Arboricultural Impact Assessment

Lismore South Public School – Flood Recovery Rebuild

Department of Education

5 June 2025

→ **The Power of Commitment**

School Name:	Lismore South Public School	**Company Name:**	GHD Pty Ltd
School ID:	2409	**Report Status:**	Final
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Acknowledgement of Country

GHD acknowledges Aboriginal and Torres Strait Islander peoples as the Traditional Custodians of the land, water and sky throughout Australia on which we do business. We recognise their strength, diversity, resilience and deep connections to Country. We pay our respects to Elders of the past, present and future, as they hold the memories, knowledges and spirit of Australia. GHD is committed to learning from Aboriginal and Torres Strait Islander peoples in the work we do.

Contents

Table index

Figure index

Appendices

Abbreviations and acronyms

Abbreviation/acronym	Definition
AQF	Australian Qualification Framework
AS	Australian Standard
cm	Centimetre
COLA	Covered outdoor learning area
DBH	Diameter at breast height
DoE	Department of Education
DOF	Diameter over root flare
GDA94	Geocentric Datum of Australia 1994
ha	Hectare
IACA	Institute of Australian Consulting Arboriculturists
LSPS	Lismore South Public School
m	Metre
NSW	New South Wales
REF	Review of Environmental Factors
SRZ	Structural Root Zone
STARS	Significance of a Tree, Assessment Rating System
SULE	Safe useful life expectancy
T&I SEPP	State Environmental Planning Policy (Transport and Infrastructure) 2021
AS4970-2009	Australian Standard 4970-2009: *Protection of Trees on Development Sites*
TPZ	Tree Protection Zone
UTM	Universal Transverse Mercator
VTA	Visual tree assessment

1 Introduction

This Arboricultural Impact Assessment report has been prepared to support a Review of Environmental Factors (REF) for the rebuild of LSPS (the Activity). The purpose of the REF is to assess the potential environmental impacts of the activity prescribed by State Environmental Planning Policy (Transport and Infrastructure) 2021 (T&I SEPP) as “development permitted without consent” on land carried out by or on behalf of a public authority under Part 5 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The activity is to be undertaken pursuant to Chapter 3, Part 3.4, Section 3.37 of the T&I SEPP.

The Activity will be carried out at LSPS located 69-79 Kyogle Street, South Lismore (the Site).

GHD Pty Ltd was engaged by the NSW Department of Education (DoE) to prepare this Arboricultural Impact Assessment report in relation to trees potentially impacted as a result of the proposed demolition and reconstruction of the LSPS. The objective of the arboricultural impact assessment is to provide the basis for retention or removal of trees in proximity to the Activity during construction with particular regard to:

– Tree Protection Zones (TPZ) area and requirements for tree preservation as detailed in Australian Standard 4970-2009: *Protection of Trees on Development Sites* (AS4970-2009).
– Likely direct and indirect impacts associated with the proposed works.

This Arboricultural Impact Assessment includes:

– The identification of hazards/risks to retained trees associated with the proposed works.
– The calculation of TPZ and Structural Root Zones (SRZ) for all trees that may be directly or indirectly impacted by the proposed works. These calculations will be in accordance with the AS4970-2009.
– A list of trees to be retained and those that would require removal as part of the development of the site.
– The tree retention value of surrounding trees that may be impacted by the Activity.
– Preparation of a tree protection plan to identify protection works such as exclusion zones and trunk guards to reduce the impact of development on the retained trees.
– Identification whether the potential impact of the works on retained trees is none, low, moderate, or major.

All trees described herein occur on the eastern parcel of LSPS and the adjacent road reserves (Project area). Tree details, including current health, structural conditions, dimensions, and retention value are included within the Preliminary Tree Assessment report (GHD, 2024). This Arboricultural Impact Assessment report identifies the impact of the proposed demolition and reconstruction of the LSPS on trees recommended for retention within the Subject site.

Retained trees are afforded protection measures prior to, during and post construction as required by the AS4970-2009. The measures for tree protection detail what is required to avoid any long-term damage to both the structural integrity and the functional implications of retained trees throughout the term of development. AS4970-2009 provides guidance for:

– A balanced approach on deciding which trees are appropriate for retention.
– Effects of trees on design considerations.
– Means of protection and monitoring retained trees during development.

1.1 Terminology

The following terminology used throughout the report is outlined in Table 1.1.

Table 1.1 Terminology

Term	Definition
The Activity	The proposed upgrade of the school facilities.
Building footprint	The building footprint represents Activity works that will potentially impact trees through demolition or construction.
The Site	The Site represents both western and eastern parcels of LSPS.
Project area	The Project area represents the extent of LSPS including the adjacent road corridor along Wilson, Phyllis, and Kyogle Streets.
Subject site	The Subject site is the eastern portion of the LSPS to the east of Wilson Street.

1.2 Purpose of this report

The purpose of this Arboricultural Impact Assessment report is to identify those trees that could be retained and those required to be removed as part of the Activity works. The finalised detailed design of the rebuild and the retention value of trees that occur on the grounds of LSPS identified the trees on the Subject site that would require removal and those that could be retained and protected. A tree protection plan for proposed retained trees is included as part of this Arboricultural Impact Assessment report.

1.3 Scope and limitations

This report: has been prepared by GHD for Department of Education and may only be used and relied on by Department of Education for the purpose agreed between GHD and Department of Education as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Department of Education arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on information obtained during a site inspection at LSPS on 8th and 9th of July. Investigations undertaken in respect of this report are constrained by the particular site conditions encountered at the time of inspection. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section(s) 1.1 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

Accessibility of documents

If this report is required to be accessible in any other format, this can be provided by GHD upon request and at an additional cost if necessary.

1.4 Site description

The Site, located at 69-79 Kyogle Street, South Lismore, consists of two separate land parcels situated on either side of Wilson Street. The Activity will be undertaken within the Subject site on the eastern parcel, where most of the school's existing structures are located. The western parcel contains sports fields and temporary learning facilities. Figure 1.1 outlines the school’s boundary, covering approximately 2.5 ha. Due to flood damage, the existing buildings on the eastern parcel are currently unused, and students are temporarily using facilities on the sports field and oval, located on the western side of Wilson Street, adjacent to the primary school.

Figure 1.1 Aerial image of site (Source: Nearmap)

1.5 Project activity description

The proposed activity comprises the rebuild of the LSPS on the eastern parcel of the existing site, in South Lismore, and will be delivered in a single stage. The western parcel is out of the scope of the activity. Any works required on the western parcel (such as removal of demountable classrooms) will be subject to separate approval (if required).

A detailed description of the proposal is as follows:

1. Retention of the existing play equipment, Building K and covered outdoor learning area (COLA) on the western parcel.
2. Bulk earthworks, comprising fill and excavation and other site preparation works on the eastern parcel.
3. Construction of a new building on the eastern parcel for LSPS including:
    a. A one storey building (with undercroft areas below) fronting Kyogle Street containing a general learning space (GLS) hub, hall, library, support hub, administration, and pre-school.
    b. Undercroft outdoor learning areas as well as amenities and storage located on ground level.
4. Landscaping and public domain works, including tree planting, a games court in the southeast corner and an outdoor playing area adjacent to the preschool.
5. A car park on the eastern side of the site, with access from Kyogle Street.
6. Waste collection area access from Kyogle Street.
7. Multiple entrance points, including:
    a. Primary and secondary entries distributed on site frontages.
    b. Vehicular access point to provide access to waste collection/delivery areas and car parking.
8. Ancillary public domain mitigation measures.

The scope of works is shown in Figure 1.2.

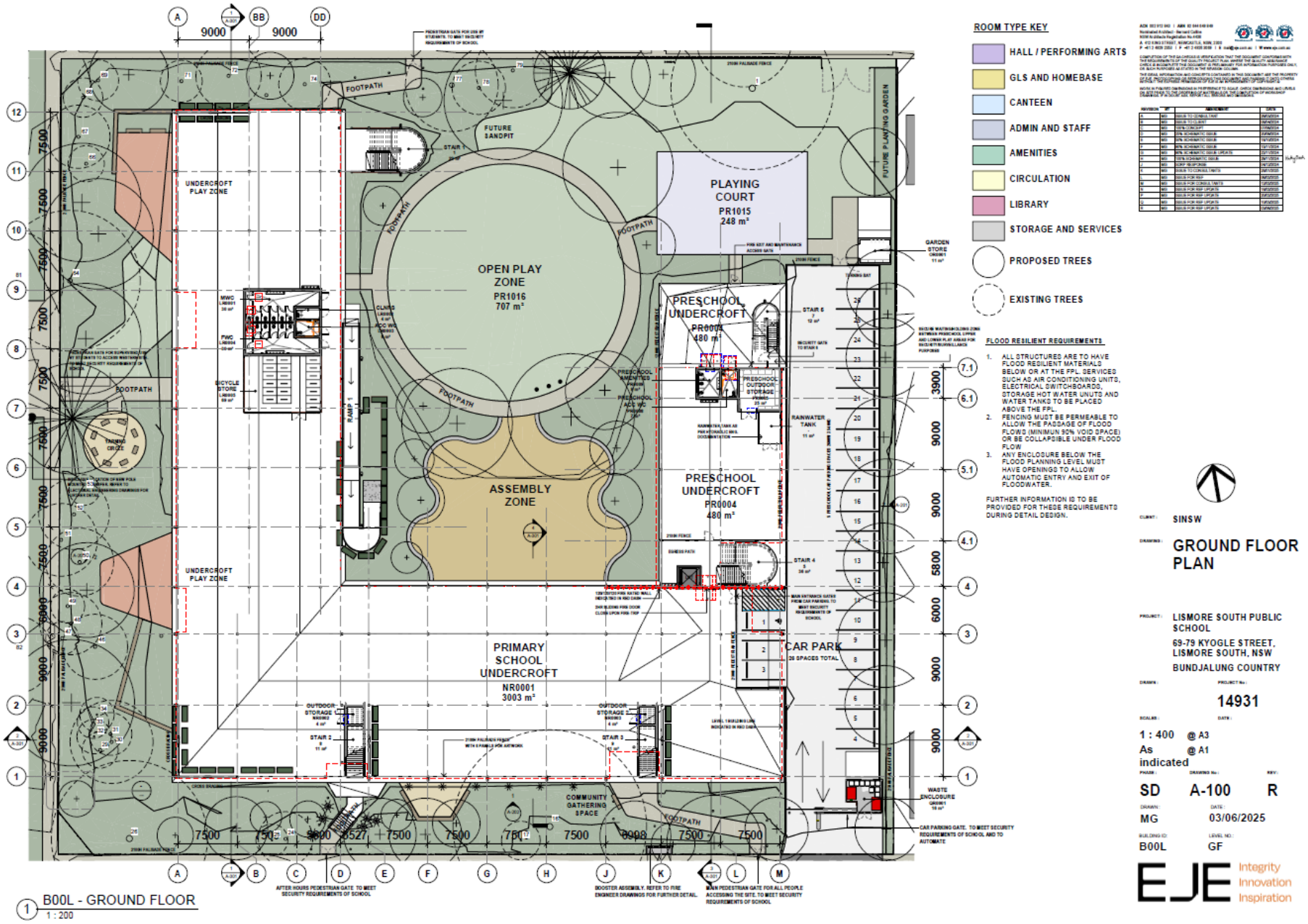

Figure 1.2 Proposed site plan (Source: EJE Architecture, June 2025)

1.6 Project locality

The Site has a street address of 69-79 Kyogle Street, Lismore and comprises of two land parcels located on the eastern and western sides of Wilson Street. It is 2.2 ha in area, and comprises 14 allotments, legally described as per Table 1.2.

Table 1.2 Lots contained within the school boundaries, categorised into the eastern and western parcels

Eastern Parcel	Western Parcel
Lot 21, Section 1, DP448737	Lot 20, Section 2, DP448737
Lot 22, Section 1, DP448737	Lot 21, Section 2, DP448737
Lot 23, Section 1, DP448737	Lot 22, Section 2, DP448737
Lot 1, DP64010	Lot 23, Section 2, DP448737
Lot 26, Section 1, DP448737	Lot 24, Section 2, DP448737
Lot 1, DP158407	Lot 25, Section 2, DP448737
Lot 2, DP158407	Lot 26, Section 2, DP448737

The eastern parcel contains the existing LSPS buildings and facilities. The buildings were significantly impacted by the 2022 floods and have been deemed to be no longer fit for purpose. For this reason, presently, students are utilising temporary learning facilities located on the sports field and oval on the western side of Wilson Street.

The western parcel contains a sporting field, covered outdoor learning area (COLA) and amenities as well as the abovementioned temporary learning facilities.

The Subject site is bounded by Kyogle Street to the south and Phyllis Street to the north, surrounded by residential lots to the east and west (Figure 1.3). The Subject site sits near the convergence of Leycester Creek (530 m north of the school) and the Wilsons River (720 m east of the site). There are existing trees located around the perimeter of both parcels. The eastern parcel also contains trees scattered across the core of the site, interspersed between buildings.

Paper Size ISO A4

0 10 20 30 40 50

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 56

School Infrastructure NSW
Arboricultural Impact Assessment
Lismore South Public School

Project No. **12640941**
Revision No. **0**
Date **29/11/2024**

Project locality

FIGURE 1.3

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Print date: 29 Nov 2024 - 15:30

Data source: Carto Light: (c) OpenStreetMap contributors, (c) CARTO
Nearmap WMS Server: extracted 29/11/2024. GHD; project area (2024); SDS: roads, property boundary (2024).
Created by: mvandermerwe

2 Methods

2.1 Tree assessment

The arboricultural impact assessment included the assessment of the calculated TPZs and retention values to allow a determination of removal or retention for each tree within the Subject site. The assessment is based on the detailed design and the preliminary inspection of the trees within or in proximity to the Subject site undertaken on 8th and 9th of July 2024 by GHD consulting arborist Andrew Franks (AQF level 8). Details of this preliminary tree assessments are detailed within the Preliminary Tree Assessment report (GHD, 2024). As part of the preliminary assessment, 82 were assessed within the Project area. Of these 82 trees, 79 are located within the Subject site. The remaining three trees occurred within the adjacent road corridor along Wilson and Phyllis Roads.

