

Arboricultural Impact Assessment

REPORT COMMISSIONED BY:

David Natale Design Objects

SUBJECT SITE:

15 King Street, Dandenong VIC 3175

REPORT PREPARED BY:

Ira Francis
Consulting Arborist
Graduate Certificate Arboriculture

DATE OF ASSESSMENT:

Monday, November 16, 2020

DATE OF REPORT:

Friday, March 26, 2021

VERSION 2

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TMC REPORTS

ARBORICULTURAL CONSULTING SERVICES

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1 Assignment

1.1 Author / Consulting Arborist

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Consulting Arborist Email

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Company TMC Reports

1.2 Client

Name Intended Audience

David Natale Design Objects

o The property/tree owner(s)

Site Address

o The development project

framework manager and associated

construction staff

Council Planning Department

1.3 Brief

The purpose of this report is to provide an independent arboricultural assessment of prominent trees that are located within the subject site and within five metres of the site boundary lines.

Detail has been requested in relation to the following instructions:

- To provide an objective assessment of the overall condition of the subject trees.
- To provide an objective assessment of the retention value of the subject trees.
- To determine the Tree Protection Zones (TPZ) and Structural Root Zones (SRZ) of the subject trees.
- To determine whether the subject trees are expected to remain viable following the proposed development.
- To propose recommendations that are expected to ensure that the subject trees would remain viable post construction.



2 Data collection

2.1 Site visit

 Ira Francis, of TMC Reports, visited the site for an arboricultural assessment on Monday the 16th of November 2020 at 7:30am.

2.2 Method of data collection

- The subject trees were assessed from observations made as viewed from ground level.
- Access to neighbouring properties was not permitted. Assessment was therefore limited only to parts of the trees that were visible from within the subject site.
- A digital camera was used at ground level to obtain photographs within this report.
- The height of the trees was measured by using a Nikon Forestry Pro 2 Laser Range Finder.
- A circumference tape measure was used to determine the trunk dimensions of Trees 1 – 6, 9, 12 – 20, 25 & 26.
- Trunk dimensions of neighbouring trees (Trees 7, 8, 10, 11, 21 24) were estimated due to restricted access.
- Encroachment percentages have been calculated via ArborCAD.

2.2.1 Documents viewed

- Proposed plans (23/12/2020)
- Greater Dandenong Council Planning Scheme
- Australian Standard AS4970 2009 'Protection of Trees on Development Sites'
- Australian Standard AS4373 2007 'Pruning of Amenity Trees'



3 Site description

- The subject site is located in a Residential Growth Zone Schedule 1 (RGZ1) within the Greater Dandenong Council.
- o An existing residential dwelling is located within the subject site.
- The terrain of the site appeared to be predominantly flat.
- The subject trees are all located within the subject site, the front nature strip and adjoining properties (17 King Street and 2 Edith Street).
- No additional prominent vegetation was observed within five metres of the site boundary lines.



4 Tree data

			_		Canopy		_	ē		>	uc	0	0	copyright
Tree No.	Botanical Name & Common Name	Age	Origin	Height	Spread N-S E-W	DBH CA1 DAB	Health	Structure	ALE	Amenity Value	Retention Value	TPZ Radius	SRZ Radiu	Comments
	Lophostemon		Native		N-S	0.28 m								
1	confertus	Mature	QLD NSW	6.0 m	5 m	0.88 m	Good	Fair	20+ years	Moderate	Council Owned Tree	3.4 m	2.2 m	Council owned tree located within the front nature strip.
	Queensland Brush box		NOVV		E-W 7 m	0.38 m								
	Bambuseae sp.				N-S	N/A								Too many stems to practically measure or estimate. TPZ
2	Батыйзейе эр.	Mature	Exotic	3.0 m	1 m	N/A	Fair	Fair	20+ years	Low	Low	2.0 m	N/A	adjusted in accordance with section 3.2 of AS4970-2009. SRZ
	Bamboo				E-W 1 m	N/A								not required in accordance with section 3.3.5 of AS4970-2009.
	Syzygium smithii				N-S	0.40 m								Multi-stemmed at ground level. DBH & CA1 measured at ground
3	Syzygiam simam	Mature	Exotic	7.7 m	5 m	1.26 m	Good	Fair	10-20 years	Low	Low	4.8 m	2.3 m	level. Tree may therefore tolerate a slightly greater than 10%
	Lilly Pilly				E-W 5 m	0.40 m								encroachment into the TPZ.
	Platycladus				N-S	0.20 m								Multi-stemmed at ground level. DBH & CA1 measured at ground
4	orientalis	Mature	Exotic	3.1 m	2 m	0.63 m	Good	Good	20+ years	Low	Low	2.4 m	1.7 m	level. Tree may therefore tolerate a slightly greater than 10%
	Oriental Arborvitae				E-W 2 m	0.20 m								encroachment into the TPZ.
	Mixed sp.				N-S	0.08 m								Mixed vegetation comprised of the following species:
5		Semi Mature	Exotic	4.2 m	2 m	0.25 m	Good	Fair	10-20 years	Low	Low	2.0 m	1.5 m	- x2 Cotoneaster sp. - x3 Ligustrum lucidum.
	Mixed vegetation				E-W 2 m	0.08 m								Tree dimensions have been averaged.
	Ficus carica cv.				N-S	0.20 m								Multi-stemmed at ground level. DBH & CA1 measured at ground
6	. 1000 001100 041	Mature	Exotic	3.5 m	4 m	0.63 m	Good	Fair	20+ years	Low	Low	2.4 m	1.7 m	level. Tree may therefore tolerate a slightly greater than 10%
	Fig				E-W 3 m	0.20 m								encroachment into the TPZ.



