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ARBORICULTURAL DEVELOPMENT IMPACT ASSESSMENT REPORT

Liverpool Boys and Girls High School Upgrade Project 18 Forbes St, Liverpool NSW REVISION D

10th March 2025

Prepared for Colliers

Prepared by

Birds Tree Consultancy

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Executive Summary

This Arboricultural Development Impact Assessment Report has been commissioned by on behalf the NSW Department of Education (the Applicant) to report on trees within the site of the proposed Liverpool Boys and Girls High School, 18 Forbes St, Liverpool NSW. It has been commissioned to outline the health, condition and stability of these trees as well as their viability for retention within the scope of the proposed development. The scope of this report includes all trees within the site that are potentially impacted by the development.

This report accompanies a Review of Environment Factors that seeks approval for redeveloping the Liverpool Boys and Liverpool Girls High Schools into a single coeducational school, including:

- Construction and operation of a six-storey school building, including school hall and gymnasium;
- Associated parking and building services;
- Tree removal;
- Associated landscaping and play spaces;
- Augmentation of service infrastructure; and
- Associated off-site infrastructure works to support the school, including (but not limited to) services, kiss and drop point and pedestrian crossings.

Refer to the Review of Environmental Factors prepared by Ethos Urban for a full description of works.

The subject Trees are preserved under Section 2 of Liverpool Development Control Plan 2008.

There were 114 trees assessed. There are 34 Trees with high retention value, 79 with medium retention value and 1 trees with low retention value. Tree retention values for trees to be retained or removed for all trees within this report are summarised as follows:

Category	High	Medium	Low	Total
Overall	34	79	1	114
Trees Retained	12	42	1	55
Trees Removed	22	37	0	59

Trees 42, 43, and 160 have evidence of decay or other structural defect within the trunk which places these trees at increased risk of failure. If these trees are proposed for retention, we recommend an ISA (TRAQ) Level 3 Risk Assessment be conducted including internal diagnostic testing to determine the viability of these trees to be retained.

The Tree protection Zone (TPZ) of Trees 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 85, 86, 87, 88, 89, 90, 91 and 165 are encroached by the proposed construction, landscape, stormwater and required earthworks by a total or major encroachment as defined by AS4970-2009 Protection of Trees on Development Sites. These trees will not be viable to be retained and will require removal due to the proposed development.

In order for Trees 22, 23, 24, and 25 to be viable to be retained, the following design modifications would be required.

- 1. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ.
- 2. Excavation for proposed ramp and paving to not encroach the TPZ by more than 10%.
- 3. Paving (including subgrades) to be permeable within TPZ.

In order for Trees 51, 53, 54 and 56 to be viable to be retained, the following design modifications would be required.

- 1. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ.
- 2. Excavation for proposed paving and slab downturn to not encroach the TPZ by more than 10%.
- 3. All subsoil drainage to be installed using non destructive excavation methods including Air Spade, manual excavation or vacuum truck operating at less than 1000Psi under the direction and supervision of the Project Arborist with no damage to structural roots (greater than 20mm diameter).

All excavation within the TPZ of the retained subject trees is required to be conducted by non-destructive methods such as Air Spade or vacuum truck operating at less than 1000Psi under the direct supervision of the Project Arborist. No structural roots great er than 20mm are to be damaged.

All other trees are viable to be retained and are to be protected as defined below.

Recommendations for tree retention or removal are summarised as follows:

Tree no.	Species	Recommendations	Comments	Retention Value
21.	Melaleuca quinquenervia	Remove	Not viable to be retained due to	High

			proposed	
			development.	
			Not viable to be	High
			retained due to	High
22.		Remove	proposed	
	Corymbia maculata		development.	
			Not viable to be	High
			retained due to	High
23.		Remove	proposed	
	Corymbia maculata		development.	
	Corymbia maculata		Not viable to be	High
	Corymbia maculata		retained due to	Tign
24.		Remove	proposed	
			development.	
	Lophostemon confertus		Not viable to be	High
	Lophostemon comertus		retained due to	1 light
25.		Remove	proposed	
			development.	
	Lonhostemon confortus		Not viable to be	High
	Lophostemon confertus		retained due to	1 11811
26.		Remove	proposed	
			development.	
	Schinus areira		Not viable to be	High
	Schinds arena		retained due to	Tign
27.		Remove	proposed	
			development.	
	Jacaranda mimosifolia		Not viable to be	Medium
	Jacaranda mimosnolla		retained due to	meulum
28.		Remove	proposed	
			development.	
	Jacaranda mimosifolia		Not viable to be	Medium
			retained due to	Treatann
29.		Remove	proposed	
			development.	
	Melia azedarach		Not viable to be	Medium
		_	retained due to	
30.		Remove	proposed	
			development.	
	Jacaranda mimosifolia		Not viable to be	Medium
_		_	retained due to	i iouiuiii
31.		Remove	proposed	
			development.	
	Livistona australis		Not viable to be	Medium
		_	retained due to	
		Remove		
32.		Remove	proposed	
32.		Remove	proposed development.	
32.	Cupressus semnenvirens	Remove	development.	Medium
	Cupressus sempervirens		development. Not viable to be	Medium
32. 33.	Cupressus sempervirens	Remove	development. Not viable to be retained due to	Medium
	Cupressus sempervirens		development. Not viable to be retained due to proposed	Medium
	Cupressus sempervirens Cupressus sempervirens		development. Not viable to be retained due to	Medium

			proposed	
			development.	
	Robinia pseudoacacia		Not viable to be	Medium
	Nobilita pseudoacacia		retained due to	riculum
35.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
	T tatanus x acemotia		retained due to	riculum
36.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
	r tatanas x accinolia	_	retained due to	riculum
37.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
	T tatanas x accinolia		retained due to	riculum
38.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
		_	retained due to	i iouiuiii
39.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
	r tatanas x accinolia		retained due to	riculum
40.		Remove	proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
	oorymola onnoaora	_	retained due to	1.1.811
41.		Remove	proposed	
			development.	
	Eucalyptus sideroxylon		Not viable to be	High
			retained due to	
42.		Remove	proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
42		Democratic	retained due to	
43.		Remove	proposed	
			development.	
	Eucalyptus sideroxylon		Not viable to be	High
		Demoure	retained due to	-
44.		Remove	proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
45		Demous	retained due to	Ŭ
45.		Remove	proposed	
			development.	
	Melia azedarach		Not viable to be	Medium
40		Demous	retained due to	
46.		Remove	proposed	
			development.	
47	Corymbia citriodora	Dama	Not viable to be	High
47.	,	Remove	retained due to	

			proposed	
			development.	
	Eucalyptus saligna		Viable to be	High
48.	5, 6	Retain	retained and	0
			protected.	
	Eucalyptus microcorys		Viable to be	Medium
49.		Retain	retained and	
			protected.	
	Lophostemon confertus		Viable to be	Medium
50.		Retain	retained and	
			protected.	
	Eucalyptus saligna		Not viable to be	High
51.		Remove	retained due to	
51.		Remove	proposed	
			development.	
	Eucalyptus saligna		Viable to be	High
52.		Retain	retained and	
			protected.	
	Melaleuca quinquenervia		Not viable to be	Medium
53.		Remove	retained due to	
			proposed	
			development.	
	Melaleuca quinquenervia		Not viable to be	Medium
54.		Remove	retained due to	
			proposed	
			development.	
55.	Callistemon viminalis	Retain	Viable to be	Medium
55.			retained and	
	Europhysics and inter-		protected. Not viable to be	
	Eucalyptus saligna		retained due to	High
56.		Remove	proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
	Lucaypius saligila		retained due to	i iigii
57.		Remove	proposed	
			development.	
	Eucalyptus crebra		Not viable to be	High
			retained due to	
58.		Remove	proposed	
			development.	
	Eucalyptus scoparia		Not viable to be	Medium
50		Demovie	retained due to	
59.		Remove	proposed	
			development.	
	Melaleuca quinquenervia		Not viable to be	Medium
60.		Remove	retained due to	
00.		Keniove	proposed	
			development.	
	Hibiscus spp		Not viable to be	Medium
61.		Remove	retained due to	
01.		Renove	proposed	
			development.	

	Callistemon viminalis		Not viable to be	Medium
			retained due to	, louidin
62.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
			retained due to	1 icululli
63.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
		_	retained due to	
64.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
		-	retained due to	
65.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
66		Densis	retained due to	
66.		Remove	proposed	
			development.	
	Melaleuca quinquenervia		Not viable to be	Medium
~-	· · · · · · · · · · · · · · · · · · ·	-	retained due to	
67.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
			retained due to	
68.		Remove	proposed	
			development.	
	Cupressus sempervirens		Not viable to be	Medium
69.		Remove	retained due to	
09.		Remove	proposed	
			development.	
	Grevillea robusta		Not viable to be	Medium
70.		Remove	retained due to	
70.		Reniove	proposed	
			development.	
	Schinus areira		Not viable to be	Medium
71.		Remove	retained due to	
, 1.		1 CHIOVE	proposed	
			development.	
	Ficus benjamina		Not viable to be	Medium
72.		Remove	retained due to	
,		. tornovo	proposed	
			development.	
	Ficus benjamina		Not viable to be	Medium
73.		Remove	retained due to	
, J.		1 CHIOVE	proposed	
			development.	
	Ceratopetalum		Not viable to be	Medium
74.	gummiferum	Remove	retained due to	
/4.		Reniove	proposed	
			development.	

	Calodendrum capense		Not viable to be	Medium
75		Demoure	retained due to	
75.		Remove	proposed	
			development.	
	Lophostemon confertus		Viable to be	Medium
76.		Retain	retained and	
			protected.	
	Ulmus parvifolia		Viable to be	Medium
77.		Retain	retained and	
			protected.	
	Sapium sebiferum		Not viable to be	Medium
78.		Remove	retained due to	
78.		ITEIIIOVE	proposed	
			development.	
	Lophostemon confertus		Viable to be	Medium
81.		Retain	retained and	
			protected.	
	Casuarina		Viable to be	Medium
82.	cunninghamiana	Retain	retained and	
	-		protected.	
	Callistemon viminalis		Viable to be	Medium
83.		Retain	retained and	
			protected.	
	Lophostemon confertus		Viable to be	Medium
84.		Retain	retained and	
			protected.	
	Eucalyptus saligna		Not viable to be	Medium
85.		Remove	retained due to	
001		i tomovo	proposed	
			development.	
	Lophostemon confertus		Not viable to be	Medium
86.		Remove	retained due to	
			proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
87.		Remove	retained due to	
			proposed	
	Freehreter Brit		development.	
	Eucalyptus saligna		Not viable to be retained due to	High
88.		Remove		
			proposed	
	Fuenhatur estires		development. Not viable to be	Llich
	Eucalyptus saligna		retained due to	High
89.		Remove		
			proposed development.	
	Eucolyptus soligns		Not viable to be	Ligh
	Eucalyptus saligna		retained due to	High
90.		Remove	proposed	
			development.	
	Fueshintus seligne		Not viable to be	Lich
91.	Eucalyptus saligna	Remove		High
			retained due to	

			proposed	
			development.	
	Lophostemon confertus		Viable to be	High
95.		Retain	retained and	
			protected.	
	Corymbia citriodora		Viable to be	High
98.		Retain	retained and	0
			protected.	
	Eucalyptus microcorys		Viable to be	High
99.		Retain	retained and	U
			protected.	
	Corymbia citriodora		Viable to be	High
100.	,	Retain	retained and	U
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
101.		Retain	retained and	U
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
102.		Retain	retained and	
			protected.	
	Eucalyptus scoparia		Viable to be	High
103.		Retain	retained and	U
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
104.		Retain	retained and	U
104.			protected.	
	Robinia pseudoacacia		Viable to be	Medium
105.	,	Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
106.	,	Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
107.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
108.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
109.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
112.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
113.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
114.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
115.		Retain	retained and	
			protected.	

	Angophora costata		Viable to be	Medium
116.		Retain	retained and	
			protected.	
	Angophora costata		Viable to be	Medium
117.		Retain	retained and	
			protected.	
	Angophora costata		Viable to be	Medium
118.		Retain	retained and	
			protected.	
	Elaeocarpus kirtonii		Viable to be	Medium
119.		Retain	retained and	
			protected.	
	Callistemon viminalis		Viable to be	Medium
120.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
121.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
122.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
123.		Retain	retained and	
125.			protected.	
	Melaleuca armillaris		Viable to be	Medium
124.		Retain	retained and	
124.			protected.	
	Melaleuca armillaris		Viable to be	Medium
125.		Retain	retained and	
			protected.	
	Jacaranda mimosifolia		Viable to be	Medium
126.		Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
127.		Retain	retained and	
			protected.	
	Corymbia maculata		Viable to be	Medium
128.		Retain	retained and	
			protected.	
	Corymbia maculata		Viable to be	Medium
129.		Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
130.		Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
131.		Retain	retained and	
			protected.	
	Corvmbia maculata		Viable to be	Medium
132	Sorymsia macutata	Retain		
192.		Notain		
132.	Corymbia maculata	Retain	Viable to be retained and protected.	Medium

133.	Corymbia maculata	Retain	Viable to be retained and	Medium
			protected.	
	Corymbia citriodora		Viable to be	Medium
134.	-	Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
135.		Retain	retained and	
			protected.	
	Corymbia citriodora		Viable to be	Medium
136.		Retain	retained and	
			protected.	
	Calodendrum capense		Viable to be	High
159.		Retain	retained and	
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
160.		Retain	retained and	
			protected.	
	Corymbia citriodora		Viable to be	Medium
161.		Retain	retained and	
			protected.	
	Corymbia citriodora		Viable to be	Medium
162.		Retain	retained and	
			protected.	
	Cinnamomum camphora	_	Viable to be	Low
163.		Retain	retained and	
			protected.	
	Washingtonia robusta		Viable to be	Medium
164.		Retain	retained and	
			protected.	
	Plumeria rubra		Not viable to be	Medium
165.		Remove	retained due to	
			proposed	
			development.	

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1.0 Scope of Works

This Arboricultural Development Impact Assessment Report has been commissioned by on behalf the NSW Department of Education (the Applicant) to report on trees within the site of the proposed Liverpool Boys and Girls High School, 18 Forbes St, Liverpool NSW. It has been commissioned to outline the health, condition and stability of these trees as well as their viability for retention within the scope of the proposed development. The scope of this report includes all trees within the site that are potentially impacted by the development.

This report accompanies a Review of Environment Factors that seeks approval for redeveloping the Liverpool Boys and Liverpool Girls High Schools into a single coeducational school, including:

- Construction and operation of a six-storey school building, including school hall and gymnasium;
- Associated parking and building services;
- Tree removal;
- Associated landscaping and play spaces;
- Augmentation of service infrastructure; and
- Associated off-site infrastructure works to support the school, including (but not limited to) services, kiss and drop point and pedestrian crossings.