As part of the preliminary tree assessment, the TPZ and SRZ were calculated. These calculations were undertaken in accordance with AS4970-2009. Data gained through the preliminary tree assessment (GHD, 2024) also assisted with the determination of a retention value for each tree. The retention value of trees was determined with the use of the IACA Significance of a Tree, Assessment Rating System (STARS) (IACA 2010). The STARS approach involves defining a tree's significance in the landscape (as high, medium or low) and using this significance rating and estimated life expectancy to determine its retention value (IACA 2010). Derived retention values are independent of any development proposed for the Subject site. This unbiased approach to evaluating trees allows for the highest quality trees to be retained, which will be capable of tolerating the impacts associated with the development of the site.

A review of the relevant design drawings, discussion with ADCO, and results of the Preliminary Tree Assessment report (GHD, 2024) were undertaken to assist with determining the extent of construction impact and ascertain how the identified impacts might be mitigated to promote continued health and stability of retained trees. The detailed design drawing of the Activity was georeferenced within a GIS environment to allow an estimation of the degree of encroachment of the building footprint into the TPZ of each tree recommended for retention

The following factors have also been considered in assessing the possible impacts of the proposed Activity of the site on the surveyed trees:

– Direct and indirect impacts associated with the proposed works.
– Infrastructure placement.
– TPZ area and requirements for tree preservation as detailed in AS4970-2009.
– Future above and below ground management of retained trees.

2.2 Limitations

This assessment is limited to the detailed design supplied in June 2025. The detailed design drawing of the proposed activity was georeferenced within a GIS environment. It should be noted that the georeferencing process is not accurate with the degree of encroachment into the TPZ of retained trees indicative rather than absolute.

No aerial inspection of trees was undertaken as part of this assessment. Defects not apparent from the ground level visual inspection are therefore excluded from any discussion within this report. No decay detection equipment, root excavation, soil or plant material samples were collected for laboratory analysis.

2.3 Coordinate system and map datum

Locations were recorded using the UTM coordinate system with a GDA94 datum. All location presented in this report are within UTM zone 56J and have an accuracy between 4-8 m.

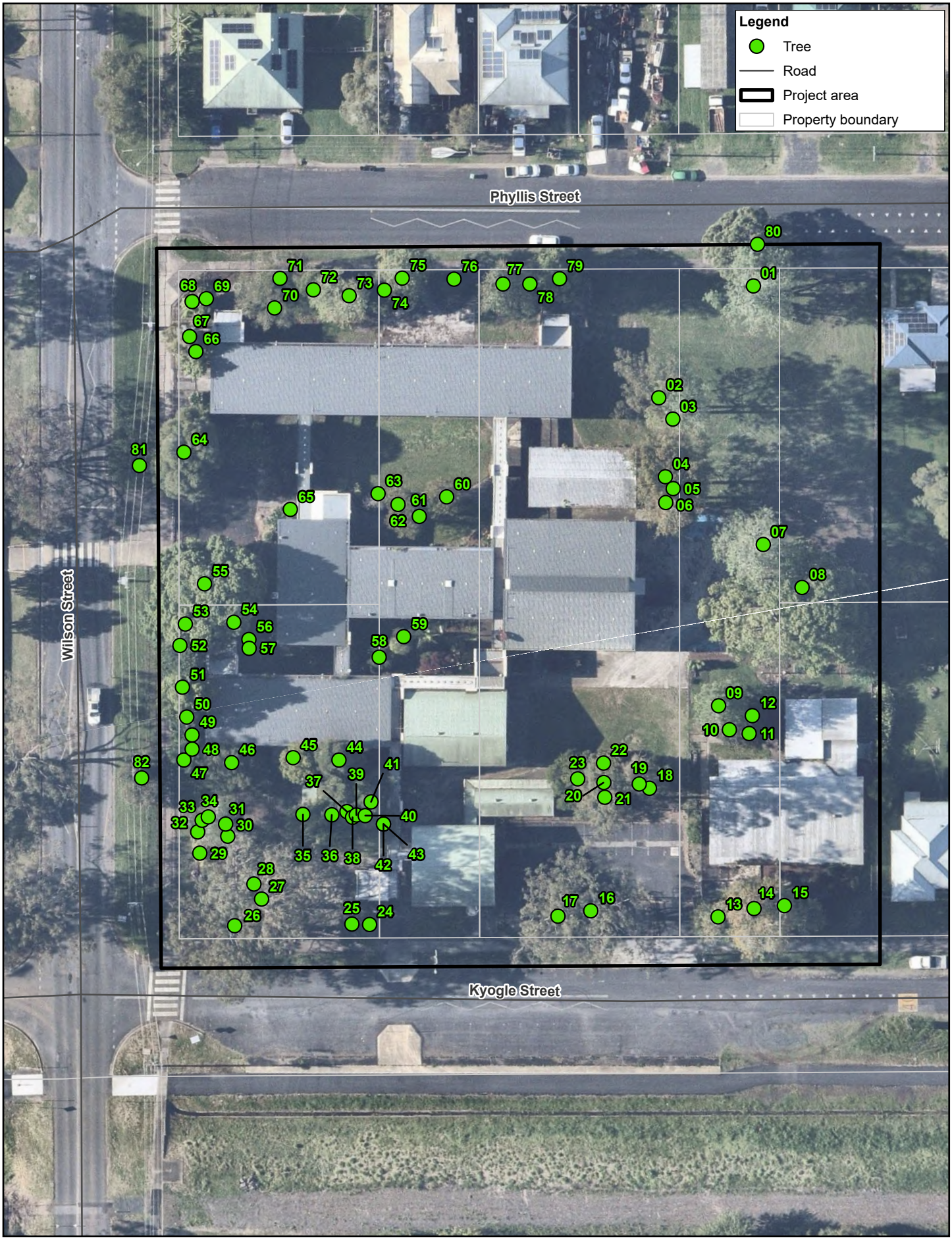
2.4 Nomenclature

Scientific names for terrestrial flora are consistent with those used in the New South Wales Flora Online and botanical binomials presently accepted by the National Herbarium of New South Wales (NSW).

3 Results

3.1 Overview

A total of 82 trees were assessed within the Project area, 79 located within the Subject site and three trees occurred outside the school grounds within the adjacent road corridor along Wilson and Phyllis Roads (Figure 3.1). Dimensions of these trees appear in Appendix A. Out of the 79 trees assessed within the Subject site, three were exotic and 76 native to Australia. Through the results of the preliminary tree assessment (GHD, 2024), seven trees were assigned to a high, 33 to a medium and 42 to a low retention value (Figure 3.1). These retention values are independent of any development proposed for the site.



Paper Size ISO A4

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Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 56

N

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Project No. **12640941**
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Tree locations and retention value

FIGURE 3.1

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Print date: 29 Nov 2024 - 15:30

Data source: Nearmap WMS Server: extracted 29/11/2024. GHD; project area, assessed trees (2024); SDS: roads, property boundary (2024).
Created by: mvandermerwe

3.2 Trees to be retained and protected

Thirty-three trees suitable for retention occur within the LSPS Project area (Figure 3.2). Trees identified as "suitable for retention" generally fall outside of the building footprint. The potential impact within the TPZ of the retained trees is anticipated to be able to be managed during construction so that the long-term tree health is likely to be maintained. The calculated TPZ radius for all proposed retained trees is also listed in Table 3.1 including the degree of any encroachment. As stated previously in Section 2.2, the degree of encroachment into the TPZ of retained trees is only indicative.

The majority of the proposed retained trees occur around the boundary of the building footprint. One large *Corymbia variegata* (spotted gum) tree (tree #26) occurring to the south-west of the Subject site is also proposed to be retained. The proposed Activity would have encroachment into the TPZ of several individuals as indicated in Table 3.1. However, it is believed that careful construction measures and implementation of the tree protection plan will benefit the long-term health of these individuals. All trees recommended for retention in proximity to the Activity will need to be clearly indicated prior to any works beginning on the site.

Table 3.1 Details of trees recommended for retention within the LSPS site

Tree #	Tree Species	Common Name	Retention Value	TPZ (m)	TPZ Area (m^2)	Encroachment into TPZ (%)	Degree of Encroachment	SRZ (m)	SRZ Area (m^2)	Proposed works within TPZ	Comments
01	*Grevillea robusta*	Silky oak	High	10.5	348.8	2	Minor	3.2	33.0	Within mass planting area.	Minor encroachment by playing court hardscape.
16	*Corymbia variegata*	Spotted gum	High	10.9	371.4	25	Major	3.4	36.8	Pedestrian entrance from Kyogle Street and Main Undercover Playground.	Construction within TPZ. TPZ can be extended east west to compensate encroachment. Root investigation may be required. Use of hydro excavation within TPZ.
17	*Acacia holosericea*	Wattle	Low	2.4	17.9	None	None	2.0	12.0	Incorporation of tree into garden bed.	Works outside of TPZ.
24	**Viburnum odoratissimum*	Sweet viburnum	Low	3.0	28.9	1	Minor	2.1	14.2	Pedestrian entrance from Kyogle Street Within mass planting area	Works largely outside of TPZ.
25	*Syzygium australe*	Bush cherry	Low	2.0	9.1	31	Major	1.7	8.8	Yarning Circle. Within mass planting area	Yarning circle encroachment not considered to be detrimental to tree wellbeing.
26	*Corymbia variegata*	Spotted gum	High	9.5	285.9	None	None	3.1	30.9	None	Works outside of TPZ.
29	*Melaleuca leucadendra*	Weeping paperbark	Medium	2.7	22.5	None	None	1.8	10.6	None	Works outside of TPZ.
30	*Allocasuarina torulosa*	Forest she-oak	Medium	5.3	89.6	7	Minor	2.6	21.5	Nature and Sensory Play area	Nature and Sensory Play area encroachment not considered to be detrimental to tree wellbeing.
31	*Allocasuarina torulosa*	Forest she-oak	Low	2.0	12.6	3	Minor	1.5	4.6	Nature and Sensory Play area	Nature and Sensory Play area encroachment not considered to be detrimental to tree wellbeing.
32	*Melaleuca linariifolia*	Snow-in-summer	Low	2.0	12.6	None	None	1.6	7.7	None	Works outside of TPZ.
33	*Allocasuarina torulosa*	Forest she-oak	Low	2.0	12.6	None	None	1.5	4.8	None	Works outside of TPZ.
34	*Allocasuarina torulosa*	Forest she-oak	Low	2.0	12.6	None	None	1.6	7.7	None	Works outside of TPZ.

Tree #	Tree Species	Common Name	Retention Value	TPZ (m)	TPZ Area (m^2)	Encroachment into TPZ (%)	Degree of Encroachment	SRZ (m)	SRZ Area (m^2)	Proposed works within TPZ	Comments
47	**Lagerstroemia indica*	Crepe myrtle	Low	2.0	12.6	None	None	2.0	12.3	None	Works outside of TPZ.
48	*Xanthostemon chrysanthus*	Golden penda	Medium	2.4	18.3	None	None	2.2	14.9	None	Works outside of TPZ.
49	*Syzygium australe*	Bush cherry	Low	2.0	12.6	None	None	1.5	6.5	None	Works outside of TPZ.
50	*Syzygium australe*	Bush cherry	Low	2.0	12.6	None	None	1.8	10.1	None	Works outside of TPZ.
51	*Waterhousea floribunda*	Weeping lily pilly	Medium	4.1	52.0	None	None	2.4	17.8	None	Works outside of TPZ.
52	*Cupaniopsis anacardioides*	Tuckeroo	Medium	3.9	48.7	None	None	2.2	15.4	None	Works outside of TPZ.
53	*Syzygium australe*	Bush cherry	Low	2.0	12.6	None	None	1.5	6.6	None	Works outside of TPZ.
64	*Melaleuca styphelioides*	Prickly-leaved tea tree	Medium	9.8	304.2	21	Major	3.0	28.2	Active play and exploration area	Surface of active play and exploration area will be wood chip softfall and not considered to be detrimental to tree wellbeing.
66	*Syzygium australe*	Bush cherry	Medium	2.3	17.0	None	None	1.9	11.3	None	Works outside of TPZ.
67	*Melaleuca leucadendra*	Weeping paperbark	Low	3.9	47.2	None	None	2.2	15.2	None	Works outside of TPZ.
68	*Podocarpus elatus*	Illawarra plum	Low	2.7	22.7	None	None	1.8	10.4	None	Works outside of TPZ.
69	*Syzygium australe*	Bush cherry	Medium	2.0	12.9	10	Minor	1.7	9.1	Active play and exploration area	Will be incorporated into mass planting area. Surface of active play and exploration area will be wood chip softfall and not considered to be detrimental to tree wellbeing.
71	*Callistemon viminalis*	Weeping bottlebrush	Low	2.2	15.2	None	None	1.9	11.4	None	Works outside of TPZ.
72	*Melaleuca styphelioides*	Prickly-leaved tea tree	Medium	4.1	52.2	31	Major	2.3	17.1	Undercover pick-up/drop off zone	Construction within TPZ. TPZ can be extended away from encroachment to compensate. Root investigation may be required.
76	*Callistemon viminalis*	Weeping bottlebrush	Low	3.7	42.1	0	None	2.2	14.6	None.	Part of mass planting area.
77	*Grevillea robusta*	Silky oak	Medium	6.8	147.0	5	Minor	2.8	24.2	Pathway and four seasons benches.	Construction within TPZ. TPZ can be extended east and west to compensate encroachment.

