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Member of the Australian Institute of Horticulture and Arboriculture Australia

ARBORIST'S REPORT



PROPERTY OF THE PROPOSED DEVELOPMENT:	22 Eurimbla Street, Thornton
TREES TO BE REMOVED:	All Trees
DATE OF REPORT:	19 June 2023
REQUESTED BY:	Advantage Building Design

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REPORT SUMMARY

The report recommends the removal of all trees within the property boundaries, and the removal of one neighbouring tree for a proposed development, as they cannot be adequately protected in accordance with AS 4970 (2009), *Protection of Trees on Development Sites*.

INTRODUCTION

Project Brief

Assess all trees on site, consider a proposed development and supply a written report.

Methodology

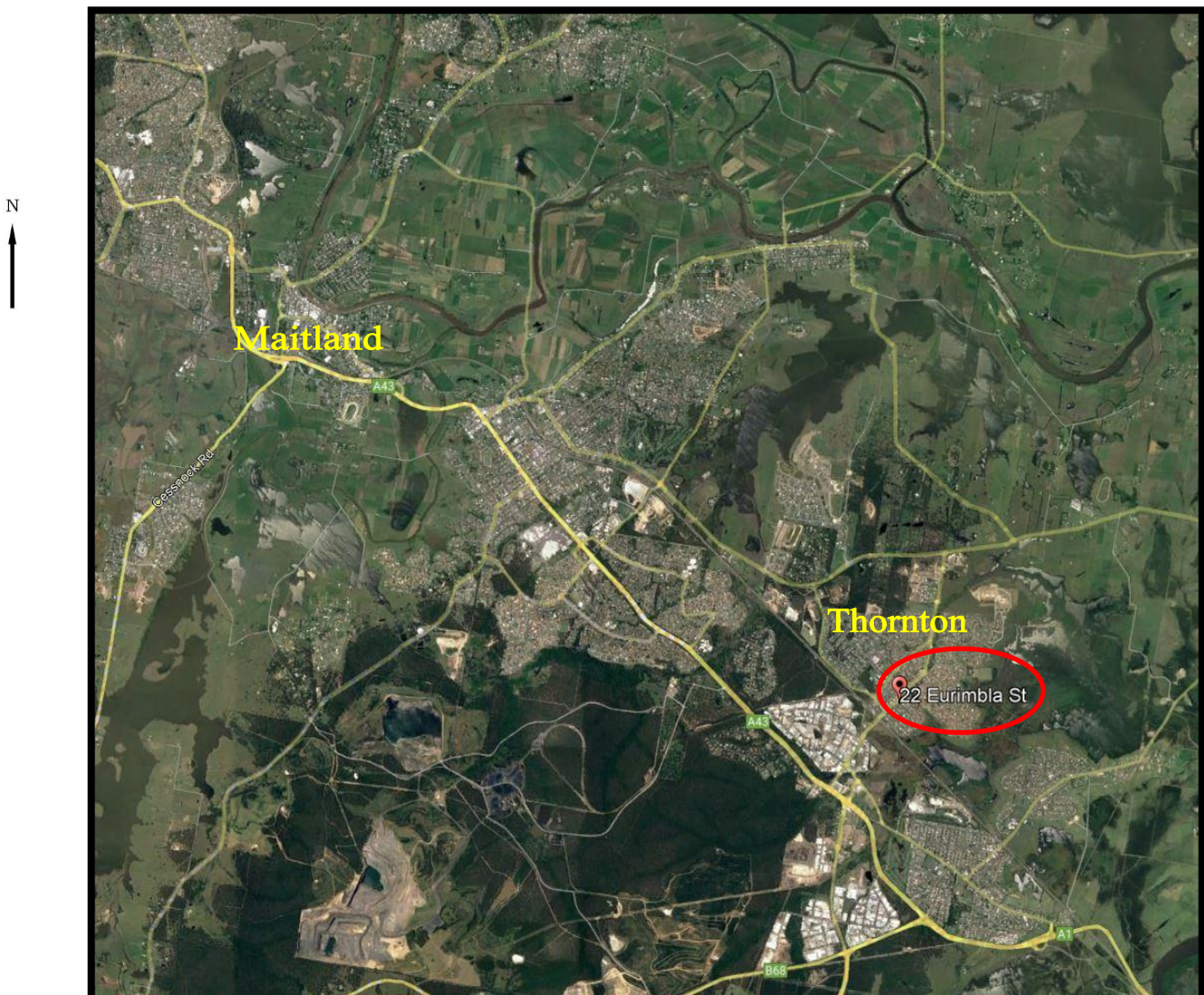
A ground level Visual Tree Assessment (VTA) was made of the trees on site on the 8th of June 2023. No internal testing e.g. Resistograph or drilling, or excavation was carried out. The trees were assessed from observations made during the inspection.

