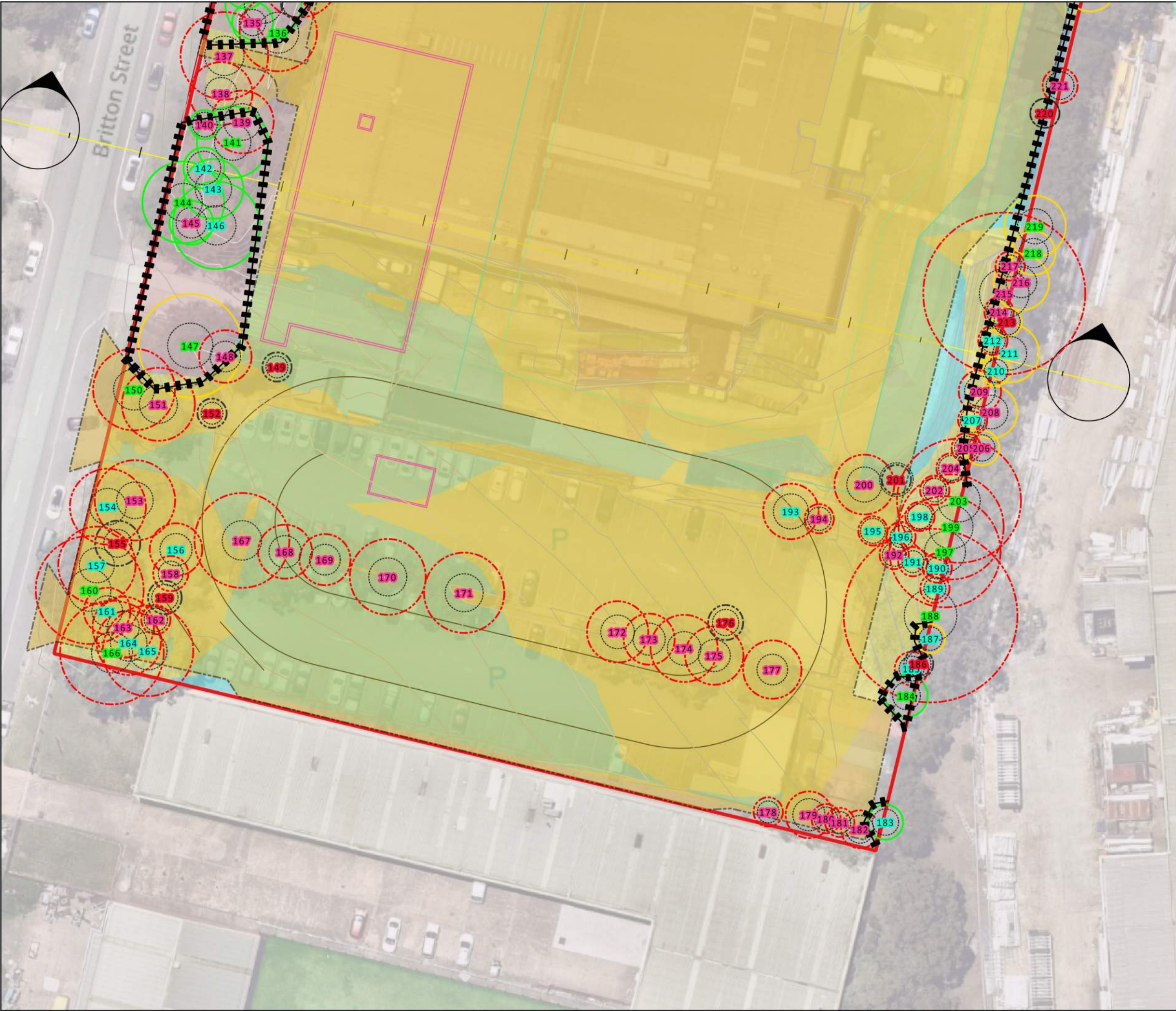
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P: 1300 1 CANOPY



Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
73	Olea europaea subsp. cuspidata	2.0	1.5	Remove - irrespective	2 Percival Road		
74	Ligustrum lucidum	2.0	1.5	Remove - irrespective	NULL		
75	Casuarina glauca	2.0	1.5	Remove - project impacts	NULL		
76	Eucalyptus crebra	4.8	2.5	Retain - generic plus	2 Percival Road	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
77	Casuarina glauca	3.5	2.1	Remove - project impacts	NULL		
227	Eucalyptus moluccana	4.2	2.4	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
228	Eucalyptus moluccana	4.8	2.6	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
229	Casuarina glauca	2.4	1.8	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
235	Casuarina cunninghamiana	2.9	2.0	Remove - project impacts	NULL		
236	Casuarina cunninghamiana	4.7	2.5	Remove - project impacts	NULL		
237	Casuarina cunninghamiana	5.2	2.5	Remove - project impacts	NULL		
238	Melaleuca quinquenervia	4.1	2.5	Remove - project impacts	NULL		
239	Melaleuca quinquenervia	6.0	2.6	Remove - project impacts	NULL		
240	Melaleuca quinquenervia	8.0	3.0	Remove - project impacts	NULL		
241	Melaleuca quinquenervia	4.2	2.3	Remove - project impacts	NULL		
242	Melaleuca quinquenervia	6.5	2.8	Remove - project impacts	NULL		
243	Melaleuca quinquenervia	4.7	2.5	Remove - project impacts	NULL		
119	Eucalyptus microcorys	7.9	3.1	Retain - generic	NULL		TPZ Fencing
120	Eucalyptus microcorys	11.6	3.6	Remove - project impacts	NULL		
121	Eucalyptus microcorys	8.0	3.3	Retain - generic	NULL		TPZ Fencing
122	Eucalyptus microcorys	4.8	2.4	Retain - generic	NULL		TPZ Fencing
123	Callistemon salignus	2.0	1.5	Retain - generic	NULL		TPZ Fencing
124	Eucalyptus microcorys	6.2	2.7	Remove - project impacts	NULL		
125	Eucalyptus microcorys	6.7	2.9	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
126	Eucalyptus microcorys	3.1	2.3	Retain - generic	NULL		TPZ Fencing
127	Eucalyptus microcorys	7.9	3.2	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
128	Corymbia citriodora	5.4	2.7	Remove - project impacts	NULL		
129	Corymbia citriodora	4.3	2.4	Retain - generic	NULL		TPZ Fencing
130	Eucalyptus nicholii	3.8	2.2	Remove - irrespective	NULL		
131	Corymbia citriodora	5.2	2.7	Remove - project impacts	NULL		
132	Corymbia citriodora	3.0	2.0	Retain - generic	NULL		TPZ Fencing
133	Eucalyptus sideroxylon	5.2	2.6	Retain - generic	NULL		TPZ Fencing
134	Eucalyptus tereticornis	2.0	1.8	Remove - irrespective	NULL		
135	Eucalyptus sideroxylon	2.8	1.8	Retain - generic	NULL		TPZ Fencing

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendati	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
136	Corymbia citriodora	5.3	2.8	Remove - project impacts	NULL		
137	Eucalyptus sideroxylon	6.0	2.7	Remove - project impacts	NULL		
138	Eucalyptus sideroxylon	4.3	2.2	Remove - project impacts	NULL		
139	Eucalyptus scoparia	4.3	2.5	Remove - project impacts	NULL		
140	Eucalyptus sideroxylon	2.0	1.7	Retain - generic	NULL		TPZ Fencing
141	Casuarina cunninghamiana	4.9	2.5	Retain - generic	NULL		TPZ Fencing
142	Casuarina cunninghamiana	2.8	2.3	Retain - generic	NULL		TPZ Fencing
143	Casuarina cunninghamiana	4.1	2.5	Retain - generic	NULL		TPZ Fencing
144	Casuarina cunninghamiana	5.6	2.6	Retain - generic	NULL		TPZ Fencing
146	Casuarina cunninghamiana	6.0	2.7	Retain - generic	NULL		TPZ Fencing
215	Eucalyptus moluccana	11.1	3.4	Remove - project impacts	NULL		
219	Eucalyptus moluccana	4.2	2.4	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
220	Olea europaea subsp. cuspidata	2.0	2.0	Remove - irrespective	NULL		
221	Eucalyptus moluccana	2.4	1.9	Remove - project impacts	NULL		
222	Corymbia maculata	3.6	2.3	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
223	Corymbia maculata	2.0	1.7	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
224	Eucalyptus moluccana	4.8	2.4	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
225	Acacia decurrens	2.2	1.8	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
226	Eucalyptus moluccana	2.4	2.0	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
230	Melaleuca quinquenervia	2.0	1.9	Remove - project impacts	NULL		
231	Casuarina cunninghamiana	3.4	2.2	Remove - project impacts	NULL		
232	Casuarina cunninghamiana	2.6	2.0	Remove - project impacts	NULL		
233	Casuarina cunninghamiana	3.7	2.5	Remove - project impacts	NULL		
234	Casuarina cunninghamiana	2.8	2.0	Remove - project impacts	NULL		

REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024
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DRAWN: KH DWG NO:TPMP.012		
PROJECT: PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT DWG: TREE SCHEDULE		
CLIENT: LENDLEASE SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164		
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REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
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LEGEND

- Site Boundary
- TPZ - Recommendations
 - Remove - irrespective
 - Remove - project impacts
 - Retain - generic
 - Retain - generic plus
 - SRZ
 - TPZ Fencing



DRAWN: KH
DWG NO: TPMP.013
SCALE: 1:500 @A3

PROJECT:
PROPOSED MULTI-LEVEL INDUSTRIAL DEVELOPMENT

DWG:
TREE PROTECTION MANAGEMENT PLAN

CLIENT: LENDLEASE
SITE: 15-21 BRITTON ST, SMITHFIELD NSW 2164

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P: 1300 1 CANOPY



Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendation	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
153	Eucalyptus microcorys	5.5	2.5	Remove - project impacts	NULL		
154	Eucalyptus microcorys	5.2	2.5	Remove - project impacts	NULL		
155	Dead tree	3.1	1.9	Remove - irrespective	NULL		
156	Eucalyptus sideroxylon	3.6	2.2	Remove - project impacts	NULL		
157	Eucalyptus microcorys	5.3	2.4	Remove - project impacts	NULL		
158	Eucalyptus sideroxylon	2.4	1.7	Remove - project impacts	NULL		
159	Eucalyptus sideroxylon	2.3	1.8	Remove - irrespective	NULL		
160	Eucalyptus microcorys	7.4	2.9	Remove - project impacts	NULL		
161	Eucalyptus microcorys	3.2	2.1	Remove - project impacts	NULL		
162	Eucalyptus sideroxylon	2.0	1.6	Remove - project impacts	NULL		
163	Eucalyptus microcorys	4.2	2.2	Remove - project impacts	NULL		
164	Eucalyptus microcorys	4.4	2.5	Remove - project impacts	NULL		
165	Eucalyptus microcorys	6.2	2.6	Remove - project impacts	NULL		
166	Eucalyptus microcorys	7.1	2.8	Remove - project impacts	NULL		
167	Eucalyptus microcorys	6.5	2.7	Remove - project impacts	NULL		
168	Eucalyptus microcorys	3.7	2.2	Remove - project impacts	NULL		
169	Eucalyptus microcorys	3.5	2.1	Remove - project impacts	NULL		
170	Eucalyptus microcorys	5.2	2.6	Remove - project impacts	NULL		
171	Eucalyptus microcorys	5.5	2.6	Remove - project impacts	NULL		
136	Corymbia citriodora	5.3	2.8	Remove - project impacts	NULL		
137	Eucalyptus sideroxylon	6.0	2.7	Remove - project impacts	NULL		
138	Eucalyptus sideroxylon	4.3	2.2	Remove - project impacts	NULL		
139	Eucalyptus scoparia	4.3	2.5	Remove - project impacts	NULL		
140	Eucalyptus sideroxylon	2.0	1.7	Retain - generic	NULL		TPZ Fencing
141	Casuarina cunninghamiana	4.9	2.5	Retain - generic	NULL		TPZ Fencing
142	Casuarina cunninghamiana	2.8	2.3	Retain - generic	NULL		TPZ Fencing
143	Casuarina cunninghamiana	4.1	2.5	Retain - generic	NULL		TPZ Fencing
144	Casuarina cunninghamiana	5.6	2.6	Retain - generic	NULL		TPZ Fencing
145	Casuarina cunninghamiana	3.0	2.1	Retain - generic	NULL		TPZ Fencing
146	Casuarina cunninghamiana	6.0	2.7	Retain - generic	NULL		TPZ Fencing
147	Casuarina cunninghamiana	7.1	3.1	Retain - generic plus	NULL	Plant health care treatment required to offset root loss. This includes application of mycorrhizal fungi and seaweed based soil conditioner in addition to irrigation and mulching. In conjunction with tree protection measures.	TPZ Fencing
148	Eucalyptus sideroxylon	3.6	2.1	Remove - project impacts	NULL		
149	Eucalyptus sideroxylon	2.0	1.5	Remove - irrespective	NULL		
150	Casuarina cunninghamiana	5.6	2.8	Remove - project impacts	NULL		
151	Casuarina cunninghamiana	5.0	2.6	Remove - project impacts	NULL		
152	Eucalyptus sideroxylon	2.0	1.5	Remove - irrespective	NULL		