Tree #	Tree Species	Common Name	Retention Value	TPZ (m)	TPZ Area (m^2)	Encroachment into TPZ (%)	Degree of Encroachment	SRZ (m)	SRZ Area (m^2)	Proposed works within TPZ	Comments
78	*Syzygium australe*	Bush cherry	Medium	3.3	34.1	None	None	2.2	14.9	None	Works outside of TPZ.
79	*Syzygium australe*	Bush cherry	Medium	4.4	60.3	5	Minor	2.6	21.0	Pathway and four seasons benches..	Construction within TPZ. TPZ can be extended east and west to compensate encroachment.
80	*Melaleuca bracteata*	Black tea tree	High	6.1	118.6	None	None	2.7	23.3	None	Street tree
81	*Callistemon viminalis*	Weeping bottlebrush	Medium	5.7	102.5	None	None	2.6	21.1	None	Street tree
82	*Callistemon viminalis*	Weeping bottlebrush	Medium	4.5	62.3	None	None	2.4	18.0	None	Street tree

Notes: * = non-native, exotic species. DBH (cm) is the diameter at breast height (1.4m from ground level). DOF (cm) is the diameter of the trunk above the root flare. TPZ (m) is the tree protection zone in metres in a radius from the centre of the trunk. SRZ (m) is the structural root zone in metres in a radius from the centre of the trunk

3.3 Trees to be removed

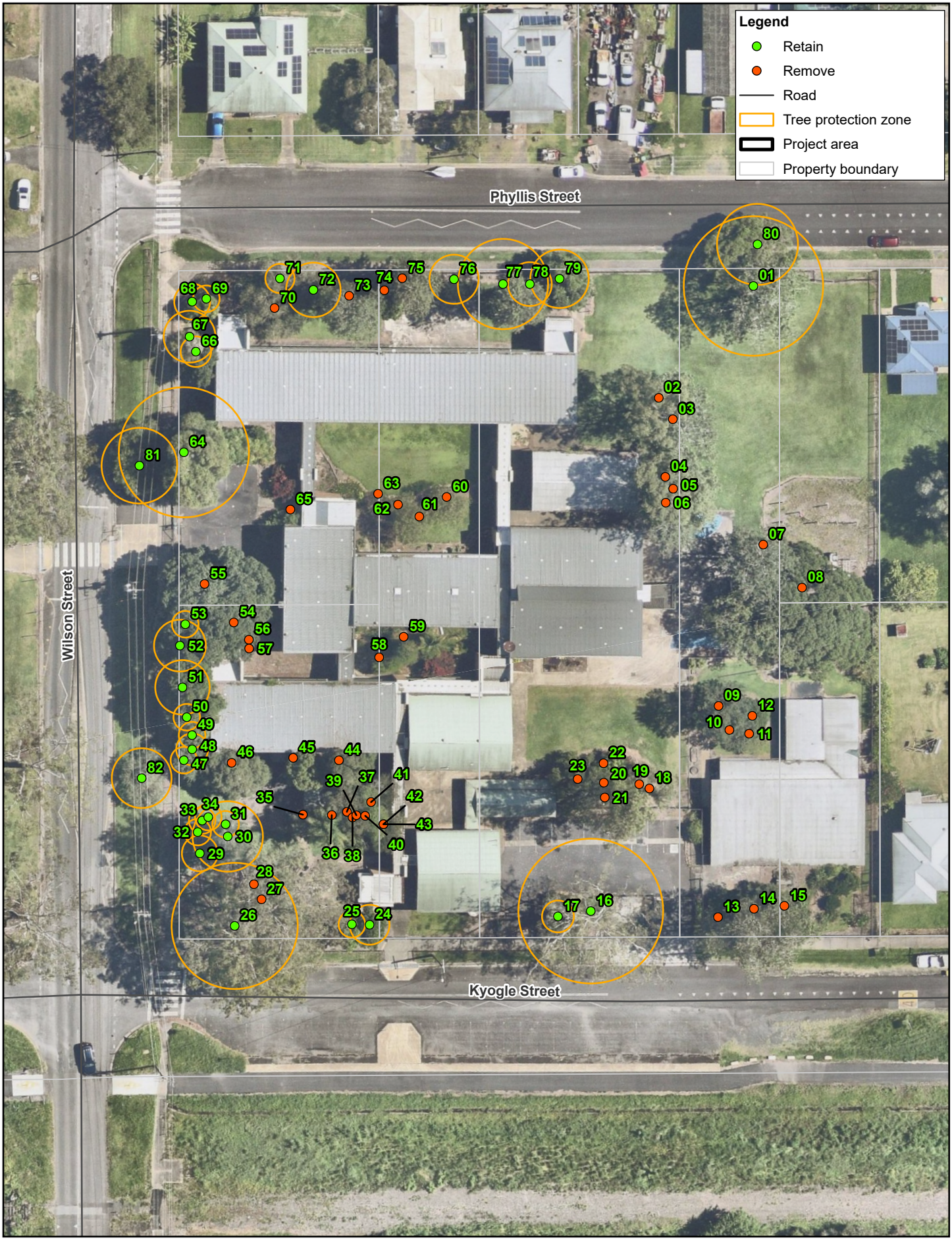
In total 49 trees are recommended for removal due to their location within the building footprint or having major conflict with the proposed construction activities particularly within their protection zones (EJE Architecture, 2025; Terres Landscape Architects, 2025). All trees recommended for removal are listed in Table 3.2**.** These individuals can be replaced with new plantings in accordance with the landscape master plan (Terres Landscape Architects, 2025). Three high retention value trees are recommended for removal (trees #02, #14 and #27). Trees #02 and #27 will require removal during demolition and remediation of contaminated soils. Tree #14 will be removed to allow access to carparking area from Kyogle Street. The impact associated with the loss of these high value trees will be offset by the landscape plantings associated with the reconstruction.

Table 3.2 Details of trees recommended for removal within the LSPS site.

Tree #	Species	Common name	Height (m)	Height to lower canopy (m)	Canopy spread (m)	Comments	Retention Value
02	*Corymbia variegata*	Spotted gum	27.0	6.0	9.8	Remove for access	High
03	*Grevillea robusta*	Silky oak	24.5	2.5	9.1	Remove for access	Medium
04	*Corymbia variegata*	Spotted gum	22.3	2.0	10.6	Within construction footprint.	Medium
05	*Grevillea robusta*	Silky oak	21.6	4.0	10.3	Within construction footprint.	Medium
06	*Melaleuca leucadendra*	Weeping paperbark	16.8	1.9	7.9	Within construction footprint.	Medium
07	*Grevillea robusta*	Silky oak	25.1	3.0	12.4	Within construction footprint.	Medium
08	**Cinnamomum camphora*	Camphor laurel	18.5	1.6	1.6	Within construction footprint	Low
09	*Grevillea robusta*	Silky oak	15.6	1.5	7.4	Within construction footprint.	Medium
10	*Grevillea* sp.	Grevillea	6.8	2.0	4.8	Within construction footprint.	Low
11	*Callistemon viminalis*	Weeping bottlebrush	4.6	1.7	4.2	Within construction footprint.	Low
12	*Syzygium australe*	Bush cherry	6.7	1.6	5.9	Within construction footprint.	Low
13	*Grevillea robusta*	Silky oak	19.8	4.0	6.6	Remove for access	Medium
14	*Grevillea robusta*	Silky oak	22.9	3.0	13.7	Remove for access	High
15	*Podocarpus elatus*	Illawarra plum	10.8	1.0	9.3	Remove for access	Medium
18	*Eucalyptus microcorys*	Tallowwood	24.6	7.0	6.5	Within construction footprint.	Low
19	*Melaleuca leucadendra*	Weeping paperbark	26.2	3.0	6.5	Within construction footprint.	Low
20	*Eucalyptus microcorys*	Tallowwood	30.6	8.0	7.6	Within construction footprint.	Medium
21	*Eucalyptus microcorys*	Tallowwood	20.5	7.0	9.0	Within construction footprint.	Medium
22	*Waterhousea floribunda*	Weeping lilly pilly	6.3	0.0	4.3	Within construction footprint.	Low
23	*Cupaniopsis anacardioides*	Tuckeroo	10.2	1.4	9.5	Within construction footprint.	Medium
27	*Corymbia variegata*	Spotted gum	34.3	4.0	16.3	Remove for access	High
28	*Corymbia variegata*	Spotted gum	29.3	11.0	12.5	Remove for access	Medium

Tree #	Species	Common name	Height (m)	Height to lower canopy (m)	Canopy spread (m)	Comments	Retention Value
35	*Callistemon viminalis*	Weeping bottlebrush	7.7	1.8	5.1	Within construction footprint.	Low
36	*Callistemon viminalis*	Weeping bottlebrush	6.4	0.6	3.3	Within construction footprint.	Low
37	*Melaleuca quinquenervia*	Broad-leaved paperbark	12.5	6.0	4.7	Within construction footprint.	Medium
38	*Syzygium* sp.	Lilly pilly	8.7	1.9	3.7	Within construction footprint.	Low
39	*Xanthostemon chrysanthus*	Golden penda	8.6	0.5	4.5	Within construction footprint.	Medium
40	*Tristaniopsis laurina*	Water gum	9.3	2.0	6.9	Within construction footprint.	Medium
41	*Syzygium australe*	Bush cherry	4.5	1.4	3.6	Within construction footprint.	Low
42	*Syzygium australe*	Bush cherry	5.1	2.5	5.7	Within construction footprint.	Low
43	*Syzygium australe*	Bush cherry	7.8	2.0	6.8	Within construction footprint.	Low
44	*Melaleuca styphelioides*	Prickly-leaved tea tree	14.2	1.8	8.2	Within construction footprint.	Low
45	*Xanthostemon chrysanthus*	Golden penda	10.2	1.7	6.5	Within construction footprint.	Medium
46	*Melaleuca styphelioides*	Prickly-leaved tea tree	9.7	1.8	10.1	Remove for access	Low
54	*Waterhousea floribunda*	Weeping lilly pilly	4.6	0.2	4.2	Remove for access	Low
55	**Cinnamomum camphora*	Camphor laurel	19.8	1.6	1.6	Within construction footprint	Low
56	*Syzygium australe*	Bush cherry	3.3	0.5	2.6	Remove for access	Low
57	*Syzygium australe*	Bush cherry	3.3	0.5	2.7	Remove for access	Low
58	*Flindersia schottiana*	Bumpy ash	5.0	0.3	2.4	Within construction footprint.	Low
59	*Neolitsea australiensis*	Green bolly gum	13.4	1.5	3.6	Within construction footprint.	Low
60	*Callistemon viminalis*	Weeping bottlebrush	9.3	1.0	7.1	Within construction footprint.	Low
61	*Callistemon viminalis*	Weeping bottlebrush	9.3	1.8	5.4	Within construction footprint.	Low
62	*Callistemon viminalis*	Weeping bottlebrush	8.4	1.8	5.4	Within construction footprint.	Low
63	*Callistemon viminalis*	Weeping bottlebrush	6.7	1.9	3.6	Within construction footprint.	Low
65	*Clerodendrum tomentosum*	Hairy clerodendrum	5.1	2.0	2.4	Within construction footprint.	Low
70	*Callistemon viminalis*	Weeping bottlebrush	14.7	1.8	11.0	Within construction footprint.	Medium
73	*Grevillea robusta*	Silky oak	22.2	3.5	8.2	Within construction footprint.	Medium
74	*Syzygium australe*	Bush cherry	6.3	1.9	6.6	Remove for access	Low
75	*Grevillea robusta*	Silky oak	17.5	2.5	9.0	Within construction footprint. Major encroachment into TPZ.	Medium

Notes: * = non-native, exotic species.



Paper Size ISO A4

0 5 10 15 20

Metres

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 56

N

GHD

School Infrastructure NSW
Arboricultural Impact Assessment
Lismore South Public School

Tree locations for retention or removal

Project No. **12640941**
Revision No. **0**
Date **22/05/2025**

FIGURE 3.2

\\ghdnet\ghd\AU\Sydney\Projects\21\12640941\GIS\Maps\Deliverables\12640941_LismoreSchools_Arborist.aprx - 12640941_203_AIA_PS_TreeRetention
Print date: 22 May 2025 - 16:31

Data source: Nearmap WMS Server: extracted 22/05/2025. GHD; project area, assessed trees (2024); SDS: roads, property boundary (2024).
Created by: mvandermerwe

3.4 Impact Assessment

Maintaining the long-term health and vigour of retained trees on development sites requires an understanding of how susceptible trees are to direct and indirect impacts. In general, the following should be noted:

- Older trees are generally more at risk than younger trees and less able to withstand changes to landscape and soil conditions or pruning.
- The root system of most mature trees spread beyond the canopy drip-line with most roots typically found in the top 100 cm of the soil profile.
- Alteration to the soil levels within the TPZ will normally result in damage or death to root systems resulting in a decline in the condition of the tree.
- Compaction of the soil profile through the operation of vehicles and machinery within the TPZ destroys the natural soil structure and porosity resulting in decreased aeration and loss of water absorption resulting in root death.
- Spillage of chemicals, fuels or cement within the TPZ will cause root death leading to a decline in the condition of the tree.

Tree protection measures need to be in place to ensure that those trees recommended for retention are incorporated into the general landscape and continue to provide ecological services once development of the site is completed. Recommended tree protection measures are detailed within the tree protection plan (Section 4) and summarised in the mitigation measures (Section 5).

Following the tree protection plan (Section 4) and mitigation measures (Section 5) from this report will ensure the Activity will not have a significant impact on the environment surrounding the retained trees.

4 Tree Protection Plan

Thirty-three trees are recommended for retention within the Project area. All of the trees proposed to be retained require exclusion of construction works within their delineated protection zones, in particular those that occur close to the building and construction footprint. This Tree Protection Plan identifies methods that should be implemented in order to retain the trees on site in accordance with AS4970-2009.

Impacts on trees during development and construction can be direct or indirect. Direct damage includes mechanical injury to the trunk, severing of roots or alterations of the soil environment in the immediate vicinity of tree roots (i.e. compaction or loss of organic matter). Indirect effects of development are usually related to changes to exposure or soil hydrology. This includes alterations to soil moisture content, changes to the level of the water table and drainage patterns (Coder 1996). Fencing and other tree protection measures during construction will be required to ensure ongoing health and stability of retained trees on the site.