Tree No.	Botanical Name & Common Name	Age	Origin	Height	Canopy Spread N-S E-W	DBH CA1 DAB	Health	Structure	ULE	Amenity Value	Retention Value	TPZ Radius	SRZ	Planning and Environment Act 198 The document must not be used for a purpose Obhiments breach any copyright
	Grevillea robusta		Native		N-S	0.28 m								Neighbouring tree located within
7	Crovillou rosadia	Mature	QLD NSW	11.0 m	8 m	0.94 m	Good	Good	10-20 years	Moderate	Neighbouring Tree	3.4 m	2.1 m	the eastern adjoining property (17 King Street). Existing
	Silky oak				E-W 8 m	0.35 m								concrete driveway within TPZ.
					N.O.	N/A								Neighbouring trees located within the eastern adjoining property (17 King Street). Existing
8	Mixed sp.	Young	Exotic	3.2 m	N-S 1.5 m	N/A	Good	Fair	10-20 years	Low	Neighbouring Tree	2.0 m	1.5 m	concrete driveway within TPZ. Mixed vegetation comprised of the following species: - x1 Syzygium smithii
	Mixed vegetation				E-W 1.5 m	N/A								- x2 Ligustrum lucidum Tree dimensions have been averaged.
9	Camellia sp.	Mature	Exotic	3.0 m	N-S 1.5 m	0.07 m 0.07 m (0.09 m) 0.22 m 0.22 m (0.44 m)	Good	Good	10-20 years	Low	Low	2.0 m	1.5 m	Multi-stemmed at ground level. DBH & CA1 measured at ground level.
	Camellia				E-W 1.5 m	0.09 m								
10	Ligustrum lucidum	Mature	Exotic	8.3 m	N-S 8 m	0.43 m 1.41 m	Good	Good	10-20	Low	Neighbouring Tree	5.2 m	2.5 m	Neighbouring tree located within the eastern adjoining property (17 King Street). Existing concrete driveway and garage
	Broad-leaf privet				E-W 8 m	0.50 m			years		1166			within TPZ. Canopy extends into subject site by 3m at a height of 4m above ground level.
	Melaleuca bracteata		Native		N-S	0.20 m								Neighbouring tree located within
11	'Revolution Gold'	Mature	WA NT QLD	7.0 m	4 m	0.63 m	Fair	Fair	10-20 years	Low	Neighbouring Tree	2.4 m	1.7 m	the eastern adjoining property (17 King Street). Existing garage within TPZ. Overshadowed by
	Melaleuca Revolution Gold		NSW		E-W 4 m	0.20 m								tree 10, uneven canopy.



Tree No.	Botanical Name & Common Name	Age	Origin	Height	Canopy Spread N-S E-W	DBH CA1 DAB	Health	Structure	ULE	Amenity Value	Retention Value	TPZ Radius	SRZ Radius	Planning and Environment Act 198 The document must not be used for purposconimentary breach any copyright
42	Ligustrum lucidum	Moturo	Evetie	5.5 m	N-S 3 m	0.10 m 0.31 m	Foir	Fair	5-10	Low	Low	20 m	1.5 m	Multi-stemmed at ground level.
12	Broad-leaf privet	Mature	Exotic	3.5 111	E-W 2 m	0.31 m	Fair	Fall	years	Low	Low	2.0 m	1.5 m	DBH & CA1 measured at ground level.
13	Prunus sp.	Mature	Exotic	5.2 m	N-S 3 m	0.15 m 0.47 m	Fair	Fair	5-10	Low	Low	2.0 m	1.5 m	Multi-stemmed at ground level. DBH & CA1 measured at ground
13	Cherry plum	. Wature	LXOUC	3.2 111	E-W 2 m	0.15 m	I all	ı alı	years	LOW	Low	2.0111	1.5111	level.
	Prunus sp.				N-S	0.40 m								Multi-stemmed at ground level. DBH & CA1 measured at ground level. Tree may therefore tolerate a slightly greater than 10%
14	Tranas Sp.	Mature	Exotic	4.9 m	4 m	1.26 m	Very poor	Fair	0-5 years	Low	Low	4.8 m	2.3 m	anaroachment into the TD7
	Cherry plum				E-W 4 m	0.40 m								surrounded tree, existing concrete paving beyond retaining wall.
15	Ligustrum lucidum	Mature	Exotic	4.9 m	N-S 5 m	N/A N/A	Fair	Fair	10-20	Low	Low	3.0 m	2.0 m	Concrete retaining wall 0.5m high surrounded tree, existing concrete paving beyond retaining wall. Too many stems to
	Broad-leaf privet				E-W 5 m	N/A			years					practically measure or estimate. TPZ & SRZ have therefore been estimated.
	Ligustrum Iucidum	Semi			N-S 6 m	N/A			10-20					Thicket of trees which appeared self-sown. Too many stems to
16	Broad-leaf privet	Mature	Exotic	4.5 m	E-W	N/A N/A	Good	Fair	years	Low	Low	3.0 m	2.0 m	practically measure or estimate. TPZ & SRZ have therefore been estimated.
	Ligustrum	_			N-S	N/A								Thicket of trees which appeared self-sown. Too many stems to
17	lucidum	Semi Mature	Exotic	3.9 m	3 m E-W	N/A	Good	Fair	10-20 years	Low	Low	2.5 m	1.8 m	practically measure or estimate. TPZ & SRZ have therefore been
	Broad-leaf privet				3 m	N/A								estimated.



Tree No.	Botanical Name & Common Name	Age	Origin	Height	Canopy Spread N-S E-W	DBH CA1 DAB	Health	Structure	ULE	Amenity Value	Retention Value	TPZ Radius	SRZ Radius	Comments
18	Bambuseae sp.	Mature	Exotic	4.8 m	N-S 1.5 m	N/A N/A	Good	Good	10-20	Low	Low	2.0 m	N/A	Too many stems to practically measure or estimate. TPZ adjusted in accordance with section 3.2 of AS4970-2009. SRZ
	Bamboo				E-W 1.5 m	N/A			years					not required in accordance with section 3.3.5 of AS4970-2009.
	Pyrus communis subsp.				N-S 6 m	0.45 m			40.00					Multi-stemmed at ground level. DBH & CA1 measured at ground
19	communis European pear	Semi Mature	Exotic	6.5 m	E-W	1.41 m 0.45 m	Fair	Fair	10-20 years	Low	Low	5.4 m	2.4 m	level. Tree may therefore tolerate a slightly greater than 10% encroachment into the TPZ. Moderate vine on trunk.
					6 m	N/A								Thicket of trees which appeared
20	Ligustrum lucidum	Semi Mature	Exotic	7.0 m	N-S 6 m	N/A	Fair	Fair	10-20 years	Low	Low	2.5 m	1.8 m	self-sown. Too many stems to practically measure or estimate. TPZ & SRZ have therefore been
	Broad-leaf privet	Mataro			E-W 6 m	N/A								estimated.
	Syzygium smithii				N-S 6 m	0.40 m			40.00		Naishbausian			Neighbouring tree located within
21	1.11 D.11	Mature	Exotic	7.1 m	E-W	1.26 m	Good	Fair	10-20 years	Low	Neighbouring Tree	4.8 m	2.3 m	the eastern adjoining property (17 King Street).
	Lilly Pilly				6 m	0.40 m								Neighbouring tree located within
	Ligustrum lucidum 'Tricolor'				N-S 7 m	0.45 m								the eastern adjoining property (17 King Street). Multi-stemmed at ground level. DBH & CA1
22	idoldam Thoulot	Mature	Exotic	6.0 m	, , , , ,	1.41 m	Good	Fair	10-20 years	Low	Neighbouring Tree	5.4 m	2.4 m	measured at ground level. Tree may therefore tolerate a slightly greater than 10% encroachment
	Variegated broad-leaf privet				E-W 7 m	0.45 m				for the so its consid	ument to be m le purpose of el eration and re	nabling view as		into the TPZ. Canopy extends into subject site by 3m at a height of 4m above ground level.