Refer to the Review of Environmental Factors prepared by Ethos Urban for a full description of works.

On the 2nd November 2024, Glenn Bird of Birds Tree Consultancy attended site and inspected the subject trees from the ground. There was no aerial inspection carried out. A Visual Tree Assessment was undertaken in accordance with Visual Tree Assessment (VTA) guidelines (Mattheck and Breloer, 1994). Tree heights were measured using a Nikon Forestry 550 Heightmeter.

2.0 Site Analysis

2.1 Site

The site is located at 18 Forbes Street, Liverpool, within the Liverpool Local Government Area (LGA). The site is legally described as Lot 1 DP1137425 and has a total area of approximately 74,973m2.

The site comprises a broadly rectangular portion of land which currently contains the existing Liverpool Boys High School, Liverpool Girls High School, and the Gulyangarri Public School, which commenced operations in January 2024 and is located to the east of the wider site.

The site's western portion contains Liverpool Boys High School and Liverpool Girls High School. Liverpool Girls High School in the site's southwest comprises three, twostory buildings. Liverpool Boys High School in the site's northwest, comprises approximately four, two-story buildings, with adjacent at-grade carparking and various sports courts.

2.2 Documentation

This Development Impact Assessment Report has been compiled based on the following documentation provided:

- 1. NBRS Proposed Site Plan LBGHS-NBRS-00-ZZ-DR-A-0201 Rev 3 dated 13.02.2025.
- 2. NBRS Landscape Site Plan LBGHS-NBRS-00-XX-DR-L-0002 Rev 3 dated 13.02.2025.
- 3. Meinhardt Bulk Earthworks Plan C070 Revision T1 dated 19.02.2025.
- 4. Meinhardt Civil Siteworks Plan C101 Revision T1 dated 19.02.2025.

2.3 Topography

The site is relatively flat and slopes moderately from the highest point at the northwestern boundary at the corner of the Lachlan and Forbes Street frontages. Refer to detailed survey for detailed levels.

2.4 Identification

Trees are as identified in the attached inspection forms in Appendix C and shown in Tree location Plan A01 in Appendix D.

Tree numbering has been retained from previous Birds Tree Consultancy Reports on this site for consistency. Trees 79, 80, 92, 93, 94, 110, 111, 127, 137, 157, 158 have been removed subsequent to these previous reports. Trees 163, 164 and 165 were not previously included on previous reports.

2.5 Soils

Soil material and horizons were not tested for this report.

3.0 Existing Trees

The following trees were inspected from the ground and the following items identified. Please refer also to the attached inspection data in Appendix C.

3.1. Tree 21. Melaleuca quinquenervia

This Mature tree is approximately 12m tall with a crown spread of 6m. It has a single trunk with a DBH of 760mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.2. Tree 22. Corymbia maculata

This Mature tree is approximately 22m tall with a crown spread of 9m. It has a single trunk with a DBH of 480mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.3. Tree 23. Corymbia maculata

This Mature tree is approximately 23m tall with a crown spread of 7m. It has a single trunk with a DBH of 420mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.4. Tree 24. Corymbia maculata

This Mature tree is approximately 22m tall with a crown spread of 7m. It has a single trunk with a DBH of 420mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.5. Tree 25. Lophostemon confertus

This Mature tree is approximately 10m tall with a crown spread of 10m. It has a single trunk with a DBH of 480mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.6. Tree 26. Lophostemon confertus

This Mature tree is approximately 10m tall with a crown spread of 8m. It has a single trunk with a DBH of 450mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.7. Tree 27. Schinus areira

This Mature tree is approximately 12m tall with a crown spread of 14m. It has a Multiple Stems trunk with a DBH of 883.9mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.8. Tree 28. Jacaranda mimosifolia

This Mature tree is approximately 10m tall with a crown spread of 10m. It has a single trunk with a DBH of 380mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.9. Tree 29. Jacaranda mimosifolia

This Mature tree is approximately 10m tall with a crown spread of 10m. It has a single trunk with a DBH of 340mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.10. Tree 30. Melia azedarach

This Mature tree is approximately 11m tall with a crown spread of 6m. It has a Multiple Stems trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.11. Tree 31. Jacaranda mimosifolia

This Mature tree is approximately 8m tall with a crown spread of 12m. It has a single trunk with a DBH of 500mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.12. Tree 32. Livistona australis

This Mature tree is approximately 13m tall with a crown spread of 4m. It has a single trunk with a DBH of 0mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.13. Tree 33. Cupressus sempervirens

This Mature tree is approximately 13m tall with a crown spread of 8m. It has a single trunk with a DBH of 500mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.14. Tree 34. Cupressus sempervirens

This Mature tree is approximately 12m tall with a crown spread of 6m. It has a single trunk with a DBH of 400mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.15. Tree 35. Robinia pseudoacacia

This Mature tree is approximately 9m tall with a crown spread of 7m. It has a single trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.16. Tree 36. Platanus x acerifolia

This Mature tree is approximately 19m tall with a crown spread of 16m. It has a single trunk with a DBH of 700mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.17. Tree 37. Platanus x acerifolia

This Mature tree is approximately 17m tall with a crown spread of 12m. It has a single trunk with a DBH of 470mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.18. Tree 38. Platanus x acerifolia

This Mature tree is approximately 17m tall with a crown spread of 12m. It has a single trunk with a DBH of 380mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.19. Tree 39. *Platanus x acerifolia*

This Mature tree is approximately 15m tall with a crown spread of 9m. It has a single trunk with a DBH of 410mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.20. Tree 40. Platanus x acerifolia

This Mature tree is approximately 14m tall with a crown spread of 12m. It has a single trunk with a DBH of 360mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.21. Tree 41. Corymbia citriodora

This Mature tree is approximately 24m tall with a crown spread of 16m. It has a single trunk with a DBH of 870mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.22. Tree 42. Eucalyptus sideroxylon

This Mature tree is approximately 17m tall with a crown spread of 11m. It has a single trunk with a DBH of 550mm. This tree is in good health, with minimal deadwood and epicormic growth. There is prominent swelling at base indicative of decay. We recommend a TRAQ level 3 risk assessment to determine viability for retention.



Figure 1 - Swelling at base of Tree 42

3.23. Tree 43.

Corymbia citriodora This Mature tree is approximately 24m tall with a crown spread of 16m. It has a single trunk with a DBH of 810mm. This tree is in good health, with minimal deadwood and epicormic growth. Evidence of decay and cavity in second order junction at approximately 8m. Recommend TRAQ Level 3 risk assessment to determine viability for retention.



Figure 2 - Tree 43 cavity at 8m

3.24. Tree 44. Eucalyptus sideroxylon

This Mature tree is approximately 15m tall with a crown spread of 11m. It has a single trunk with a DBH of 480mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.25. Tree 45. Corymbia citriodora

This Mature tree is approximately 17m tall with a crown spread of 12m. It has a single trunk with a DBH of 570mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.26. Tree 46. Melia azedarach

This Mature tree is approximately 11m tall with a crown spread of 9m. It has a Multiple Stems trunk with a DBH of 399.1mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.27. Tree 47. Corymbia citriodora

This Mature tree is approximately 19m tall with a crown spread of 12m. It has a single trunk with a DBH of 620mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.28. Tree 48. Eucalyptus saligna

This Mature tree is approximately 23m tall with a crown spread of 12m. It has a single trunk with a DBH of 520mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.29. Tree 49. *Eucalyptus microcorys* This Mature tree is approximately 20m tall with a crown spread of 14m. It has a Multiple Stems trunk with a DBH of 542mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.30. Tree 50. Lophostemon confertus

This Mature tree is approximately 7m tall with a crown spread of 3m. It has a Multiple Stems trunk with a DBH of 153mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.31. Tree 51. Eucalyptus saligna

This Mature tree is approximately 23m tall with a crown spread of 12m. It has a single trunk with a DBH of 560mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.32. Tree 52. Eucalyptus saligna

This Mature tree is approximately 23m tall with a crown spread of 12m. It has a single trunk with a DBH of 510mm. This tree is in fair health, with minimal deadwood and epicormic growth. Moderate apical dieback. Significant cambium damage at base. Potential evidence of decay. Recommend TRAQ level 3 risk assessment to determine the viability of retention.

3.33. Tree 53. Melaleuca quinquenervia

This Mature tree is approximately 15m tall with a crown spread of 9m. It has a single trunk with a DBH of 420mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.34. Tree 54. *Melaleuca quinquenervia*

This Mature tree is approximately 16m tall with a crown spread of 8m. It has a single trunk with a DBH of 630mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.35. Tree 55. Callistemon viminalis

This Mature tree is approximately 4m tall with a crown spread of 5m. It has a single trunk with a DBH of 220mm. This tree is in good health, with minimal deadwood and epicormic growth.

- **3.36. Tree 56.** *Eucalyptus saligna* This Mature tree is approximately 23m tall with a crown spread of 14m. It has a single trunk with a DBH of 590mm. This tree is in good health, with minimal deadwood and epicormic growth.
- **3.37. Tree 57.** *Eucalyptus saligna* This Mature tree is approximately 23m tall with a crown spread of 14m. It has a single trunk with a DBH of 870mm. This tree is in good health, with minimal deadwood and epicormic growth.
- **3.38. Tree 58.** *Eucalyptus crebra* This Mature tree is approximately 20m tall with a crown spread of 16m. It has a single trunk with a DBH of 560mm. This tree is in good health, with minimal deadwood and epicormic growth.
- 3.39. Tree 59. Eucalyptus scoparia

This Mature tree is approximately 13m tall with a crown spread of 8m. It has a Multiple Stems trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.40. Tree 60. Melaleuca quinquenervia

This Mature tree is approximately 12m tall with a crown spread of 9m. It has a single trunk with a DBH of 640mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.41. Tree 61. Hibiscus spp

This Mature tree is approximately 4m tall with a crown spread of 4m. It has a Multiple Stems trunk with a DBH of 230mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.42. Tree 62. Callistemon viminalis

This Mature tree is approximately 6m tall with a crown spread of 5m. It has a single trunk with a DBH of 250mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.43. Tree 63. Callistemon viminalis

This Mature tree is approximately 5m tall with a crown spread of 4m. It has a Multiple Stems trunk with a DBH of 320mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.44. Tree 64. Callistemon viminalis

This Mature tree is approximately 6m tall with a crown spread of 4m. It has a Multiple Stems trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.45. Tree 65. *Callistemon viminalis* This Mature tree is approximately 6m tall with a crown spread of 6m. It has a Multiple Stems trunk with a DBH of 350mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.46. Tree 66. Callistemon viminalis

This Mature tree is approximately 4m tall with a crown spread of 5m. It has a Multiple Stems trunk with a DBH of 240mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.47. Tree 67. Melaleuca quinquenervia

This Mature tree is approximately 19m tall with a crown spread of 8m. It has a single trunk with a DBH of 670mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.48. Tree 68. Callistemon viminalis

This Mature tree is approximately 5m tall with a crown spread of 5m. It has a Multiple Stems trunk with a DBH of 350mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.49. Tree 69. Cupressus sempervirens

This Mature tree is approximately 15m tall with a crown spread of 5m. It has a single trunk with a DBH of 510mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.50. Tree 70. Grevillea robusta

This Mature tree is approximately 16m tall with a crown spread of 9m. It has a single trunk with a DBH of 470mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.51. Tree 71. Schinus areira

This Mature tree is approximately 14m tall with a crown spread of 11m. It has a single trunk with a DBH of 490mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.52. Tree 72. Ficus benjamina

This Mature tree is approximately 16m tall with a crown spread of 12m. It has a single trunk with a DBH of 700mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.53. Tree 73. Ficus benjamina

This Mature tree is approximately 16m tall with a crown spread of 10m. It has a single trunk with a DBH of 600mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.54. Tree 74. Ceratopetalum gummiferum This Mature tree is approximately 5m tall with a crown spread of 4m. It has a single trunk with a DBH of 160mm. This tree is in good health, with

minimal deadwood and epicormic growth.

3.55. Tree 75. Calodendrum capense

This Mature tree is approximately 10m tall with a crown spread of 8m. It has a Multiple Stems trunk with a DBH of 500mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.56. Tree 76. Lophostemon confertus

This Mature tree is approximately 10m tall with a crown spread of 9m. It has a single trunk with a DBH of 490mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.57. Tree 77. Ulmus parvifolia

This Mature tree is approximately 24m tall with a crown spread of 13m. It has a single trunk with a DBH of 460mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.58. Tree 78. Sapium sebiferum

This Mature tree is approximately 8m tall with a crown spread of 6m. It has a single trunk with a DBH of 230mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.59. Tree 81. Lophostemon confertus

This Mature tree is approximately 7m tall with a crown spread of 7m. It has a single trunk with a DBH of 290mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.60. Tree 82. Casuarina cunninghamiana

This Mature tree is approximately 14m tall with a crown spread of 7m. It has a single trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.61. Tree 83. Callistemon viminalis

This Mature tree is approximately 5m tall with a crown spread of 5m. It has a single trunk with a DBH of 280mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.62. Tree 84. Lophostemon confertus

This Mature tree is approximately 11m tall with a crown spread of 8m. It has a single trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.63. Tree 85. Eucalyptus saligna

This Mature tree is approximately 20m tall with a crown spread of 10m. It has a single trunk with a DBH of 440mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.64. Tree 86. Lophostemon confertus

This Mature tree is approximately 14m tall with a crown spread of 9m. It has a single trunk with a DBH of 420mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.65. Tree 87. Eucalyptus saligna

This Mature tree is approximately 18m tall with a crown spread of 8m. It has a single trunk with a DBH of 360mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.66. Tree 88. *Eucalyptus saligna* This Mature tree is approximately 12m tall with a crown spread of 4m. It has a Multiple Stems trunk with a DBH of 260mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.67. Tree 89. *Eucalyptus saligna* This Mature tree is approximately 19m tall with a crown spread of 9m. It has a single trunk with a DBH of 320mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.68. Tree 90. *Eucalyptus saligna* This Mature tree is approximately <<heigh68t>>m tall with a crown spread of 9m. It has a single trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.69. Tree 91. Eucalyptus saligna

This Mature tree is approximately <<heigh69t>>m tall with a crown spread of 8m. It has a single trunk with a DBH of 310mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.70. Tree 95. Lophostemon confertus

This Mature tree is approximately 14m tall with a crown spread of 10m. It has a single trunk with a DBH of 540mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.71. Tree 98. Corymbia citriodora

This Mature tree is approximately 25m tall with a crown spread of 13m. It has a single trunk with a DBH of 600mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.72. Tree 99. Eucalyptus microcorys

This Mature tree is approximately 22m tall with a crown spread of 16m. It has a single trunk with a DBH of 780mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.73. Tree 100. Corymbia citriodora

This Mature tree is approximately 24m tall with a crown spread of 16m. It has a single trunk with a DBH of 670mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.74. Tree 101. Eucalyptus sideroxylon