4.1 Tree protection in the construction phase

Prior to the commencement of any construction works at the Subject site (including demolition of existing infrastructure), a suitably qualified consulting arborist shall be appointed to supervise all tree protection procedures detailed in this report. The consulting arborist shall have a minimum level 5 AQF qualification in arboriculture and will undertake all appropriate arboricultural measures to ensure the survival and long-term health of retained trees. They will also liaise directly with construction personal and be responsible for completing certification of tree and root protection measures throughout the various stages of construction.

4.1.1 Establishing the TPZ

The TPZ assists with the protection of retained trees from mechanical injury to the trunk, severing of roots, or alterations of the soil environment in the immediate vicinity of tree roots (i.e., compaction or loss of organic matter). The TPZ is defined in AS4970-2009 as the principle means of protecting trees on development sites. The TPZ is the combination of crown and root area requiring protection. It is an area isolated from direct construction disturbances so that the tree remains viable in the long term. AS4970-2009 defines the SRZ as the area required for ongoing tree stability of the tree. However, an area larger than the SRZ is required to maintain a viable tree. The SRZ is only required to be calculated when greater than 10% encroachment into the TPZ is proposed. No disturbance is to take place within the SRZ. Table 3.1 includes the TPZ and SRZ radius required to protect retained trees within the LSPS Project area.

In certain situations, it is possible to encroach into or make variations to the calculated TPZ. Encroachment may include but is not limited to excavation, compacted fill and machine trenching. The encroachment into the TPZ can be classed as either minor (i.e., less than 10%) or major (i.e., greater than 10%). If the proposed encroachment into the defined TPZ is determined to be minor and is outside of the SRZ then detailed root investigations are usually not required. The area lost to encroachment can be offset elsewhere and be contiguous with the TPZ. If encroachment into the TPZ is determined to be major or is inside the SRZ then the consulting arborist must demonstrate that the impacted trees would remain viable. The area lost to encroachment can be offset elsewhere and be contiguous with the TPZ. There may also be a requirement for root investigation by non-destructive methods and consideration of the relevant factors listed in AS4970-2009.

Characteristics of individual trees, particularly irregular canopies and root spread may allow for modification of calculated TPZs (Figure 4.1). Guidance on the potential to modify protection zones of retained trees should be sought from the consulting arborist.

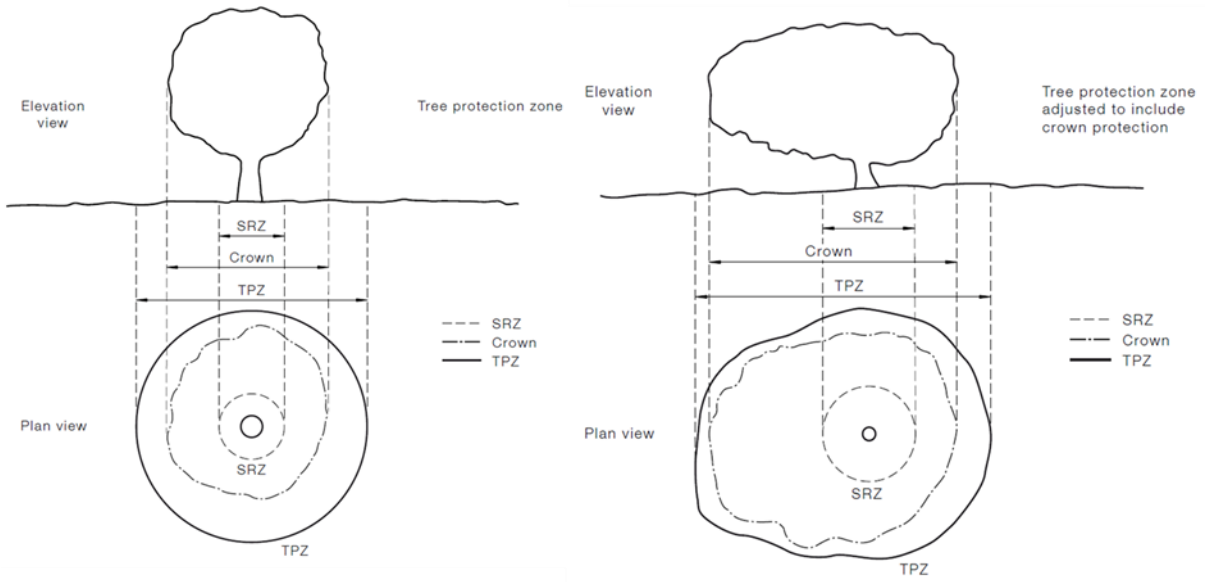


Figure 4.1 Indicative TPZs for regular and irregular canopies (Source: AS4970-2009)

All tree protection measures must conform to AS4970-2009. TPZ guidelines need to apply to all stages of the design and construction process. The following procedures will be followed:

- Temporary fencing will be erected around the edge of the determined TPZs prior to any works on the subject lot including demolition, site preparation and construction (Figure 4.2).
- At a minimum TPZ fencing should be rigid (chain link or mesh), no less than 1.8 m in height, and be robust enough to provide sufficient protection for the duration of the project for the trees nominated for retention. Fencing should be firmly attached to a removable concrete or similar base.
- Signs labelled “Tree Protection Zone – Keep Out”, or similar, must be placed at regular intervals along the TPZ fence prior to construction and be visible from all sides (Figure 4.3).
- The TPZ fencing must be maintained in good condition and remain in place at all times for the duration of the construction phase.
- TPZ fencing will not be repositioned or interfered with during the construction phase unless approved by the consulting arborist.
- TPZ fencing will only be removed once the construction phase has been completed.
- Where approved works encroach within TPZs, the fence must be repositioned as close to the works as is practically possible.
- The TPZ area should be mulched to a depth of 100 mm with suitable composted mulch. The depth of mulch should be maintained for the duration of the construction phase and the mulched area kept weed free.
- No filling or excavation is to occur within TPZs except as approved by the responsible authority. Any roots encountered when excavating must be cut cleanly with a pruning saw.
- The existing ground level and soil profile will be maintained within the designated TPZ.
- TPZ fencing must not restrict wildlife access to or from the retained tree.
- Unavoidable excavation within the TPZ will be undertaken via hydro excavation to minimise root damage. The consulting arborist must supervise any unavoidable excavation or construction works within TPZs. Where any structural roots (roots with a diameter of greater than >20 mm) are encountered by excavation, these are to be pruned. Clean, sharp pruning tools are to be used for pruning of structural roots and undertaken in consultation with the consulting arborist.

Figure 4.2 Example of appropriate TPZ fencing

Figure 4.3 Example of a tree protection sign (Source: AS4970-2009)

4.1.2 Excluded activities within the TPZ

Careful adherence to the following excluded activities within the TPZ will maintain the long-term condition of retained trees. In general, any activity that may impact on the tree, roots or natural environment of the soil will be excluded from the delineated TPZ.

- Construction activities that may have a detrimental impact on the retained tree are to be avoided, if possible, within the fenced TPZ.
- No soil disturbance to occur within the TPZ if possible. This includes compaction, stripping or grade changes.
- Materials and machinery are not to be stored in TPZs.
- Waste materials are not to be dumped within the TPZ. No residual herbicides are to be used within the TPZs.
- Underground utilities should be located outside of TPZs. However, if utilities must pass through these zones, then exploratory excavation works by a suitability qualified arborist may be required to verify root spread and determine the level of impact that could occur on the retained tree. Mechanical trenching within the TPZ should be avoided with trenching undertaken by hand or by vacuum excavation.
- No pedestrian access through and no parking of vehicles within the TPZ.
- All landscaping within TPZs must be on the existing soil grade and with minimal impervious surfaces.
- Where encroachments into a designated TPZ are unavoidable, further discussion with a consultant arborist will be required. This may include any measures that need to be implemented to mitigate any possible negative impacts on the retained tree.

4.1.3 Trunk protection

Trees that occur in proximity to the proposed construction zone may require trunk protection. This is particularly true for those individuals where TPZ may not be practical. In these cases, it is recommended that trunk protection measures also be implemented to protect the lower trunks during demolition and construction. Trunk protection will follow specifications detailed in AS4970-2009 and will include the following:

- At a minimum trunk height protection is to be 2 m.
- Tree padding shall be multiple layers of orange polypropylene woven mesh to a thickness of 2.5 cm.
- Tree padding will be held in place by untreated hardwood timber battens. These battens to be strapped to trees, not nailed or screwed, with a 5 cm spacing and 30 cm from ground level. Strapping will not be in direct contact with the bark.

4.1.4 Soil and root protection

Ground protection in accordance with AS4970-2009 may be required to protect soil and roots of some retained trees. Rumble boards or steel plates can be used to protect soil from compaction and to protect roots between the stages of demolition and construction of the new carpark. Where any structural roots (those with a diameter greater than 20 mm) are encountered by excavation, these are to be pruned with clean, sharp pruning tools by a suitably qualified arborist. If temporary access into any TPZ is required for machinery during construction, then ground protection measures would be required preventing soil compaction and root damage. Measures may include permeable membranes such as geotextile fabric beneath a layer of mulch or crushed rock below rumble boards.

4.1.5 Canopy works

Canopy works may be required on a number of the retained trees to gain access for high clearance vehicles during demolition or construction. Any remedial pruning should be done prior to the commencement of any demolition or construction works. Pruning works are likely to be restricted to the removal of any larger diameter deadwood (i.e. any dead branches 50 mm or greater in diameter) and/or the raising of the canopies where necessary for building or vehicle clearance or other reasons. Pruning works are to be undertaken by a suitably qualified and experienced arborist complying with the Australian Standard for the Pruning of Amenity Trees, AS4373-2007. Natural Target Pruning methods should be used wherever possible when removing sections from

retained trees. Lopping (as defined within AS4373-2007) is detrimental to trees, often resulting in decay and poorly attached epicormic shoots. As such, lopping should not be undertaken.

4.1.6 Tree removal

The removal of nominated trees from the development footprint as identified in this report should be undertaken in such a way that retained trees are protected during tree removal and site clean-up works. Tree removals/clearing works are to be undertaken in such a way as to prevent damage to above and below ground parts of retained trees. Stump and root material from a tree elected for removal that are growing in close association with a tree nominated for retention are to be cut to ground level or by other means deemed appropriate. Tree removals are to be undertaken by a suitably qualified and experienced arborist.

4.2 Tree protection in the post-construction phase

At completion of construction work, the consulting arborist will carry out an assessment of all trees retained and/or affected by the works. This assessment is to document condition of retained trees and any on-going remedial care required to ensure viable retention of trees affected. It is recommended that retained trees be assessed by a suitably qualified arborist immediately after completion of the project and then again 18 months after completion.

5 Mitigation measures

The measures outlined in Table 5.1 are to be implemented to avoid or minimise potential impacts

Table 5.1 Mitigation measures for the Activity

Mitigation number/name	Aspect/section	Mitigation measure	Reason for mitigation measure
Tree protection	Design	Minor redesign to accommodate retained trees.	Minimise the encroachment into the TPZ of retained trees.
Canopy works (if required)	Pre-construction	Pruning works are to be undertaken by a suitably qualified and experienced arborist complying with the Australian Standard for the Pruning of Amenity Trees, AS4373-2007. Natural Target Pruning methods should be used wherever possible when removing sections from retained trees.	Increasing viability of pruned trees if access for high clearance vehicles during demolition or construction is required.
Tree protection	Demolition and Construction	Installation of tree protection fencing to exclude construction from the TPZ. TPZ fencing will be installed as per Section 4.1.1.	Exclude construction measures impacting retained trees.
Tree removal	Demolition or Construction	Stump and root material from a tree elected for removal that are growing in close association with a tree nominated for retention are to be cut to ground level or by other means deemed appropriate. Tree removals are to be undertaken by a suitably qualified and experienced arborist.	Protection of retained trees during tree removal and site clean-up.
Soil and root protection (if required)	Demolition and Construction	Rumble boards or steel plates are to be used to between the stages of demolition and construction of the new carpark. Where any structural roots (those with a diameter greater than 20 mm) are encountered by excavation, these are to be pruned with clean, sharp pruning tools by a suitably qualified arborist. If temporary access into any TPZ is required for machinery during construction, then ground protection measures are required. Measures may include permeable membranes such as geotextile fabric beneath a layer of mulch or crushed rock below rumble boards.	Protect retained trees by preventing soil compaction and root damage.
Excavation within TPZ	Construction	Any unavoidable excavation within the demarked TPZ will be undertaken by hydro excavation. Any exposed roots >20 mm in diameter will be assessed by the appointed consulting arborist to determine if they require pruning.	Protect roots within TPZ by preventing root damage during unavoidable excavation.
Tree assessment	Post construction	Immediately after the completion of construction work and 18 months after, the consulting arborist will carry out an assessment of all trees retained and/or affected by the works.	The assessment will document condition of retained trees and on-going remedial care required to ensure viable retention of trees affected.

6 Conclusion

GHD Pty Ltd was engaged by the DoE to prepare an Arboricultural Impact Assessment report on trees potentially impacted as a result of the proposed upgrade of the LSPS. In total 82 trees were assessed from the Project area during this assessment. Of the 82 trees assessed, 33 are recommended for retention with the remaining 49 recommended for removal due to their location either within the Subject site or being in proximity to works such that retention would not be viable. Three assessed trees occur within the adjacent road reserves.

All of the trees recommended for retention would require some form of protection during development of the site as detailed in the tree protection plan. The mitigation methods described in this report should be included within the contractor's construction environmental management documentation in order to address the requirements of AS4970-2009 and protect the retained trees from potential adverse impacts.

Prior to the commencement of any construction works at the site (including demolition of existing infrastructure), a suitably qualified consulting arborist shall be appointed to supervise all tree protection procedures detailed in this report. The consulting arborist shall have a minimum level 5 AQF qualification in arboriculture and will undertake all appropriate arboricultural measures to ensure the survival and long-term health of retained trees. They will also liaise directly with construction personal and be responsible for completing certification of tree and root protection measures throughout the various stages of construction.