Tree spread and height were [mostly] unable to be measured with a laser device due to their proximity to each other, and estimation were necessary.

SITUATION OVERVIEW

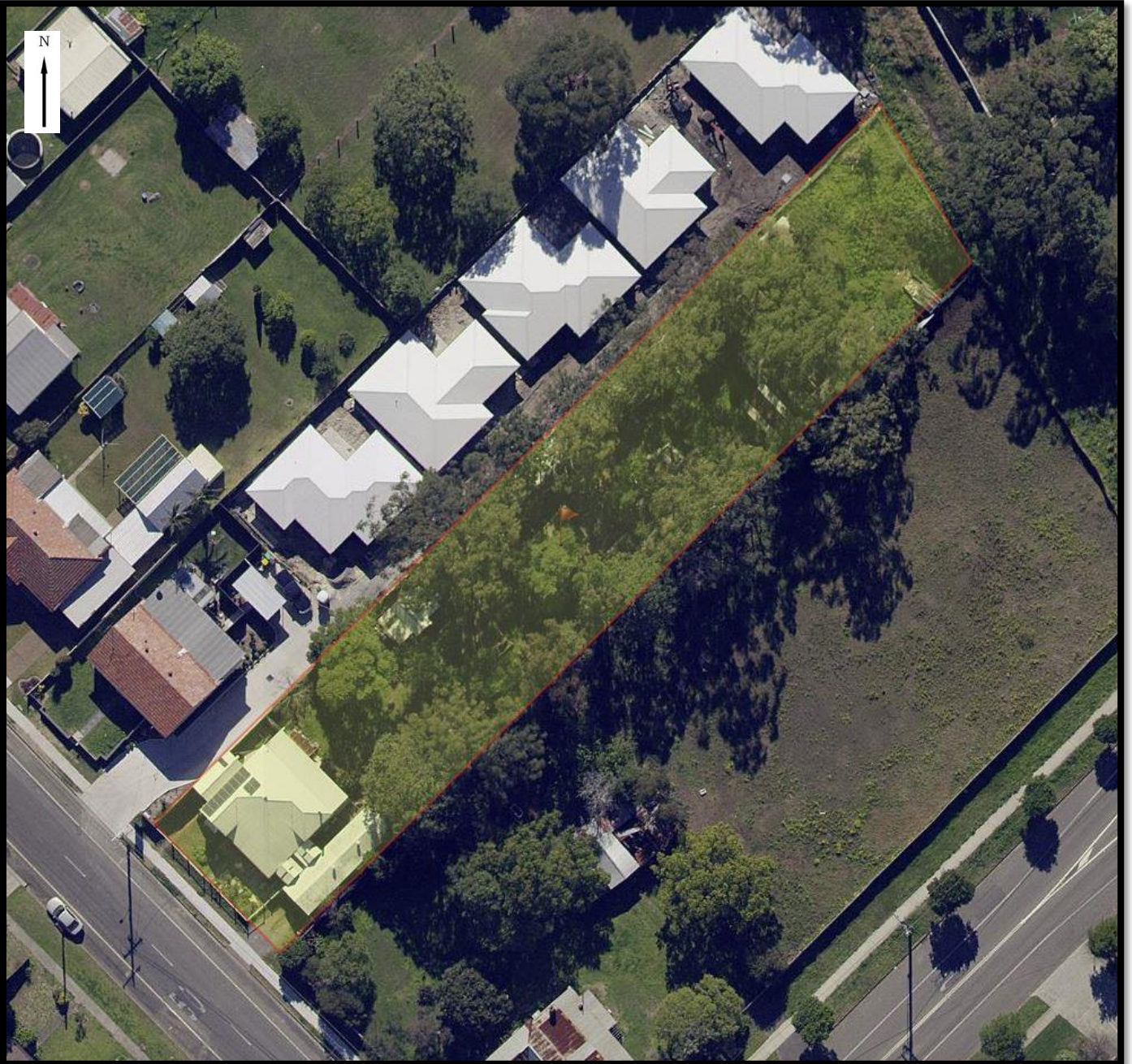
The supplied plan of the proposed development shows tha removal of all vegetation on site will be necessary for the proposed development.

