treereport. ARBORICULTURAL CONSULTING

Arboricultural Impact Assessment

Oxford Falls Grammar School – Library & Admin Building

Version 2

Prepared for:

EPM Projects Pty Ltd

December 2019

All trees have been assessed based on the observations from the site inspection and information presented by the client or relevant parties at the time of inspection. No responsibility can be taken for incorrect or misleading information provided by the client or other parties.

Trees are living organisms. As such, their health and structure may alter, they will grow and their environmental circumstances may change from the time of the site inspection upon which this assessment is based. Trees, as with all living things, pose some level of risk.

Trees fail in ways that the arboricultural community are yet to fully understand. There is no guarantee expressed or implied that failure or deficiencies may not arise of the subject trees in the future. No responsibility is accepted for damage to property or injury/death caused by the nominated trees.

Tree reports are valid for 12 months after the date of inspection, unless otherwise stated. Any significant change to the subject tree(s) or surrounding environment, including significant or catastrophic storm/wind events will require the immediate re-inspection and assessment of the tree(s).

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Document information

Title:	OFGS Library & Admin Building
Report type:	Arboricultural Impact Assessment
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Date:	19 th December 2019

Document status

Document status	Date	Revision description
Version 1	17/12/19	DRAFT for client review.
Version 2	19/12/19	 Updated design plan. Trees id. 4 & 5 removed from impact assessment.

Abbreviations

Abbreviation	Description
Ø	Diameter
R	Radius
AQF	Australian Qualifications Framework
AS	Australian Standards
DBH	Diameter at Breast Height
Id	Identification
m	Metre
mm	Millimetre
NDE	Non-Destructive Excavation
NO	Number
NSW	New South Wales
SP	Species
SRZ	Structural Root Zone
TPZ	Tree Protection Zone
VTA	Visual Tree Assessment

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1 Background

1.1 Introduction

Tree Report was commissioned by EPM Projects Pty Ltd to prepare an Arboricultural Impact Assessment (AIA) for a proposed development within the Oxford Falls Grammar School grounds (the Site). The Site falls within the Northern Beaches Council Local Government Area (LGA).

The purpose of this report is to:

- Identify trees within the study area that are likely to be affected by the proposed works.
- Assess the current overall health and condition of the subject trees.
- Assess and discuss the impacts to the subject trees as a result of the proposed development.
- Evaluate the significance of the subject trees and assess suitability for retention.

1.2 The proposal

Key features of the proposal likely to affect the subject trees are summarised as follows:

- Site preparation activities.
- Construction of new library & admin building.
- Installation of above and below ground services.

1.3 The subject trees

The subject trees were inspected on 10th December 2019. Further information, observations and measurements specific to the subject trees can be found in **Chapter 3** and **Appendix II**.

1.4 Documents and plans referenced

The conclusions and recommendations of this report are based on the *Australian Standard*, *AS 4970-2009*, *Protection of Trees on Development Sites*, the findings from the site inspections and analysis of the following documents/plans:

- Allen Jack + Cottier Architects: OFGS Field of Dreams 18025; Ground Floor Plan Revision 3, dated 18/12/2019.
- Rygate Surveyors: Site Survey; Reference No. 78166; Revision E, dated 25/11/2019.
- State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
- Northern Beaches Council: Exempt Species List.
- Northern Beaches Council: Local Environmental Plan (LEP) 2014.
- Northern Beaches Council: Development Control Plan (DCP) 2014.
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities)
 2017.

Allen Jack + Cottier Architects: OFGS Field of Dreams – Ground Floor Plan has been used as a base map for **Appendix I.**

2 Method

2.1 Visual tree assessment

The subject trees were assessed in accordance with a stage one visual tree assessment (VTA) as formulated by Mattheck & Breloer (1994)¹, and practices consistent with modern arboriculture.

The following limitations apply to this methodology:

- Trees were inspected from ground level, without the use of any invasive or diagnostic tools and testing.
- Trees within adjacent properties or restricted areas were not subject to a complete visual inspection (i.e. defects and abnormalities may be present but not recorded).
- Tree heights, canopy spread and diameter at breast height (DBH) was estimated, unless otherwise stated.
- Tree identification was based on broad taxonomical features present and visible from ground level at the time of inspection.

2.2 Retention value

The retention value of a tree or group of trees is determined using a combination of environmental, cultural, physical and social values.

- Low: These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention.
- **Medium:** These trees are moderately important for retention. Their removal should only be considered if adversely affecting the proposed building/works and all other alternatives have been considered and exhausted.
- High: These trees are considered important for retention and should be retained and protected. Design modification or re-location of building/s should be considered to accommodate the setbacks as prescribed by Australian Standard AS4970 Protection of trees on development sites.

