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Billard Leece Partnership
Level 6/72-80 Cooper Street
Surry Hills, NSW 2010

Attention: Michael Cashell

Delivered by email: Michaelc@blp.com.au

**Subject: Arborist Report for Proposed Warnervale Primary School site, 75
Warnervale Road, Warnervale NSW.**

Kleinfelder have managed and undertaken the arborist assessment and report for all trees within the specified area, to inform future planning for the potential development of a primary school at 75 Warnervale Road, Warnervale.

This Stage 1 assessment has utilised suitably qualified arborists who are on the AQF5 Arborist Panel Listing-DoEAMD-17-276 (September 2018).

Sincerely,

Kleinfelder Australia Pty Ltd

Dan Pedersen
BSc, BPAD-L3, EngTech GFireE
Senior Ecologist/Bushfire



Mobile: 0427 337 783

1. PROJECT OVERVIEW

Kleinfelder understand that Billard Leece Partnership (BLP) (working on behalf of the NSW Department of Education) requires an Arborist Assessment Report to be conducted to support the development application for the property held by the Client at 75 Warnervale Road Warnervale. Lot 71 DP 7091 (**Figure 1**).

1.1 SCOPE OF WORKS

This Arborist assessment report involves a survey of identified trees (as detailed in **Figure 1**) to assess the following;

- Tree Number
- Species
- Height and Girth
- Health (using the SULE process),
- To retain or remove and importance for tree protection

To satisfy the DoE requirements for suitably qualified arborist, we have identified and used Joseph Pidutti Consulting Arborist, who is listed on the AQF5 Arborist Panel Listing-DoEAMD-17-276 (September 2018).

Trees outside of the area proposed for development have not been assessed in this report. An assessment of the flora and fauna outside of the development area and within the subject site are detailed in the Kleinfelder report "Preliminary Ecological Assessment for proposed development of Lot 71 DP 7091, Warnervale Road, Warnervale NSW" (Kleinfelder 2018)

1.2 IDENTIFICATION AND LOCATION OF TREES

Based on discussion and confirmation with BLP design drawings and staging, and the purpose that the vegetated portion would be suitably covered by the Kleinfelder report "Preliminary

Ecological Assessment”, Kleinfelder staff attended the site and identified and marked (using metal tags) the locations of trees on the development site on 18 December 2018 (trees having trunks greater than 10cm at breast height or 120cm).

All tagged and numbered trees were identified to location, species, height and girth and recorded and subsequently mapped using GIS. **(Figure 1)**. Location of trees used a method of distance from survey point and were corrected during mapping as required. **The tree location survey effort is not conducted by a certified or registered surveyor, and cannot be relied upon for accuracy less than 1m.**

1.3 ASSESSMENT OF TREE CONDITION

A Level 5 qualified arborist was engaged to assess the condition of the identified trees using the SULE process. The SULE report is attached in **Appendix 1**.

Regional Context

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DRAWN BY: THawkins

DATA SOURCE:
LPI - 2017
Nearmap - 2018

Locality

Warnervale Public School
75 Warnervale Road, Warnervale
Billard Leece Pty. Ltd.

FIGURE:

1

STATEMENT OF LIMITATIONS

This report has been prepared by Kleinfelder Australia Pty Ltd (Kleinfelder) and may be used only by the Client and its designated representatives or relevant statutory authorities and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two (2) years from the date of the report.

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

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The findings and conclusions contained within this report are relevant to the conditions of the site and the state of legislation currently enacted in the relevant jurisdiction in which the site is located as at the date of this report.

Additionally, the findings and conclusions contained within this report are made following a review of certain information, reports, correspondence and data noted by methods described in this report including information supplied by the client or its assigns. Kleinfelder has designed and managed the program for this report in good faith and in a manner that seeks to confirm the information provided and test its accuracy and completeness. However, Kleinfelder does not provide guarantees or assurances regarding the accuracy, completeness and validity of information and data obtained from these sources and accepts no responsibility for errors or omissions arising from relying on data or conclusions obtained from these sources.

Any representation, statement, opinion or advice expressed or implied in this report is made on the basis that Kleinfelder, its agents and employees are not liable to any other person taking or not taking (as the case may be) action in respect of any representation, statement, opinion or advice referred to above.