Trees were recommended for retention based on the EJE Architecture (2025), Terres Landscape Architects (2025) plans and discussion with ADCO subject to adopting the tree protection plan and mitigation measures, lack of biodiversity values on site and offset planting proposed by the landscape scheme there will be no significant impact to the environment due to the Activity.

This version of the Arboricultural Impact Assessment identifies an additional 12 trees for removal compared to previous versions. After discussions with ADCO, these additional trees require removal for access during the new build construction or in areas where contaminated soil remediation is required.

7 References

Coder, K.D., 1996. Construction Damage Assessments: Trees and Sites, The University of Georgia, South Carolina, USA.

EUCLID, 2015. Eucalypts of Australia Edition 4. Centre for Australian National Biodiversity Research, Canberra ACT.

EJE Architecture, 2025. Lismore South Public School (LSPS) SINSW #230301. 100% Schematic Issue

IACA, 2010. IACA Significance of a Tree, Assessment Rating System (STARS), Institute of Australian Consulting Arboriculturists, Australia.

Matheny, N.P. & Clark, J.R., 1998. Trees and Development: A Technical Guide to Preservation of Trees During Land Development, ISA Publications.

Mattheck, C. & Breloer, H. 1994. The Body Language of Trees: A handbook for failure analysis. Department of the Environment. Research for Amenity Trees #4. H.M. Stationary Office, London.

Appendices

Appendix A

Tree impact assessment

Tree #	Species	Common Name	DBH (cm)					Total DBF (cm)	DOF (cm)	Height (m)	Height to lower canopy (m)	Canopy Spread (m)	TPZ (m)	SRZ (m)	Age Class	Health	Structure	Planted?	Comments	Landscape significance	SULE	Retention Value	Retain?
			1	2	3	4	5																
01	*Grevillea robusta*	Silky oak	87.8	-	-	-	-	87.8	95.1	21.0	1.9	14.2	10.5	3.2	M	F	G	Possibly	Burl. Evidence of past pruning.	High	Medium	High	**Retain**
02	*Corymbia variegata*	Spotted gum	52.1	-	-	-	-	52.1	66.1	27.0	6.0	9.8	6.3	2.8	M	E	G	Possibly	-	High	Medium	High	**Remove**
03	*Grevillea robusta*	Silky oak	54.7	-	-	-	-	54.7	64.5	24.5	2.5	9.1	6.6	2.8	M	G	G	Possibly	-	Medium	Medium	Medium	**Remove**
04	*Corymbia variegata*	Spotted gum	60.5	-	-	-	-	60.5	73.6	22.3	2.0	10.6	7.3	2.9	M	E	A	Possibly	Lopsided canopy	Medium	Medium	Medium	**Remove**
05	*Grevillea robusta*	Silky oak	45	-	-	-	-	45	56.2	21.6	4.0	10.3	5.4	2.6	M	E	A	Possibly	Lopsided canopy towards south.	Medium	Medium	Medium	**Remove**
06	*Melaleuca leucadendra*	Weeping paperbark	32.3	21.5	-	-	-	38.7	51.7	16.8	1.9	7.9	4.6	2.5	EM	E	A	Possibly	Lopsided canopy.	Medium	Medium	Medium	**Remove**
07	*Grevillea robusta*	Silky oak	68	-	-	-	-	68	78.2	25.1	3.0	12.4	8.2	3	M	G	G	Possibly	Evidence of pruning. Some minor branch death	Medium	Medium	Medium	**Remove**
08	**Cinnamomum camphora*	Camphor laurel	85.1	65.4	-	-	-	107.3	132.7	18.5	1.6	20.8	12.9	3.7	M	E	G	No	Environmental weed.	Low	Medium	Low	**Remove**
09	*Grevillea robusta*	Silky oak	34.9	25.5	-	-	-	43.2	54.6	15.6	1.5	7.4	5.2	2.6	M	G	A	Yes	Codominant trunks. Insect frass at base. Possible borer	Low	Medium	Medium	**Remove**
10	*Grevillea* sp.		18.1	-	-	-	-	18.1	21.8	6.8	2.0	4.8	2.2	1.7	EM	F	A	Yes	-	Low	Short	Low	**Remove**
11	*Callistemon viminalis*	Weeping bottlebrush	11.5	10.8	6.3	-	-	17	26.2	4.6	1.7	4.2	2	1.9	EM	G	A	Yes	-	Low	Short	Low	**Remove**
12	*Syzygium australe*	Bush cherry	28	-	-	-	-	28	28.5	6.7	1.6	5.9	3.4	2	J	G	Q	Yes	Almost pollarded by past pruning	Low	Short	Low	**Remove**
13	*Grevillea robusta*	Silky oak	32.8	-	-	-	-	32.8	41.5	19.8	4.0	6.6	3.9	2.3	EM	G	G	Possibly	Some hangers	Medium	Medium	Medium	**Remove**
14	*Grevillea robusta*	Silky oak	82.7	-	-	-	-	82.7	97.2	22.9	3.0	13.7	9.9	3.3	OM	G	A	Possibly	Large codominant trunks one over extended towards east	High	Medium	High	**Remove**
15	*Podocarpus elatus*	Illawarra plum	49.9	-	-	-	-	49.9	52.9	10.8	1.0	9.3	6	2.5	M	E	A	Yes	4 codominant trunks about 1.7m above ground	Medium	Medium	Medium	**Remove**
16	*Corymbia variegata*	Spotted gum	90.6	-	-	-	-	90.6	108.4	32.8	7.0	18.4	10.9	3.4	M	E	G	Unknown	Some medium sized branch failure evident	High	Medium	High	**Retain**
17	*Acacia holosericea*		10.7	12.2	11.5	-	-	19.9	28.4	6.8	0.5	4.5	2.4	2	EM	E	A	Yes	Evidence of pruning	Medium	Short	Low	**Retain**
18	*Eucalyptus microcorys*	Tallowwood	50.6	-	-	-	-	50.6	65.3	24.6	7.0	6.5	6.1	2.8	M	P	Q	Possibly	Canopy death. Large proportion of epicormic shoots	Low	Short	Low	**Remove**
19	*Melaleuca leucadendra*	Weeping paperbark	23	-	-	-	-	23.3	27.3	26.2	3.0	6.5	2.8	1.9	EM	G	G	Yes	-	Low	Medium	Low	**Remove**
20	*Eucalyptus microcorys*	Tallowwood	49.8	-	-	-	-	49.8	61.4	30.6	8.0	7.6	6	2.7	M	G	G	Possibly	Some epicormic shooting	Medium	Medium	Medium	**Remove**
21	*Eucalyptus microcorys*	Tallowwood	50.8	-	-	-	-	50.8	64.4	20.5	7.0	9.0	6.1	2.8	M	G	G	Possibly	-	Medium	Medium	Medium	**Remove**

Tree #	Species	Common Name	DBH (cm)					Total DBF (cm)	DOF (cm)	Height (m)	Height to lower canopy (m)	Canopy Spread (m)	TPZ (m)	SRZ (m)	Age Class	Health	Structure	Planted?	Comments	Landscape significance	SULE	Retention Value	Retain?
			1	2	3	4	5																
22	*Waterhousea floribunda*	Weeping lilly pilly	8.3	7.6	7.4	5.5	5.4	15.5	27.6	6.3	0.0	4.3	2	1.9	J	G	G	Yes	-	Low	Medium	Low	**Remove**
23	*Cupaniopsis anacardioides*	Tuckeroo	24.3	17.5	23	17.5	-	41.6	49.4	10.2	1.4	9.5	5	2.5	EM	E	A	Yes	-	Medium	Medium	Medium	**Remove**
24	**Viburnum odoratissimum*	Sweet viburnum	14.7	18.4	9.2	-	-	25.3	35	6.3	0.2	5.9	3	2.1	EM	E	A	Yes	-	Low	Short	Low	**Retain**
25	*Syzygium australe*	Bush cherry	14.2	-	-	-	-	14.2	19.6	7.5	1.5	4.1	2	1.7	J	G	G	Yes	Some myrtle rust.	Low	Medium	Low	**Retain**
26	*Corymbia variegata*	Spotted gum	79.5	-	-	-	-	79.5	88.1	21.5	5.0	20.2	9.5	3.1	M	E	G	Unknown	*Nephrolepis* in trunk juncture	High	Medium	High	**Retain**
27	*Corymbia variegata*	Spotted gum	81.4	-	-	-	-	81.4	100.7	34.3	4.0	16.3	9.8	3.3	M	E	G	Unknown	-	High	Medium	High	**Remove**
28	*Corymbia citriodora*	Spotted gum	59.5	-	-	-	-	59.5	69.5	29.3	11.0	12.5	7.1	2.8	M	G	A	Unknown	Dead branch extending north	Medium	Medium	Medium	**Remove**
29	*Melaleuca leucadendra*	Weeping paperbark	22.3	-	-	-	-	22.3	24.5	8.6	1.8	4.6	2.7	1.8	EM	E	G	Yes	-	Medium	Medium	Medium	**Retain**
30	*Allocasuarina torulosa*	Forest she-oak	44.5	-	-	-	-	44.5	57	26.1	1.0	7.1	5.3	2.6	M	E	G	Yes	-	Medium	Medium	Medium	**Retain**
31	*Allocasuarina torulosa*	Forest she-oak	6.1	-	-	-	-	6.1	9.2	8.3	1.0	1.9	2	1.5	J	G	G	Yes	-	Low	Medium	Low	**Retain**
32	*Melaleuca linariifolia*	Snow-in-summer	8.2	7.2	6	4.3	-	13.2	16.7	3.1	0.6	3.8	2	1.6	J	E	A	Yes	-	Low	Medium	Low	**Retain**
33	*Allocasuarina torulosa*	Forest she-oak	6.3	-	-	-	-	6.3	9.6	7.4	1.9	1.4	2	1.5	J	G	G	No	-	Low	Medium	Low	**Retain**
34	*Allocasuarina torulosa*	Forest she-oak	12	-	-	-	-	12	16.7	9.8	2.0	3.5	2	1.6	J	G	G	No	-	Low	Medium	Low	**Retain**
35	*Callistemon viminalis*	Weeping bottlebrush	12.1	10.8	8.1	-	-	18.1	24.5	7.7	1.8	5.1	2.2	1.8	EM	G	A	Yes	-	Low	Short	Low	**Remove**
36	*Callistemon viminalis*	Weeping bottlebrush	9.5	-	-	-	-	9.5	11.5	6.4	0.6	3.3	2	1.5	EM	G	A	Yes	-	Low	Short	Low	**Remove**
37	*Melaleuca quinquenervia*	Broad-leaved paperbark	29.2	-	-	-	-	29.2	38.4	12.5	6.0	4.7	3.5	2.2	M	G	G	Yes	-	Medium	Medium	Medium	**Remove**
38	*Syzygium* sp.	Lilly pilly	9.6	-	-	-	-	9.6	12.5	8.7	1.9	3.7	2	1.5	J	E	G	Yes	-	Low	Medium	Low	**Remove**
39	*Xanthostemon chrysanthus*	Golden penda	14.5	-	-	-	-	14.5	19.9	8.6	0.5	4.5	2	1.7	EM	G	G	Yes	-	Medium	Medium	Medium	**Remove**
40	*Tristaniopsis laurina*	Water gum	20.4	13.5	-	-	-	24.5	32.4	9.3	2.0	6.9	2.9	2.1	EM	G	G	Yes	Codominant trunks. Evidence of past pruning.	Medium	Medium	Medium	**Remove**
41	*Syzygium australe*	Bush cherry	8.2	-	-	-		8.2	10.9	4.5	1.4	3.6	2	1.5	EM	G	A	Yes	Past pruning. Codominant trunks about 1.9m above ground.	Low	Medium	Low	**Remove**
42	*Syzygium australe*	Bush cherry	17.2	-	-	-		17.2	44.8	5.1	2.5	5.7	2.1	2.4	EM	G	A	Yes	Evidence of trunk removal from base	Low	Medium	Low	**Remove**
43	*Syzygium australe*	Bush cherry	13.2	13	-	-	-	18.5	30.8	7.8	2.0	6.8	2.2	2	EM	G	A	Yes	Codominant trunks near ground level. Past trunk removal	Low	Medium	Low	**Remove**
44	*Melaleuca styphelioides*	Prickly-leaved tea tree	16.7	25.6	19.3	23.9	-	43.3	80	14.2	1.8	8.2	5.2	3	M	E	A	Yes	-	Medium	Short	Low	**Remove**
45	*Xanthostemon chrysanthus*	Golden penda	16.3	16	-	-	-	22.8	27.2	10.2	1.7	6.5	2.7	1.9	EM	E	A	Yes	-	Medium	Medium	Medium	**Remove**

