

ARBORICULTURAL IMPACT ASSESSMENT (AIA) REPORT

Prepared For: Mr L Boghossian

Site Address: 11 Ferguson Street Forestville

Inspection Dates: 19th February, 2020



Figure 1: The site (Google Street view)

Prepared by: Margot Blues

Diploma (Arboriculture) AQF 5

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1 Executive Summary

- 1.1.1 Margot Blues Consulting Arborist has been engaged by Architect Shady Chahine on behalf of the owner Mr Leo Boghossian inspect and report on trees within the property for Development Application purposes. Proposed is a new two storey dwelling inground pool and secondary dwelling. The existing dwelling is to be removed.
- 1.1.2 A total of nine (9) protected trees inclusive of one street tree have been assessed to determine their suitability for retention based on species, health and structural status and construction impact.
- 1.1.3 This report has been prepared in accordance with the Australian Standard AS4970-2009 *Protection of Trees on Development Sites.*
- 1.1.4 No trees were within neighbouring properties.
- 1.1.5 Trees to be retained:

High Retention	Moderate Retention	Low Retention	Exempt Species
ST1			

Table 1: Trees retainable in line with the proposal.

1.1.6 Trees to be Removed:

High Retention	Moderate	Low Retention	Exempt
	Retention		Species
	T1, T8	T2, T3, T4 & T6	T5 & T7

Table 2: Tree which require removal based on Exemption, low significance, removed irrespective of the development and those which are significantly impacted by the proposal.

1.1.7 Protective fencing installation around the Street Tree ST1 Brush Box during construction inclusive of demolition is recommended.



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Mob: 0414 991122



2 Introduction

2.1 Background

- 2.1.1 Margot Blues Consulting Arborist has been engaged by Architect Mr Shady Chahine (Planning/Design/Architecture) on behalf of the owner for development application purposes. Proposed is a new build consisting of a two storey dwelling, secondary dwelling and inground pool. The current structures are to be demolished.
- 2.1.2 Information supplied and relied upon for the preparation of this report include:
 - Architectural suite of plans by Planning/Design/Architecture Issue A dated 23/08.17.
 - Survey dated 6/11/19 produced by Peak Surveying Services.
 - NSW Planning Portal property report; Downloaded 24th February, 2020.
- 2.1.3 The use of these documents is acknowledged with thanks.
- 2.1.4 The report's aim was to:
 - Conduct a visual assessment of trees protected in accordance with Northern Beaches Council directives.
 - Determine the construction impact to trees as per the Australian Standard AS4970:2009 *Protection of trees on development sites.*
 - Categorise the trees into retention priority (High/Medium/Low Retention value).
- 2.1.5 Construction works were currently being undertaken within neighbouring property No 15 Ferguson resulting in significant damage, excavation and trenching with the TPZ and SRZ to trees located within No 11 Ferguson Street.



3 Methodology

- 3.1.1 Trees were inspected using the Visual Tree Assessment (VTA) methodology derived by Mattheck and Breloer (1994) consisting of both the biological and mechanical characteristics being:-
 - Biological assessment included leaves (volume and colour); the presence of pests and diseases, canopy dieback, deadwood and epicormic growth.
 - Tree mechanics included assessment of structural stability, previous pruning and any damage/disturbance which may have occurred.
- 3.1.2 No destructive, aerial or root investigations occurred.
- 3.1.3 Tree Protection Zones (TPZ) and Structural Root Zones (SRZ) have been calculated as per AS4970-2009 *Protection of trees on development sites*. Measurements were achieved using a builder's tape measure, diameter tape, and *Leica*® *Distometer*™ (Laser)..
- 3.1.4 Appendix 2 Tree identification and incursion potentials displays tree numbering for identification purposes (read in conjunction with Appendix 1 Tree Data Summary); The TPZ is represented by the green outer circle; The SRZ by the inner blue circle. Both TPZ and SRZ have been plotted on the supplied plans. Trees proposed for removal are highlighted by a red dashed circle.
- 3.1.5 Tree retention values have been assessed based on the IACA Significance of a Tree, Assessment Rating System (STARS) methodology Referenced Appendix 4 IACA STARS (Retention value matrix).
- 3.1.6 This report is considered limited to what could reasonably be seen from ground level and expresses nil no commentary on changes which may have, or will, impact the trees or their environment outside the scope of works.
- 3.1.7 Where indicated, photos have been supplied by other.