This <<maturity747>> tree is approximately 24m tall with a crown spread of 14m. It has a single trunk with a DBH of 540mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.75. Tree 102. Eucalyptus sideroxylon

This Mature tree is approximately 24m tall with a crown spread of 14m. It has a single trunk with a DBH of 580mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.76. Tree 103. *Eucalyptus scoparia*

This Mature tree is approximately 20m tall with a crown spread of 14m. It has a single trunk with a DBH of 600mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.77. Tree 104. Eucalyptus sideroxylon

This Mature tree is approximately 24m tall with a crown spread of 15m. It has a single trunk with a DBH of 790mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.78. Tree 105. *Robinia pseudoacacia*

This Mature tree is approximately 10m tall with a crown spread of 8m. It has a single trunk with a DBH of 380mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.79. Tree 106. Robinia pseudoacacia

This Mature tree is approximately 10m tall with a crown spread of 8m. It has a single trunk with a DBH of 350mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.80. Tree 107. Robinia pseudoacacia

This Mature tree is approximately 9m tall with a crown spread of 8m. It has a single trunk with a DBH of 240mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.81. Tree 108. Robinia pseudoacacia

This Mature tree is approximately 10m tall with a crown spread of 7m. It has a single trunk with a DBH of 250mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.82. Tree 109. Robinia pseudoacacia

This Mature tree is approximately 10m tall with a crown spread of 8m. It has a single trunk with a DBH of 410mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.83. Tree 112 Robinia pseudoacacia

This Mature tree is approximately 10m tall with a crown spread of 7m. It has a single trunk with a DBH of 170mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.84. Tree 113. Robinia pseudoacacia

This Mature tree is approximately 11m tall with a crown spread of 8m. It has a single trunk with a DBH of 270mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.85. Tree 114. Robinia pseudoacacia

This Mature tree is approximately 11m tall with a crown spread of 8m. It has a single trunk with a DBH of 330mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.86. Tree 115. Robinia pseudoacacia

This Mature tree is approximately 10m tall with a crown spread of 6m. It has a single trunk with a DBH of 300mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.87. Tree 116. Angophora costata

This Mature tree is approximately 14m tall with a crown spread of 8m. It has a single trunk with a DBH of 340mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.88. Tree 117. Angophora costata

This Mature tree is approximately 14m tall with a crown spread of 9m. It has a single trunk with a DBH of 340mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.89. Tree 118. Angophora costata

This Mature tree is approximately 14m tall with a crown spread of 9m. It has a single trunk with a DBH of 330mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.90. Tree 119. Elaeocarpus kirtonii

This Mature tree is approximately 6m tall with a crown spread of 3m. It has a single trunk with a DBH of 110mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.91. Tree 120. Callistemon viminalis

This Mature tree is approximately 5m tall with a crown spread of 3m. It has a Multiple Stems trunk with a DBH of 85.4mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.92. Tree 121. Melaleuca armillaris

This Mature tree is approximately 10m tall with a crown spread of 5m. It has a Multiple Stems trunk with a DBH of 254.6mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.93. Tree 122. Melaleuca armillaris

This Mature tree is approximately 10m tall with a crown spread of 5m. It has a Multiple Stems trunk with a DBH of 242.1mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.94. Tree 123. Melaleuca armillaris

This Mature tree is approximately 11m tall with a crown spread of 6m. It has a Multiple Stems trunk with a DBH of 226.7mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.95. Tree 124. *Melaleuca armillaris*

This Mature tree is approximately 10m tall with a crown spread of 5m. It has a Multiple Stems trunk with a DBH of 220.2mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.96. Tree 125. Melaleuca armillaris

This Mature tree is approximately 8m tall with a crown spread of 4m. It has a single trunk with a DBH of 160mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.97. Tree 126. Jacaranda mimosifolia

This Mature tree is approximately 16m tall with a crown spread of 9m. It has a single trunk with a DBH of 410mm. This tree is in fair health, with minimal deadwood and epicormic growth.

3.98. Tree 128 Corymbia maculata

This Mature tree is approximately 22m tall with a crown spread of 8m. It has a single trunk with a DBH of 370mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.99. Tree 129. Corymbia maculata

This Mature tree is approximately 21m tall with a crown spread of 8m. It has a single trunk with a DBH of 290mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.100. Tree 130. Melia azedarach

This Mature tree is approximately 10m tall with a crown spread of 7m. It has a single trunk with a DBH of 110mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.101. Tree 131. Melia azedarach

This Mature tree is approximately 10m tall with a crown spread of 9m. It has a Multiple Stems trunk with a DBH of 269.1mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.102. Tree 132. Corymbia maculata

This Mature tree is approximately 22m tall with a crown spread of 14m. It has a single trunk with a DBH of 140mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.103. Tree 133. Corymbia maculata

This Mature tree is approximately 22m tall with a crown spread of 12m. It has a single trunk with a DBH of 670mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.104. Tree 134. Corymbia citriodora

This Mature tree is approximately 20m tall with a crown spread of 11m. It has a single trunk with a DBH of 380mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.105. Tree 135. Melia azedarach

This Mature tree is approximately 6m tall with a crown spread of 6m. It has a Multiple Stems trunk with a DBH of 191mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.106. Tree 136. Corymbia citriodora

This Mature tree is approximately 19m tall with a crown spread of 9m. It has a single trunk with a DBH of 350mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.107. Tree 159 Calodendrum capense

This Mature tree is approximately 10m tall with a crown spread of 14m. It has a Multiple Stems trunk with a DBH of 418.8mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.108. Tree 160. Eucalyptus sideroxylon

This Mature tree is approximately 23m tall with a crown spread of 14m. It has a single trunk with a DBH of 660mm. This tree is in good health, with minimal deadwood and epicormic growth. There is a crack/structural defect visible at approximately 10m. We recommend TRAQ level 3 risk assessment to determine viability for retention.



Figure 3 - Structural defect in Tree 160.

3.109. Tree 161. Corymbia citriodora

This Mature tree is approximately 20m tall with a crown spread of 14m. It has a single trunk with a DBH of 670mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.110. Tree 162. Corymbia citriodora

This Mature tree is approximately 21m tall with a crown spread of 16m. It has a single trunk with a DBH of 620mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.111. Tree 163. Cinnamomum camphora

This Semi Mature tree is approximately 9m tall with a crown spread of 5m. It has a single trunk with a DBH of 140mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.112. Tree 164. Washingtonia robusta

This Mature tree is approximately 14m tall with a crown spread of 5m. It has a single trunk with a DBH of 0mm. This tree is in good health, with minimal deadwood and epicormic growth.

3.113. Tree 165. Plumeria rubra

This Mature tree is approximately 7m tall with a crown spread of 6m. It has a trunk with a DBH of 233.5mm. This tree is in good health, with minimal deadwood and epicormic growth.

4.0 Landscape Significance of Trees

4.1 Landscape Significance

The significance of a tree within the landscape is a factor of the health and condition of the tree, vitality, the form of the tree, environmental, cultural, amenity and heritage value.

4.2 Methodology of Determining Landscape Significance

For the purpose of this report, the Significance of a Tree, Assessment Rating System (STARS) as developed by the Institute of Australian Consulting Arborists (IACA) has been implemented. Please refer to Appendix A for greater detail of this assessment system. This system defines Landscape Significance for individual trees as High, Medium or Low Significance.

4.3 Landscape Significance of Subject Trees

Based on our assessment of the subject trees and implementation of the IACA Significance of a Tree, Assessment Rating System, the Landscape Significance of the Subject Trees was determined as shown in Table 1.

Tree no.	Species	Landscape Significance	
21.	Melaleuca quinquenervia		
22.	Corymbia maculata	High	
23.	Corymbia maculata	High	
24.	Corymbia maculata	High	
25.	Lophostemon confertus	High	
26.	Lophostemon confertus	High	
27.	Schinus areira	High	
28.	Jacaranda mimosifolia	Medium	
29.	Jacaranda mimosifolia	Medium	
30.	Melia azedarach	Medium	
31.	Jacaranda mimosifolia	Medium	
32.	Livistona australis	Medium	
33.	Cupressus sempervirens	Medium	
34.	Cupressus sempervirens	Medium	
35.	Robinia pseudoacacia	Medium	
36.	Platanus x acerifolia	Medium	
37.	Platanus x acerifolia	Medium	
38.	Platanus x acerifolia	Medium	
39.	Platanus x acerifolia	Medium	
40.	Platanus x acerifolia	Medium	
41.	Corymbia citriodora	High	
42.	Eucalyptus sideroxylon	High	
43.	Corymbia citriodora	High	
44.	Eucalyptus sideroxylon	High	
45.	Corymbia citriodora	High	
46.	Melia azedarach	Medium	
47.	Corymbia citriodora	High	
48.	Eucalyptus saligna	High	
49.	Eucalyptus microcorys	Medium	
50.	Lophostemon confertus	Medium	
51.	Eucalyptus saligna	High	
52.	Eucalyptus saligna	High	
53.	Melaleuca quinquenervia	Medium	
54.	Melaleuca quinquenervia	Medium	
55.	Callistemon viminalis	Medium	
56.	Eucalyptus saligna	High	
57.	Eucalyptus saligna	High	
58.	Eucalyptus crebra	High	
59.	Eucalyptus scoparia	Medium	
60.	Melaleuca quinquenervia	Medium	
61.	Hibiscus spp	Medium	
62.	Callistemon viminalis	Medium	

63.	Callistemon viminalis	Medium		
64.	Callistemon viminalis	Medium		
65.	Callistemon viminalis	Medium		
66.	Callistemon viminalis	Medium		
67.	Melaleuca quinquenervia	Medium		
68.	Callistemon viminalis	Medium		
69.	Cupressus sempervirens	Medium		
70.	Grevillea robusta	Medium		
71.	Schinus areira	Medium		
72.	Ficus benjamina	Medium		
73.	Ficus benjamina	Medium		
74.	Ceratopetalum gummiferum	Medium		
75.	Calodendrum capense	Medium		
76.	Lophostemon confertus	Medium		
77.	Ulmus parvifolia	Medium		
78.	Sapium sebiferum	Medium		
81.	Lophostemon confertus	Medium		
82.	Casuarina cunninghamiana	Medium		
83.	Callistemon viminalis	Medium		
84.	Lophostemon confertus	Medium		
85.	Eucalyptus saligna	Medium		
86.	Lophostemon confertus	Medium		
87.	Eucalyptus saligna	High		
88.	Eucalyptus saligna	High		
89.	Eucalyptus saligna	High		
90.	Eucalyptus saligna	High		
91.	Eucalyptus saligna	High		
95.	Lophostemon confertus	High		
98.	Corymbia citriodora	High		
99.	Eucalyptus microcorys	High		
100.	Corymbia citriodora	High		
101.	Eucalyptus sideroxylon	High		
102.	Eucalyptus sideroxylon	High		
103.	Eucalyptus scoparia	High		
104.	Eucalyptus sideroxylon	High		
105.	Robinia pseudoacacia	Medium		
106.	Robinia pseudoacacia	Medium		
107.	Robinia pseudoacacia	Medium		
108.	Robinia pseudoacacia	Medium		
109.	Robinia pseudoacacia	Medium		
112.	Robinia pseudoacacia	Medium		
112.	Robinia pseudoacacia	Medium		
114.	Robinia pseudoacacia	Medium		
114.	Robinia pseudoacacia	Medium		

116.	Angonhora costata	Medium		
	Angophora costata			
117.	Angophora costata	Medium		
118.	Angophora costata	Medium		
119.	Elaeocarpus kirtonii	Medium		
120.	Callistemon viminalis	Medium		
121.	Melaleuca armillaris	Medium		
122.	Melaleuca armillaris	Medium		
123.	Melaleuca armillaris	Medium		
124.	Melaleuca armillaris	Medium		
125.	Melaleuca armillaris	Medium		
126.	Jacaranda mimosifolia	Medium		
128.	Corymbia maculata	Medium		
129.	Corymbia maculata	Medium		
130.	Melia azedarach	Medium		
131.	Melia azedarach	Medium		
132.	Corymbia maculata	Medium		
133.	Corymbia maculata	Medium		
134.	Corymbia citriodora	Medium		
135.	Melia azedarach	Medium		
136.	Corymbia citriodora	Medium		
159.	Calodendrum capense	Medium		
160.	Eucalyptus sideroxylon	High		
161.	Corymbia citriodora	Medium		
162.	Corymbia citriodora	Medium		
163.	Cinnamomum camphora	Low		
164.	Washingtonia robusta	Medium		
165.	Plumeria rubra	Medium		
Table 1 La	andscane Significance			

 Table 1 - Landscape Significance

5.0 Subject Tree Retention Value

5.1 Tree Retention Value Methodology

For the purpose of this report, the Tree Retention Values have been assessed by incorporating Landscape Significance Values as determined in 4.0 with the Useful Life Expectancy of the subject trees and assessing the retention values based on the Tree Retention Value Priority Matrix as developed by the Institute of Australian Consulting Arborists (IACA). Please refer to Appendix B for greater detail on this Tree Retention Value Priority Matrix. This matrix defines Landscape Significance for individual trees as High, Medium or Low Retention Value as well as Priority for Removal.

5.2 Retention Value of Subject Trees

Based on our assessment of the subject trees and implementation of the IACA Tree Retention Value Priority Matrix, the Retention Values of the Subject Trees were determined as shown in Table 2.