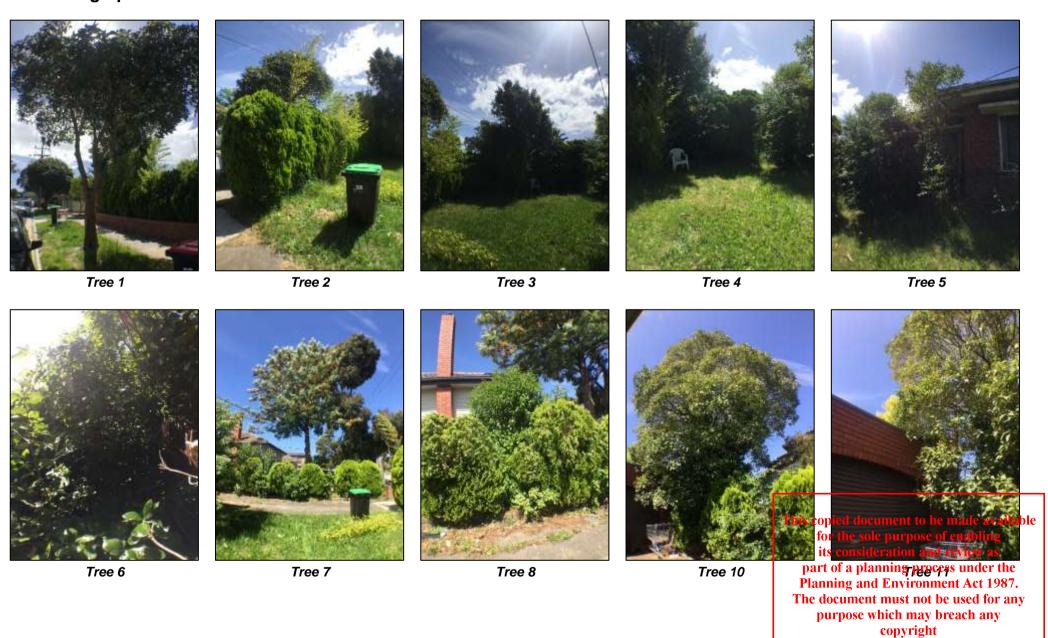


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Tree No.	Botanical Name & Common Name	Age	Origin	Height	Canopy Spread N-S E-W	DBH CA1 DAB	Health	Structure	ULE	Amenity Value	Retention Value	TPZ Radius	SRZ Radius	Comments
23	Ligustrum lucidum	Mature	Exotic	4.8 m	N-S 4 m	0.20 m 0.57 m	Good	Fair	10-20 years	Low	Neighbouring Tree	2.4 m	1.7 m	Neighbouring tree located within the eastern adjoining property (17 King Street). Multi-stemmed at ground level. DBH & CA1 measured at ground level. Tree may therefore tolerate a slightly
	Broad-leaf privet				E-W 4 m	0.20 m								greater than 10% encroachment into the TPZ. Canopy extends into subject site by 2m at a height of 4m above ground level.
	Syzygium smithii				N-S	0.40 m								Naishbausian too laastad within
24	Syzygium smiiiiii	Mature	Exotic	8.6 m	6 m	1.10 m	Good	Fair	10-20 years	Low	Neighbouring Tree	4.8 m	2.3 m	Neighbouring tree located within the northern adjoining property (2 Edith Street).
	Lilly Pilly				E-W 6 m	0.40 m								Lanti Ottooty.
	Ligustrum				N-S	N/A								Thicket appearing self-sown. Too
25	lucidum	Semi Mature	Exotic	3.3 m	1 m	N/A	Good	Good	10-20 years	Low	Low	2.0 m	1.5 m	many stems to practically measure or estimate. TPZ & SRZ
	Broad-leaf privet				E-W 1 m	N/A								have therefore been estimated.
	Corymbia				N-S	0.65 m								Council owned tree located within
26	maculata	Mature	Native NSW VIC	14.8 m	12 m	2.10 m	Good	Good	20+ years	High	Council Owned Tree	7.8 m	3.0 m	the nature strip in front of the eastern adjoining property (17
	Spotted gum		-		E-W 12 m	0.80 m						_		King Street).