4 Results

4.1 Desktop research

- 4.1.1 Research from the NSW Planning portal revealed the following information for the property:
 - Zoning: R2 Low Density Residential
 - Heritage: Not applicable.
- 4.1.2 In accordance with published directives Northern Beaches Council A Protected Tree is:
 - Having a height of 5 metres, and
 - Not listed on Council's *Exempt tree species list* or within *The Biosecurity Act 2015.*

4.2 The Site

- 4.2.1 The land parcel was relatively flat (slope <5¹) and contained a single storey dwelling and a detached building in the rear garden. The property generally typified domestic blocks for that area.
- 4.2.2 Neighbouring property No 15 Ferguson Street was undertaking major earthworks within the rear garden and adjacent to trees. Photographs supplied indicate extensive damage had occurred to these tree and were considered structurally compromised.

4.3 The Development: New Dwelling

4.3.1 Proposed is a two storey residential dwelling; inground pool and secondary dwelling within the rear garden. Site disturbances during construction will be significant and affect the majority of the block. The current buildings are to be demolished.

4.4 The Trees

4.4.1 Inclusive of one street tree, 9 trees have been assessed for the purpose of this report. Generally, the majority of trees were Australian Natives and mature. Trees positioned close to the common boundary fence with No 15 were considered structurally compromised within that property due to recent excavation (land level lowering) and trenching within the TPZ/SRZ of these trees. These trees were T3, T4, T5 (dead), and T6.

¹ Referenced from the NSW Planning Portal – Property Report.



5 Results

5.1 Construction Impact to each tree

In the assessment of tree impact both to root zones and canopies the following criteria has been evaluated:

- Existing Relative Levels (RL)
- Tree Protection Zones (TPZ)
- Structural Root Zones (SRZ)
- Canopy spread and height above ground
- Building offset distances to trees and associated ground works
- Tree species, retention value and the likely development impact on those trees

The following table is to be read in conjunction with Appendix 1, 2, 3 & 4.

Tree ID	Species	Comment	Recommendation
	Lophostemon	Street Tree: Mature good health and vigour.	Retention Value: High
ST1	confertus Brush Box	Construction impact: Driveway widening coming closer to the trunk. Incursion 8% considered 'Minor' as per AS4970-2009.	Retain Protective fencing installed
		Mature tree in good health and vigour	Retention Value: Medium
T1	Callistemon viminalis Weeping bottle brush	Construction Impact: "High" Proposed driveway widening cuts through trunk and considered "Major" as per AS4970-2009 Tree is not retainable under supplied plan.	Remove
TI O	D	Mature tree in fair health and considered a "low" valued tree. Construction Impact: "High" Construction of main dwelling occurs	Retention Value: Low Remove
T2	Dracena sp	within TPZ/SRZ. Tree is not retainable under supplied plan and should not place a constraint upon the development.	



T4 Mature tree with compromised stability due to earthworks with neighbouring property No 15 Ferguson Street. Construction Impact: "High" 30% of TPZ inclusive of SRZ involvement. Tree is located towards the rear of the main building. Excavation requirements approximate a minimum of 50cm to achieve the FFL. Incursion into the TPZ 30%. This tree has already lost a significant root volume 50% due current construction works @ No 15. Excavation works have extended to the fenceline. Retention not possible. Irrespective of the design this tree should be removed. Mature tree in fair health and condition. Construction impact: "High" 40% of TPZ Inclusive of SRZ. This tree has already lost a significant root volume within No 15 Ferguson St due to current construction works extending to the fenceline. The tree has a long main surface root running across the rear yard of No 11 which requires removal. Retention not possible. Irrespective of the design this tree should be fore works begin.		11 FERGUSC	ON STREET FORESTVILLE ASSESS	SED 19 [™] FEBRUARY, 2020
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be removed.			Irrespective of the design this tree should	
Remove				
T5 Dead Remove				
15 Deua	TE	Dogd		Remove
	15	Dead		