Tree #	Species	Common Name	DBH (cm)					Total DBF (cm)	DOF (cm)	Height (m)	Height to lower canopy (m)	Canopy Spread (m)	TPZ (m)	SRZ (m)	Age Class	Health	Structure	Planted?	Comments	Landscape significance	SULE	Retention Value	Retain?
			1	2	3	4	5																
46	*Melaleuca styphelioides*	Prickly-leaved tea tree	32.8	-	-	-	-	32.8	42.3	9.7	1.8	10.1	3.9	3.3	M	E	G	Yes	Past pruning	Medium	Short	Low	**Remove**
47	**Lagerstroemia indica*	Crepe myrtle	9.1	10.2	-	-	-	13.7	29.3	7.9	1.9	6.2	2	2	EM	G	G	Yes	Previous trunk pruning	Low	Short	Low	**Retain**
48	*Xanthostemon chrysanthus*	Golden penda	8.9	8.9	11.8	10.3	-	20.1	36.8	2.7	0.5	4.7	2.4	2.2	EM	E	A	Yes	-	Medium	Medium	Medium	**Retain**
49	*Syzygium australe*	Bush cherry	5.6	6	3.7	-	-	9	13.7	3.9	0.5	3.4	2	1.5	J	G	A	Yes	-	Low	Medium	Low	**Retain**
50	*Syzygium australe*	Bush cherry	10.1	8.5	-	-	-	13.2	23.2	8.5	1.4	3.8	2	1.8	EM	G	A	Yes	-	Low	Medium	Low	**Retain**
51	*Waterhousea floribunda*	Weeping lilly pilly	23.5	24.5	-	-	-	33.9	45.6	15.8	0.5	9.2	4.1	2.4	EM	E	A	Yes	-	Low	Medium	Medium	**Retain**
52	*Cupaniopsis anacardioides*	Tuckeroo	32.8	-	-	-	-	32.8	38.4	13.2	2.2	8.7	3.9	2.2	M	E	G	Yes	-	Medium	Medium	Medium	**Retain**
53	*Syzygium australe*	Bush cherry	7.5	9.5	-	-	-	12.1	14	6.1	1.7	3.6	2	1.5	J	F	A	Yes	*Syngonium* vine on trunk.	Low	Medium	Low	**Retain**
54	*Waterhousea floribunda*	Weeping lilly pilly	3.2	3.3	3.3	3.1	2.5	6.9	41	4.6	0.2	4.2	2	2.3	J	E	A	Yes	Central trunk lopped. Resprouting	Low	Short	Low	**Remove**
55	**Cinnamomum camphora*	Camphor laurel	55.8	62.1	74.1	52.9	-	122.5	147	19.8	1.6	17.5	14.8	3.9	M	E	G	No	Weed	Low	Short	Low	**Remove**
56	*Syzygium australe*	Bush cherry	4.5	3.8	4	4.2	-	8.3	11.2	3.3	0.5	2.6	2	1.5	J	E	A	Yes	-	Low	Medium	Low	**Remove**
57	*Syzygium australe*	Bush cherry	4.6	4.4	3.7	3.9	-	8.3	9.7	3.3	0.5	2.7	2	1.5	J	G	A	Yes	-	Low	Medium	Low	**Remove**
58	*Flindersia schottiana*	Bumpy ash	3.7	4.1	2.7	3.2	-	6.9	27	5.0	0.3	2.4	2	1.9	J	G	P	Yes	Main trunk removed. Resprouting	Low	Short	Low	**Remove**
59	*Neolitsea australiensis*	Green bolly gum	-	-	-	-	-	-	-	13.4	1.5	3.6	2	1.5	-	-	-	Yes	DBH and DOF not measured due to dense *Syngonium*	Low	Short	Low	**Remove**
60	*Callistemon viminalis*	Weeping bottlebrush	19.5	33.1	-	-	-	38.4	44.4	9.3	1.0	7.1	4.6	2.4	M	G	G	Yes	-	Medium	Short	Low	**Remove**
61	*Callistemon viminalis*	Weeping bottlebrush	21.7	22.6	16	-	-	35.2	40.6	9.3	1.8	5.4	4.2	2.3	M	E	A	Yes	Pruned	Medium	Short	Low	**Remove**
62	*Callistemon viminalis*	Weeping bottlebrush	21.9	-	-	-	-	21.9	30.4	8.4	1.8	5.4	2.6	2	M	G	A	Yes	Pruned	Medium	Short	Low	**Remove**
63	*Callistemon viminalis*	Weeping bottlebrush	19.7	15.4	-	-	-	25	28.9	6.7	1.9	3.6	3	2	M	F	A	Yes	-	Low	Short	Low	**Remove**
64	*Melaleuca styphelioides*	Prickly-leaved tea tree	82	-	-	-	-	82	79	18.3	2.2	12.8	9.8	3	M	E	G	Unknown	Codominant trunks	Medium	Medium	Medium	**Retain**
65	*Clerodendrum tomentosum*	Hairy clerodendrum	5.2	4.6	-	-	-	6.9	7.6	5.1	2.0	2.4	2	1.5	J	G	A	No	Recruited. Insect attack	Low	Short	Low	**Remove**
66	*Syzygium australe*	Bush cherry	14.5	12.9	-	-	-	19.4	26.6	10.9	1.0	5.6	2.3	1.9	EM		G	Yes	-	Medium	Medium	Medium	**Retain**
67	*Melaleuca leucadendra*	Weeping paperbark	16.3	21.2	18.2	-	-	32.3	37.7	13.4	1.8	5.6	3.9	2.2	EM	G	A	Yes	Some frass at base	Medium	Short	Low	**Retain**
68	*Podocarpus elatus*	Illawarra plum	12.3	14.5	11.9	-	-	22.4	24.1	5.1	1.5	3.6	2.7	1.8	EM	G	Q	Yes	Poorly pruned	Low	Short	Low	**Retain**
69	*Syzygium australe*	Bush cherry	11.3	12.5	-	-	-	16.9	20.5	5.4	1.0	3.9	2	1.7		E	A	Yes	Pruned	Medium	Medium	Medium	**Retain**
70	*Callistemon viminalis*	Weeping bottlebrush	38.3	40.2	-	-	-	55.5	65.3	14.7	1.8	11.0	6.7	2.8	M	G	G	Yes	Evidence of trunk removal	Medium	Medium	Medium	**Remove**

Tree #	Species	Common Name	DBH (cm)					Total DBF (cm)	DOF (cm)	Height (m)	Height to lower canopy (m)	Canopy Spread (m)	TPZ (m)	SRZ (m)	Age Class	Health	Structure	Planted?	Comments	Landscape significance	SULE	Retention Value	Retain?
			1	2	3	4	5																
71	*Callistemon viminalis*	Weeping bottlebrush	8.1	7.8	9.2	8.1	7.6	18.3	26.9	9.0	1.3	5.5	2.2	1.9	EM	E	A	Yes	-	Low	Short	Low	**Retain**
72	*Melaleuca styphelioides*	Prickly-leaved tea tree	23.3	24.7	-	-	-	34	43.4	15.0	1.1	6.1	4.1	2.3	M	E	G	Yes	-	Medium	Medium	Medium	**Retain**
73	*Grevillea robusta*	Silky oak	52.4	-	-	-	-	52.4	61.8	22.2	3.5	8.2	6.3	2.7	M	G	G	Possibly	Some branch dieback	Medium	Medium	Medium	**Remove**
74	*Syzygium australe*	Bush cherry	11.7	8.6	8.1	9	8.2	20.6	42.5	6.3	1.9	6.6	2.5	2.3	EM	G	Q	Yes	Coppiced	Low	Short	Low	**Remove**
75	*Grevillea robusta*	Silky oak	54.2	-	-	-	-	54.2	66.1	17.5	2.5	9.0	6.5	2.8	M	E	G	Yes	-	Medium	Medium	Medium	**Remove**
76	*Callistemon viminalis*	Weeping bottlebrush	21.5	21.6	-	-	-	30.5	36.1	3.4	1.4	3.7	3.7	2.2	M	G	P	Yes	Lopped and coppicing	Low	Short	Low	**Retain**
77	*Grevillea robusta*	Silky oak	57	-	-	-	-	57	65.8	19.6	2.0	8.5	6.8	2.8	M	G	G	Possibly	-	Medium	Medium	Medium	**Retain**
78	*Syzygium australe*	Bush cherry	19.8	19	-	-	-	27.4	36.9	8.9	1.8	6.2	3.3	2.2	EM	E	G	Yes	-	Medium	Medium	Medium	**Retain**
79	*Syzygium australe*	Bush cherry	25.5	26.1	-	-	-	36.5	55.7	10.4	1.6	8.9	4.4	2.6	M	E	G	Yes	-	Medium	Medium	Medium	**Retain**
80	*Melaleuca bracteata*	Black tea tree	25.9	44.2	-	-	-	51.2	62.9	13.4	1.8	13.0	6.1	2.7	M	E	G	Yes	Street tree	High	Medium	High	**Retain**
81	*Callistemon viminalis*	Weeping bottlebrush	47.6	-	-	-	-	47.6	55.8	9.4	1.9	9.1	5.7	2.6	M	G	A	Yes	Street tree. Under powerline. Pruned	Medium	Medium	Medium	**Retain**
82	*Callistemon viminalis*	Weeping bottlebrush	28.8	23.4	-	-	-	37.1	46.2	5.6	1.2	7.7	4.5	2.4	M	G	Q	Yes	Street tree under powerline. Pruned	Medium	Medium	Medium	**Retain**

Notes: * = non-native, exotic species. DBH (cm) is the diameter at breast height (1.4m from ground level). DOF (cm) is the diameter of the trunk above the root flare. TPZ (m) is the tree protection zone in metres in a radius from the centre of the trunk. SRZ (m) is the structural root zone in metres in a radius from the centre of the trunk

Age Class: EM = Early Mature, M = Mature, OM = Over Mature, D = Dead

Retention: H = High, M = Medium, L = Low, R = Remove

Health: E = Excellent, G = Good, F = Fair, P = Poor, D = Dead

Structure: G = Good, A = Acceptable, Q = Questionable, P = Poor

Appendix B

Tree cards

Tree ID	01		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	21.00	**Structure**	Good
Total DBH (cm)	87.80	**Maturity**	Mature
TPZ (m)	10.50	**Landscape significance**	High
Spread (m)	14.20	**Health**	Fair
DoF (cm)	95.10	**SULE**	Medium
SRZ (m)	3.20	**Planted?**	Possibly
Retention	High	**RETAIN**	

Tree ID	02		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	27.00	**Structure**	Good
Total DBH (cm)	52.10	**Maturity**	Mature
TPZ (m)	6.30	**Landscape significanc e**	High
Spread (m)	9.80	**Health**	Excellent
DoF (cm)	66.10	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Possibly
Retention value	High	**REMOVE**	

Tree ID	03		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	24.50	**Structure**	Good
Total DBH (cm)	54.70	**Maturity**	Mature
TPZ (m)	6.60	**Landscape significance**	Medium
Spread (m)	9.10	**Health**	Good
DoF (cm)	64.50	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	04		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	22.30	**Structure**	Acceptable
Total DBH (cm)	60.50	**Maturity**	Mature
TPZ (m)	7.30	**Landscape significanc e**	Medium
Spread (m)	10.60	**Health**	Excellent
DoF (cm)	73.60	**SULE**	Medium
SRZ (m)	2.90	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	05		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	21.60	**Structure**	Acceptable
Total DBH (cm)	45.00	**Maturity**	Mature
TPZ (m)	5.40	**Landscape significance**	Medium
Spread (m)	10.30	**Health**	Excellent
DoF (cm)	56.20	**SULE**	Medium
SRZ (m)	2.60	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	06		
Species name	*Melaleuca leucadendra*		
Common name	Weeping paperbark		
Height (m)	16.80	**Structure**	Acceptable
Total DBH (cm)	38.70	**Maturity**	Early mature
TPZ (m)	4.60	**Landscape significance**	Medium
Spread (m)	7.90	**Health**	Excellent
DoF (cm)	51.70	**SULE**	Medium
SRZ (m)	2.50	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	07		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	25.10	**Structure**	Good
Total DBH (cm)	68.00	**Maturity**	Mature
TPZ (m)	8.20	**Landscape significance**	Medium
Spread (m)	12.40	**Health**	Good
DoF (cm)	78.20	**SULE**	Medium
SRZ (m)	3.00	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	08		
Species name	**Cinnamomum camphora*		
Common name	Camphor laurel		
Height (m)	18.5	**Structure**	Good
Total DBH (cm)	107.30	**Maturity**	Mature
TPZ (m)	12.90	**Landscape significance**	Low
Spread (m)	20.80	**Health**	Excellent
DoF (cm)	132.70	**SULE**	Medium
SRZ (m)	3.70	**Planted?**	No
Retention value	Low	**REMOVE**	

Tree ID	09				**Tree ID**	10			
Species name	*Grevillea robusta*				**Species name**	*Grevillea* sp.			
Common name	Silky oak				**Common name**	-			
Height (m)	15.60	**Structure**	Acceptable		**Height (m)**	6.80	**Structure**	Acceptable	
Total DBH (cm)	43.20	**Maturity**	Mature		**Total DBH (cm)**	18.10	**Maturity**	Early mature	
TPZ (m)	5.20	**Landscape significance**	Low		**TPZ (m)**	2.20	**Landscape significance**	Low	
Spread (m)	7.40	**Health**	Good		**Spread (m)**	4.80	**Health**	Fair	
DoF (cm)	54.60	**SULE**	Medium		**DoF (cm)**	21.80	**SULE**	Short	
SRZ (m)	2.60	**Planted?**	Yes		**SRZ (m)**	1.70	**Planted?**	Yes	
Retention value	Medium	**REMOVE**			**Retention value**	Low	**REMOVE**		

Tree ID	11				**Tree ID**	12			
Species name	*Callistemon viminalis*				**Species name**	*Syzygium australe*			
Common name	Weeping bottlebrush				**Common name**	Bush cherry			
Height (m)	4.60	**Structure**	Acceptable		**Height (m)**	6.70	**Structure**	Questionable	
Total DBH (cm)	17.00	**Maturity**	Early mature		**Total DBH (cm)**	28.00	**Maturity**	Juvenile	
TPZ (m)	2.00	**Landscape significance**	Low		**TPZ (m)**	3.40	**Landscape significance**	Low	
Spread (m)	4.200	**Health**	Good		**Spread (m)**	5.90	**Health**	Good	
DoF (cm)	26.20	**SULE**	Short		**DoF (cm)**	28.50	**SULE**	Short	
SRZ (m)	1.90	**Planted?**	Yes		**SRZ (m)**	2.00	**Planted?**	Yes	
Retention value	Low	**REMOVE**			**Retention value**	Low	**REMOVE**		

Tree ID	13		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	19.80	**Structure**	Good
Total DBH (cm)	32.80	**Maturity**	Early mature
TPZ (m)	3.90	**Landscape significance**	Medium
Spread (m)	6.60	**Health**	Good
DoF (cm)	41.50	**SULE**	Medium
SRZ (m)	2.30	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	14		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	22.80	**Structure**	Acceptable
Total DBH (cm)	82.70	**Maturity**	Over mature
TPZ (m)	9.90	**Landscape significance**	High
Spread (m)	13.70	**Health**	Good
DoF (cm)	97.20	**SULE**	Medium
SRZ (m)	3.30	**Planted?**	Possibly
Retention value	High	**REMOVE**	