4.1 Photographic evidence











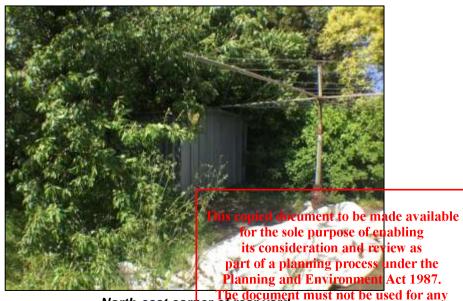
Subject site as viewed from King St



Front yard viewed from east



Existing driveway and eastern border



North-east corner of rear yard purpose which may breach any copyright





North-west corner of rear yard



Rear yard viewed from north



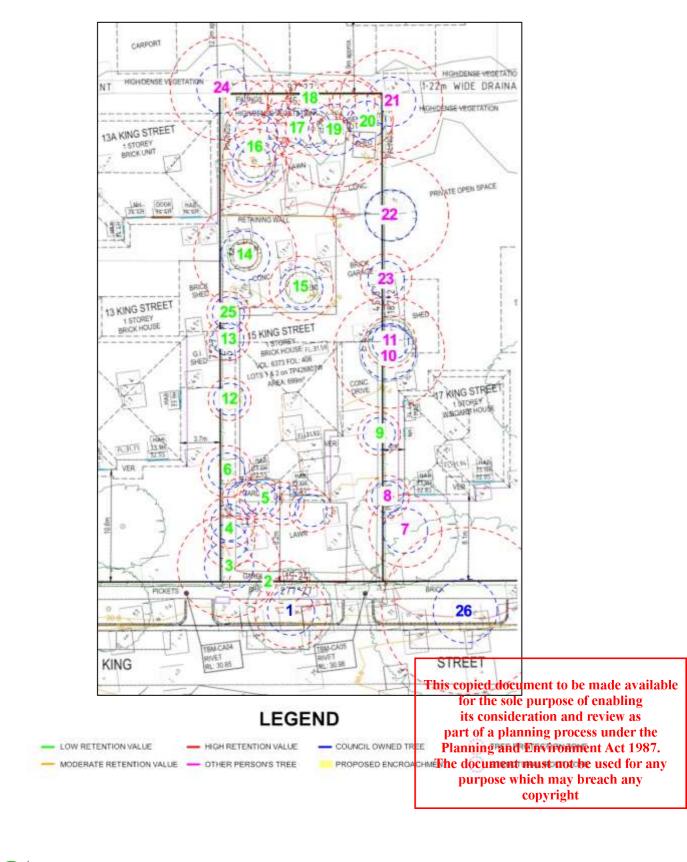
Rear yard viewed from south-west



5 Site maps

5.1 Existing conditions

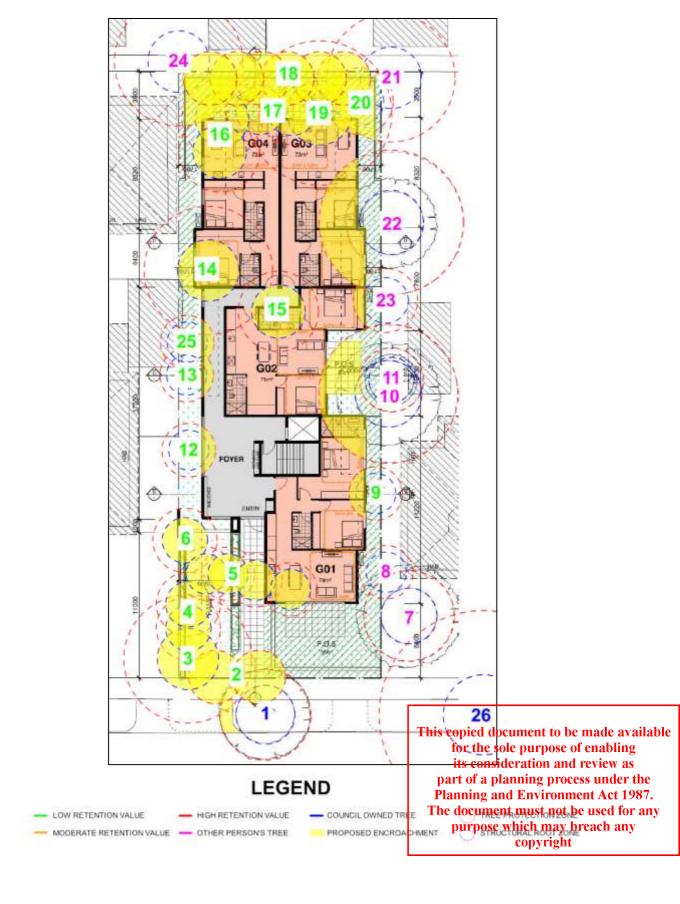
The following map indicates the tree locations in relation to the existing conditions:





5.2 Ground level plan

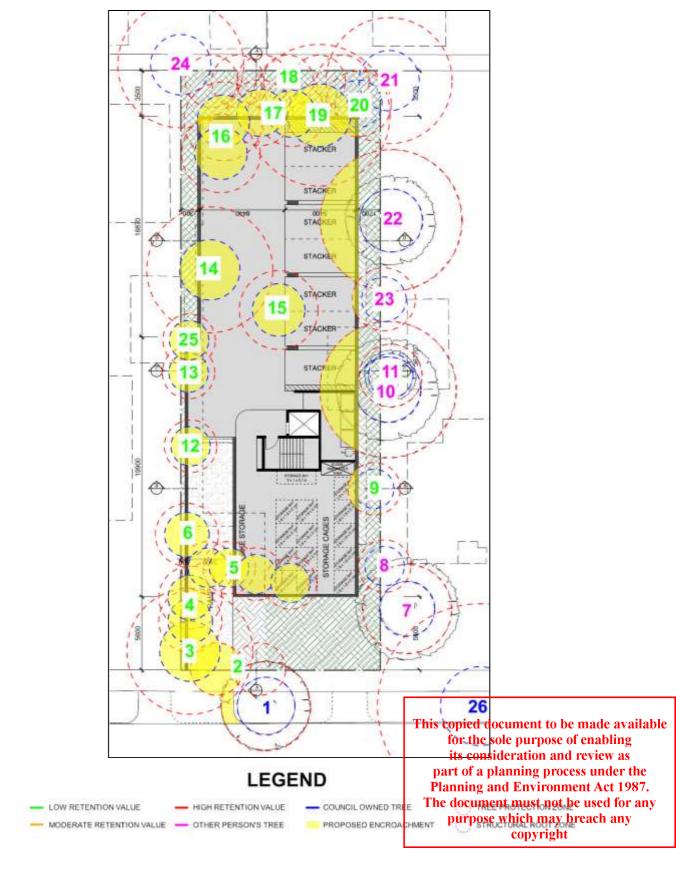
The following map indicates the tree locations in relation to the proposed ground level plans:





5.3 Basement level plan

The following map indicates the tree locations in relation to the proposed basement level plans:





6 Discussion

6.1 Tree protection zone

The tree protection zone (TPZ) is determined by multiplying the trunk diameter of the tree at breast height, 1.4m from ground level, by 12. A 10% encroachment on one side of this zone is acceptable without investigation into root distribution or offset of the lost area.

Section 3.2 of the Australian Standard AS4970 - 2009 Protection of Trees on Development Sites states that the TPZ of Palms, other monocots, cycads and tree ferns should not be less than 1 m outside the crown projection.

6.2 Structural root zone

The structural root zone (SRZ) is the setback required to avoid damage to stabilising structural roots. The loss of roots within the SRZ must be avoided. The SRZ is determined by applying the following formula: (D X 50) 0.42×0.64 where D = trunk diameter in metres.

6.3 Designing around trees

It may be possible to encroach into or make variations to the TPZ of the trees that must be retained. Encroachment includes excavation, compacted fill and machine trenching.

The following is referenced from section 3.3.3 of the Australian Standards AS4970 – 2009 Protection of Trees on Development Sites:

6.3.1 Minor encroachment

If the proposed encroachment is less than 10% of the area of the TPZ and is outside the SRZ, detailed root investigations should not be required. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ.

6.3.2 Major encroachment

If the proposed encroachment is greater than 10% of the TPZ or inside the SRZ the project arborist must demonstrate that the trees would remain viable. The area lost to this encroachment should be compensated for elsewhere and contiguous with the TPZ. This may require root investigation by non-destructive methods.

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6.3.3 Root investigation

Where it is proposed that development is considered to be a major encroachment, a non-destructive root exploratory investigation may be required within the alignment of the proposed encroachment.

By undertaking a non-destructive root exploratory investigation, the extent of roots within that particular area may be determined. If a negligible amount of roots are required to be removed or damaged in order to construct the proposed development, the tree may remain viable. If a significant amount of roots are proposed to be removed or damaged in order to construct the proposed development, the tree may not remain viable.

Obstructions (paving, vegetation, structures) within the alignment of proposed encroachments may be required to be removed prior to the non-destructive root exploratory investigation occurring.

The non-destructive root exploratory investigation report should:

- Be undertaken by a suitably qualified Arborist (AQF Level 5 Arboriculture).
- Detail the total distance of each excavation line.
- o Detail the closest distance from the trunk centre to the excavation line.
- The size (diameter) and number of roots discovered and the depth of roots (where relevant).
- Include photographs of the subject tree(s) trenches and roots.
- Include a discussion of the findings of the root investigation and the impact of the proposed works on the long-term health/ structural stability of the tree(s).