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		Matura trace in fair health and viceur	Detention value
		Mature tree in fair health and vigour	Retention value
		Construction impact. "III-L" 400/ CERT	Low
		Construction impact: "High" 40% of TPZ	D
		inclusive of SRZ. This tree has already lost	Remove
	24.1	significant root volume due current	ml · · ·
	Melaleuca	construction works on neighbouring	This tree is
Т6	quinquenervia	property.	structurally
	Broad leaf		compromised
	paperbark	Under the proposal this tree is not	before works begin.
		retainable.	
		Irrespective of the design this tree should	
		be removed.	
		Environmental weed. Tree structurally	Retention value
		very poor.	Low
		very poor.	LOW
		Construction impact:. High	Remove
	Cinnamomum	construction impacts riigh	Remove
	camphor	Under the proposal this tree is not	
Т7	Camphor	retainable.	
	laurel		
		Irrespective of the design this tree should	
		be removed.	
		Mature tree in fair to good health.	Retention value
			Moderate
		Construction impact: "High" 50% of TPZ	
		inclusive of SRZ.	Remove
Т8	Melaleuca	Approximately 50% of TPZ falls beneath	
	bracteata	the proposed secondary dwelling.	
		Excavation is required for FFL	
		Tura is mak makaimalala	
		Tree is not retainable.	

Table 3: Construction impact to trees.



6 Conclusion

- 6.1.1 A total of nine (9) trees were assessed as part of the scope of works. These trees were predominantly in good health at the time of assessment as evidenced by the leaf volumes.
- 6.1.2 Trees along the common boundary with No 15 Ferguson Street have been severely compromised structurally due to the bulk excavation and trenching within both the SRZ and TPZ of these three trees (T3, T4, & T6. Tree T5 is dead and has been for some time). Irrespective of the proposed development within No 11 Ferguson Street, these trees require removal due to instability.
- 6.1.3 The proposed development occupies a larger footprint/envelope that the current resulting in limited retention of site trees. With the exception of the street tree, no tree is retainable onsite.

7 Recommendation:

Based on the supplied plans and tree health, it is recommended: -

7.1.1 The following tree is to be retained:

High Retention	Moderate Retention	Low Retention	Exempt Species		
ST1			P		

Table 4: Trees that are retainable. All trees are located within neighbouring properties.

7.1.2 The following trees are not retainable based on the proposal.

ne reme wing trees	are metretamasi	e basea on the pro	pooun
High Retention	Moderate	Low Retention	Exempt
	Retention		Species
	T1, T8	T2, T3, T4 & T6	T5 & T7

Table 5: Tree which require removal based on Exemption, low significance, removed irrespective of the development and those which are significantly impacted by the proposal.

7.1.3 Protective fencing installation around the Street Tree ST1 Brush Box during construction inclusive of demolition is recommended.