APPENDIX 1.SULE REPORT AND TREE REGISTER

**JOSEPH PIDUTTI
CONSULTING ARBORIST**

Diploma of Arboriculture (AQF Level 5)

Certificate No. AHC50510 December 2014

Certificate No. RUH50198 December 2004 -2014

ABN 19 590 337 549

BRN TO356519

3 Victoria Road Tingira Heights 2290 NSW

Ph 02 49 471219 Mobile 0412 996659

E-mail: jparborist@bigpond.com Web: www.josephpiduttiarborist.com.au

SULE (Safe Useful Life Expectancy) REPORT

**WARNER VALE ROAD
WANRNER VALE**

Prepared for

KLEINFELDER

26th JANUARY 2019

By
Joseph Pidutti
Diploma in Arboriculture

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Appendix 2 SULE Ratings Classifications

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1. INTRODUCTION

The purpose of this report is to apply a SULE (Safe Useful Life Expectancy) for each individual tree on site. SULE Ratings will be applied based on the results of the tree assessment, location and species type

Whilst comment is provided regarding the general overall condition of trees this evaluation is not intended for use for any other purposed other than that proposed. Assessment and recommendations are not provided for in this evaluation regarding their management in matters relating to risk / safety, existing condition or address any issues associated with impacts of construction

Habitat value or ecological significance of trees is not be addressed in this report and should be assessed separately by a suitably qualified Ecologist if required.

Assessment does not include any soil testing, root inspection, aerial inspection, testing for structural strength, decay or any other investigative inspection methods.

The report will contain the following information:

- Tree Assessment / Evaluation
- SULE Ratings

The report should be read and considered in its entirety.

2. SULE – Safe Useful Life Expectancy

The SULE method (developed by Jeremy Barrel) of assessment involves classifying trees, after an inspection, into one of five categories that will give an indication of its safe useful life expectancy.

The value system is a planning tool only and should be taken in context with other attributes, characteristics or site conditions (Appendix 2).

SULE takes into consideration a number of factors when establishing a category:

- Species Type
- Age of tree
- How health will affect safety
- How tree structure and size will affect safety
- How location will affect safety

3. LOCATION & SITE DESCRIPTION

Address: Warner Vale Road Warner Vale

The site is was formerly Warner Vale Public School. Whilst its use as a school has been abandoned the existing building and immediate surrounding grounds is still used as a centre for people with disabilities.

The site has a northeasterly on land that slightly slopes down from the west to east. Existing vegetation consists of numerous mature native trees generally located towards the perimeter boundary lines and numerous other medium size native trees located near existing buildings.

The site consists of numerous buildings, paths, recreational areas and driveway access generally located towards the northwestern end of the site. the remainder of the site. The remainder of the site consist of vacated sports oval and open wood land areas that has since been overgrown with grass and weeds.

The site is bordered by other large rural type properties to the south east and west and by street frontage to the north.



Figure 1 –Assessment Site

4. METHODOLOGY

A visual tree assessment was made on the 25th of January 2019 to evaluate the health and condition of these trees.

Assessment was by means of a level 2 - Basic Assessment as described in the International Society of Arboriculture (ISA) Tree Risk Assessment Manual and undertaken from the ground only.

A level 2 Basic Assessment consists of a detailed visual inspection of a tree and its surrounding site. It involves a complete walk around the tree looking at the site, buttress roots, trunk and branches. The tree is also looked at from a distance and close up to consider crown shape and surroundings. The use of simple tools to acquire more information about the tree or any potential defects may be used but is not mandatory

Tree identification was based on the supplied tree identification sheets undertaken by other sources.

Trees numbers were followed as previously numbered and tagged by other sources.

Trunk diameters were measured using a diameter tape. In general tree heights and canopy spreads were estimated however some taller trees were measured using a Haglof EC11 height measuring device to obtain their height and also used as a guide in estimating heights of the others

Tree data was recorded on a hand-held Trimble TDC100 GPS device.

Photographs were taken using a digital camera; no enhancements were made to any photographs used in this report.

Assessment did not include soil testing, root inspection, aerial inspection or any other investigative inspection methods.

5. LIMITATIONS

Tree health and environmental conditions can change at any time due to unforeseen circumstances and as such the contents contained in this assessment refer to the tree's condition on the day of inspection only.

Assessment of the tree was by visual inspection from the ground only and as such not all faults may have been detected or extent of defects able to be fully determined. In such cases further more advanced assessment techniques such as aerial inspections for evaluation of structural defects in trunks and branches, decay testing to determining the amount of sound and root inspections would need to be undertaken in further determining the structural integrity of the trees.