7 Conclusion

7.1 Tree retention value

7.1.1 Council owned trees

The following trees belong to Greater Dandenong City Council:

- o Tree 1
- o Tree 26

7.1.2 Low retention value

The following trees are considered to be of low retention value as they are relatively small specimens that are insignificant to the landscape:

0	Tree 2	0	Tree 6	0	Tree 14	0	Tree 18
0	Tree 3	0	Tree 9	0	Tree 15	0	Tree 19
0	Tree 4	0	Tree 12	0	Tree 16	0	Tree 20
0	Tree 5	0	Tree 13	0	Tree 17	0	Tree 25

7.1.3 Neighbouring trees

The following trees do not belong to the property owner:

Tree 7
 Tree 8
 Tree 22
 Tree 10
 Tree 23
 Tree 11
 Tree 24

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7.2 Permit requirements

The site is not subject to any local law or overlay in relation to tree protection.

The following trees belong to Greater Dandenong council and must only be maintained by Council staff or contractors:

- o Tree 1
- o Tree 26

7.3 Street tree policy

Proposed crossings to be constructed 3.0m clear from existing street tree greater than 100mm diameter and 2.0m clear of tree less than 100mm diameter, this may be subject to tree protection conditions. The applicant is to seek advice from the Council Arborist prior to applying for a permit.



7.4 Impact assessment

The following table represents the encroachments of the proposed development:

Tree	Encroachment	TPZ	SRZ	Encroachment	Proposed
No.	Liiorodoiliileit	encroachment	encroachment	category	retention
1	New crossover	6.1%	0%	Minor	Retain
2	Driveway and path	Entire tree	Entire tree	Major	Remove
3	Driveway	Entire tree	Entire tree	Major	Remove
4	Driveway	Entire tree	Entire tree	Major	Remove
5	Driveway and basement	Entire tree	Entire tree	Major	Remove
6	Driveway	Entire tree	Entire tree	Major	Remove
7	N/A	0%	0%	N/A	Retain
8	N/A	0%	0%	N/A	Retain
9	Ground floor	26.7%	20.9%	Major	
	Basement	14.0%	5.3%	Major	
	TOTAL (accounting for	26.7%	20.9%	Major	Remove
	overlap)			·	
10	Basement	23.1%	1.8%	Major	
	Ground floor	11.4%	0.3%	Major	
	Paving	10.3%	2.3%	Major	
	TOTAL (accounting for	23.1%	4%	Major	Retain
	overlap)				
11	Paving	0.7%	0%	Minor	Retain
12	Basement	Entire tree	Entire tree	Major	Remove
13	Basement	Entire tree	Entire tree	Major	Remove
14	Basement	Entire tree	Entire tree	Major	Remove
15	Basement	Entire tree	Entire tree	Major	Remove
16	Basement	Entire tree	Entire tree	Major	Remove
17	Basement	Entire tree	Entire tree	Major	Remove
18	Site cut & retaining wall	Entire tree	Entire tree	Major	Remove
19	Basement	Entire tree	Entire tree	Major	Remove
20	Basement	Entire tree	Entire tree	Major	Remove
21	Site cut & retaining wall	18.3%	11.1%	Major	
	Basement	2.0%	0%	Minor	
	TOTAL (accounting for	18.3%	11.1%	Major	Retain
	overlap)				
22	Ground floor	24.6%	1.7%	Major	
	Basement	21.5%	0%	Major	
	TOTAL (accounting for	24.6%	1.7%	Major	Retain
	overlap)				
23	Ground floor	13.5%	2.8%	Major	
	Basement	4.7%	0%	Minor	
	TOTAL (accounting for	13.5%	2.8%	Major	Retain
	overlap)		7 co/ This		be made avai la
24	Site cut & retaining wall	15.8%	7.6%	Major	e of enabling
	Basement	0.9%	0%	its consideration	nd review as
	TOTAL (accounting for	15.8%	7.6% p	Major	ocess thider the
	overlap)		P		nment Act 1987.
25	Basement	Entire tree	Entire tree Th	•	t bRemod√fer an
26	N/A	0%	0%	purpose Mahich ma	• .

Note: encroachment calculations are approximate and do not consider over excavation



7.4.1 No encroachment

Development is not proposed to encroach into the TPZ or SRZ of the following trees:

- o Tree 7
- o Tree 8
- o Tree 26

The proposed development is not expected to compromise the long-term viability of the above-mentioned trees.

Less invasive construction measures or development redesign is therefore not required to ensure that these trees would remain viable post construction.

7.4.2 Minor encroachment

The proposed development is considered to be a minor encroachment according to section 3.3.2 of the Australian Standard AS4970 – 2009 'Protection of Trees on Development Sites' of the following trees:

- o Tree 1
- o Tree 11

The proposed development is not expected to compromise the health and/or structural integrity of the above-mentioned trees.

Less invasive construction measures or development redesign is therefore not required to ensure that these trees remain viable post construction.

7.4.3 Major encroachment

The proposed development is considered to be a major encroachment according to section 3.3.3 of the Australian Standard AS4970 – 2009 'Protection of Trees on Development Sites' of the following trees:

- o Tree 2
- o Tree 10
- o Tree 17
- o Tree 23

- o Tree 3
- o Tree 12
- o Tree 18
- o Tree 24

- o Tree 4
- o Tree 13
- o Tree 19
- o Tree 25

- Tree 5Tree 6
- o Tree 14
- o Tree 20

- 0 1100 0
- o Tree 15
- o Tree 21

- o Tree 9
- o Tree 16
- o Tree 22



- These trees are located within the proposed footprint of the driveway and path.
- These trees are required to be removed in order to construct the proposed development.
- o These trees are of low retention value.
- No permit requirements apply to these trees.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 3

- The tree is located within the proposed footprint of the driveway.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 4

- o The tree is located within the proposed footprint of the driveway.
- The tree is required to be removed in order to construct the proposed development.
- o This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 5

- The tree is located within the proposed footprint of the driveway and basement.
- The tree is required to be removed in order to construct the proposed development.
- o This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.



- The tree is located within the proposed footprint of the driveway.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 9

Ground floor

- The ground floor is considered to be a major encroachment (6.3.2) of 26.7% of the TPZ and 20.9% of the SRZ.
- Individually, the construction of the ground floor has the potential to compromise the tree's long-term viability.

Basement

- The basement is considered to be a major encroachment (6.3.2) of 14.0% of the TPZ and 5.5% of the SRZ.
- Individually, the construction of the proposed basement has the potential to compromise the tree's long-term viability.