Tree no.	Species	Retention Value	
21.	Melaleuca quinquenervia	High	
22.	Corymbia maculata	High	
23.	Corymbia maculata	High	
24.	Corymbia maculata	High	
25.	Lophostemon confertus	High	
26.	Lophostemon confertus	High	
27.	Schinus areira	High	
28.	Jacaranda mimosifolia	Medium	
29.	Jacaranda mimosifolia	Medium	
30.	Melia azedarach	Medium	
31.	Jacaranda mimosifolia	Medium	
32.	Livistona australis	Medium	
33.	Cupressus sempervirens	Medium	
34.	Cupressus sempervirens	Medium	
35.	Robinia pseudoacacia	Medium	
36.	Platanus x acerifolia	Medium	
37.	Platanus x acerifolia	Medium	
38.	Platanus x acerifolia	Medium	
39.	Platanus x acerifolia	Medium	
40.	Platanus x acerifolia	Medium	
41.	Corymbia citriodora	High	
42.	Eucalyptus sideroxylon	High	
43.	Corymbia citriodora	High	
44.	Eucalyptus sideroxylon	High	
45.	Corymbia citriodora	High	
46.	Melia azedarach	Medium	
47.	Corymbia citriodora	High	
48.	Eucalyptus saligna	High	
49.	Eucalyptus microcorys	Medium	
50.	Lophostemon confertus	Medium	
51.	Eucalyptus saligna	High	
52.	Eucalyptus saligna	High	
53.	Melaleuca quinquenervia	Medium	
54.	Melaleuca quinquenervia	Medium	
55.	Callistemon viminalis Medium		
56.	Eucalyptus saligna	High	
57.	Eucalyptus satigna High Eucalyptus satigna High		
58.	Eucalyptus crebra	High	
59.	Eucalyptus scoparia	Medium	
60.	Melaleuca quinquenervia		
61.	Hibiscus spp	Medium	
62.	Callistemon viminalis	Medium	

63.	Callistemon viminalis	Medium		
64.	Callistemon viminalis	Medium		
65.	Callistemon viminalis	Medium		
66.	Callistemon viminalis	Medium		
67.	Melaleuca quinquenervia	Medium		
68.	Callistemon viminalis	Medium		
69.	Cupressus sempervirens	Medium		
70.	Grevillea robusta	Medium		
71.	Schinus areira	Medium		
72.	Ficus benjamina	Medium		
73.	Ficus benjamina	Medium		
74.	Ceratopetalum gummiferum	Medium		
75.	Calodendrum capense	Medium		
76.	Lophostemon confertus	Medium		
77.	Ulmus parvifolia	Medium		
78.	Sapium sebiferum	Medium		
81.	Lophostemon confertus	Medium		
82.	Casuarina cunninghamiana	Medium		
83.	Callistemon viminalis	Medium		
84.	Lophostemon confertus	Medium		
85.	Eucalyptus saligna	Medium		
86.	Lophostemon confertus	Medium		
87.	Eucalyptus saligna	High		
88.	Eucalyptus saligna	High		
89.	Eucalyptus saligna	High		
90.	Eucalyptus saligna	High		
91.	Eucalyptus saligna	High		
95.	Lophostemon confertus	High		
98.	Corymbia citriodora	High		
99.	Eucalyptus microcorys	High		
100.	Corymbia citriodora	High		
101.	Eucalyptus sideroxylon	High		
102.	Eucalyptus sideroxylon	High		
103.	Eucalyptus scoparia	High		
104.	Eucalyptus sideroxylon	High		
105.	Robinia pseudoacacia	Medium		
106.	Robinia pseudoacacia	Medium		
107.	Robinia pseudoacacia	Medium		
108.	Robinia pseudoacacia	Medium		
109.	Robinia pseudoacacia	Medium		
112.	Robinia pseudoacacia	Medium		
113.	Robinia pseudoacacia	Medium		
114.	Robinia pseudoacacia	Medium		
115.	Robinia pseudoacacia	Medium		

116.	Angophora costata	Medium	
117.	Angophora costata	Medium	
118.	Angophora costata	Medium	
119.	Elaeocarpus kirtonii	Medium	
120.	Callistemon viminalis	Medium	
121.	Melaleuca armillaris	Medium	
122.	Melaleuca armillaris	Medium	
123.	Melaleuca armillaris	Medium	
124.	Melaleuca armillaris	Medium	
125.	Melaleuca armillaris	Medium	
126.	Jacaranda mimosifolia	Medium	
128.	Corymbia maculata	Medium	
129.	Corymbia maculata	Medium	
130.	Melia azedarach	Medium	
131.	Melia azedarach	Medium	
132.	Corymbia maculata	Medium	
133.	Corymbia maculata	Medium	
134.	Corymbia citriodora	Medium	
135.	Melia azedarach	Medium	
136.	Corymbia citriodora	Medium	
159.	Calodendrum capense	Medium	
160.	Eucalyptus sideroxylon	High	
161.	Corymbia citriodora	Medium	
162.	Corymbia citriodora	Medium	
163.	Cinnamomum camphora	Low	
164.	Washingtonia robusta	Medium	
165.	Plumeria rubra	Medium	
Tablo 2 -	- Tree Retention Value		

 Table 2 – Tree Retention Value

6.0 Impact of Development

6.1 Tree Protection Zone

Tree Protection Zones (TPZs) have been defined for the subject trees in order to define the encroachment of the proposed development in accordance with *AS4970-2009*. The TPZs required have been taken as a circular area with a radius 12 x the diameter at breast height of the tree. This requirement is in line with Australian Standard AS 4970-2009 Protection of Trees on Development Sites. This standard defines a maximum of 10% encroachment to be minimal encroachment. Any encroachment over 10% requires the site arborist to give consideration as to the viability of the tree due to the proposed development.

6.2 Structural Root Zone

Structural Root Zone (SRZs) are defined by AS4970-2009 as the area of root development required for the structural stability of the tree. The SRZ is required to be assessed only when an encroachment greater than 10% is considered.

			Encroachment	SRZ Radius (m)
Tree no.	Species	TPZ Radius (m)	%	Encroached / Not Encroached
	Melaleuca		100	
21.	quinquenervia	9.12		3.09
	Corymbia		100	
22.	maculata	5.76		2.57
23.	Corymbia		100	
25.	maculata	5.04		2.57
24.	Corymbia	5.28	100	
24.	maculata			2.57
25.	Lophostemon	5.76	100	
23.	confertus			2.85
26.	Lophostemon	5.4	100	
20.	confertus			2.57
27.	Schinus areira	10.61	100	3.17
28.	Jacaranda	4.56	100	
20.	mimosifolia			2.37
29.	Jacaranda	4.08	100	
23.	mimosifolia			2.37
30.	Melia azedarach	3.6	100	2.15
31.	Jacaranda	6	100	
51.	mimosifolia			1.02
32.	Livistona	2	100	
52.	australis			N/A
33.	Cupressus	6	100	
	sempervirens			2.59
34.	Cupressus	4.8	100	
0.11	sempervirens			2.43
35.	Robinia	3.6	100	
	pseudoacacia			2.20
36.	Platanus x	8.4	100	
	acerifolia			3.01
37.	Platanus x	5.64	100	
	acerifolia			2.57
38.	Platanus x	4.56	100	
	acerifolia			2.37
39.	Platanus x	4.92	100	
	acerifolia			2.57
40.	Platanus x	4.32	100	
	acerifolia			2.37
41.	Corymbia	10.44	100	
	citriodora			3.24

	Eucalyptus	6.6	100	
42.	sideroxylon	0.0	100	2.93
	Corymbia	9.72	100	2.00
43.	citriodora	5.72	100	3.24
	Eucalyptus	5.76	100	0.24
44.	sideroxylon	5.70	100	2.67
	Corymbia	6.84	100	2.07
45.	citriodora	0.04	100	2.76
46.	Melia azedarach	4.79	100	2.37
40.	Corymbia	7.44	100	2.37
47.	citriodora	7.44	100	2.93
	Eucalyptus	6.24	0	2.93
48.	saligna	0.24	0	2.85
	-	<u>C</u> E	0	2.80
49.	Eucalyptus	6.5	0	0.70
	microcorys	0	0	2.73
50.	Lophostemon	2	0	1.05
	confertus	0.70		1.85
51.	Eucalyptus	6.72	40	
	saligna			2.93
52.	Eucalyptus	6.12	0	
	saligna			2.67
53.	Melaleuca	5.04	40	
	quinquenervia			2.47
54.	Melaleuca	7.56	30	
	quinquenervia			2.85
55.	Callistemon	2.64	0	
	viminalis			1.94
56.	Eucalyptus	7.08	40	
	saligna			2.76
57.	Eucalyptus	10.44	35	
	saligna			3.24
58.	Eucalyptus	6.72	27	
55.	crebra			2.85
59.	Eucalyptus	3.6	100	
55.	scoparia			2.25
60.	Melaleuca	7.68	100	
00.	quinquenervia			2.93
61.	Hibiscus spp	2.76	100	2.05
62.	Callistemon	3	100	
02.	viminalis			2.00
63.	Callistemon	3.84	100	
05.	viminalis			2.20
64	Callistemon	3.6	100	
64.	viminalis			2.13

	Callistemon	4.2	100	
65.	viminalis		100	2.20
	Callistemon	2.88	100	2.20
66.	viminalis	2.00	100	2.00
	Melaleuca	8.04	100	2.00
67.		0.04	100	2.93
	quinquenervia Callistemon	4.0	100	2.93
68.		4.2	100	0.00
	viminalis	0.40	100	2.30
69.	Cupressus	6.12	100	
	sempervirens			2.63
70.	Grevillea robusta	5.64	100	2.57
71.	Schinus areira	5.88	100	2.59
72.	Ficus benjamina	8.4	100	3.00
73.	Ficus benjamina	7.2	100	2.78
74.	Ceratopetalum	2	100	
/ च.	gummiferum			4.86
75.	Calodendrum	6	100	
75.	capense			2.63
76.	Lophostemon	5.88	0	
70.	confertus			2.57
77.	Ulmus parvifolia	5.52	0	2.57
70	Sapium	2.76	0	
78.	sebiferum			2.10
	Lophostemon	3.48	0	
81.	confertus			2.15
	Casuarina	3.6	0	
82.	cunninghamiana			2.20
	Callistemon	3.36	0	
83.	viminalis			2.13
	Lophostemon	3.6	0	
84.	confertus			2.20
	Eucalyptus	5.28	100	
85.	saligna	0.20		2.57
	Lophostemon	5.04	100	2.07
86.	confertus	0.04	100	2.47
	Eucalyptus	4.32	100	2.77
87.	saligna	7.02	100	2.37
	Eucalyptus	3.12	100	2.07
88.	saligna	J.1Z	100	2.13
	-	3.84	100	2.10
89.	Eucalyptus	5.04	100	2.25
	saligna	2.0	100	2.25
90.	Eucalyptus	3.6	100	0.00
	saligna	0.70		2.20
91.	Eucalyptus	3.72	100	
	saligna			2.13

	Lophostemon	6.48	0	
95.	confertus			2.67
	Corymbia	7.2	0	
98.	citriodora			2.81
	Eucalyptus	9.36	0	
99.	microcorys			3.09
100	Corymbia	8.04	0	
100.	citriodora			2.93
101	Eucalyptus	6.48	0	
101.	sideroxylon			2.67
102	Eucalyptus	6.96	0	
102.	sideroxylon			2.76
103.	Eucalyptus	7.2	0	
103.	scoparia			2.85
104.	Eucalyptus	9.48	0	
104.	sideroxylon			3.11
105.	Robinia	4.56	0	
105.	pseudoacacia			2.37
106.	Robinia	4.2	0	
100.	pseudoacacia			2.25
107.	Robinia	2.88	0	
	pseudoacacia			1.97
108.	Robinia	3	0	
	pseudoacacia			2.13
109.	Robinia	4.92	0	
	pseudoacacia			2.47
112.	Robinia	2.04	0	
	pseudoacacia			1.82
113.	Robinia	3.24	0	
	pseudoacacia			2.10
114.	Robinia	3.96	0	
	pseudoacacia			2.23
115.	Robinia	3.6	0	0.00
	pseudoacacia	4.00		2.20
116.	Angophora	4.08	0	0.05
	costata	1.00		2.25
117.	Angophora	4.08	0	2.05
	costata	2.00	0	2.25
118.	Angophora	3.96	0	2.25
	costata	2	0	2.25
119.	Elaeocarpus kirtonii	2	0	1.40
	Callistemon	2	0	1.49
120.	viminalis	2		1.36
	viiriiridlis			1.00

	Melaleuca	3.06	0	
121.	armillaris	5.00	0	1.94
	Melaleuca	2.91	0	1.54
122.	armillaris	2.91	0	1.94
	Melaleuca	2.72	0	1.54
123.	armillaris	2.72	U	1.88
		2.04		1.00
124.	Melaleuca	2.64	0	1.05
	armillaris			1.85
125.	Melaleuca	2	0	1.00
	armillaris			1.82
126.	Jacaranda	4.92	0	
-	mimosifolia			2.47
128.	Corymbia	4.44	0	
	maculata			2.37
129.	Corymbia	3.48	0	
125.	maculata			2.08
130.	Melia azedarach	2	0	1.68
131.	Melia azedarach	3.23	0	2.13
122	Corymbia	2	0	
132.	maculata			1.68
122	Corymbia	8.04	0	
133.	maculata			2.93
121	Corymbia	4.56	0	
134.	citriodora			2.37
135.	Melia azedarach	2.29	0	1.79
	Corymbia	4.2	0	
136.	citriodora			2.37
	Calodendrum	5.03	0	
159.	capense			2.37
	Eucalyptus	7.92	0	
160.	sideroxylon			2.93
	Corymbia	8.04	0	
161.	citriodora			2.93
 	Corymbia	7.44	0	
162.	citriodora	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ŭ	2.85
	Cinnamomum	2	0	
163.	camphora	2	Ŭ	1.65
	Washingtonia	2	0	1.00
164.	robusta	2	0	N/A
165		20	100	
165.	Plumeria rubra	2.8	100	1.94

7.0 Recommendations

The subject Trees are preserved under Section 2 of Liverpool Development Control Plan 2008.

Trees 42, 43, and 160 have evidence of decay or other structural defect within the trunk which places these trees at increased risk of failure. If these trees are proposed for retention, we recommend an ISA (TRAQ) Level 3 Risk Assessment be conducted including internal diagnostic testing to determine the viability of these trees to be retained.

The Tree protection Zone (TPZ) of Trees 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 51, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 78, 85, 86, 87, 88, 89, 90, 91 and 165 are encroached by the proposed construction, landscape, stormwater and required earthworks by a total or major encroachment as defined by AS4970-2009 Protection of Trees on Development Sites. These trees will not be viable to be retained and will require removal due to the proposed development.

In order for Trees 22, 23, 24, and 25 to be viable to be retained, the following design modifications would be required.

- 4. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ.
- 5. Excavation for proposed ramp and paving to not encroach the TPZ by more than 10%.
- 6. Paving (including subgrades) to be permeable within TPZ.

In order for Trees 51, 53, 54 and 56 to be viable to be retained, the following design modifications would be required.

- 4. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ.
- 5. Excavation for proposed paving and slab downturn to not encroach the TPZ by more than 10%.
- All subsoil drainage to be installed using non destructive excavation methods including Air Spade, manual excavation or vacuum truck operating at less than 1000Psi under the direction and supervision of the Project Arborist with no damage to structural roots (greater than 20mm diameter).

All excavation within the TPZ of the retained subject trees is required to be conducted by non-destructive methods such as Air Spade or vacuum truck operating at less than 1000Psi under the direct supervision of the Project Arborist. No structural roots great er than 20mm are to be damaged.

All other trees are viable to be retained and are to be protected as defined below.