					Α	ppendi	x 1: T	ree Da	ata Sumi	mary - 1	1 Fergu	son St	Forestvill	e- Assessed 1/2/2020		
Tree ID	Species	Height (m)	Canopy dims n/s in metres	DBH (cm)	(cm)	Foliage condition	Maturity	Trunk type	Canopy Balanced	Past Pruning	Stability	Vigour	Significance value	Notes (I		SRZ (M) Radius
	Lophostemon confertus Brush Box	0	16	60	60	Good	Mature	_	Somewhat balanced	Upper canopy for power lines	Appears	Good		Street tree that appears to be in good health. It has been heavily pruned for power line clearances. A power pole is positioned very close to the trunk. This tree has a wide canopy	7.2	2.7
	Callistemon viminalis Weeping Bottlebrush	7	8	24		Good		Single to 45cm bias lean to	Majority to west due to ST1		Appears stable	Good		This is a small tree located at the front boundary. No further commentary required.	2.9	2.7
	Dracena sp	7	3	22		Good		Multi	Balanced		Appears stable	Good		Typical form for species.	2.6	2.1
	Syzygium paniculatum Magenta Lilli Pilli	14	7S 3N	50	60	Good	Mature	Single	Balanced		Stability suspect	Good		Tree located very close to northern boundary side fence. Currently development works occurring in yard with trenching and a large reduction in soil level height up to the fence. The stability of the tree has severely been compromised.	6.0	2.7
	Jacaranda mimosifolia Jacaranda	8	12	35	55	Fair	Mature		Asymmetric al		Stability suspect	Fair	Low	Tree located very close to northern boundary side fence. Currently development works occurring in yard with trenching and a large reduction in soil level height up to the fence. The stability of the tree has severely been compromised. There is a large surface root spanning half the rear yard which will require removal.	4.2	2.6
T5	Dead												Exempt			
T6	Melaleuca quinquenervia Broad leaf Paperbark Cinnamomum camphora	20	12	75	90	Good	Mature Single to 5m then x 4	single	Narrow symmetrical		Stability suspect	Fair	Low	Tree located very close to northern boundary side fence. Currently development works occurring in yard with trenching and a large reduction in soil level height up to the fence. The stability of the tree has severely been compromised.	9.0	3.2
T7 T8	C amphora laurel Melaleuca bracteata Black Tea Tree	5	7	50	55	Poor	Mature		Slight bias to S/E	Rear neighbour	Appears stable	Good		Exempt listed Tree located along the rear boundary and appeared to be in good health and condition. No further commentary required.	0.0	0.0
		10	11	30	33	Joou	iviature	iviuiti	10 3/E	neignbout	stable	Good	iviouerate	condition. No further commentary required.	6.0	2.6
Tx^ Denotes tree located outside property Breast height 1.4m measured above boundary. DBH - Diameter at Breast height 1.4m measured above root flare.			Exempt listed.					Significance Value High Moderate Low								



Appendix 3 - Photographs



Photo 11: T1 Bottle brush



Photo 2: T2 Dracena sp at front of house.



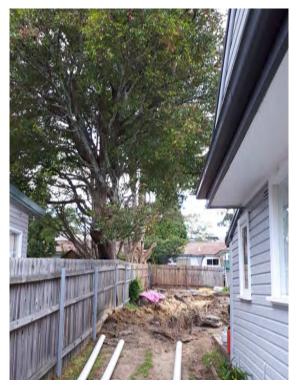


Photo 5: Trenching within No 15 and relative distance off base of trees within No 11 Ferguson. T3 in forgary and



Photo 6: Trenching offset distance and extent.



Photo 4:T6 showing extensive damage to base of trunk and first order roots. Photo supplied by



Photo 3: T8 Melaleuca



Appendix 4 - IACA STARS (Retention value matrix)

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.

Figure 2: Root mapped area being in alignment with existing rear facade. Yellow line indicates roots and rear of house.

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



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- 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.

USE OF THIS DOCUMENT AND REFERENCING

The IACA Significance of a Tree, Assessment Rating System (STARS) is free to use, but only in its entirety and must be cited as follows:

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

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

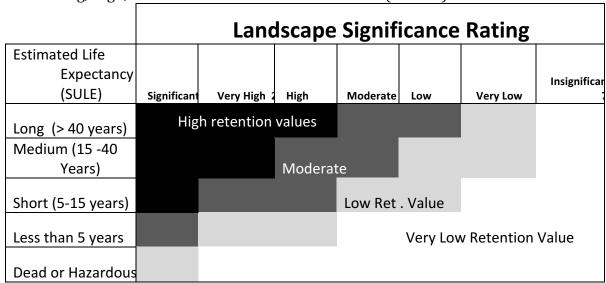
Draper BD and Richards PA 2009, Dictionary for Managing Trees in Urban Environments, Institute of Australian Consulting Arboriculturists (IACA), CSIRO Publishing, Collingwood, Victoria, Australia.

Footprint Green Pty Ltd 2001, Footprint Green Tree Significance & Retention Value Matrix, Avalon, NSW

Australia, www.footprintgreen.com.au

Tree Priority Retention Matrix

The retention model following visually describes the process used in determining retention values of the seven trees. Three retention classifications are clearly defined, they being, High; moderate and Low retention values. (Table 1).



Source: (Moreton, A., 2006).