Overview

- The total encroachment of the ground floor and basement is 26.7% of the TPZ and 20.9% of the SRZ which is considered to be major (6.3.2).
- The construction of the proposed ground floor and basement both have the potential to compromise the tree's long-term viability.
- This tree is of low retention value.
- This tree is proposed to be removed.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign are not required.



Ground floor

- The ground floor is considered to be a major encroachment (6.3.2) of 11.4% of the TPZ and 0.3% of the SRZ.
- Individually, the construction of the ground floor has the potential to compromise the tree's long-term viability.

Basement

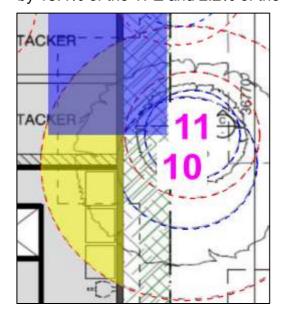
- The basement is considered to be a major encroachment (6.3.2) of 23.1% of the TPZ and 1.8% of the SRZ.
- Individually, the construction of the proposed basement has the potential to compromise the tree's long-term viability.

Pavement

- The pavement is considered to be a major encroachment (6.3.2) of 10.3% of the TPZ and 2.3% of the SRZ.
- Individually, the construction of the proposed paving has the potential to compromise the tree's long-term viability.

Overview

- The total encroachment of the ground floor, basement and paving is 23.1% of the TPZ and 4.0% of the SRZ which is considered to be major (6.3.2).
- An existing garage is located within a section of the footprint of the proposed encroachment.
- The excavation for the basement is expected to be significantly deeper than any existing footings.
- The proposed encroachment is greater than the existing encroachment by 15.4% of the TPZ and 2.2% of the SRZ, as shown below:



Tree 10

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- The construction of the proposed basement has the potential to
- This is a neighbouring tree that is proposed to be retained.
- No permit requirements apply to this tree.
- Recommendations within section 8.3 and 8.4 of this report are required to ensure that this tree would remain viable post construction.

- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 13

- o The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 14

- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.



- o The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 16

- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 17

- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.

Tree 18

- These trees are located within the proposed footprint of the site cut & retaining wall.
- These trees are required to be removed in order to construct the proposed development.
- These trees are of low retention value.
- No permit requirements apply to these trees.
- In the event of removal, less invasive construction measures or development redesign is not required.

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- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- o In the event of removal, less invasive construction measures or development redesign is not required.

Tree 20

- The tree is located within the proposed footprint of the basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- o In the event of removal, less invasive construction measures or development redesign is not required.

Tree 21

Basement

- The basement is considered to be a minor encroachment (6.3.1) of 2.0% of the TPZ and 0% of the SRZ.
- o Individually, the construction of the proposed basement is not expected to compromise the tree's long-term viability.

Site cut & retaining wall

- o The site cut & retaining wall is considered to be a major encroachment (6.3.2) of 18.3% of the TPZ and 11.1% of the SRZ.
- Individually, the excavation for the proposed site cut & retaining wall has the potential to compromise the tree's long-term viability.

Overview

- The total encroachment of the basement and site cut & retaining wall is 18.3% of the TPZ and 11.1% of the SRZ which is considered to be major (6.3.2).
- The excavation for the proposed site cut & retaining wall has the potential to compromise the tree's long-term viability.
- o This is a neighbouring tree that is proposed to be retained onsideration and review as
- No permit requirements apply to this tree.
- Recommendations within section 8.3 and 8.4 of this teport ensure that this tree would remain viable post constructions which may breach any

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Ground floor

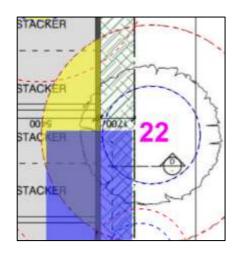
- The ground floor is considered to be a major encroachment (6.3.2) of 24.6% of the TPZ and 1.7% of the SRZ.
- Individually, the construction of the ground floor has the potential to compromise the tree's long-term viability.

Basement

- The basement is considered to be a major encroachment (6.3.2) of 21.5% of the TPZ and 0% of the SRZ.
- Individually, the construction of the proposed basement has the potential to compromise the tree's long-term viability.

Overview

- The total encroachment of the ground floor and basement is 24.6% of the TPZ and 1.7% of the SRZ which is considered to be major (6.3.2).
- An existing garage is located within a section of the footprint of the proposed encroachment.
- The excavation for the basement is expected to be significantly deeper than any existing footings.
- The proposed encroachment is greater than the existing encroachment by 10.2% of the TPZ and 0% of the SRZ, as shown below:



Tree 22

- Encroachment of existing garage
- Additional proposed encroachment

- The construction of the proposed basement has the potential to compromise the tree's long-term viability.
- This is a neighbouring tree that is proposed to be retained.
- No permit requirements apply to this tree.
- o Recommendations within section 8.3 and 8.4 of this reportnare required to enabling ensure that this tree would remain viable post construction and review as

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Ground floor

- The ground floor is considered to be a major encroachment (6.3.2) of 13.5% of the TPZ and 2.8% of the SRZ.
- Individually, the construction of the ground floor has the potential to compromise the tree's long-term viability.

Basement

- The basement is considered to be a minor encroachment (6.3.1) of 4.7% of the TPZ and 0% of the SRZ.
- Individually, the construction of the proposed basement is not expected to compromise the tree's long-term viability.

Overview

- The total encroachment of the ground floor and basement is 13.5% of the TPZ and 2.8% of the SRZ which is considered to be major (6.3.2).
- An existing garage is located within the footprint of the proposed encroachment.
- Although this is considered to be a major encroachment, the tree is expected to remain viable due to the following factors:
 - The tree is of a hardy species that generally responds well to root disturbance.
 - This is a small tree that is expected to have a small and vigorous root system.
 - The existing conditions (existing garage) are expected to have restricted root growth to within the area of the proposed encroachment.
- This is a neighbouring tree that is proposed to be retained.
- No permit requirements apply to this tree.
- Less invasive construction measures are not required to ensure that this tree would remain viable post construction.



Basement

- The basement is considered to be a minor encroachment (6.3.1) of 0.9% of the TPZ and 0% of the SRZ.
- Individually, the construction of the proposed basement is not expected to compromise the tree's long-term viability.

Site cut & retaining wall

- The site cut & retaining wall is considered to be a major encroachment (6.3.2) of 15.8% of the TPZ and 7.6% of the SRZ.
- Individually, the excavation for the proposed site cut & retaining wall has the potential to compromise the tree's long-term viability.

Overview

- The total encroachment of the basement and site cut & retaining wall is 15.8% of the TPZ and 7.6% of the SRZ which is considered to be major (6.3.2).
- The excavation for the proposed site cut & retaining wall has the potential to compromise the tree's long-term viability.
- This is a neighbouring tree that is proposed to be retained.
- No permit requirements apply to this tree.
- Recommendations within section 8.3 and 8.4 of this report are required to ensure that this tree would remain viable post construction.