A visual assessment can only take into consideration the outward signs of a trees condition. There are many problems that can occur inside a tree that cannot be seen, such as fungal diseases and undetected structural faults such as decay and hollows. Problems can also occur within the root systems due to contaminated soils and root diseases.

These issues would require further investigative methods to be undertaken in further determining the health and condition of the tree.

No guarantee can be given nor can it be predicted that branch failure or uprooting (windthrow) would not occur as a result of extreme winds, storm activity, lightning strike and /or excessive rainfall.





No tree can be declared completely safe and total mitigation of risk can only be achieved by removal. As such there is always some degree of risk that branch or root crown failure may occur

APPENDIX 1 - TREE EVALUATION SHEETS & SULE RATINGS

Legend

HGT Height DBH Diameter at Breast Height(1.4m)

J – Juvenile S/M - Semi Mature M - Mature

	Long SULE		Medium SULE
	Short SULE		Removals

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
1	<i>Eucalyptus resinifera</i> Red Mahogany	M	15	1211	250	Good	Good / Fair	Initial stage of decline. Dieback of small branches and twigs. Initial stage of decline Thinning of crown foliage No significant structural defects	3d
2	<i>Eucalyptus capitellata</i> Brown Stringybark	M	16	4654	440	Good / Fair	Fair	Initial stage of decline Thinning of crown foliage Initial stage of decline state of decline. Dead small & medium size branches & dieback of other branches Co-dominant trunks minor bark inclusion	3d
3	<i>Eucalyptus capitellata</i> Brown Stringybark	M	12	1922	400	Fair	Fair	Initial stage of decline Thinning of crown foliage Moderate state of decline. Numerous dead small & medium size branches & dieback of other branches Crown density < than 50% Poor habit & form Suppressed canopy orientated to the south Poor representative of the species	3b
4	<i>Angophora costata</i> Smooth barked Apple	M	16	3333	450	Good	Good	No significant signs of dieback or decline No significant structural defects	1b

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
5	<i>Angophora costata</i> Smooth barked Apple	S/M	15	1314	260	Good	Good	No significant structural defects Some dead medium size branches but no significant signs of decline	2d
6	<i>Angophora costata</i> Smooth barked Apple	M	15	2714	360	Good	Good / Fair	No significant structural defects Dieback of some medium & small size branches but no significant signs of decline Fair habit & form Suppressed canopy orientated to the southwest	2d
7	<i>Eucalyptus resinifera</i> Red Mahogany	M	20	6666	720	Good	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline Dieback of some other branches	2d
8	<i>Angophora costata</i> Smooth barked Apple	S/M	15	1551	260	Good	Good / Fair	No significant structural defects Some dead medium size branches but no significant signs of decline Fair habit & form Suppressed canopy orientated to the southeast	2d
9	<i>Casuarina glauca</i> Swamp Oak	S/M	10	1131	200	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
10	<i>Angophora costata</i> Smooth barked Apple	M	15	4244	380	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
11	<i>Eucalyptus resinifera</i> Red Mahogany	M	18	1212	320	Good	Good / Fair	Some dead small & medium size branches but no significant signs of decline	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
12	<i>Eucalyptus capitellata</i> Brown Stringybark	M	14	9152	380 360	Fair	Good	No significant signs of dieback or decline Moderate lean Co-dominant trunks moderate bark inclusion Fair habit & form unsymmetrical canopy spread orientated to the north	2b 2c
13	<i>Eucalyptus capitellata</i> Brown Stringybark	M	20	8272	450	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
14	<i>Angophora costata</i> Smooth barked Apple	M	18	6477	490	Good	Good	No significant structural defects Some dead small & medium size branches but no significant signs of decline	1b
15	<i>Angophora costata</i> Smooth barked Apple	M	14	1561	320	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Suppressed canopy orientated to the east	3c
16	<i>Angophora costata</i> Smooth barked Apple	M	18	2646	480	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
17	<i>Corymbia maculata</i> Spotted Gum	M	25	8668	730	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
18	<i>Eucalyptus resinifera</i> Red Mahogany	M	15	8335	680	Good / Fair	Good / Fair	Dieback of small, medium & large branches No significant signs of dieback or decline No significant structural defects	2d
19	<i>Corymbia maculata</i> Spotted Gum	M	25	6474	550	Good	Good	No significant structural defects Some dead small & medium size branches but no significant signs of decline	1b