Recommendations for tree retention or removal are summarised as follows:

Tree no.	Species	Recommendations	Comments	Retention Value
21.	Melaleuca quinquenervia	Remove	Not viable to be retained due to proposed development.	High
22.	Corymbia maculata	Remove	Not viable to be retained due to proposed development.	High
23.	Corymbia maculata	Remove	Not viable to be retained due to proposed development.	High
24.	Corymbia maculata	Remove	Not viable to be retained due to proposed development.	High
25.	Lophostemon confertus	Remove	Not viable to be retained due to proposed development.	High
26.	Lophostemon confertus	Remove	Not viable to be retained due to proposed development.	High
27.	Schinus areira	Remove	Not viable to be retained due to proposed development.	High
28.	Jacaranda mimosifolia	Remove	Not viable to be retained due to proposed development.	Medium
29.	Jacaranda mimosifolia	Remove	Not viable to be retained due to proposed development.	Medium
30.	Melia azedarach	Remove	Not viable to be retained due to proposed development.	Medium
31.	Jacaranda mimosifolia	Remove	Not viable to be retained due to proposed development.	Medium
32.	Livistona australis	Remove	Not viable to be retained due to proposed development.	Medium

	Cupressus sempervirens		Not viable to be	Medium
	oupressus sempervirens		retained due to	T ICOIOIN
33.		Remove	proposed	
			development.	
	Cupressus sempervirens		Not viable to be	Medium
		_	retained due to	1 iouium
34.		Remove	proposed	
			development.	
	Robinia pseudoacacia		Not viable to be	Medium
25	,	D	retained due to	
35.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
36.		Remove	retained due to	
50.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
37.		Remove	retained due to	
57.		Remove	proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
38.		Remove	retained due to	
50.			proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
39.		Remove	retained due to	
001			proposed	
			development.	
	Platanus x acerifolia		Not viable to be	Medium
40.		Remove	retained due to	
			proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
41.		Remove	retained due to	
			proposed	
	Function and a second second		development.	11:
	Eucalyptus sideroxylon		Not viable to be retained due to	High
42.		Remove	proposed	
			development.	
	Corumbia citriadara		Not viable to be	High
	Corymbia citriodora		retained due to	I IIGII
43.		Remove	proposed	
			development.	
	Eucalyptus sideroxylon		Not viable to be	High
		_	retained due to	ייסיי <i>ו</i>
44.		Remove	proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
		-	retained due to	
		Remove		
45.		Remove	proposed	

	Melia azedarach		Not viable to be	Medium
		_	retained due to	1 iouium
46.		Remove	proposed	
			development.	
	Corymbia citriodora		Not viable to be	High
			retained due to	1.1611
47.		Remove	proposed	
			development.	
	Eucalyptus saligna		Viable to be	High
48.	Lucatypeac caligna	Retain	retained and	
			protected.	
	Eucalyptus microcorys		Viable to be	Medium
49.	Lucatyptae microcoryc	Retain	retained and	1 rould m
			protected.	
	Lophostemon confertus		Viable to be	Medium
50.	Lophosterion comentas	Retain	retained and	ricululii
50.		Rotain	protected.	
	Eucalyptus saligna		Not viable to be	High
	Lucalyplus saligiid		retained due to	1 11811
51.		Remove	proposed	
			development.	
	Fuechantus estigne		Viable to be	llich
52.	Eucalyptus saligna	Retain	retained and	High
52.		Retain	protected.	
				Maaliuma
	Melaleuca quinquenervia		Not viable to be	Medium
53.		Remove	retained due to	
			proposed	
			development.	
	Melaleuca quinquenervia		Not viable to be	Medium
54.		Remove	retained due to	
			proposed	
			development.	
	Callistemon viminalis		Viable to be	Medium
55.		Retain	retained and	
			protected.	
	Eucalyptus saligna		Not viable to be	High
56.		Remove	retained due to	
			proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
57.		Remove	retained due to	
			proposed	
			development.	
	Eucalyptus crebra		Not viable to be	High
58.		Remove	retained due to	
50.		Romovo	proposed	
			development.	
	Eucalyptus scoparia		Not viable to be	Medium
59.		Remove	retained due to	
59.		Renove	proposed	
			development.	
60.	Melaleuca quinquenervia	Remove	Not viable to be	Medium

			proposed	
			development.	
	Hibiscus spp		Not viable to be	Medium
C 1		Demons	retained due to	
61.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
C 2		Demons	retained due to	
62.		Remove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
63.		Remove	retained due to	
05.		Keniove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
64.		Remove	retained due to	
04.		Neniove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
65.		Remove	retained due to	
05.		Remove	proposed	
			development.	
	Callistemon viminalis	Remove	Not viable to be	Medium
66.			retained due to	
00.		Romovo	proposed	
			development.	
	Melaleuca quinquenervia		Not viable to be	Medium
67.		Remove	retained due to	
		i veniove	proposed	
			development.	
	Callistemon viminalis		Not viable to be	Medium
68.		Remove	retained due to	
			proposed	
			development. Not viable to be	Ma aliuma
	Cupressus sempervirens		retained due to	Medium
69.		Remove	proposed	
			development.	
	Grevillea robusta		Not viable to be	Medium
			retained due to	
70.		Remove	proposed	
			development.	
	Schinus areira		Not viable to be	Medium
			retained due to	
71.		Remove	proposed	
			development.	
	Ficus benjamina		Not viable to be	Medium
			retained due to	
72.		Remove	proposed	
			development.	
	Ficus benjamina	_	Not viable to be	Medium
73.		Remove	retained due to	

			proposed	
			development.	
	Ceratopetalum		Not viable to be	Medium
	gummiferum		retained due to	1 rould III
74.	guinninerunn	Remove	proposed	
			development.	
	Calodendrum capense		Not viable to be	Medium
	Calouenarum capense		retained due to	riculum
75.		Remove	proposed	
			development.	
	Lophostemon confertus		Viable to be	Medium
76.	Lophostemon comercus	Retain	retained and	riculum
70.		Retain	protected.	
	Illmuo porvitolio		Viable to be	Medium
77.	Ulmus parvifolia	Retain	retained and	Medium
//.		Relain		
			protected.	
	Sapium sebiferum		Not viable to be	Medium
78.		Remove	retained due to	
			proposed	
			development.	
	Lophostemon confertus		Viable to be	Medium
81.		Retain	retained and	
			protected.	
	Casuarina		Viable to be	Medium
82.	cunninghamiana	Retain	retained and	
			protected.	
	Callistemon viminalis		Viable to be	Medium
83.		Retain	retained and	
			protected.	
	Lophostemon confertus		Viable to be	Medium
84.		Retain	retained and	
			protected.	
	Eucalyptus saligna		Not viable to be	Medium
85.		Domovio	retained due to	
85.		Remove	proposed	
			development.	
	Lophostemon confertus		Not viable to be	Medium
96		Demovie	retained due to	
86.		Remove	proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
07	,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	P	retained due to	
87.		Remove	proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
		_	retained due to	
88.		Remove	proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
			retained due to	11611
89.		Remove	proposed	
			development.	
			development.	

	Eucalyptus saligna		Not viable to be	High
00		Demons	retained due to	U U
90.		Remove	proposed	
			development.	
	Eucalyptus saligna		Not viable to be	High
04		D	retained due to	0
91.		Remove	proposed	
			development.	
	Lophostemon confertus		Viable to be	High
95.		Retain	retained and	0
			protected.	
	Corymbia citriodora		Viable to be	High
98.		Retain	retained and	Ũ
			protected.	
	Eucalyptus microcorys		Viable to be	High
99.	, , , , , , , , , , , , , , , , , , ,	Retain	retained and	0
			protected.	
	Corymbia citriodora		Viable to be	High
100.		Retain	retained and	
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
101.		Retain	retained and	1.1011
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
102.	Lucayptac chackers, ten	Retain	retained and	1.1.8.1
			protected.	
	Eucalyptus scoparia		Viable to be	High
103.	Lucalyptuc coopana	Retain	retained and	1.1011
			protected.	
	Eucalyptus sideroxylon		Viable to be	High
104.		Retain	retained and	1.1011
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
105.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
106.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
107.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
108.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
109.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
112.		Retain	retained and	
±±4,		(count	protected.	
	Robinia pseudoacacia		Viable to be	Medium
113.	ποριτια μεσαυσατάτια	Retain	retained and	ricululli
115.		Rotain	protected.	
			proteoted.	1

	Robinia pseudoacacia		Viable to be	Medium
114.		Retain	retained and	
			protected.	
	Robinia pseudoacacia		Viable to be	Medium
115.	-	Retain	retained and	
			protected.	
	Angophora costata		Viable to be	Medium
116.		Retain	retained and	
			protected.	
	Angophora costata		Viable to be	Medium
117.		Retain	retained and	
			protected.	
	Angophora costata		Viable to be	Medium
118.	0,1	Retain	retained and	
			protected.	
	Elaeocarpus kirtonii		Viable to be	Medium
119.	,	Retain	retained and	
			protected.	
	Callistemon viminalis		Viable to be	Medium
120.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
121.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
122.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
123.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
124.		Retain	retained and	
			protected.	
	Melaleuca armillaris		Viable to be	Medium
125.		Retain	retained and	
			protected.	
	Jacaranda mimosifolia		Viable to be	Medium
126.		Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
127.		Retain	retained and	
			protected.	
	Corymbia maculata		Viable to be	Medium
128.		Retain	retained and	
			protected.	
	Corymbia maculata		Viable to be	Medium
129.		Retain	retained and	
			protected.	
	Melia azedarach		Viable to be	Medium
				i iodiuiii
130.		Retain	retained and	

131.	Melia azedarach	Retain	Viable to be retained and	Medium
	Corymbia maculata		protected. Viable to be	Medium
132.		Retain	retained and protected.	
133.	Corymbia maculata	Retain	Viable to be retained and protected.	Medium
134.	Corymbia citriodora	Retain	Viable to be retained and protected.	Medium
135.	Melia azedarach	Retain	Viable to be retained and protected.	Medium
136.	Corymbia citriodora	Retain	Viable to be retained and protected.	Medium
159.	Calodendrum capense	Retain	Viable to be retained and protected.	High
160.	Eucalyptus sideroxylon	Retain	Viable to be retained and protected.	High
161.	Corymbia citriodora	Retain	Viable to be retained and protected.	Medium
162.	Corymbia citriodora	Retain	Viable to be retained and protected.	Medium
163.	Cinnamomum camphora	Retain	Viable to be retained and protected.	Low
164.	Washingtonia robusta	Retain	Viable to be retained and protected.	Medium
165.	Plumeria rubra	Remove	Not viable to be retained due to proposed development.	Medium

8.0	REF Deliverable Requirement Reporting		
ltem	Trees and Landscaping	Relevant Section of Report	
1.0	Has an Arboricultural Impact Assessment (AIA) been prepared to support the REF which assesses existing trees within the proposed works area, including street trees, and recommends tree protection measures for trees to be retained?	3.0 Existing Trees 9.0 Pre-Construction Tree Protection Measures 10.0 Site Management Issues 11.0 Tree protection	
		Measures During Construction	

2.0	Does the REF discuss the number, species, pot sizes and height of trees to be removed and trees to be planted?	Refer to Landscape Architects Design
3.0	Have any tree protection measures set out in the AIA been incorporated in: the design; REF mitigation measures; and the preliminary construction methodology?	

9.0 **Pre-Construction Tree Protection Measures**

9.1 General

All tree protection works shall be carried out before excavation, grading and site works commence. Tree protection works shall be inspected and approved by a Consulting Arborist meeting AQF Level 5 prior to construction works commencing.

Storage of materials, mixing of materials, vehicle parking, disposal of liquids, machinery repairs and refueling, site office and sheds, and the lighting of fires, stockpiling of soil, rubble or any debris shall not be carried out within the TPZ of existing trees. No backfilling shall occur within the TPZ of existing trees. Trees shall not be removed or lopped unless specific instruction is given in writing by the Superintendent.

9.2 Identification

All trees to be protected shall be clearly identified and all TPZs surveyed.

9.3 **Project Arborist**

Prior to all site works commencing, a Project Arborist is to be appointed with the responsibility of implementing all Tree Protection Measures in this report as well as compliance with AS4970-2009 Protection of Trees on Development Sites. The Site Arborist is to hold qualifications equivalent of AQF Level 5.

9.4 Protective Fence

Fencing is to be erected around existing trees to be retained. In addition to this protective fencing within the site, Protective Fencing is to be installed to the full extent of the TPZs within the site. This fencing is to be erected prior to any materials being brought on site or before any site, civil works or construction works commence. The fence shall enclose a sufficient area so as to prevent damage to the TPZ as defined on Appendix D Tree Protection Plan and as defined in 5.1 above. Fence to comprise 1800mm high chain wire mesh fixed to 50mm diameter Galvanised steel posts. Panels should be securely fixed top and bottom to avoid separation. No storage of building materials, tools, paint, fuel or contaminants and the like shall occur within the fenced area.

9.5 Mulching

Install mulch to the extent of all tree protection fencing. Use a leaf mulch conforming to AS 4454 which is free of deleterious and extraneous matter such as soil, weeds, sticks and stones and consisting of a minimum of 90% recycled content compliant with

AS 4454 (1999) and AS 4419 (1998). All trees marked as to be removed on the proposed development are to be chipped and reused for this purpose. Place mulch evenly and to a depth of 100mm.

9.6 Signage

Prior to works commencing, tree protection signage is to be attached to each tree protection zone, displayed in a prominent position and the sign repeated at 10 metres intervals or closer where the fence changes direction. Each sign shall contain in a clearly legible form, the following information: Tree protection zone.

- This fence has been installed to prevent damage to the trees and their growing environment both above and below ground and access is restricted.
- No Access within Tree Protection Zone
- The name, address, and telephone number of the developer.

The name and telephone number of the Site Arborist.

9.7 Trunk and Branch Protection

Where a tree is to be retained and a Tree Protection Zone cannot be adequately established due to restricted access, the trunk and branches in the lower crown will be protected by wrapping 2 layers of hessian or carpet underfelt around the trunk and branches for a minimum of 2 m or as lower branches permit, then metal strapping secures 38x50 x2000 mm timber battens together around the trunk (do not nail or screw to the trunk or branches). The number of battens to be used is as required to encircle the trunk and the battens are to extend to the base of the tree (AS4970 2009 Protection of trees on development sites, Figure 3 Examples of Trunk, Branch and ground protection).

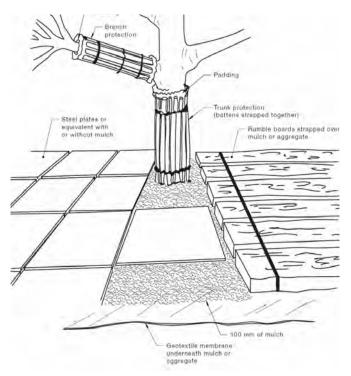


Figure 4 - Trunk Protection

10.0 Site Management Issues

10.1 Soil Compaction

Plant and pedestrian traffic during the construction period will cause significant soil compaction. This will be exacerbated by increased water expected on these soils as result of adjacent construction and weather. Compaction of the soil within the TPZ will reduce the voids between soil peds or particles therefore will reduce the gaseous exchange capacity of the root system which will slow critical metabolic processes. No pedestrian or plant access is permissible to the TPZ.

10.2 Site Access

Sufficient access is required to enable efficient construction. It is essential to delineate access zones or corridors which will provide suitable access without damaging the existing trees to be retained or causing compaction to the root zone.