SITE LOCATION



The site location (indicated).

SITE PHOTOGRAPH



An aerial photograph (Six Maps - 2018) showing the subject property.

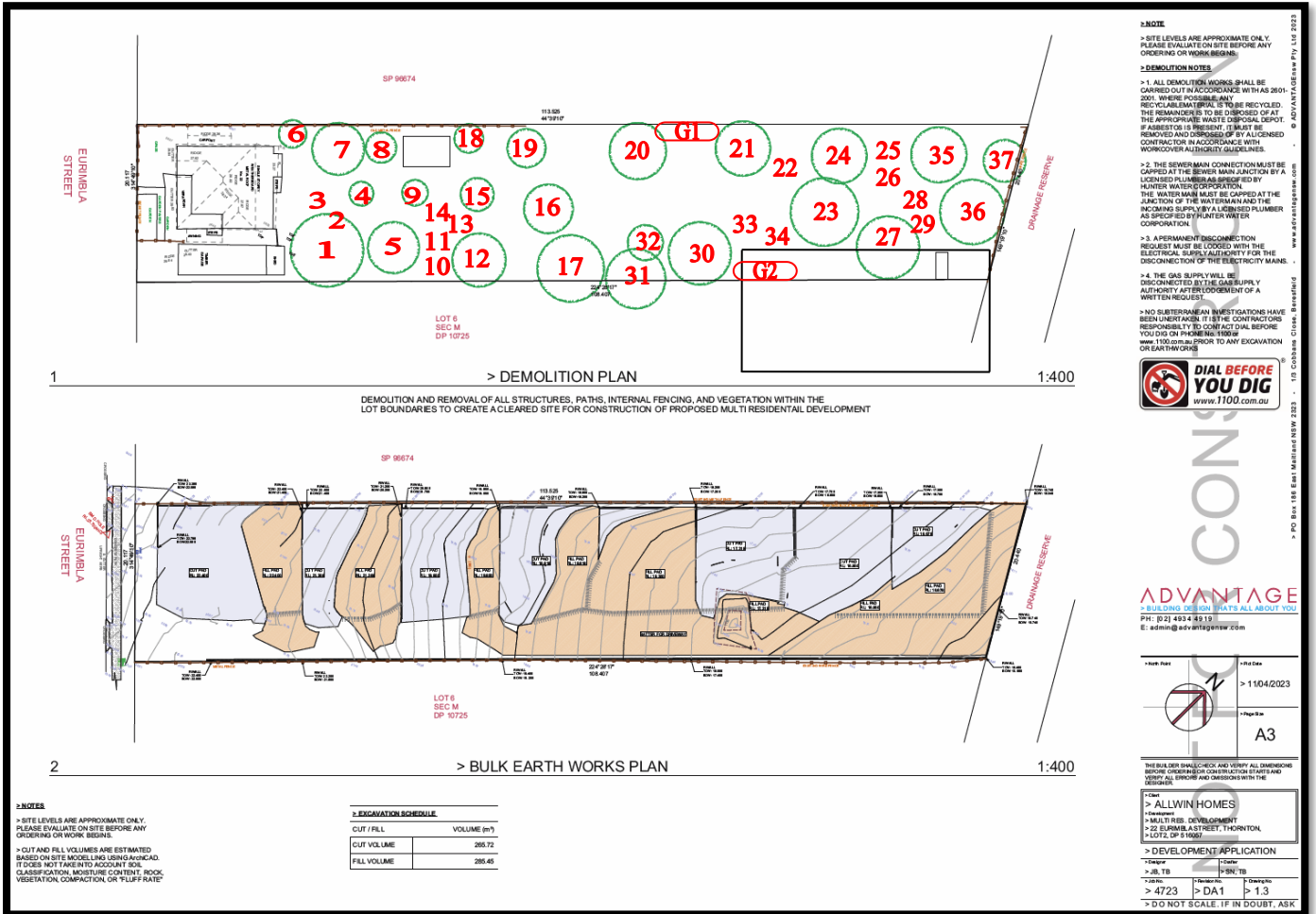
SITE DESCRIPTION

The subject site is a large block facing SW, sloping