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
20	<i>Eucalyptus resinifera</i> Red Mahogany	M	25	4855	700	Good	Good / Fair	No significant structural defects Dieback of some small branches but no significant signs of decline Feathering shoots along stems of branches indicate tree is under stress.	2d
21	<i>Eucalyptus capitellata</i> Brown Stringybark	M	10	2545	550	Fair / Poor	Fair / Poor	Moderate state of decline. Numerous dead small & medium size branches & dieback of other branches Previous failure of co-dominant scaffold to east	3b
22	<i>Eucalyptus capitellata</i> Brown Stringybark	M		4473	470	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
23	<i>Corymbia maculata</i> Spotted Gum	M	25	7374	560	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
24	<i>Corymbia maculata</i> Spotted Gum	M	25	6254	490 260	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
25	<i>Angophora costata</i> Smooth barked Apple	M	14	5546	330	Good	Good	No significant structural defects Dieback of some small to medium size branches but no significant signs of decline	1b
26	<i>Eucalyptus capitellata</i> Brown Stringybark	M	18	3528	600	Good / Fair	Poor	Advanced state of decline Dieback of small, medium & large branches Crown density < than 50%	4a
27	<i>Corymbia maculata</i> Spotted Gum	M		6635	490	Good	Good	No significant signs of dieback or decline No significant structural defects Minor borer damage to trunk Sap flow may indicate the presence of borers	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
28	<i>Corymbia maculata</i> Spotted Gum	M	25	2526	500	Good	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline	1b
29	<i>Corymbia maculata</i> Spotted Gum	M	25	4272	440	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
30	<i>Corymbia maculata</i> Spotted Gum	M	25	2763	490	Good	Good	No significant structural defects Some dead small size branches but no significant signs of decline	1b
31	<i>Eucalyptus capitellata</i> Brown Stringybark	M	12	1775	400	Fair	Fair	Initial stage of decline state of decline. Dead small & medium size branches & dieback of other branches Co-dominant trunks moderate bark inclusion	3d
32	<i>Eucalyptus resinifera</i> Red Mahogany	S/M	12	1212	220	Good	Fair	Initial state of decline. Dieback of small branches & thinning of crown foliage. Crown density approx. 70% No significant structural defects	3b
33	<i>Eucalyptus resinifera</i> Red Mahogany	M	15	5852	360	Good / Fair	Good / Fair	No significant signs of dieback or decline No significant structural defects	2d
34	<i>Eucalyptus fibrosa</i> Blue-leafed Ironbark	M	20	1133	350	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
35	<i>Eucalyptus fibrosa</i> Blue-leafed Ironbark	M	25	5342	480	Fair	Good	No significant signs of dieback or decline Co-dominant trunks major bark inclusion and linear ribbing	3d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
36	<i>Melaleuca nodosa</i> Prickly Paper bark	S/M	5	2121	200	Good	Good	No significant signs of dieback or decline No significant structural defects Poor habit & form canopy spread substantially suppressed by larger surrounding trees Fair habit & form Canopy spread partially restricted by larger adjacent tree	2c
37	<i>Angophora costata</i> Smooth barked Apple	M	15	4642		Good / Fair	Good / Fair	Dieback of some small branches but no significant signs of decline Co-dominant trunks no significant bark inclusions	2d
38	<i>Angophora costata</i> Smooth barked Apple	M	16	3666	430 370	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Co-dominant trunks no significant bark inclusions Minor borer damage to trunk Sap flow a may indicate the presence of borers	2d
39	<i>Eucalyptus capitellata</i> Brown Stringybark	M	15	7744	420 300	Good / Fair	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline	2d
40	<i>Eucalyptus capitellata</i> Brown Stringybark	M	15	4466	360	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
41	<i>Eucalyptus capitellata</i> Brown Stringybark	S/M	10	2722	250	Good / Fair	Good / Fair	No significant structural defects Dieback of some small branches but no significant signs of decline Fair habit & form Canopy spread partially suppressed by surrounding trees	2c
42	<i>Eucalyptus capitellata</i> Brown Stringybark	M	15	7777	500	Good	Good	No significant signs of dieback or decline No significant structural defects	1b