10.3 Excavation within Tree Protection Area

No excavation is to be carried out within the TPZs of retained trees without the permission and supervision of the Site Arborist (AQF5)

10.4 Possible Contamination / Storage of Materials

The construction site will require the use of many chemicals and materials that are possible contaminants which if not managed will pose a risk to the existing trees. These possible contaminants include fuels, herbicides, solvents and the like. A site-specific Environmental Management Plan shall be provided, and this specific risk identified and addressed.

11.0 Tree Protection Measures During Construction

11.1 Maintenance of Pre-Construction Tree Protection Measures

The Pre-Construction Tree Protection Measures identified in 5.0 above are to be maintained in good and serviceable condition throughout the construction period.

11.2 Possible Contaminants

Do not store or otherwise place bulk materials and harmful materials under or near trees. Do not place spoil from excavations within the TPZs. Prevent wind-blown materials such as cement from harming trees. All possible contaminants are to be stored in a designated and appropriate area with secure chemical spill measures such as a bund in place.

11.3 Physical Damage

Prevent damage to tree. Do not attach stays, guys and the like to trees. No personnel, plant, machinery or materials are to be allowed within the tree protection fencing.

11.4 Compaction

No filling or compaction shall occur over tree roots zones within tree protection fenced areas. Where construction occurs close to or the TPZ of trees to be retained it shall be necessary to install protection to avoid compaction of the ground surface. This protection is to be planks supported clear of the ground fixed to scaffolding.

11.5 Trenching

No Trenching should be necessary within the TPZs or within tree protection fencing. No further trenching is to be carried out without the approval of the Site Arborist. Should any further trenching be required within the TPZs identified, this work is to be carried out by hand and under the supervision of a qualified Arborist.

11.6 Irrigation/Watering

Contractor is to ensure that soil moisture levels are adequately maintained. Apply water at an appropriate rate suitable for the species during periods of little or no rainfall.

11.7 Site Sheds / Amenities/ Storage

Site sheds, site amenities, ablutions and site storage shall be in the area clear of all TPZ. Chemicals and potential contaminants are to be stored appropriately and this storage area is to be enclosed by a chemical spill bund to prevent the potential run off of contaminants in the event of a spillage or accident.

12.0 References

Mattheck, C. Breloer, K. 1993, The Body Language of Trees: A Handbook for Failure Analysis, 12th Impression 2011 The Stationery Office.

AS4970-2009 Protection of Trees on Development Sites: Standards Australia

13.0 Disclaimer

This Appraisal has been prepared for the exclusive use of the Client and Birds Tree Consultancy.

Birds Tree Consultancy accepts no responsibility for its use by other persons. The Client acknowledges that this Appraisal, and any opinions, advice or recommendations expressed or given in it, are based on the information supplied by the Client and on the data inspections, measurements and analysis carried out or obtained Birds Tree Consultancy and referred to in the Appraisal. The Client should rely on the Appraisal, and on its contents, only to that extent.

Every effort has been made in this report to include, assess and address all defects, structural weaknesses, instabilities and the like of the subject trees. All inspections were made from ground level using only visual means and no intrusive or destructive means of inspection were used. For many structural defects such as decay and inclusions, internal inspection is required by means of Resistograph or similar. No such investigation has been made in this case. Trees are living organisms and are subject to failure through a variety of causes not able to be identified by means of this inspection and report.

Appendix A Landscape Significance

IACA Significance of a Tree, Assessment Rating System (STARS) © (IACA 2011) ©

In the development of this document IACA acknowledges the contribution and original concept of the Footprint Green Tree Significance & Retention Value Matrix, developed by Footprint Green Pty Ltd in June 2001.

The landscape significance of a tree is an essential criterion to establish the importance that a particular tree may have on a site. However, rating the significance of a tree becomes subjective and difficult to ascertain in a consistent and repetitive fashion due to assessor bias. It is therefore necessary to have a rating system utilising structured qualitative criteria to assist in determining the retention value for a tree. To assist this process all definitions for terms used in the *Tree Significance - Assessment Criteria* and *Tree Retention Value - Priority Matrix*, are taken from the IACA Dictionary for Managing Trees in Urban Environments 2009.

This rating system will assist in the planning processes for proposed works, above and below ground where trees are to be retained on or adjacent a development site. The system uses a scale of *High*, *Medium* and *Low* significance in the landscape. Once the landscape significance of an individual tree has been defined, the retention value can be determined.

Tree Significance - Assessment Criteria

1. High Significance in landscape



- The tree is in good condition and good vigour;
- The tree has a form typical for the species;
- The tree is a remnant or is a planted locally indigenous specimen and/or is rare or uncommon in the local area or of botanical interest or of substantial age;
- The tree is listed as a Heritage Item, Threatened Species or part of an Endangered ecological community or listed on Councils significant Tree Register;
- The tree is visually prominent and visible from a considerable distance when viewed from most directions within the landscape due to its size and scale and makes a positive contribution to the local amenity;
- The tree supports social and cultural sentiments or spiritual associations, reflected by the broader population or community group or has commemorative values;
- The tree's growth is unrestricted by above and below ground influences, supporting its ability to reach dimensions typical for the taxa *in situ* tree is appropriate to the site conditions.

2. Medium Significance in landscape

- The tree is in fair-good condition and good or low vigour;
- The tree has form typical or atypical of the species;
- The tree is a planted locally indigenous or a common species with its taxa commonly planted in the local area
- The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when viewed from the street,
- The tree provides a fair contribution to the visual character and amenity of the local area,
- The tree's growth is moderately restricted by above or below ground influences, reducing its ability to reach dimensions typical for the taxa *in situ*.

3. Low Significance in landscape

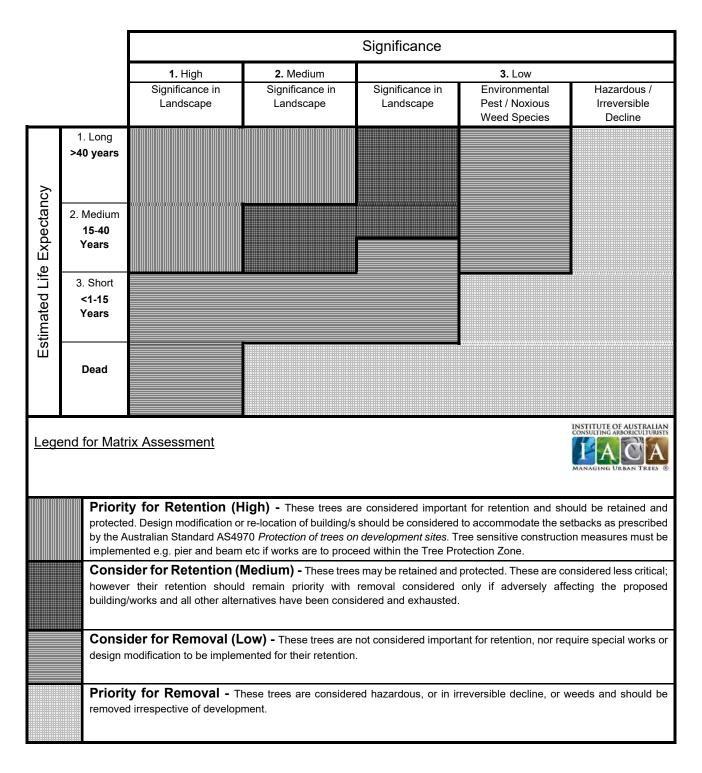
- The tree is in fair-poor condition and good or low vigour;
- The tree has form atypical of the species;
- The tree is not visible or is partly visible from surrounding properties as obstructed by other vegetation or buildings,
- The tree provides a minor contribution or has a negative impact on the visual character and amenity of the local area,
 The tree is a young specimen which may or may not have reached dimension to be protected by local Tree Preservation orders or similar protection mechanisms and can easily be replaced with a suitable specimen.
- The tree's growth is severely restricted by above or below ground influences, unlikely to reach dimensions typical for the taxa *in situ* - tree is inappropriate to the site conditions,
- The tree is listed as exempt under the provisions of the local Council Tree Preservation Order or similar protection mechanisms,
- The tree has a wound or defect that has potential to become structurally unsound. Environmental Pest / Noxious Weed Species

- The tree is an Environmental Pest Species due to its invasiveness or poisonous/ allergenic properties,
- The tree is a declared noxious weed by legislation.
- Hazardous/Irreversible Decline
- The tree is structurally unsound and/or unstable and is considered potentially dangerous,
- The tree is dead, or is in irreversible decline, or has the potential to fail or collapse in full or part in the immediate to short term.

The tree is to have a minimum of three (3) criteria in a category to be classified in that group.

Note: The assessment criteria are for individual trees only, however, can be applied to a monocultural stand in its entirety e.g. hedge.

Appendix B Tree Retention Values



REFERENCES

Australia ICOMOS Inc. 1999, The Burra Charter – The Australian ICOMOS Charter for Places of Cultural Significance, International Council of Monuments and Sites, www.icomos.org/australia

Draper BD and Richards PA 2009, Dictionary for Managing Trees in Urban Environments, Institute of Australian Consulting Arboriculturists (IACA), CSIRO Publishing, Collingwood, Victoria, Australia.

Footprint Green Pty Ltd 2001, Footprint Green Tree Significance & Retention Value Matrix, Avalon, NSW Australia, www.footprintgreen.com.au

Appendix C - Tree Inspection Data

Birds Tree Consultancy

Consulting Arborist• Project Management • Horticultural Consultancy • Landscape Management

Inspection Date Site name	2nd Octob Liverpool B		ls High Scho			/v\anagemer			ancy clunus		gemeni												
Address	18 Forbes		_																				
Tree no. Species	Common Name	Height	Spread(m)	Trunk (single, twin, multiple @)	DBH (mm)	TPZ Radius (m)		SRZ radius (m)	Trunk lean	Tree Age	Overall Health & Vigour	Crown Distributio n	Structure	Pruning History	Defects	Pest Infestation	Canopy Density		Epicormic Growth	Life expectanc y			Notes
Melaleuca 21 quinquenervia	Broad- leaved Paperbark	12	6	1	760	9.12	850	3.09	Nil	Mature	Good (70- 79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Corymbia 22 maculata	Spotted Gum	22	9	1	480	5.76	550	2.57	Nil	Mature	Good (70- 79)	Symmetric al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Corymbia 23 maculata	Spotted Gum	23	7	1	420	5.04	550	2.57	Nil	Mature	Good (70- 79)	Symmetric al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Corymbia 24 maculata	Spotted Gum	22	7	1	440	5.28	550	2.57	Nil	Mature	Good (70- 79)	Symmetric al		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Lophostemon 25 confertus	Queenslan d Brushbox	10	10	1	480) 5.76	700	2.85	Nil	Mature	Good (70- 79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Lophostemon 26 confertus	Queenslan d Brushbox	10	8	1	450) 5.4	550	2.57	Nil	Mature	Good (70- 79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
27 Schinus areira	Pepper Tree, Peruvian Mastic Tree	12		Multiple Stems	883.9	0 10.61	900	3.17	Nil	Mature	Good (70- 79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
Jacaranda 28 mimosifolia	Jacaranda	10	10	1	380) 4.56	450	2.37	Nil	Mature	Good (70- 79)	Symmetric al	1	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
Jacaranda 29 mimosifolia	Jacaranda	10	10	1	340	4.08	450	2.37	Nil	Mature	Good (70- 79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
30 Melia azedarach	White Cedar	11		Multiple Stems	300) 3.6	360	2.15	Nil	Mature	Good (70- 79)	-	1	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
Jacaranda 31 mimosifolia	Jacaranda	8	12	1	500	6	60	1.02	Nil	Mature	Good (70- 79)	Symmetric al	1	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	
32 Livistona australi	Cabbage is Tree Palm	13	4	1	C) 2	0	N/A	Nil	Mature	Good (70- 79)	-	1	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	Medium	Medium	

					Trunk			Diameter																
					(single,			at Root														Env. &		
					twin,		TPZ	Flare				Overall	Crown								Life	Landcape		
Tree		Common			multiple		Radius	(DRF)	SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic	expectanc	significanc	Retention	
no.	Species	Name	Height	Spread(m)	@)	DBH (mm)	(m)	(mm)	(m)	Trunk lean	Tree Age	Vigour	n	Structure	History	Defects	Infestation	Density	d	Growth	у	e	Value	Notes
		Mediterra																						
	Cupressus	nean										Good (70-	Symmetric	1							21-40	Medium	Medium	
33	sempervirens	Cypress	13	8	1	500	6	560	2.59	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	0	Mediterra										0 a a d (70	C: mana a trii a								01 40	Marthum		
	Cupressus	nean	10	6	1	400	10	100	2.42	NII	Matura	· ·	Symmetric	1	No Evidonco	No Evidonco	No Evidonco	Normal	<5%	< 5.04	21-40 Voors	Medium	Medium	
	sempervirens Robinia	Cypress	12	0	1	400	4.8	480	2.43	INIL	Mature	79) Good (70-	Symmetric		NO Evidence	No Evidence	NO EVIDENCE	Normat	<5%	<5%	years 21-40			
	pseudoacacia		9	7	1	300	3.6	380	2.20	Nil	Mature	79)	1		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Platanus x	London	Ŭ	7		000	0.0	000	2.20		riatare		Symmetric					Normat	1070	.070	21-40			
	acerifolia	plane	19	16	1	700	8.4	800	3.01	Nil	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Platanus x	London										,	Symmetric								21-40			
37	acerifolia	plane	17	12	1	470	5.64	550	2.57	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Platanus x	London										Good (70-	Symmetric	;							21-40	Madiuma	Madium	
38	acerifolia	plane	17	12	1	380	4.56	450	2.37	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Platanus x	London										Good (70-	Symmetric	;							21-40	Medium	Medium	
	acerifolia	plane	15	9	1	410	4.92	550	2.57	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Heuluin	meulum	
	Platanus x	London											Symmetric								21-40	Medium	Medium	
40	acerifolia	plane	14	12	1	360	4.32	450	2.37	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	a	Lemon-																						
	Corymbia	scented		10	1	070	10.44	050	2.04	N1:1	Matura		Symmetric				No Evidence	Normal	< 5 0/	< 5 0/	21-40	High	High	
41	citriodora	Gum	24	16	1	870	10.44	950	3.24	NIL	Mature	79)	al	Good	NO Evidence	No Evidence	No Evidence	Normat	<5%	<5%	years			
	Eucalyptus sideroxylon	Mugga, Red Ironbark	17	11	1	550	6.6	750	2.93	Nil	Mature	Good (70- 79)	Symmetric al		No Evidence	Decay Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High		Prominent swelling at base indicative of decay evidence. Recommend TRAQ level 3 risk assessment to determine viability for retention
	Corymbia citriodora	Lemon- scented Gum	24	16	1	810	9.72	950	3.24	Nil	Mature	Good (70- 79)	Symmetric al			Cavity, Decay Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	Evidence of decay and cavity in second order junction at approximately 8m. Recommend TRAQ Level 3 risk assessment to determine viability for retention
	Eucalyptus sideroxylon	Mugga, Red Ironbark	15	11	1	480	5.76	600	2.67	Nil	Mature	Good (70- 79)	Symmetric al		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	
	Corymbia citriodora	Lemon- scented Gum	17	12	1	570	6.84	650	2.76	Nil	Mature	Good (70- 79)	Symmetric al		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	21-40 years	High	High	