slightly down to the NE. It is heavily planted (personal communication with the owner), with various species of trees.

Some tree were not accessible and sizes are approximations.

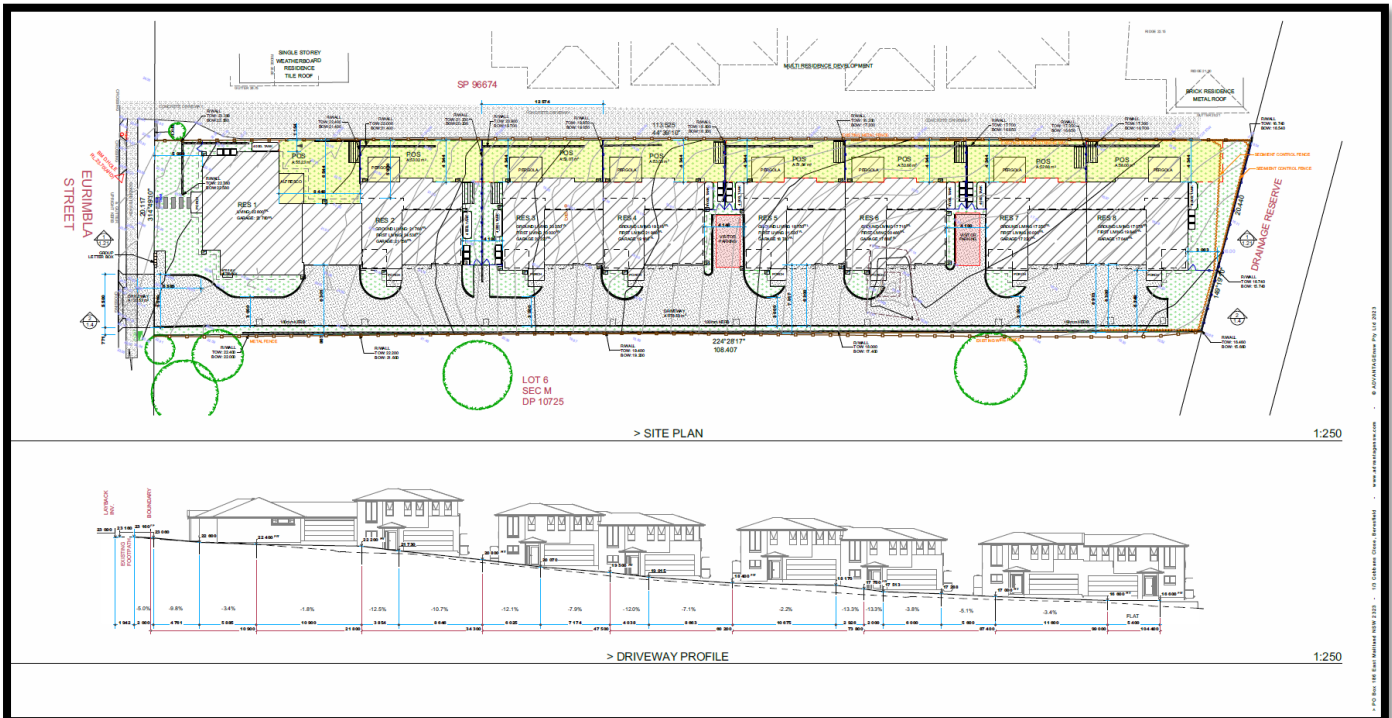
The soil type is clay.