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
43	<i>Eucalyptus capitellata</i> Brown Stringybark	M	16	4427	400	Good / Fair	Fair	Initial stage of decline state of decline. Dead small & medium size branches & dieback of other branches No significant structural defects	3d
44	<i>Angophora costata</i> Smooth barked Apple	S/M	10	1131	170	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Canopy spread partially suppressed by surrounding trees	2c
45	<i>Angophora costata</i> Smooth barked Apple	M	14	1513	480	Poor	Good	Major trunk defect. Exposed dead & decaying wood affecting approx. 50% trunk circumference Substantial borer damage to trunk Poor response growth No significant signs of dieback or decline	4a
46	<i>Angophora costata</i> Smooth barked Apple	M	15	5566	400	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
47	<i>Angophora costata</i> Smooth barked Apple	M	25	7686	550	Good	Good	No significant structural defects Some dead small size branches but no significant signs of decline	1b
48	<i>Eucalyptus grandis</i> Flooded Gum	M	25	3 5 10 10	600	Good / Fair	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline Excessive end weight particularly on lower overextended branches	2d
49	<i>Eucalyptus grandis</i> Flooded Gum	M	25	3399	550	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
50	<i>Eucalyptus robusta</i> Swamp Mahogany	M	25	5377	720	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
51	<i>Eucalyptus saligna</i> Sydney Blue Gum	M	20	10 10 10 8	730	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Excessive end weight particularly on lower overextended branches	2d
52	<i>Corymbia citriodora</i> Lemon- scented Gum	M	18	7131	330	Good	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Suppressed canopy orientated to the north	2d
53	<i>Corymbia citriodora</i> Lemon- scented Gum	M	18	6228	390	Good	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Suppressed canopy orientated to the northwest	2d
54	<i>Eucalyptus botryoides</i> Southern Mahogany	M	20	10 10 8 10	660	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Excessive end weight particularly on lower overextended branches Previous failure of large scaffold to south	2d
55	<i>Eucalyptus resinifera</i> Red Mahogany	M	10	2222	300 200	Fair	Good / Fair	Initial stage of decline. Dieback of small branches and twigs. Whilst no significant signs of decline were evident health & vigour appears to be slightly diminished Co-dominant trunks moderate bark inclusion	3d
56	<i>Casuarina glauca</i> Swamp Oak	M	20	1413	440	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Canopy spread partially restricted by larger adjacent tree	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
57	<i>Eucalyptus grandis</i> Flooded Gum	M	30	6 10 10 8	740	Fair	Good / Fair	Some dead small & medium size branches but no significant signs of decline Dead large size branches but no significant signs of decline Possible cavity /decay in north side upper trunk at approx. 10m high	3d
58	<i>Casuarina glauca</i> Swamp Oak	S/M	7	2361	260	Fair / Poor	Good	No significant signs of dieback or decline No significant structural defects Poor habit & form Suppressed canopy orientated to the east Poor representative of the species	3c
59	<i>Corymbia gummifera</i> Red Bloodwood	M	20	8888	740	Good / Fair	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline Excessive end weight particularly on lower overextended branches	2d
60	<i>Casuarina glauca</i> Swamp Oak	M	12	3323	310	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
61	<i>Casuarina glauca</i> Swamp Oak	M	16	5533	450	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
62	<i>Eucalyptus resinifera</i> Red Mahogany	M	18	7777	540	Good	Good / Fair	Initial stage of decline state of decline. Dead small & medium size branches & dieback of other branches No significant structural defects	2d
63	<i>Corymbia maculata</i> Spotted Gum	M	28	4664	870	Good / Fair	Good	No significant signs of dieback or decline Cavity in west facing leading scaffold at approx. 12m high	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
64	<i>Eucalyptus botryoides</i> Southern Mahogany	S/M	7	2171	250	Poor	Good	No significant signs of dieback or decline Poor habit & form unbalanced crown orientated to the east	3b
65	<i>Eucalyptus botryoides</i> Southern Mahogany	M	10	3163	320	Good / Fair	Good / Fair	No significant structural defects Some dead small size branches but no significant signs of decline	2c
66	<i>Callistemon salignus</i> White Bottlebrush	S/M	8	3232	210	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
67	<i>Lophostemon confertus</i> Brush Box	M	12	3242	320	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
68	<i>Lophostemon confertus</i> Brush Box	M	12	4243	320	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
69	<i>Lophostemon confertus</i> Brush Box	M	12	4343	360	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
70	<i>Lophostemon confertus</i> Brush Box	M	10	4444	300	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
71	<i>Kunzea spp.</i> Kunzea	M	8	3333	300 180	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
72	<i>Kunzea spp.</i> Kunzea	M	8	4123		Good	Good / Fair	No significant signs of dieback or decline No significant structural defects Fair habit & form Suppressed canopy orientated to the northwest	2d
73	<i>Lophostemon confertus</i> Brush Box	S/M	10	1111	200	Good	Good	No significant signs of dieback or decline No significant structural defects	1b