Tree 25

- The tree is located within the proposed footprint of basement.
- The tree is required to be removed in order to construct the proposed development.
- This tree is of low retention value.
- No permit requirements apply to this tree.
- In the event of removal, less invasive construction measures or development redesign is not required.



8 Recommendations

8.1 Tree retention

The following Council owned trees are proposed to be retained:

- o Tree 1
- o Tree 26

The following neighbouring trees are proposed to be retained:

Tree 7
 Tree 21
 Tree 8
 Tree 22
 Tree 10
 Tree 23
 Tree 11
 Tree 24

The following is recommended in order to ensure that trees that are proposed to be retained would remain viable post construction:

- o Comply with less invasive construction measures (8.3)
- Comply with tree protection measures (8.4)

8.2 Tree removal

The following trees of low retention value are proposed to be removed:

o Tree 14 o Tree 18 o Tree 2 o Tree 6 o Tree 3 o Tree 15 o Tree 19 o Tree 9 o Tree 12 o Tree 20 o Tree 4 o Tree 16 o Tree 5 o Tree 13 o Tree 17 o Tree 25

In the event of tree removal, the following is recommended:

- Tree removal should be undertaken prior to construction commencing (including demolition).
- Written consent from the responsible authority must be obtained prior to tree removal (if required).

8.2.1 Permit requirements for trees that are proposed to be removed

 Trees that are proposed to be removed are not protected under a local law or overlay.



8.3 Less invasive construction measures

8.3.1 Basement (Tree 10)

Option 1

 Redesign so that the proposed basement does not encroach into the TPZ of Tree 10 by greater than 10% and does not encroach into the SRZ, unless a root investigation (6.3.3) determines that the tree would remain viable post construction.

Option 2

- Engage with neighbouring owner to remove Tree 10 or accept consequences (tree mortality or instability) of the major encroachment.
- This tree does not require a permit for removal.

8.3.2 **Basement (Tree 22)**

Option 1

- Engage suitably qualified arborist (AQF Level 4) to supervise demolition of the existing garage within the TPZ of Tree 22.
- Engage suitably qualified arborist (AQF Level 4) to supervise excavation for the basement within the TPZ of Tree 22.
- The supervising arborist should prune any roots that are encountered in accordance with section 9 of AS4373-2007 'Pruning of Amenity Trees'.

Option 2

- Engage with neighbouring owner to remove Tree 22 or accept consequences (tree mortality or instability) of the major encroachment.
- This tree does not require a permit for removal.

8.3.3 Site cut & retaining wall (Trees 21 & 24)

Option 1

 Redesign so that the proposed site cut & retaining wall do not encroach into the TPZ of Trees 21 & 24 by greater than 10% and does not encroach into the SRZ, unless a root investigation (6.3.3) determines that these trees would remain viable post construction.

Option 2

- Engage with neighbouring owner to remove Trees 21 & 24 or accept consequences (tree mortality or instability) of the major encroachment.
- These trees do not require a permit for removal.



8.4 Tree protection measures

8.4.1 Pruning

- Trees 10, 22 and 23 require pruning back to the boundary and to a height of 8m above ground level for clearance purposes.
- Only the minimum amount necessary for clearance in order to complete construction should be removed.
- Pruning should be undertaken by a suitably qualified Arborist (minimum AQF level 3).
- The pruning should be undertaken in accordance with the Australian Pruning Standard AS 4373 - 2007.
- o Pruning should be undertaken prior to machinery being brought onto site.

8.4.2 Tree protection fencing

- o Tree protection fencing (TPF) should be installed for Trees 1, 21 & 24.
- TPF should be installed as close to the TPZ as practically possible provided that it does not encroach onto the road, footpath, crossover or proposed works.
- The existing site perimeter fencing may be used as TPF for neighbouring trees.
- TPF should be installed prior to machinery being brought onsite for the demolition of the existing dwelling.
- TPF should be a minimum 1.8m high and comprised of wire mesh (or similar) supported by concrete feet (or similar).
- TPF should remain intact for the duration of the project.
- TPF should only be removed or shifted with the approval of the Project Arborist and the Responsible Authority.

8.4.3 Tree protection signage

- The signage on the TPF should be placed on TPZ fencing at regular intervals so that it is visible from any angle outside the TPZ.
- Signage should state 'Tree Protection Zone, No Access' or similar.
- Signage should be greater than 600mm X 400mm in size.
- The contact details of the project arborist and site manager should be written clearly on the sign.





8.4.4 Ground protection

- Ground protection should be installed within the TPZ of Trees 8, 10, 11 &
 22 that are located outside of the building footprint.
- Ground protection should be comprised of rumble boards with 100mm of mulch underneath.

8.4.5 Scaffolding

 When scaffolding must be erected within Tree Protection Zones, cover the ground with a 10cm layer of mulch, and then cover this with boards and plywood to prevent soil compaction.

8.4.6 Site storage

 A designated storage area where building materials, chemicals etc. can be stored should be located outside the TPZ of retained trees.

8.4.7 Prohibitions within the TPZ

The following activities are prohibited within the TPZ:

- Machine excavation including trenching (unless approved by the Project Arborist, Arborist supervision may be required)
- Cultivation
- Storage
- Preparation of chemicals, including cement products
- Parking of vehicles
- Refuelling
- Dumping of waste
- Wash down and cleaning of equipment
- Placement of fill
- Lighting of fires
- Physical damage to the tree
- Pruning or damaging of roots greater than 30mm in diameter



8.4.8 Drains and services

In the event that any drains or services are included in a greater than 10% encroachment into the TPZ or encroach into the SRZ of trees that are proposed to be retained, the following should be undertaken:

 Drains or services should be installed by non-root destructive means such as horizontal boring at greater than 1100mm in depth or by low pressure hydro-excavation to ensure that the bark of the roots remain intact, unless a root investigation determines that the tree(s) would remain viable.

Note: encroachment calculations must consider additional encroachments e.g. site cuts, retaining walls, building footprint.



9 Limitation of liability

TMC Reports and their employees are tree specialists who use their qualifications, education, knowledge, training, diagnostic tools and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of this assessment and report.

Trees are living organisms that fail in ways the arboriculture industry does not fully understand. Conditions are often hidden within trees and below ground. Unless otherwise stated, observations have been made from ground level and limited to accessible components without dissection, excavation or probing. There is no guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of this report, such as property boundaries and ownership, disputes between neighbours, sight lines, landlord-tenant matters, and related incidents. Such issues cannot be taken into account unless complete and accurate information is given prior to or at the time of site inspection.