SURVEY



A supplied survey showing some of the trees. Smaller trees are not indicated by green circles (approximate positions shown as uncircled numbers).

SITE PLAN OF THE PROPOSED DEVELOPMENT



TREE ASSESSMENT

Tree Number	Tree Species	Height (metres)	Condition		DBH (mm)	TPZ (metres)	SRZ (metres)	ULE	Canopy Spread (metres)	Comments
			Health	Structure						
1	<i>Corymbia torelliana</i> (Cadhagi)	10	Good	Good	710	8.5	3.0	2B	10 x 10	Good condition.
2	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	6	Good	Good	110	2.0	1.6	2B	6 x 6	Good condition.
3	<i>Casuarina cunninghamiana</i> (River Oak)	8	Good	Good	130	2.0	1.6	2B	6 x 6	Good condition.
4	<i>Casuarina cunninghamiana</i> (River Oak)	9	Good	Good	230	2.8	1.9	2B	8 x 8	Good condition.
5	<i>Eucalyptus dalrympleana</i> (Mountain Gum)	12	Good	Good	600	7.2	2.8	2B	10 x 10	Good condition.
6	<i>Jacaranda mimosifolia</i> (Jacaranda)	11	Good	Fair (form)	400	4.8	2.3	2B	10 x 10	Generally good condition. Co – dominant stems from 1.8 metres high (stem union stable).
7	<i>Triadica sebifera</i> (Chinese Tallow)	7	Good	Fair (form)	250	3.0	1.9	2B	6 x 6	Generally good condition. Co – dominant stems from 1.8 metres high (stem union stable).
8	<i>Buckinghamia celsissima</i> (Ivory Curl Tree)	6	Good	Good	120	2.0	1.6	2B	6 x 6	Good condition.
9	<i>Syzygium australe</i> (Brush Cherry)	6	Good	Fair (form)	140	2.0	1.6	2B	4 x 4	Generally good condition. Co – dominant stems from ground level (stem union stable).
10	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	6	Good	Fair (form)	170	2.0	1.6	2B	6 x 6	Generally good condition. Three dominant stems ground level (stem union stable).
11	<i>Jacaranda mimosifolia</i> (Jacaranda)	7	Good	Good	200	2.4	1.7	2B	6 x 6	Good condition.
12	<i>Eucalyptus scoparia</i> (Willow Gum)	11	Good	Fair (form)	330	4.0	2.2	2B	10 x 8	Generally good condition. Co – dominant stems from 4 metres high (stem union stable).
13	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	8	Good	Good	110	2.0	1.6	2B	3 x 3	Good condition.
14	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	10	Good	Good	250	3.0	1.9	2B	6 x 6	Good condition.
15	<i>Brachychiton acerifolia</i> (Illawarra Flame Tree)	6	Good	Good	180	2.2	1.7	2B	4 x 4	Good condition.
16	<i>Jacaranda mimosifolia</i> (Jacaranda)	10	Good	Fair (form)	350	4.2	2.2	2B	6 x 5	Generally good condition. Co – dominant stems from 3 metres high (stem union stable).
17	<i>Casuarina cunninghamiana</i> (River Oak)	10	Good	Good	360	4.3	2.2	2B	6 x 6	Good condition.