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
74	<i>Eucalyptus nicholii</i> Nicholi	M	15	3462	530	Good	Good / Fair	No significant signs of dieback or decline No significant structural defects Not suitable to position for long term retention	3b
75	<i>Lophostemon confertus</i> Brush Box	S/M	12	2222	280	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
76	<i>Banksia integrifolia</i> Coast Banksia	S/M	3	1111	170	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
77	<i>Lophostemon confertus</i> Brush Box	S/M	10	2333	230	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
78	<i>Leptospermum petersonii</i> Lemon-scented tea tree	M	5	2316	300	Fair	Good	No significant signs of dieback or decline Excessive end weight particularly on lower overextended branches Moderate lean Fair habit & form Suppressed canopy orientated to the west	3b
79	<i>Leptospermum petersonii</i> Lemon-scented tea tree	M	6	4141	300	Good / Fair	Good	No significant signs of dieback or decline Fair habit & form Canopy spread partially restricted by larger adjacent tree Co-dominant trunks moderate bark inclusion	2c
80	<i>Eucalyptus robusta</i> Swamp Mahogany	M	7	5341	300	Good	Good / Fair	No significant structural defects Dieback of some small branches but no significant signs of decline	2d
81	<i>Lophostemon confertus</i> Brush Box	M	12	5544	380	Good	Good	No significant signs of dieback or decline No significant structural defects	1b

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
82	<i>Eucalyptus nicholii</i> Nicholi	M	10	4344	390	Good / Fair	Fair	Moderate to advanced state of decline. Numerous dead small & medium size branches & dieback of other branches Not suitable to position No significant structural defects	3b
83	<i>Callistemon viminalis</i> Weeping Bottlebrush	M	8	3632	300 210	Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion Epicormic shoots on ends of stem stubs on north trunk where previous lopping cuts have been made	3d
84	<i>Banksia integrifolia</i> Coast Banksia	M	8	2332	270	Good	Good	No significant signs of dieback or decline No significant structural defects	2d
85	<i>Lophostemon confertus</i> Brush Box	S/M	10	2332	180 180 160	Fair	Good	No significant signs of dieback or decline Multi-stemmed co-dominant trunks	3b
86	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark	M	6	3122	250 200	Fair	Good	No significant signs of dieback or decline Fair habit & form Suppressed canopy orientated to the north Co-dominant trunks moderate bark inclusion	3d
87	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark		7	4141	300 200	Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion Fair habit & form Suppressed canopy orientated to the northeast	3d
88	<i>Liquidambar styraciflua</i> Liquidamber	S/M	8	1322	250	Good	Good	No significant signs of dieback or decline No significant structural defects	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
89	<i>Syzigium oleosum</i> Lily Pily	S/M	7	1111	150 150 100	Good / Fair	Good	No significant signs of dieback or decline No significant structural defects	2d
90	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark	M	12	3223	430	Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion	2d
91	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark	M	12	5544	500	Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion	2d
92	<i>Lophostemon confertus</i> Brush Box	S/M	12	2322	270	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
93	<i>Eucalyptus resinifera</i> Red Mahogany	M			330	Poor	Poor	Advanced state of decline Dieback of small, medium & large branches Crown density < than 20%	4a
94	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark	M		1413	400	Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion	2d
95	<i>Lophostemon confertus</i> Brush Box	S/M	12	1321	200	Good	Good	No significant signs of dieback or decline No significant structural defects	1b
96	<i>Melaleuca quinquenervia</i> Broad leafed Paper Bark	M	12	4553	400 530	Good / Fair	Good	No significant signs of dieback or decline Co-dominant trunks moderate bark inclusion	2d

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
97	<i>Callistemon salignus</i> White Bottlebrush	M	8	3344	320 200 180	Good / Fair	Good	No significant signs of dieback or decline Co-dominant trunks minor bark inclusion	2d
98	<i>Melaleuca decora</i> Paper bark	M	8	6252	330 200 180	Fair	Good / Fair	Dieback of some small branches but no significant signs of decline Co-dominant trunks minor bark inclusion Fair habit & form unsymmetrical canopy spread orientated to the northeast	2d
99	<i>Melaleuca decora</i> Paper bark	M	12	3333	630	Good / Fair	Good	No significant signs of dieback or decline Co-dominant trunks minor bark inclusion	2d
100	<i>Eucalyptus capitellata</i> Brown Stringybark	M	15	3524	420	Good	Good / Fair	No significant structural defects Some dead small & medium size branches but no significant signs of decline	2d
101	<i>Angophora costata</i> Smooth barked Apple	M	10	1111	330	Poor	Fair / Poor	Moderate to advanced state of decline. Numerous dead small & medium size branches & dieback of other branches Dieback of small, medium & large branches Major trunk defect. Exposed dead & decaying wood affecting approx. 50%trunk circumference extending the length of the trunk Extensive decay/ rot at base of trunk Poor response growth	4c
102	Dead Tree	M	7	3122	380	Poor	Poor	Dead Tree No hollows noticeable that would appear to support hollow dependant fauna	4a