					Trunk			Diameter																
					(single,			at Root														Env. &		
					twin,			Flare				Overall	Crown								Life	Landcape		
ree		Common			multiple				SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic		significanc	Retention	
	Species		Height	Spread(m)		DBH (mm)		(mm)		Trunk lean	Tree Age	Vigour		Structure	l č	Defects	Infestation	Density		Growth	V	e		Notes
		White			Multiple				. ,				Symmetric								21-40			
46	Melia azedarach	Cedar	11	9	Stems	399.1	4.79	450	2.37	Nil	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
-0		Lemon-				000.1	4.70		2.07		i latare	/0/		0000					1070	.0 /0	youro			
	Corymbia	scented										Good (70-	Symmetric								21-40	High	High	
	citriodora	Gum	19	12	1	620	7.44	750	2.93	Nil		79)	_		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	111811	111611	
			10			020	,	,	2.00			, , ,		0000							Jouro			
		Sydney										Good (70-	Symmetric								21-40	High	High	
48	Eucalyptus saligna		23	12	1	520	6.24	700	2.85	Nil		79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Eucalyptus				Multiple								Symmetric								21-40			
	microcorys	Tallowood	20	14	Stems	542	6.5	630	2.73	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
												,									,			
		Queenslan																						
	Lophostemon	d			Multiple							Good (70-	Symmetric	:							21-40	Medium	Medium	
	confertus	Brushbox	7	3	Stems	153	2	250	1.85	Nil		79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
												,							-					
		Sydney										Good (70-	Symmetric	:				1			21-40	High	High	
51	Eucalyptus saligna		23	12	1	. 560	6.72	750	2.93	Nil	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	<u> </u>											,												
																								Moderate apical dieback.
																								Significant cambium dama
																								at base. Potential evidence
																						High	High	decay. Recommend TRAQ
																								level 3 risk assessment to
		Sydney										Fair (60-	Symmetric	:							21-40			determine the viability of
52	Eucalyptus saligna	Blue Gum	23	12	1	510	6.12	600	2.67	Nil	Mature	69)			No Evidence	No Evidence	No Evidence	Thinning	15%	<5%	years			retention.
		Broad-																						
	Melaleuca	leaved										Good (70-	Symmetric	:							21-40	Medium	Medium	
53	quinquenervia	Paperbark	15	9	1	420	5.04	500	2.47	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	· ·																							
		Broad-																						
	Melaleuca	leaved										Good (70-	Symmetric	;							21-40	Medium	Medium	
54	quinquenervia	Paperbark	16	8	1	630	7.56	700	2.85	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Weeping																						
	Callistemon	Bottlebrus										Good (70-	Symmetric	;							21-40	Medium	Medium	
55	viminalis	h	4	5	1	220	2.64	280	1.94	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Sydney										Good (70-	Symmetric	:							21-40	High	High	
56	Eucalyptus saligna	Blue Gum	23	14	1	. 590	7.08	650	2.76	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
																		1						
		Sydney										Good (70-	Symmetric	;							21-40	High	High	
57	Eucalyptus saligna	Blue Gum	23	14	. 1	. 870	10.44	950	3.24	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Narrow-																						
		leaved											Symmetric					1			21-40	High	High	
58	Eucalyptus crebra	Ironbark	20	16	1	560	6.72	700	2.85	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
																		1						
		Wallangar																1				Medium	Medium	
	Eucalyptus	ra White			Multiple							Good (70-	Symmetric					1			21-40	i icululli	riculum	
59	scoparia	Gum	13	8	Stems	300	3.6	400	2.25	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
																		1						
		Broad-																1				Medium	Medium	
	Melaleuca	leaved										Good (70-	Symmetric								21-40	riculuili	neululli	
	quinquenervia	Paperbark	12	9	1 1	. 640	7.68	750	2.93	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	1		

				Trunk			Diameter																
				(single,			at Root														Env. &		
				twin,		TPZ	Flare				Overall	Crown								Life	Landcape		
ree	Common			multiple		Radius	(DRF)	SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic		significanc	Retention	
o. Species		eight	Spread(m)		DBH (mm)		(mm)	(m)	Trunk lean	Tree Age	Vigour		Structure	Ŭ	Defects	Infestation	Density	d	Growth	y v	Ŭ		Notes
		- 0		Multiple		(***) (***)	()	(/				Symmetric		· · · · · · · · · · · · · · · · · · ·						21-40			
61 Hibiscus spp		4	1	Stems	230	2.76	320	2.05	Nii		79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
or hibiscus shh	Weeping	4	4	Stems	230	2.70	520	2.05	INIL	Mature	79)	al	0000	NO EVIDENCE	NO EVIDENCE	NU EVIDENCE	nonnat	<5%	< 5 %	years			
Callistemon											Cood (70	Summotrio								01 40	Madium	Madium	
	Bottlebrus	C	-	1	250	0	200	2.00	NU		Good (70-			No Fuidance		No Fuidance	Normal	< 5.0/		21-40	Medium	Medium	
62 viminalis		6	5		250	3	300	2.00	INIL	Mature	79)	al	Good	NO EVIDENCE	No Evidence	NO Evidence	Normal	<5%	<5%	years			
O a lliata ma a m	Weeping			Maria la							0 1 (70	0								01.10		N	
Callistemon	Bottlebrus	-		Multiple	000	0.04		0.00	N.::1		Good (70-	Symmetric		No Estatement		No Estatement	N	.50(21-40	Medium	Medium	
63 viminalis	h	5	4	Stems	320	3.84	380	2.20	NIL	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Weeping																						
Callistemon	Bottlebrus			Multiple								Symmetric								21-40	Medium	Medium	
64 viminalis	h	6	4	Stems	300	3.6	350	2.13	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Weeping																						
Callistemon	Bottlebrus			Multiple							Good (70-	-								21-40	Medium	Medium	
65 viminalis	h	6	6	Stems	350	4.2	380	2.20	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Weeping																						
Callistemon	Bottlebrus			Multiple							Good (70-	Symmetric								21-40	Medium	Medium	
66 viminalis	h	4	5	Stems	240	2.88	300	2.00	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Broad-																				Medium	Medium	
Melaleuca	leaved										Good (70-	Symmetric								21-40	Meuluin	Meuluin	
67 quinquenervia	Paperbark	19	8	1	670	8.04	750	2.93	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Weeping																						
Callistemon	Bottlebrus			Multiple							Good (70-	Symmetric								21-40	Medium	Medium	
68 viminalis	h	5	5	Stems	350	4.2	420	2.30	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Mediterra																						
Cupressus	nean										Good (70-	Symmetric								21-40	Medium	Medium	
69 sempervirens	Cypress	15	5	1	510	6.12	580	2.63	Nil		79)	al		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
												Symmetric								21-40			
70 Grevillea robusta	Silky Oak	16	9	1	470	5.64	550	2.57	Nil	Mature	79)	-	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Pepper										,									,			
	Tree,																						
	Peruvian																				Medium	Medium	
	Mastic										Good (70-	Symmetric								21-40			
71 Schinus areira	Tree	14	11	1	490	5.88	560	2.59	Nil		79)	al		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Weeping	1-1				0.00		2.00				Symmetric								21-40			
72 Ficus benjamina	Fig	16	12	1	700	8.4	790	3.00	Nil		79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Weeping	10	12		,,,,,	0.4	730	0.00			Good (70-						literinat			21-40			
73 Ficus benjamina	Fig	16	10	1	600	7.2	660	2.78	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	NSW	10	10			1.2	. 000	2.70			/ 5/	u	0000				Normat	1070	1070	yours			
Ceratopetalum	Christmas										Good (70	Symmetric								21-40	Medium	Medium	
74 gummiferum		F	A	1	160	0	2500	4.86	NII			Symmetric		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%		meululli	meululli	
-	Bush	Э	4	Multiple	100	2	2500	4.80			79) Cood (70	dl Symmotri -		NO EVIDENCE		NO EVIDENCE	NUTTIAL	×5%		years			
Calodendrum	Cape	4.0	_	Multiple	E00	~	500	0.00	NU		Good (70-			No Fuidor -		No Duiders	Normal	< E0/		21-40	Medium	Medium	
75 capense	Chestnut	10	8	Stems	500	6	580	2.63	INIL	Mature	79)	al	Good	NO EVIGENCE	No Evidence	NO EVIGENCE	ivormat	<5%	<5%	years			
	Queerster																						
	Queenslan										0	0								01.10	Medium	Medium	
Lophostemon	a		-								Good (70-	-								21-40			
76 confertus	Brushbox	10	9	1	490	5.88	550	2.57	NIL		79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Chinese					_		_			· ·	Symmetric								21-40	Medium	Medium	
77 Ulmus parvifolia	Elm	13	13	1	460	5.52	. 550	2.57	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years		····	

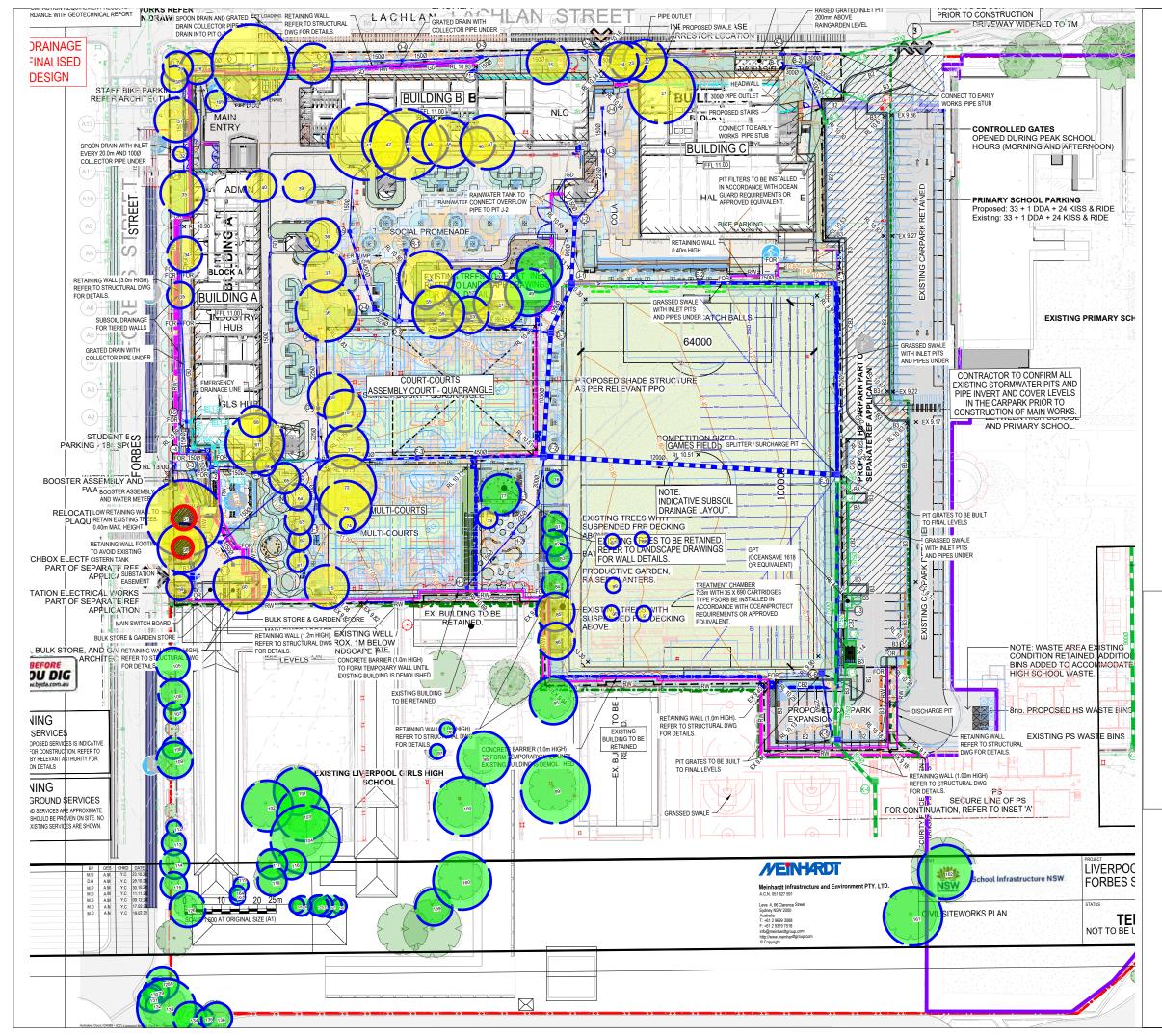
					Trunk			Diameter																
					(single,			at Root														Env. &		
					twin,		TPZ	Flare				Overall	Crown								Life	Landcape		
Tree		Common			multiple		Radius		SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic		significanc	Retention	
	Species		Height	Spread(m)		DBH (mm)		(mm)		Trunk lean	Tree Age	Vigour		Structure	Ŭ		Infestation	Density		Growth	V	-		Notes
		Chinese			C/		()	()	<u> </u>												,			
		Tallow										Good (70-	Symmetric								21-40	Medium	Medium	
78	Sapium sebiferun		8	6	1	230	2.76	340	2.10	Nil	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
																					Jeare			
		Queenslan																						
	Lophostemon	d										Good (70-	Symmetric								21-40	Medium	Medium	
81	confertus	Brushbox	7	7	1	290	3.48	360	2.15	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Casuarina											Good (70-	Symmetric								21-40	Medium	Medium	
82	cunninghamiana	River Oak	14	. 7	′ 1	300	3.6	380	2.20	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Weeping																						
	Callistemon	Bottlebrus											Symmetric								21-40	Medium	Medium	
83	viminalis	h	5	5	1	280	3.36	350	2.13	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Ouconstan																						
	Lophostemon	Queenslan										Good (70	Symmetric								21-40	Medium	Medium	
	confertus	u Brushbox	11	0	1	300	3.6	380	2.20	Nii	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
04	comentus	DIUSIIDOX	11			300	3.0	300	2.20	INIL	Mature	73)	a	0000			NO EVIDENCE	Normat	< J ⁹⁰	< J ⁹⁰	years			
		Sydney										Good (70-	Symmetric								21-40	Medium	Medium	
85	Eucalyptus salign		20	10	1	440	5.28	550	2.57	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	. iouiuiii	. rouldin	
		Queenslan																				Madium	Madium	
	Lophostemon	d										Good (70-	Symmetric								21-40	Medium	Medium	
86	confertus	Brushbox	14	. g	1	420	5.04	500	2.47	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Sydney											Symmetric								21-40	High	High	
87	Eucalyptus salign	a Blue Gum	18	8	8 1	360	4.32	450	2.37	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Cudmou			Multiple							Cood (70	Cuma na atria								01 40	Lligh	Lligh	
00	Eucalyptus salign	Sydney	12		Multiple Stems	260	3.12	350	2.13	NII	Mature	79)	Symmetric		No Evidonco	No Evidence	No Evidonco	Normal	<5%	<5%	21-40	High	High	
00	Eucatyptus satigi		12	. 4	Sterns	200	3.12	350	2.13	INIL	Mature	79)	al	000u	NO EVIDENCE	NO EVIDENCE	NO EVIDENCE	noma	<5%	<5%	years			
		Sydney										Good (70-	Symmetric								21-40	High	High	
89	Eucalyptus salign		19	9	1	320	3.84	400	2.25	Nil	Mature	79)		Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
																					-			
		Sydney										Good (70-	Symmetric								21-40	High	High	
90	Eucalyptus salign	a Blue Gum	18	9	1	300	3.6	380	2.20	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Sydney		_	_								Symmetric								21-40	High	High	
91	Eucalyptus salign	a Blue Gum	20	8	1	310	3.72	350	2.13	NIL	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Queenslar																						
	Lophostemon	Queenslan d										Good (70	Symmetric								21-40	High	High	
	confertus	u Brushbox	14	. 10	1	540	6.48	600	2.67	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		Lemon-				540	5.40		2.07			/									, - ,			
	Corymbia	scented										Good (70-	Symmetric								21-40	High	High	
98	citriodora	Gum	25	13	1	600	7.2	680	2.81	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years		_	
	Eucalyptus											Good (70-	Symmetric								21-40	High	Llich	
99	microcorys	Tallowood	22	16	1	780	9.36	850	3.09	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	i ligit	High	
	.	Lemon-																						
	Corymbia	scented						750	0.00	NI:I			Symmetric		No Evidence	No Evidence	No Estatore	Normal	< 5 0/		21-40	High	High	
100	citriodora	Gum	24	16	1	670	8.04	750	2.93	INIL	Mature	79)	al	Good	NO Evidence	No Evidence	IND EVIDENCE	Normal	<5%	<5%	years			