Tree ID	15		
Species name	*Podocarpus elatus*		
Common name	Illawarra plum		
Height (m)	10.70	**Structure**	Acceptable
Total DBH (cm)	49.90	**Maturity**	Mature
TPZ (m)	6.00	**Landscape significance**	Medium
Spread (m)	9.30	**Health**	Excellent
DoF (cm)	52.90	**SULE**	Medium
SRZ (m)	2.50	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	16		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	32.80	**Structure**	Good
Total DBH (cm)	90.60	**Maturity**	Mature
TPZ (m)	10.90	**Landscape significance**	High
Spread (m)	18.40	**Health**	Excellent
DoF (cm)	108.40	**SULE**	Medium
SRZ (m)	3.40	**Planted?**	Unknown
Retention value	High	**RETAIN**	

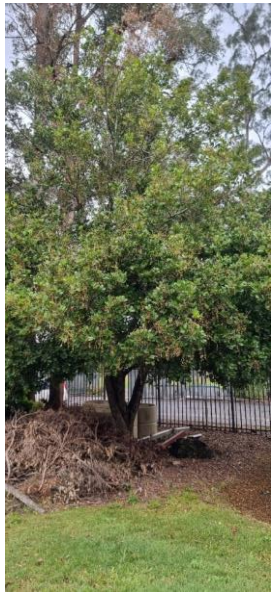
Tree ID	17				**Tree ID**	18			
Species name	*Acacia holosericea*				**Species name**	*Eucalyptus microcorys*		
Common name	-				**Common name**	Tallowwood		
Height (m)	6.80	**Structure**	Acceptable		**Height (m)**	24.60	**Structure**	Questionable
Total DBH (cm)	19.90	**Maturity**	Early mature		**Total DBH (cm)**	50.60	**Maturity**	Mature
TPZ (m)	2.40	**Landscape significance**	Medium		**TPZ (m)**	6.10	**Landscape significance**	Low
Spread (m)	4.50	**Health**	Excellent		**Spread (m)**	6.50	**Health**	Poor
DoF (cm)	28.40	**SULE**	Short		**DoF (cm)**	65.30	**SULE**	Short
SRZ (m)	2.00	**Planted?**	Yes		**SRZ (m)**	2.80	**Planted?**	Possibly
Retention value	Low	**RETAIN**			**Retention value**	Low	**REMOVE**	

Tree ID	19				**Tree ID**	20			
Species name	*Melaleuca leucadendra*				**Species name**	*Eucalyptus microcorys*		
Common name	Weeping paperbark				**Common name**	Tallowwood		
Height (m)	26.20	**Structure**	Good		**Height (m)**	30.60	**Structure**	Good
Total DBH (cm)	23.30	**Maturity**	Early mature		**Total DBH (cm)**	49.80	**Maturity**	Mature
TPZ (m)	2.80	**Landscape significance**	Low		**TPZ (m)**	6.00	**Landscape significance**	Medium
Spread (m)	6.50	**Health**	Good		**Spread (m)**	7.60	**Health**	Good
DoF (cm)	27.30	**SULE**	Medium		**DoF (cm)**	61.40	**SULE**	Medium
SRZ (m)	1.90	**Planted?**	Yes		**SRZ (m)**	2.70	**Planted?**	Possibly
Retention value	Low	**REMOVE**			**Retention value**	Medium	**REMOVE**	

Tree ID	21		
Species name	*Eucalyptus microcorys*		
Common name	Tallowwood		
Height (m)	20.50	**Structure**	Good
Total DBH (cm)	50.80	**Maturity**	Mature
TPZ (m)	6.10	**Landscape significance**	Medium
Spread (m)	9.00	**Health**	Good
DoF (cm)	64.40	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	22		
Species name	*Waterhousea floribunda*		
Common name	Weeping lilly pilly		
Height (m)	6.30	**Structure**	Good
Total DBH (cm)	15.50	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significanc e**	Low
Spread (m)	4.30	**Health**	Good
DoF (cm)	27.60	**SULE**	Medium
SRZ (m)	1.90	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	23		
Species name	*Cupaniopsis anacardioides*		
Common name	Tuckeroo		
Height (m)	10.20	**Structure**	Acceptabl e
Total DBH (cm)	41.60	**Maturity**	Early mature
TPZ (m)	5.00	**Landscape significance**	Medium
Spread (m)	9.50	**Health**	Excellent
DoF (cm)	49.40	**SULE**	Medium
SRZ (m)	2.50	**Planted?**	Yes
Retention value	Medium	**REMOVE**	



Tree ID	24		
Species name	**Viburnum odoratissimum*		
Common name	Sweet viburnum		
Height (m)	6.30	**Structure**	Acceptable
Total DBH (cm)	25.30	**Maturity**	Early mature
TPZ (m)	3.00	**Landscape significanc e**	Low
Spread (m)	5.90	**Health**	Excellent
DoF (cm)	35.00	**SULE**	Short
SRZ (m)	2.10	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	25		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	7.50	**Structure**	Good
Total DBH (cm)	14.20	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	4.10	**Health**	Good
DoF (cm)	19.60	**SULE**	Medium
SRZ (m)	1.70	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	26		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	21.50	**Structure**	Good
Total DBH (cm)	79.50	**Maturity**	Mature
TPZ (m)	9.50	**Landscape significance**	High
Spread (m)	20.20	**Health**	Excellent
DoF (cm)	88.10	**SULE**	Medium
SRZ (m)	3.10	**Planted?**	Unknown
Retention value	High	**RETAIN**	

Tree ID	27		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	34.3	**Structure**	Good
Total DBH (cm)	81.40	**Maturity**	Mature
TPZ (m)	9.80	**Landscape significance**	High
Spread (m)	16.30	**Health**	Excellent
DoF (cm)	100.70	**SULE**	Medium
SRZ (m)	3.30	**Planted?**	Unknown
Retention value	High	**REMOVE**	

Tree ID	28		
Species name	*Corymbia variegata*		
Common name	Spotted gum		
Height (m)	29.30	**Structure**	Acceptable
Total DBH (cm)	59.50	**Maturity**	Mature
TPZ (m)	7.10	**Landscape significance**	Medium
Spread (m)	12.50	**Health**	Good
DoF (cm)	69.50	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Unknown
Retention value	Medium	**REMOVE**	

Tree ID	29		
Species name	*Melaleuca leucadendra*		
Common name	Weeping paperbark		
Height (m)	8.60	**Structure**	Good
Total DBH (cm)	22.30	**Maturity**	Early mature
TPZ (m)	2.70	**Landscape significance**	Medium
Spread (m)	4.60	**Health**	Excellent
DoF (cm)	24.50	**SULE**	Medium
SRZ (m)	1.80	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

Tree ID	30		
Species name	*Allocasuarina torulosa*		
Common name	Forest she-oak		
Height (m)	26.10	**Structure**	Good
Total DBH (cm)	44.50	**Maturity**	Mature
TPZ (m)	5.30	**Landscape significance**	Medium
Spread (m)	7.10	**Health**	Excellent
DoF (cm)	57.00	**SULE**	Medium
SRZ (m)	2.60	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

Tree ID	31		
Species name	*Allocasuarina torulosa*		
Common name	Forest she-oak		
Height (m)	8.30	**Structure**	Good
Total DBH (cm)	6.10	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	1.90	**Health**	Good
DoF (cm)	9.20	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	32		
Species name	*Melaleuca linariifolia*		
Common name	Snow-in-summer		
Height (m)	3.10	**Structure**	Acceptable
Total DBH (cm)	13.20	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	3.80	**Health**	Excellent
DoF (cm)	16.70	**SULE**	Medium
SRZ (m)	1.60	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	33		
Species name	*Allocasuarina torulosa*		
Common name	Forest she-oak		
Height (m)	7.40	**Structure**	Good
Total DBH (cm)	6.30	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	1.40	**Health**	Good
DoF (cm)	9.60	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	No
Retention value	Low	**RETAIN**	

Tree ID	34		
Species name	*Allocasuarina torulosa*		
Common name	Forest she-oak		
Height (m)	9.80	**Structure**	Good
Total DBH (cm)	12.00	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	3.50	**Health**	Good
DoF (cm)	16.70	**SULE**	Medium
SRZ (m)	1.60	**Planted?**	No
Retention value	Low	**RETAIN**	

Tree ID	35		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	7.70	**Structure**	Acceptable
Total DBH (cm)	18.10	**Maturity**	Early mature
TPZ (m)	2.20	**Landscape significance**	Low
Spread (m)	5.10	**Health**	Good
DoF (cm)	24.50	**SULE**	Short
SRZ (m)	1.80	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	36		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	6.40	**Structure**	Acceptable
Total DBH (cm)	9.50	**Maturity**	Early mature
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	3.30	**Health**	Good
DoF (cm)	11.50	**SULE**	Short
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	37		
Species name	*Melaleuca quinquenervia*		
Common name	Broad-leaved paperbark		
Height (m)	12.50	**Structure**	Good
Total DBH (cm)	29.20	**Maturity**	Mature
TPZ (m)	3.50	**Landscape significance**	Medium
Spread (m)	4.70	**Health**	Good
DoF (cm)	38.40	**SULE**	Medium
SRZ (m)	2.20	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	38		
Species name	*Syzygium* sp.		
Common name	Lilly pilly		
Height (m)	8.70	**Structure**	Good
Total DBH (cm)	9.60	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significanc e**	Low
Spread (m)	3.70	**Health**	Excellent
DoF (cm)	12.50	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	39		
Species name	*Xanthostemon chrysanthus*		
Common name	Golden penda		
Height (m)	8.50	**Structure**	Good
Total DBH (cm)	14.50	**Maturity**	Early mature
TPZ (m)	2.00	**Landscape significance**	Medium
Spread (m)	4.50	**Health**	Good
DoF (cm)	19.90	**SULE**	Medium
SRZ (m)	1.70	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

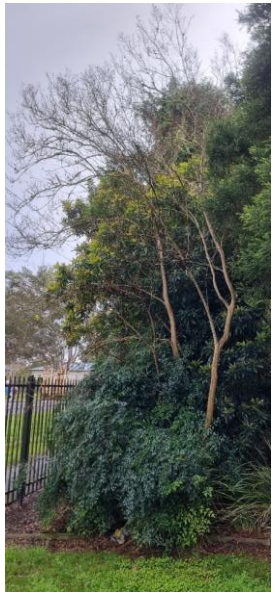
Tree ID	40		
Species name	*Tristaniopsis laurina*		
Common name	Water gum		
Height (m)	9.30	**Structure**	Good
Total DBH (cm)	24.50	**Maturity**	Early mature
TPZ (m)	2.90	**Landscape significanc e**	Medium
Spread (m)	6.90	**Health**	Good
DoF (cm)	32.40	**SULE**	Medium
SRZ (m)	2.10	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	41				**Tree ID**	42			
Species name	*Syzygium australe*				**Species name**	*Syzygium australe*			
Common name	Bush cherry				**Common name**	Bush cherry			
Height (m)	4.50	**Structure**	Acceptable		**Height (m)**	5.10	**Structure**	Acceptable	
Total DBH (cm)	8.20	**Maturity**	Early mature		**Total DBH (cm)**	17.20	**Maturity**	Early mature	
TPZ (m)	2.00	**Landscape significance**	Low		**TPZ (m)**	2.10	**Landscape significance**	Low	
Spread (m)	3.60	**Health**	Good		**Spread (m)**	5.70	**Health**	Good	
DoF (cm)	10.90	**SULE**	Medium		**DoF (cm)**	44.80	**SULE**	Medium	
SRZ (m)	1.50	**Planted?**	Yes		**SRZ (m)**	2.40	**Planted?**	Yes	
Retention value	Low	**REMOVE**			**Retention value**	Low	**REMOVE**		
Tree ID	43				**Tree ID**	44			
Species name	*Syzygium australe*				**Species name**	*Melaleuca styphelioides*			
Common name	Bush cherry				**Common name**	Prickly-leaved tea tree			
Height (m)	7.80	**Structure**	Acceptable		**Height (m)**	14.20	**Structure**	Acceptable	
Total DBH (cm)	18.50	**Maturity**	Early mature		**Total DBH (cm)**	43.30	**Maturity**	Mature	
TPZ (m)	2.20	**Landscape significance**	Low		**TPZ (m)**	5.20	**Landscape significance**	Medium	
Spread (m)	6.80	**Health**	Good		**Spread (m)**	8.20	**Health**	Excellent	
DoF (cm)	30.80	**SULE**	Medium		**DoF (cm)**	80.00	**SULE**	Short	
SRZ (m)	2.00	**Planted?**	Yes		**SRZ (m)**	3.00	**Planted?**	Yes	
Retention value	Low	**REMOVE**			**Retention value**	Low	**REMOVE**		

Tree ID	45		
Species name	*Xanthostemon chrysanthus*		
Common name	Golden penda		
Height (m)	10.20	**Structure**	Acceptable
Total DBH (cm)	22.80	**Maturity**	Early mature
TPZ (m)	2.70	**Landscape significance**	Medium
Spread (m)	6.50	**Health**	Excellent
DoF (cm)	27.20	**SULE**	Medium
SRZ (m)	1.90	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	46		
Species name	*Melaleuca styphelioides*		
Common name	Prickly-leaved tea tree		
Height (m)	9.70	**Structure**	Good
Total DBH (cm)	32.80	**Maturity**	Mature
TPZ (m)	3.90	**Landscape significance**	Medium
Spread (m)	10.10	**Health**	Excellent
DoF (cm)	42.30	**SULE**	Short
SRZ (m)	3.30	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	47		
Species name	**Lagerstroemia indica*		
Common name	Crepe myrtle		
Height (m)	7.90	**Structure**	Good
Total DBH (cm)	13.70	**Maturity**	Early mature
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	6.20	**Health**	Good
DoF (cm)	29.30	**SULE**	Short
SRZ (m)	2.00	**Planted?**	Yes
Retention value	Low	**RETAIN**	