Tree No	Botanical Name Common Name	Age	HGT (m)	Canopy Spread NSEW(m)	DBH (m)	Structure	Health	Comments	SULE
103	<i>Angophora costata</i> Smooth barked Apple	S/M	10	1221	250	Good	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Canopy spread partially suppressed by surrounding trees	2d
104	<i>Eucalyptus capitellata</i> Brown Stringybark	S/M	12	5132	250	Good	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Canopy spread partially suppressed by surrounding trees	2d
105	<i>Eucalyptus capitellata</i> Brown Stringybark	M	12	1522	330	Good	Good	No significant signs of dieback or decline No significant structural defects Fair habit & form Canopy spread partially suppressed by surrounding trees	2d
106	Dead Tree	M	10	3111	420	Poor	Poor	Dead Tree Possible habitat tree	4a
107	<i>Corymbia maculata</i> Spotted Gum	S/M	12	1121	180 160	Fair	Good	No significant signs of dieback or decline Multi-stemmed trunks moderate bark inclusion	3b

11. REFERENCES

Dunster, Julian A., E. Thomas Smiley, Nelda Matheny, and Sharon Lilly. 2013 Tree Risk Assessment Manual. Champaign, Illinois: International Society of Arboriculture

Barrell, J., (1993) 'Pre-planning Tree Surveys: Safe Useful Life Expectancy (SULE) is the Natural Progression' Arboricultural Journal Vol. 17, pp 33-46

12. DISCLAIMER

The conclusions and recommendations contained in this report refer to the tree's condition on the day of inspection only. The report should be read and considered in its entirety. All care has been taken using the most up to date arboricultural information in the preparation of this report.

The report is based on visual inspection only. No guarantee can be given nor can it be predicted that branch failure or uprooting (windthrow) would not occur as a result of high winds and /or excessive rainfall and other unpredictable events. Tree health and environmental conditions can change at any time due to unforeseen circumstances.

Report by



Diploma of Arboriculture

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APPENDIX 2 – SULE - Safe Useful Life Expectancy (CLASSIFICATIONS)

1. Long SULE

- a. Structurally sound and can accommodate future growth
- b. Long term potential with minor remedial treatment
- c. Trees of special significance which warrant extra care

2. Medium SULE

- a. Will live between 15-40 years
- b. Will live for more than 40 years but would be removed for safety or nuisance reasons
- c. May live for more than 40 years but will interfere with more suitable specimens and need removal eventually
- d. More suitable for retention in the medium term with some remedial care

3. Short SULE

- a. Trees that may only live between 5-15 more years
- b. May live for more than 15 years but would need removal for safety or other reasons
- c. Will live for more than 15 years but will interfere with more suitable specimens or provide space for replacement plantings
- d. Require substantial remedial care but are only suitable for short term retention

4. Removals

- a. Dead, dying or seriously diseased
- b. Dangerous trees through instability or loss of adjacent trees
- c. Structural defects such as cavities
- d. Damaged that are clearly not safe to retain
- e. May or are causing damage to structures
- f. That will become dangerous

5. Moved or Replaced

Trees, which can be reliably moved or replaced

- a. Small trees less than 5 meters
- b. Young trees between 5-15 years
- c. Trees that have been regularly pruned to control growth

APPENDIX 3 - PHOTOS



Photo 1
Trees located towards the northeastern end of the site



Photo 2
Trees located towards the southeastern end of the site



Photo 3
Trees located toward front middle northern part of the site



Photo 4
Trees located around buildings



Photo 5
Trees located around buildings



Photo 6
Trees located around buildings



Photo 7
Trees located along front northwestern end of the site



Photo 8
Trees located along the front northern boundary (adjacent to the driveway)



Photo 9 - Trees located toward the rear southern boundary



Photo 10 - Trees located in the front northeast corner on the nature strip reserve