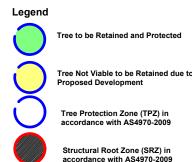
				Trunk			Diameter																
				(single,			at Root														Env. &		
				twin,		TPZ	Flare				Overall	Crown								Life	Landcape		
Tree	Common			multiple		Radius	(DRF)	SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic	expectanc	significanc	Retention	
no. Species	Name	Height	Spread(m)	@)	DBH (mm)	(m)	(mm)	(m)	Trunk lean	Tree Age	Vigour	n	Structure	History	Defects	Infestation	Density	d	Growth	у	е	Value	Notes
	Mugga,																						
Eucalyptus	Red										Good (70-	Symmetric	;							21-40	High	High	
101 sideroxylon	Ironbark	24	14	1	540	6.48	600	2.67	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Mugga,																						
Eucalyptus	Red										Good (70-	Symmetric	;							21-40	High	High	
102 sideroxylon	Ironbark	24	14	1	580	6.96	650	2.76	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Wallangar																				Lligh	Lligh	
Eucalyptus	ra White										Good (70-	Symmetric	;							21-40	High	High	
103 scoparia	Gum	20	14	1	. 600	7.2	700	2.85	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Mugga,																						
Eucalyptus	Red										Good (70-	Symmetric	:							21-40	High	High	
104 sideroxylon	Ironbark	24	15	1	790	9.48	860	3.11	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years		-	
Robinia											Good (70-	Symmetric	:							21-40	Mariliana	Maallaura	
105 pseudoacacia		10	8	1	380	4.56	450	2.37	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	:							21-40			
106 pseudoacacia		10	8	1	350	4.2	400	2.25	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	;							21-40		N4 11	
107 pseudoacacia		9	8	1	240	2.88	290	1.97	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	:							21-40	Mariliana	Maallaura	
108 pseudoacacia		10	7	1	250	3	350	2.13	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	;							21-40	Mariliana	Maallaura	
109 pseudoacacia		10	8	1	410	4.92	500	2.47	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	:							21-40	Madium	Madium	
112 pseudoacacia		10	7	1	170	2.04	240	1.82	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	;							21-40	Medium	Medium	
113 pseudoacacia		11	8	1	270	3.24	340	2.10	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
Robinia											Good (70-	Symmetric	;							21-40	Medium	Medium	
114 pseudoacacia		11	8	1	330	3.96	390	2.23	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Mediulii	
Robinia											Good (70-	Symmetric	;							21-40	Medium	Medium	
115 pseudoacacia		10	6	1	300	3.6	380	2.20	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Heululli	neulum	
	Sydney																						
	Red Gum,																				Medium	Medium	
	Smooth-																						
	barked											Symmetric								21-40			
116 Angophora costata	Apple	14	8	1	. 340	4.08	400	2.25	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Sydney																						
	Red Gum,																				Medium	Medium	
	Smooth-																						
	barked		-	_								Symmetric								21-40			
117 Angophora costata	Apple	14	9	1	. 340	4.08	400	2.25	NIL	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			

					Trunk			Diamotor																
					Trunk (single,			Diameter at Root														Env. &		
					twin,			Flare				Overall	Crown								Life	Landcape		
e		Common			multiple		Radius		SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Enicormic		significanc	Retention	
	Species		Height	Spread(m)		DBH (mm)		n í		Trunk lean	Tree Age	Vigour		Structure	Ŭ	Defects	Infestation	Density		Growth	y	e		Notes
	•					, , , , , , , , , , , , , , , , , , ,									-									
		Sydney																						
		Red Gum,																				Medium	Medium	
		Smooth-																				Medium	Meuluili	
		barked										Good (70-	Symmetric								21-40			
118	Angophora costa	ata Apple	14	9) 1	330	3.96	400	2.25	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Elaeocarpus	White										Good (70-	Symmetric								21-40	Medium	Medium	
	kirtonii	Quondong	6		3 1	110	2	150	1.49	Nil		79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	riculum	Healann	
110	Kirtonii	Weeping			, 1	110		100	1.40		i lucuro	, , ,		0000				Normat		4070	years			
	Callistemon	Bottlebrus			Multiple							Good (70-	Symmetric								21-40	Medium	Medium	
	viminalis	h	5	3	Stems	85.4	2	120	1.36	Nil	Mature	79)	-		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
\neg		bracelet																						
		Honey-																						
		myrtle,																						
		needle-																				Medium	Medium	
		leaved																						
	Melaleuca	Honey-			Multiple							-	Symmetric								21-40			
121	armillaris	myrtle	10	5	5 Stems	254.6	3.06	280	1.94	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		bracelet																						
		Honey-																						
		myrtle,																				Madium	Madium	
		needle- leaved																				Medium	Medium	
	Melaleuca	Honey-			Multiple							Good (70-	Symmetric								21-40			
	armillaris	myrtle	10	F	Stems	242.1	2.91	280	1.94	Nil		79)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		bracelet					2.01		2.0.1												Jouro			
		Honey-																						
		myrtle,																						
		needle-																				Medium	Medium	
		leaved																						
	Melaleuca	Honey-			Multiple							Good (70-	Symmetric								21-40			
123	armillaris	myrtle	11	e	Stems	226.7	2.72	260	1.88	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
		bracelet																						
		Honey-																						
		myrtle,																						
		needle-																				Medium	Medium	
	Melaleuca	leaved Hopey-			Multiple							Good (70	Symmetric								21-40			
	armillaris	Honey- myrtle	10	F	Stems	220.2	2.64	250	1.85	Nil	Mature	79)	Symmetric		No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
- <u>-</u> +	annaano	bracelet	10			220.2	2.04	230	1.00			, , ,								-070	yours	+		
		Honey-																						
		myrtle,																						
		needle-																				Medium	Medium	
		leaved																						
	Melaleuca	Honey-										Good (70-	Symmetric								21-40			
125	armillaris	myrtle	8	4	L 1	160	2	240	1.82	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	Jacaranda												Symmetric								21-40	Medium	Medium	
	mimosifolia	Jacaranda	16	9) 1	410	4.92	500	2.47	Nil	Mature	69)			No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years		riculum	
	Corymbia	Spotted				070		450	0.07	NU	Moture		Symmetric		No Evidence	No Evidence	No Evidence	Normal	< E 0/		21-40	Medium	Medium	
128	maculata	Gum	22	3	5 1	370	4.44	450	2.37	INIL	Mature	79)	al	Good	NO EVIDENCE	No Evidence	NO EVIDENCE	Normal	<5%	<5%	years			

					Trunk			Diameter																
					(single,			at Root														Env. &		
					twin,		TPZ	Flare				Overall	Crown								Life	Landcape		
Tree		Common			multiple		Radius	(DRF)	SRZ radius			Health &	Distributio		Pruning		Pest	Canopy	Deadwoo	Epicormic	expectanc	significanc	Retention	
no.	Species	Name	Height	Spread(m)	@)	DBH (mm)) (m)	(mm)	(m)	Trunk lean	Tree Age	Vigour	n	Structure	History	Defects	Infestation	Density	d	Growth	у	е	Value	Notes
	Corymbia	Spotted										Good (70-	Symmetric								21-40			
129	maculata	Gum	21	8	1	290	3.48	3 330	2.08	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
		White										Good (70-	Symmetric								21-40		NA II	
130	Melia azedarach	Cedar	10	7	1	110) 2	2 200	1.68	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
		White			Multiple							Good (70-	Symmetric								21-40	Madium	Madiuma	
131	Melia azedarach	Cedar	10	9	Stems	269.1	1 3.23	3 350	2.13	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
	Corymbia	Spotted										Good (70-	Symmetric								21-40	Medium	Medium	
132	maculata	Gum	22	14	1	. 140) 2	2 200	1.68	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Meuluin	Meuluin	
	Corymbia	Spotted										Good (70-	Symmetric								21-40	Medium	Medium	
133	maculata	Gum	22	12	1	. 670	8.04	4 750	2.93	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
		Lemon-																						
	Corymbia	scented											Symmetric	1							21-40	Medium	Medium	
134	citriodora	Gum	20	11		. 380) 4.56	6 450	2.37	Nil	Mature	79)		Good	No Evidence	No Evidence	No Evidence	Normal	<5%		years			
		White			Multiple							`	Symmetric								21-40	Medium	Medium	
135	Melia azedarach	Cedar	6	6	Stems	191	1 2.29	9 230	1.79	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
	a	Lemon-																						
	Corymbia	scented				0.50		450					Symmetric						.50(21-40	Medium	Medium	
136	citriodora	Gum	19	9	1	. 350) 4.2	2 450	2.37	NIL	Mature	79)		Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years			
150	Calodendrum	Cape	10	14	Multiple	410.0	5.00	450	0.07	NI:I	Matura		Symmetric	Good	No Evidence	No Fuidance	No Fuidonco	Normal	< F 0/		21-40	Medium	Medium	
159	capense	Chestnut	10	14	Stems	418.8	3 5.03	3 450	2.37	NIL	Mature	79)	ลเ	Good	NO Evidence	No Evidence	NO EVIDENCE	Normal	<5%	<5%	years			Crack/structural defect
		Murra														Crack,								visible at approximately 10m.
	Eucalyptus	Mugga, Red										Good (70	Symmetric								21-40	High	High	Recommend TRAQ level 3
	sideroxylon	Ironbark	23	14	1	. 660	7.92	2 750	2.93	Nil	Mature		-	Good	No Evidence	Decay Evidence	No Evidence	Normal	<5%					
100	SIGCIONYION	Lemon-	23	14	1		, 7.52	- /30	2.33		Mature	79)		0000		LVIGENCE		Normat	1070	-070	years			risk assessment
	Corymbia	scented										Good (70-	Symmetric								21-40	Medium	Medium	
	citriodora	Gum	20	14	1	670	8.04	750	2.93	Nil	Mature	79)		1	No Evidence	No Evidence	No Evidence	Normal	<5%		years	1 iouluiii	rioulum	
		Lemon-										- /									,			
	Corymbia	scented										Good (70-	Symmetric								21-40	Medium	Medium	
	citriodora	Gum	21	16	1	620	7.44	1 700	2.85	Nil	Mature	79)			No Evidence	No Evidence	No Evidence	Normal	<5%		years			
	Cinnamomum	Camphor									Semi		Symmetric											
163	camphora	Laurel	9	5	1	140) 2	2 190	1.65	Nil	Mature	79)		Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	40+ years	Low	Low	
	Washingtonia											Good (70-	Symmetric								21-40	Madium	Madium	
164	robusta		14	5	1) 2	20		Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	
												Good (70-	Symmetric								21-40	Modium	Modium	
165	Plumeria rubra	Frangipani	7	6		233.5	5 2.8	3 280	1.94	Nil	Mature	79)	al	Good	No Evidence	No Evidence	No Evidence	Normal	<5%	<5%	years	Medium	Medium	

Appendix D - Tree Location Plan





Birds Tree Consultancy

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Project: Liverpool Boys & Girls High School Client: SINSW DWG: A01 Rev D Plan: Tree Location Plan Date: 10 Mar 2025 Scale : 1:1000 @ A3

Mitigation Measures

Project Stage Design (D) Construction (C) Operation (O)	Mitigation Measures	Relevant Section of Report
D and C	 The Main Works Contractor, is refer to the below mitigation measures if trees identified in this report are to be retained: In order for Trees 22, 23, 24, and 25 to be viable to be retained, the following design modifications would be required. 1. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ. 2. Excavation for proposed ramp and paving to not encroach the TPZ by more than 10%. 3. Paving (including subgrades) to be permeable within TPZ. 	• Executive Summary (Page 3)
D and C	 The Main Works Contractor, is refer to the below mitigation measures if trees identified in this report are to be retained: In order for Trees 51, 53, 54 and 56 to be viable to be retained, the following design modifications would be required. 1. Stormwater to diverted outside of the TPZ or the encroachment including all excavation reduced to less than 10% of the TPZ. 2. Excavation for proposed paving and slab downturn to not encroach the TPZ by more than 10%. 3. All subsoil drainage to be installed using non-destructive excavation methods including Air Spade, manual excavation or vacuum truck operating at less than 1000Psi under the direction and supervision of the Project Arborist with no damage to structural roots (greater than 20mm diameter). 	• Executive Summary (Page 3)
С	The Main Works Contractor is to ensure that all excavation within the TPZ of the retained subject trees is required to be conducted by non- destructive methods such as Air Spade or vacuum truck operating at less than 1000Psi under the direct supervision of the Project Arborist. No structural roots greater than 20mm are to be damaged.	• Executive Summary (Page 3)