Tree ID	48		
Species name	*Xanthostemon chrysanthus*		
Common name	Golden penda		
Height (m)	1.70	**Structure**	Acceptable
Total DBH (cm)	20.10	**Maturity**	Early mature
TPZ (m)	2.40	**Landscape significance**	Medium
Spread (m)	4.70	**Health**	Excellent
DoF (cm)	36.80	**SULE**	Medium
SRZ (m)	2.20	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

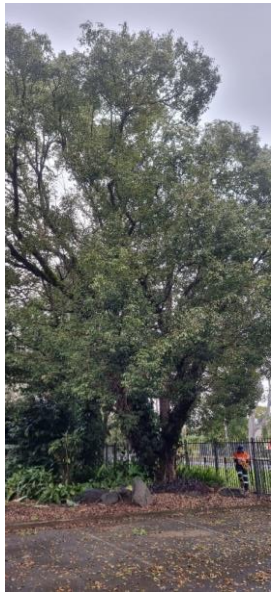
Tree ID	49				**Tree ID**	50			
Species name	*Syzygium australe*				**Species name**	*Syzygium australe*			
Common name	Bush cherry				**Common name**	Bush cherry			
Height (m)	3.90	**Structure**	Acceptable		**Height (m)**	8.50	**Structure**	Acceptable	
Total DBH (cm)	9.00	**Maturity**	Juvenile		**Total DBH (cm)**	13.20	**Maturity**	Early mature	
TPZ (m)	2.00	**Landscape significance**	Low		**TPZ (m)**	2.00	**Landscape significance**	Low	
Spread (m)	3.40	**Health**	Good		**Spread (m)**	3.80	**Health**	Good	
DoF (cm)	13.70	**SULE**	Medium		**DoF (cm)**	23.20	**SULE**	Medium	
SRZ (m)	1.50	**Planted?**	Yes		**SRZ (m)**	1.80	**Planted?**	Yes	
Retention value	Low	**RETAIN**			**Retention value**	Low	**RETAIN**		

Tree ID	51				**Tree ID**	52			
Species name	*Waterhousea floribunda*				**Species name**	*Cupaniopsis anacardioides*			
Common name	Weeping lilly pilly				**Common name**	Tuckeroo			
Height (m)	15.80	**Structure**	Acceptable		**Height (m)**	13.20	**Structure**	Good	
Total DBH (cm)	33.90	**Maturity**	Early mature		**Total DBH (cm)**	32.80	**Maturity**	Mature	
TPZ (m)	4.10	**Landscape significance**	Low		**TPZ (m)**	3.90	**Landscape significance**	Medium	
Spread (m)	9.20	**Health**	Excellent		**Spread (m)**	8.70	**Health**	Excellent	
DoF (cm)	45.60	**SULE**	Medium		**DoF (cm)**	38.40	**SULE**	Medium	
SRZ (m)	2.40	**Planted?**	Yes		**SRZ (m)**	2.20	**Planted?**	Yes	
Retention value	Medium	**RETAIN**			**Retention value**	Medium	**RETAIN**		

Tree ID	53		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	6.10	**Structure**	Acceptable
Total DBH (cm)	12.10	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	3.60	**Health**	Fair
DoF (cm)	14.00	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	54		
Species name	*Waterhousea floribunda*		
Common name	Weeping lilly pilly		
Height (m)	4.60	**Structure**	Acceptable
Total DBH (cm)	6.90	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	4.20	**Health**	Excellent
DoF (cm)	41.00	**SULE**	Short
SRZ (m)	2.30	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	55		
Species name	**Cinnamomum camphora*		
Common name	Camphor laurel		
Height (m)	19.80	**Structure**	Good
Total DBH (cm)	122.50	**Maturity**	Mature
TPZ (m)	14.80	**Landscape significance**	Low
Spread (m)	17.50	**Health**	Excellent
DoF (cm)	147.00	**SULE**	Short
SRZ (m)	3.90	**Planted?**	No
Retention value	Low	**REMOVE**	



Tree ID	56		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	3.30	**Structure**	Acceptable
Total DBH (cm)	8.30	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	2.60	**Health**	Excellent
DoF (cm)	11.20	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	57		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	3.30	**Structure**	Acceptable
Total DBH (cm)	8.30	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	2.70	**Health**	Good
DoF (cm)	9.70	**SULE**	Medium
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	58		
Species name	*Flindersia schottiana*		
Common name	Bumpy ash		
Height (m)	5.00	**Structure**	Poor
Total DBH (cm)	6.90	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	2.40	**Health**	Good
DoF (cm)	27.00	**SULE**	Short
SRZ (m)	1.90	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	59		
Species name	*Neolitsea australiensis*		
Common name	Green bolly gum		
Height (m)	13.40	**Structure**	-
Total DBH (cm)	-	**Maturity**	-
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	3.60	**Health**	-
DoF (cm)	-	**SULE**	Short
SRZ (m)	1.50	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	60		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	9.30	**Structure**	Good
Total DBH (cm)	38.40	**Maturity**	Mature
TPZ (m)	4.60	**Landscape significance**	Medium
Spread (m)	7.10	**Health**	Good
DoF (cm)	44.40	**SULE**	Short
SRZ (m)	2.40	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	61		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	9.30	**Structure**	Acceptable
Total DBH (cm)	35.20	**Maturity**	Mature
TPZ (m)	4.20	**Landscape significance**	Medium
Spread (m)	5.40	**Health**	Excellent
DoF (cm)	40.60	**SULE**	Short
SRZ (m)	2.30	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	62		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	8.40	**Structure**	Acceptable
Total DBH (cm)	21.90	**Maturity**	Mature
TPZ (m)	2.60	**Landscape significance**	Medium
Spread (m)	5.40	**Health**	Good
DoF (cm)	30.40	**SULE**	Short
SRZ (m)	2.00	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	63		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	6.70	**Structure**	Acceptable
Total DBH (cm)	25.00	**Maturity**	Mature
TPZ (m)	3.00	**Landscape significance**	Low
Spread (m)	3.60	**Health**	Fair
DoF (cm)	28.90	**SULE**	Short
SRZ (m)	2.00	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	64		
Species name	*Melaleuca styphelioides*		
Common name	Prickly-leaved tea tree		
Height (m)	18.30	**Structure**	Good
Total DBH (cm)	82.00	**Maturity**	Mature
TPZ (m)	9.80	**Landscape significance**	Medium
Spread (m)	12.80	**Health**	Excellent
DoF (cm)	79.00	**SULE**	Medium
SRZ (m)	3.00	**Planted?**	Unknown
Retention value	Medium	**RETAIN**	

Tree ID	65		
Species name	*Clerodendrum tomentosum*		
Common name	Hairy clerodendrum		
Height (m)	5.10	**Structure**	Acceptable
Total DBH (cm)	6.90	**Maturity**	Juvenile
TPZ (m)	2.00	**Landscape significance**	Low
Spread (m)	2.40	**Health**	Good
DoF (cm)	7.60	**SULE**	Short
SRZ (m)	1.50	**Planted?**	No
Retention value	Low	**REMOVE**	

Tree ID	66		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	10.90	**Structure**	Good
Total DBH (cm)	19.40	**Maturity**	Early mature
TPZ (m)	2.30	**Landscape significance**	Medium
Spread (m)	5.60	**Health**	???
DoF (cm)	26.60	**SULE**	Medium
SRZ (m)	1.90	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

Tree ID	67		
Species name	*Melaleuca leucadendra*		
Common name	Weeping paperbark		
Height (m)	13.40	**Structure**	Acceptable
Total DBH (cm)	32.30	**Maturity**	Early mature
TPZ (m)	3.90	**Landscape significance**	Medium
Spread (m)	5.60	**Health**	Good
DoF (cm)	37.70	**SULE**	Short
SRZ (m)	2.20	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	68		
Species name	*Podocarpus elatus*		
Common name	Illawarra plum		
Height (m)	5.10	**Structure**	Questionable
Total DBH (cm)	22.40	**Maturity**	Early mature
TPZ (m)	2.70	**Landscape significance**	Low
Spread (m)	3.60	**Health**	Good
DoF (cm)	24.10	**SULE**	Short
SRZ (m)	1.80	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	69		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	5.40	**Structure**	Acceptable
Total DBH (cm)	16.90	**Maturity**	Mature
TPZ (m)	2.00	**Landscape significance**	Medium
Spread (m)	3.90	**Health**	Excellent
DoF (cm)	20.50	**SULE**	Medium
SRZ (m)	1.70	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

Tree ID	70		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	14.70	**Structure**	Good
Total DBH (cm)	55.50	**Maturity**	Mature
TPZ (m)	6.70	**Landscape significance**	Medium
Spread (m)	11.00	**Health**	Good
DoF (cm)	65.30	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	71		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	9.00	**Structure**	Acceptable
Total DBH (cm)	18.30	**Maturity**	Early mature
TPZ (m)	2.20	**Landscape significance**	Low
Spread (m)	5.50	**Health**	Excellent
DoF (cm)	26.90	**SULE**	Short
SRZ (m)	1.90	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	72		
Species name	*Melaleuca styphelioides*		
Common name	Prickly-leaved tea tree		
Height (m)	15.00	**Structure**	Good
Total DBH (cm)	34.00	**Maturity**	Mature
TPZ (m)	4.10	**Landscape significance**	Medium
Spread (m)	6.10	**Health**	Excellent
DoF (cm)	43.40	**SULE**	Medium
SRZ (m)	2.30	**Planted?**	Yes
Retention value	Medium	**RETAIN**	

Tree ID	73		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	22.20	**Structure**	Good
Total DBH (cm)	52.40	**Maturity**	Mature
TPZ (m)	6.30	**Landscape significance**	Medium
Spread (m)	8.20	**Health**	Good
DoF (cm)	61.80	**SULE**	Medium
SRZ (m)	2.70	**Planted?**	Possibly
Retention value	Medium	**REMOVE**	

Tree ID	74		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	6.30	**Structure**	Questionable
Total DBH (cm)	20.60	**Maturity**	Early mature
TPZ (m)	2.50	**Landscape significance**	Low
Spread (m)	6.60	**Health**	Good
DoF (cm)	42.50	**SULE**	Short
SRZ (m)	2.30	**Planted?**	Yes
Retention value	Low	**REMOVE**	

Tree ID	75		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	17.50	**Structure**	Good
Total DBH (cm)	54.20	**Maturity**	Mature
TPZ (m)	6.50	**Landscape significance**	Medium
Spread (m)	9.00	**Health**	Excellent
DoF (cm)	66.10	**SULE**	Medium
SRZ (m)	2.80	**Planted?**	Yes
Retention value	Medium	**REMOVE**	

Tree ID	76		
Species name	*Callistemon viminalis*		
Common name	Weeping bottlebrush		
Height (m)	3.40	**Structure**	Poor
Total DBH (cm)	30.50	**Maturity**	Mature
TPZ (m)	3.70	**Landscape significance**	Low
Spread (m)	3.70	**Health**	Good
DoF (cm)	36.10	**SULE**	Short
SRZ (m)	2.20	**Planted?**	Yes
Retention value	Low	**RETAIN**	

Tree ID	77		
Species name	*Grevillea robusta*		
Common name	Silky oak		
Height (m)	19.60	Structure	Good
Total DBH (cm)	57.00	Maturity	Mature
TPZ (m)	6.80	Landscape significance	Medium
Spread (m)	8.50	Health	Good
DoF (cm)	65.80	SULE	Medium
SRZ (m)	2.80	Planted?	Possibly
Retention value	Medium	RETAIN	

Tree ID	78		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	10.40	Structure	Good
Total DBH (cm)	27.40	Maturity	Early mature
TPZ (m)	3.30	Landscape significance	Medium
Spread (m)	6.20	Health	Excellent
DoF (cm)	36.90	SULE	Medium
SRZ (m)	2.20	Planted?	Yes
Retention value	Medium	RETAIN	

Tree ID	79		
Species name	*Syzygium australe*		
Common name	Bush cherry		
Height (m)	10.40	Structure	Good
Total DBH (cm)	36.50	Maturity	Mature
TPZ (m)	4.40	Landscape significance	Medium
Spread (m)	8.90	Health	Excellent
DoF (cm)	55.70	SULE	Medium
SRZ (m)	2.60	Planted?	Yes
Retention value	Medium	RETAIN	

Tree ID	80		
Species name	*Melaleuca bracteata*		
Common name	Black tea tree		
Height (m)	13.40	Structure	Good
Total DBH (cm)	51.20	Maturity	Mature
TPZ (m)	6.10	Landscape significance	High
Spread (m)	13.00	Health	Excellent
DoF (cm)	62.90	SULE	Medium
SRZ (m)	2.70	Planted?	Yes
Retention value	High	RETAIN	

Tree ID	81				**Tree ID**	82			
Species name	*Callistemon viminalis*				**Species name**	*Callistemon viminalis*		
Common name	Weeping bottlebrush				**Common name**	Weeping bottlebrush		
Height (m)	9.40	**Structure**	Acceptable		**Height (m)**	5.60	**Structure**	Questionable
Total DBH (cm)	47.60	**Maturity**	Mature		**Total DBH (cm)**	37.10	**Maturity**	Mature
TPZ (m)	5.70	**Landscape significance**	Medium		**TPZ (m)**	4.50	**Landscape significance**	Medium
Spread (m)	9.10	**Health**	Good		**Spread (m)**	7.70	**Health**	Good
DoF (cm)	55.80	**SULE**	Medium		**DoF (cm)**	46.20	**SULE**	Medium
SRZ (m)	2.60	**Planted?**	Yes		**SRZ (m)**	2.40	**Planted?**	Yes
Retention value	Medium	**RETAIN**			**Retention value**	Medium	**RETAIN**	

Notes: * = non-native, exotic species. DBH (cm) is the diameter at breast height (1.4m from ground level). DOF (cm) is the diameter of the trunk above the root flare. TPZ (m) is the tree protection zone in metres in a radius from the centre of the trunk. SRZ (m) is the structural root zone in metres in a radius from the centre of the trunk

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