Photo 11 – Tree Nos. 1, 2 & 3 initial state of decline and / or poor habit & form



Photo 12 – Tree No. 21 displays relatively poor overall condition



Photo 13 – Tree No. 26 Advanced state of decline and / or poor habit & form



**Photo 14 – Tree No. 45
Major structural defect**



**Photo 15 – Tree No. 43
Initial/ moderate state of decline and / or
poor habit & form**



Photo 16 – Tree No. 61 poor habit & form



Photo 17 – Tree No. 64 poor habit & form

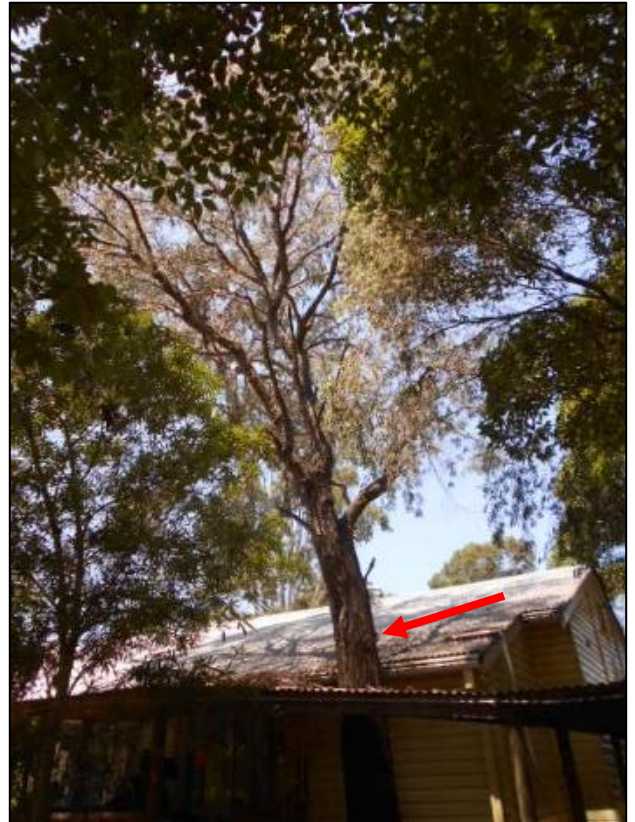
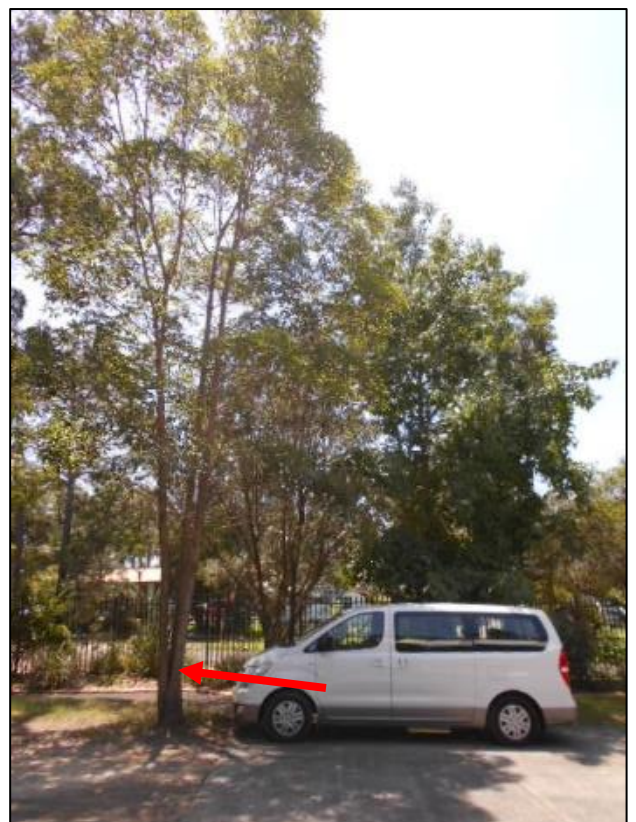


Photo 18 – Tree No. 74 Not suitable to position for long term retention



**Photo 19 – Tree No. Moderate state of decline
Not suitable to position for long term retention**



**Photo 20 – Tree No. 85
Moderate structural defects**



Photo 21 – Tree No. 93 Advanced state of decline state of decline



**Photo 22 – Tree No. 101
Major structural defects**



**Photo 23 – Tree No. 102 & 106
Dead trees**