TREE ASSESSMENT CONTINUED

Tree Number	Tree Species	Height (metres)	Condition		DBH (mm)	TPZ (metres)	SRZ (metres)	ULE	Canopy Spread (metres)	Comments
			Health	Structure						
18	<i>Casuarina cunninghamiana</i> (River Oak)	8	Good	Good	270	3.2	2.0	2B	6 x 6	Good condition.
19	<i>Casuarina cunninghamiana</i> (River Oak)	6	Good	Fair (form)	150	2.0	1.6	2B	3 x 3	Good condition. Slight stem bow.
20	<i>Eucalyptus grandis</i> (Flooded Gum)	20	Good	Fair (form)	840	10.1	3.2	2B	16 x 16	Generally good condition. Co – dominant stems from 2 metres high (stem union stable).
21	<i>Corymbia citriodora</i> (Lemon Scented Gum)	12	Good	Good	260	3.1	2.0	2B	10 x 10	Good condition.
22	<i>Callistemon viminalis</i> (Weeping Bottlebrush)	7	Good	Fair (form)	200	2.4	1.7	2B	6 x 116	Generally good condition. Co – dominant stems from ??? metres high (stem union stable).
23	<i>Melaleuca quinquenervia</i> (Broad Leaved Paperbark)	7	Good	Good	200	2.4	1.7	2B	4 x 4	Good condition.
24	<i>Casuarina cunninghamiana</i> (River Oak)	10	Good	Good	280	3.4	2.0	2B	10 x 10	Good condition.
25	<i>Eucalyptus grandis</i> (Flooded Gum)	20	Good	Good	600	7.2	2.8	2B	16 x 16	Good condition.
26	<i>Casuarina cunninghamiana</i> (River Oak)	10	Good	Fair (form)	350	4.2	2.2	2B	10 x 10	Generally good condition. Co – dominant stems from 3 metres high (stem union stable).
27	<i>Eucalyptus grandis</i> (Flooded Gum)	18	Good	Good	510	6.1	2.6	2B	12 x 12	Good condition.
28	<i>Casuarina cunninghamiana</i> (River Oak)	10	Good	Good	220	2.6	1.8	2B	4 x 4	Good condition.
29	<i>Casuarina cunninghamiana</i> (River Oak)	12	Good	Good	150	2.0	1.6	2B	6 x 6	Good condition.
30	<i>Eucalyptus crebra</i> (Narrow Leaved Ironbark)	12	Good	Good	280	3.4	2.0	2B	8 x 8	Good condition.
31	<i>Corymbia torelliana</i> (Cadhagi)	10	Good	Good	280	3.4	2.0	2B	10 x 10	Good condition.
32	<i>Eucalyptus crebra</i> (Narrow Leaved Ironbark)	12	Good	Good	250	3.0	1.9	2B	6 x 6	Good condition.
33	<i>Casuarina cunninghamiana</i> (River Oak)	12	Good	Good	330	4.0	2.2	2B	6 x 6	Good condition.
34	<i>Corymbia torelliana</i> (Cadhagi)	10	Good	Good	500	6.0	2.3	2B	10 x 10	Good condition.

TREE ASSESSMENT CONTINUED

Tree Number	Tree Species	Height (metres)	Condition		DBH (mm)	TPZ (metres)	SRZ (metres)	ULE	Canopy Spread (metres)	Comments
			Health	Structure						
35	<i>Corymbia torelliana</i> (Cadadgi)	9	Good	Good	250 (approx)	3.0	1.9	2B	6 x 6	Good condition.
36	<i>Corymbia torelliana</i> (Cadadgi)	7	Good	Good	200 (approx)	2.4	1.7	2B	5 x 5	Good condition.
37	<i>Grevillea robusta</i> (Silky Oak)	8	Good	Good	200 (approx)	2.4	1.7	2B	5 x 5	Good condition.

Trees 35 – 37 were not accessible, and the sizes are approximations.