Information contained in this report covers those items that were examined and reflect the condition of those items at the time of inspection. There is no warranty or guarantee expressed or implied that the problems or deficiencies of the trees or property in question may not arise in the future. Trees can be managed, but they cannot be controlled. To live or work near a tree involves a degree of risk. The only way to eliminate all risks involved with a tree is to eliminate the tree.

All written reports must be read in their entirety, at no time shall part of the written assessment be referred to unless taken in full context of the whole written report.



10 Definition of terms

10.1 Tree health

- Good
- o Fair
- o Poor
- Very poor
- o Dead

Good: The tree is demonstrating good or exceptional growth for the species. The tree should exhibit a full canopy of foliage and have only minor pest or disease problems. Foliage colour size and density should be typical of a health specimen of that species.

Fair: The tree is in reasonable condition and growing well for the species. The tree should exhibit an adequate canopy of foliage. There may be some dead wood in the crown, some grazing by insect or animals may be evident, and/or foliage colour, size or density may be atypical for a healthy specimen of that species.

Poor: The tree is not growing to its full capacity. Extension growth of the laterals may be minimal. The canopy may be thinning or sparse. Large amounts of dead wood may be evident throughout the crown, as well as significant pest and disease problems. Other symptoms of stress indicating tree decline may be present.

Very

poor: The tree appears to be in a state of decline, and the canopy may be very thin and sparse. A significant volume of dead wood may be present in the canopy, or pest and disease problems may be causing a severe decline in tree health.

Dead: The tree is no longer alive.

10.2 Structure

- o Good
- o Fair
- o Poor
- Very poor
- າ Failed

The definition of structure is the likelihood of the tree to fail under normal condition. A tree with good structure is highly unlikely to suffer any significant failure, while a tree with poor to very poor structure is likely or very likely to fail.

Good: The tree has a well-defined and balanced crown. Branch unions appear to be strong, with no defects evident in the trunks or the branches. Major limbs are well defined. The tree would be considered a good example for the species. Probability of significant failure is highly unlikely.

Fair: The tree has some minor problems in the structure of the crown. The crown may be slightly out of balance at some branch unions or branches may be exhibiting minor structural faults. If the tree has a single trunk, this may be on a slight lean, or be exhibiting minor defects. Probability of significant failure is low.

Poor: The tree may have a poorly structured crown, the crown may be unbalanced, or exhibit large gaps. Major limbs may not be well defined; branches may be rubbing or crossing over. Branch unions may be poor or faulty at the point of attachment. The tree may have suffered major root damage. Probability of significant failure is moderate.

Very

poor: The tree has a poorly structured crown. The crown is unbalanced, or exhibits large gaps. Major limbs are not well defined. Branch unions may be poor or faulty at the point of attachment. A section of the tree has failed, or is in imminent danger of failure. Active failure may be present, or failure is probably in the immediate future.

Failed: A significant section of the tree or the whole tree has failed.



10.3 Useful life expectancy (ULE)

- o Unsafe or 0 years
- Less than 5 years
- \circ 5 to 10 years
- o 10 to 20 years
- 0 20+

Useful life expectancy is approximately how long a tree can be retained safely and usefully in the landscape providing site conditions remain unchanged and the recommended works are completed.

It is based on the principals of safety and usefulness in the landscape and should not reflect personal opinions on species suitability.

Unsafe or 0 years: The tree is considered dangerous in the location and/or no longer provides any amenity value.

Less Than 5 years: The tree under normal circumstances and without extra stress should be safe and have value of maximum of 5 years. The tree will need to be replaced in the short term. Replacement plants should be established as soon as possible if there is efficient space, or consideration should be given to the removal of the tree to facilitate replanting.

5 to 10 Years: The tree under normal circumstances and without extra stress should be safe and have value of maximum of 10 years. Trees in this category may require regular inspections and maintenance particularly if they are large specimens. Replacement plants should be established in the short term if there is sufficient space, or consideration should be given to the removal of the tree to facilitate replanting.

10 to 20 Years: The tree under normal circumstances and without extra stress should be safe and of value of up to 20 years. During this period, regular inspections and maintenance will be required.

20 + Years: The tree under normal circumstances and without extra stress should be safe and of value of more than years. During this period, regular inspections and maintenance will be required.

10.4 Tree retention value

- o High
- Moderate
- o Low
- Neighbouring tree
- Council Owned Tree

High: The tree may be significant in the landscape, offer shade and other amenities such as screening. The tree may assist with erosion control, offer a windbreak or perform a vital function in the location (e.g. habitat, shade, flowers or fruit). The tree is free from structural defects and is vigorous. Consider the retention of the tree and designing the development to accommodate the tree.

Moderate: The tree may offer some screening in the landscape or serve a particular function in the location and have minor structural defects. The tree may be entering the mature stage of its life cycle. The tree may be retained if it does not hamper the design intent.

Low: The tree offers very little in the way of screening or amenity and may have significant structural defects. The tree may also be mature and entering the senescent stage of its life cycle. The tree may be removed if necessary.

Neighbouring tree: The tree is located within an adjoining private property/land. The tree is to be protected unless written consent from the tree owner(s) and/or responsible authority is obtained. Consider the retention of the tree unless written consent is obtained from the tree owner and/or responsible authority.

Council Owned Tree: The tree is located within Council owned land. The tree is to be protected unless written consent from the responsible authority is obtained. Consider the retention of the tree unless written consent is obtained from the tree owner and/or responsible authority.



10.5 Age

o Young

o Semi Mature

o Mature

o Senescent

Young: Juvenile or recently planted approximately 1-7 years.

Semi Mature: Tree actively growing.

Mature: Tree has reached expected size in situation.
Senescent: Tree is over mature and has started to decline.

10.6 Amenity value

Very low

Low

Moderate

High

Very Low: Tree makes little or no amenity value to the site or surrounding areas. In some cases the tree might

be detrimental to the areas amenity value (e.g. unsightly, risk of weed spread)

Low: Tree makes some contribution of amenity value to the site but makes no contribution to the amenity

value of surrounding areas. The removal of the tree may result in little loss of amenity. Juvenile trees, including street trees are generally included in this category. However, they may have the potential

to supply increased amenity in the future.

Moderate: The tree makes a moderate contribution to the amenity of the site and/or may contribute to the

amenity of the surrounding area.

High: The tree makes a significant contribution to the amenity value of the site, or the tree makes a

moderate contribution to the amenity value of the larger landscape.

The amenity value rating considered the impact that the tree has on any neighbouring sites as being equally important to that supplied to the subject site. However, trees that contribute to the general

area (e.g. streetscape) are given a greater weight.

10.7 Terms within tree data table

o DBH

o DAB

o CA1

TPZSRZ

DBH: Diameter at breast height (1.4m from ground level)

DAB: Diameter at base of tree

CA1: Circumference of trunk at 1m from ground level

TPZ: Tree Protection Zone SRZ: Structural Root Zone