Tree_	Botanical Name	Radial TPZ (m)	Radial SRZ (m)	Recommendation	Ownership	Alternative Design or Construction Methods (Generic Plus)	Tree Protection Measures
172	Eucalyptus microcorys	4.2	2.3	Remove - project impacts	NULL		
173	Eucalyptus microcorys	3.5	2.2	Remove - project impacts	NULL		
174	Eucalyptus microcorys	4.6	2.3	Remove - project impacts	NULL		
175	Eucalyptus microcorys	4.0	2.2	Remove - project impacts	NULL		
176	Eucalyptus microcorys	2.4	1.8	Remove - irrespective	NULL		
177	Eucalyptus microcorys	4.0	2.1	Remove - project impacts	NULL		
178	Casuarina glauca	2.0	1.5	Remove - project impacts	NULL		
179	Eucalyptus scoparia	3.2	2.2	Remove - project impacts	NULL		
180	Eucalyptus scoparia	2.0	1.6	Remove - project impacts	NULL		
181	Eucalyptus sideroxylon	2.0	1.5	Remove - project impacts	NULL		
182	Eucalyptus sideroxylon	2.6	1.9	Remove - project impacts	NULL		
183	Casuarina glauca	2.4	1.8	Retain - generic	2 Percival Road		TPZ Fencing
184	Eucalyptus sideroxylon	2.9	1.9	Retain - generic	NULL		TPZ Fencing
185	Eucalyptus sideroxylon	2.3	1.7	Remove - project impacts	NULL		
186	Olea europaea subsp. cuspidata	2.0	1.7	Remove - irrespective	NULL		
187	Eucalyptus moluccana	2.0	1.6	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
188	Eucalyptus moluccana	11.9	3.6	Remove - project impacts	NULL		
189	Eucalyptus sideroxylon	2.0	1.5	Remove - project impacts	NULL		
190	Eucalyptus sideroxylon	2.0	1.5	Remove - project impacts	NULL		
191	Eucalyptus sideroxylon	2.0	1.5	Remove - project impacts	NULL		
192	Eucalyptus sideroxylon	2.0	1.6	Remove - project impacts	NULL		
193	Eucalyptus sideroxylon	3.8	2.4	Remove - project impacts	NULL		
194	Eucalyptus sideroxylon	2.0	1.6	Remove - project impacts	NULL		
195	Eucalyptus sideroxylon	2.0	1.7	Remove - project impacts	NULL		
196	Eucalyptus sideroxylon	2.0	1.5	Remove - project impacts	NULL		
197	Eucalyptus moluccana	7.6	2.8	Remove - project impacts	NULL		
198	Eucalyptus sideroxylon	2.0	1.7	Remove - project impacts	NULL		
199	Eucalyptus moluccana	7.2	3.0	Remove - project impacts	NULL		
200	Eucalyptus microcorys	4.1	2.4	Remove - project impacts	NULL		
201	Eucalyptus microcorys	2.0	2.3	Remove - irrespective	NULL		
202	Eucalyptus sideroxylon	2.0	1.6	Remove - project impacts	NULL		
203	Eucalyptus moluccana	8.5	2.9	Remove - project impacts	NULL		
204	Eucalyptus sideroxylon	2.0	1.7	Remove - project impacts	NULL		
205	Eucalyptus sideroxylon	2.0	1.6	Remove - project impacts	NULL		
206	Corymbia maculata	2.4	1.8	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will be required to guide the potential placement of engineered solutions.	TPZ Fencing
207	Eucalyptus sideroxylon	2.0	1.7	Remove - project impacts	NULL		
208	Corymbia maculata	3.6	2.3	Retain - generic plus	2 Percival Road	Delete cut and fill from the TPZ. No works are to exceed an encroachment of greater than 15% of the TPZ. Where this may occur, root investigations will	TPZ Fencing

REV	DESCRIPTION	DATE
A	DRAFT - NOT FOR CONSTRUCTION	21/06/2024
B	DRAFT - NOT FOR CONSTRUCTION	24/06/2024
C	DRAFT - NOT FOR CONSTRUCTION	28/10/2024
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