Groups 1 & 2 consist mostly of *Casuarina cunninghamiana* to 8 metres high, lined along the respective boundaries.

NEIGHBOURING TREES

The neighbouring property (24 Eurimbla Street) was not entered, and some trees are adjacent to the fence. Only one of these could be seen from within the subject property (towards the rear), and this is a specimen of *Eucalyptus* sp., approximately 12 metres high.

This tree has severe decay in the trunk, and will require removal for the development. The trees toward the front of the property are smaller, and may be affected by the development. These trees were not able to be approached for identification.

SIGNIFICANCE CHECKLIST

Eucalyptus scoparia is listed as an endangered species in the wild, however, it is used frequently in street plantings and urban horticulture (personal observations).

None of the other subject trees have any heritage significance, or any listing on the *Biodiversity Conservation Act 2016* or Council's Tree Register.

No other faunal activity was observed in the trees, that is, no nesting hollows, claw marks on the stems or scat around the bases.

CONCLUSION

The plan of the proposed development shows all trees will need to be removed as major encroachment will be required, and the Arborist cannot demonstrate that they would remain viable (in accordance with AS 4970, clause 3.3.3).

The neighbouring trees may require removal as well (Council and property owner approval required).

RECOMMENDATIONS

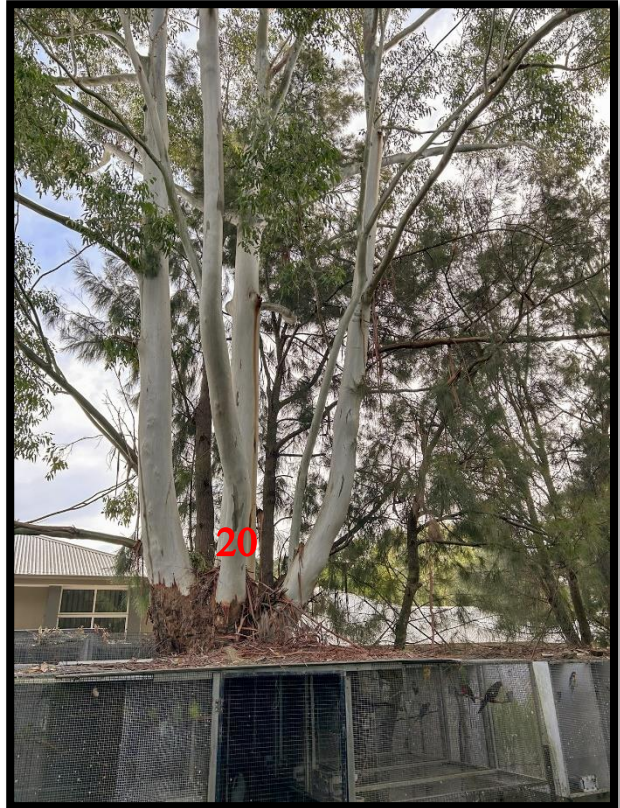
Based on the observations made during the inspection, information supplied and the considerations in the conclusion, it is recommended that all trees on the site be removed for the development.

Further recommended is the removal of the Eucalypt toward the rear of 24 Eurimbla Street.

PHOTOGRAPHS



Tree 16.



Tree 20.



Group 1.



Decay in the trunk of the larger neighbouring tree.

Stephen Williams



AQF 5 Consulting Arborist

Hunter Horticultural Services

DISCLAIMER

The recommendations given in this report assumes that reasonable maintenance will be provided by a qualified Arboriculturist working to Australian Standard 4373 (2007), *Pruning Amenity Trees* and AS 4970 (2009), *Protection of Trees on Development Sites*.

Incorrect tree work practices can significantly accelerate tree decline and increase hazard potential.

No liability is accepted for any effects if the recommendations in this report were not followed.

The information in this report does not consider the future effects of unforeseen circumstances, severe weather, external organisms or tree aging on the subject trees.

ACKNOWLEDGEMENTS

Aerial Photographs courtesy of Google Earth and Six Maps.

REFERENCES

Australian Standard 4970 (2009), *Protection of Trees on Development Sites*.

Australian Standard 4373 (2007), *Pruning Amenity Trees*.

Commonwealth Environment Protection and Biodiversity Conservation Act 1999.

NSW Biodiversity Conservation Act 2016.

Maitland City Council, Development Control Plan.

APPENDICES

U.L.E. _____	1
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ULE

ULE is an acronym for Useful Life Expectancy. There are a number of ULE categories that indicate the safe useful life anticipated for each tree. Factors such as the location, age, condition and health of the tree are significant to determining this rating. Other influences such as the tree's effect on better specimens and the economics of managing the tree successfully in its location are also relevant to ULE (Barrell 1993, 1995).

ULE Categories and Subgroups

1 = Long ULE of > 40 years

A Structurally sound in suitable location	B Suitable to retain with some remedial care	C Significant status – requires Special care to preserve
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2 = Medium ULE of 15 – 40 years

A Lifespan limit	B Eventual removal for safety or nuisance	C Remove for adjacent trees or replanting	D Requires extensive remedial care
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3 = Short ULE of 5 – 15 years

A Lifespan limit	B Eventual removal for safety or nuisance	C Remove for adjacent trees or replanting	D Requires extensive remedial care
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4 = Remove tree within 5 years

A Dead, dying or diseased	B Unstable or exposed by new clearing	C Structurally defective	D Damaged and unsafe	E Remove for adjacent trees or replanting	F Damaging existing structures	G Clearing will affect stability
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5 = Trees suitable to transplant

A Less than 5m high	B Young trees over 5m high	C Height/width contained by pruning
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The ULE rating given to any tree in this report assumes that reasonable maintenance will be provided by a qualified Arboriculturist using correct and acknowledged techniques. Retained trees are to be protected from root damage. Incorrect tree work practices can significantly accelerate tree decline and increase hazard potential.

Appendix 1

Glossary of Terminology

CBH:	Trunk circumference at 1.4 metres high or as otherwise stated
DBH:	Trunk diameter at 1.4 metres high or as otherwise stated
Epicormic:	Leaf shoots which arise from under the bark, and are not attached to the heartwood. These can detach, especially as they become larger, and have a high risk factor
Frass	Sawdust and webbing combined to cover holes of certain types of wood borer
Kino:	A type of resin exudated by Eucalypts and Angophoras as a defence mechanism against pathogen attack
Mistletoe:	A family (<i>Loranthaceae</i> in the southern hemisphere) of several genera [in the Sydney region] of parasitic plants, often hastening the decline of trees in poor health; many species are host specific.
Structure:	The shape of the tree, ranging from very good, with a single straight trunk, to very poor, with misshapen multiple trunks. Trees with multiple trunks etc. can have a higher risk factor, as splitting and trunk collapse may occur.
ULE:	An acronym for Useful Life Expectancy. A system for rating the possible longevity of a tree, designed by English Arborist Jeremy Barrell (see appendix 1.2).
Included Bark:	Bark that occurs in a crotch between branch and trunk or between co-dominant stems.
	Included bark usually: <ul style="list-style-type: none"> • prevents the trunk from growing around a branch. • occurs on defective V-shaped crotches in which the bark grows inward and on itself, causing a physical weakness where the co-dominant leaders meet.

Appendix 2

Contact Details	Qualifications
<p>P.O. Box 3193 Glendale NSW 2285 Ph 0409 559 147 Email: jwi52886@bigpond.net au</p>	<p>Bachelor of Arts Degree (Botany)</p> <p>Horticulture Certificate (1989) with Arboriculture component included.</p> <p>Horticulture Certificate (2000 Northern Melbourne Institute of Technology)</p> <p>Diploma of Horticulture (2007 Kurri Kurri Tafe) Arboriculture.</p> <p>AQF Level 5</p> <p>Accreditation Number 5510397</p>

Appendix 3