This tree retention assessment has been undertaken in accordance with the Institute of Australian Consulting Aboriculturalists (IACA) Significance of a Tree, Assessment Rating System (STARS). The system uses a scale of High, Medium and Low significance in the landscape. Once the landscape significance of a tree has been defined, the retention value can be determined. Each tree must meet a minimum of three (3) assessment criteria to be classified within a category. Further details and the assessment criteria are in **Appendix VI.**

-

¹ VTA is an internationally recognised practice in the visual assessment of trees as formulated by Mattheck & Breloer (1994). Principle explanations and illustrations are contained within the publication, Field Guide for Visual Tree Assessment by Mattheck, C., and Breloer, H. Arboricultural Journa1, Vol 18 pp 1-23 (1994).

2.3 Encroachment assessment

- Tree protection zone (TPZ): The TPZ is the optimal combination of crown and root area (as
 defined by AS 4970-2009) that requires protection during the construction process so that the
 tree can remain viable. The TPZ is an area that is isolated from the work zone to ensure no
 disturbance or encroachment occurs into this zone. Tree sensitive construction measures must
 be implemented if work is to proceed within the Tree Protection Zone.
- Structural root zone (SRZ): The SRZ is the area of the root system (as defined by AS 4970-2009) used for stability, mechanical support and anchorage of the tree. Severance of structural roots (>50 mm in diameter) within the SRZ is not recommended as it may lead to the destabilisation and/or decline of the tree.
- Root investigation: When assessing the potential impacts of encroachment within the TPZ, consideration will need to be given to the location and distribution of the roots, including above or below ground restrictions affecting root growth. Location and distribution of roots may be determined through non-destructive excavation (NDE) methods such as hydro-vacuum excavation (sucker truck), air spade and manual excavation. Root investigation is used to determine the extent and location of roots within the zone of conflict. Root investigation does not guarantee the retention of the tree.

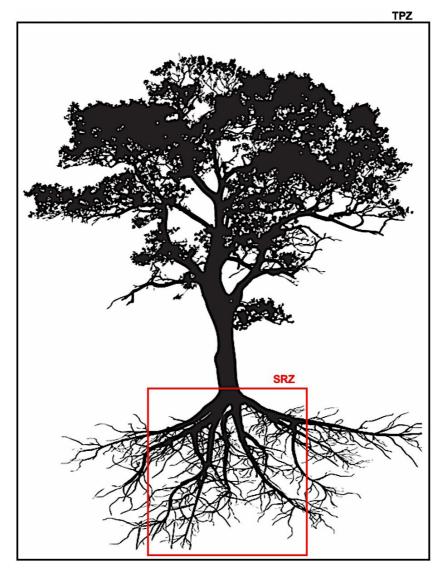


Figure 1: Indicative TPZ and SRZ

2.4 Encroachments within the TPZ

- No encroachment (0%): No likely or foreseeable encroachment within the TPZ.
- Minor encroachment (<10%): If the proposed encroachment is less than 10% (total area) of the TPZ, and outside of the SRZ, detailed root investigations should not be required. The area lost to this encroachment should be compensated for elsewhere and be contiguous with the TPZ.
- Major encroachment (>10%): If the proposed encroachment is greater than 10% (total area) of the TPZ, the project arborist must demonstrate that the tree(s) remain viable. The area lost to this encroachment should be compensated for elsewhere and be contiguous with the TPZ. Tree sensitive construction techniques may be used for minor works within this area providing no structural roots are likely to be impacted, and the project arborist can demonstrate that the tree(s) remain viable. Root investigation by non-destructive methods may be required for proposed works within this area. All work within the TPZ must be carried out under the supervision of the project arborist.
- Total encroachment: Subject trees located wholly within the construction footprint cannot be successfully retained.

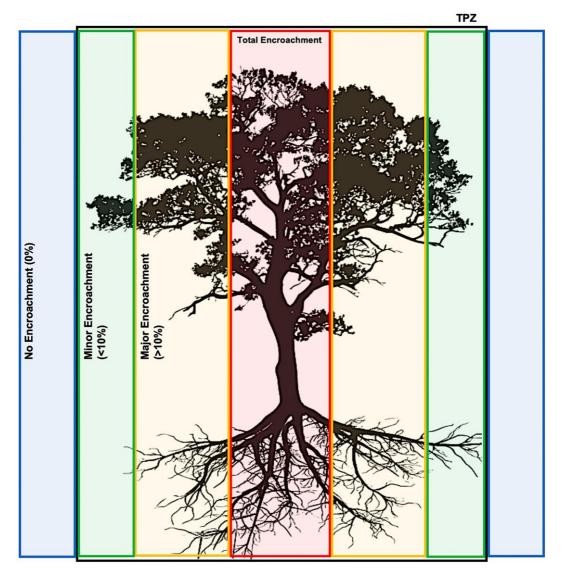


Figure 2: Indicative levels of encroachment

2.5 Mitigation measures

Encroachment within the TPZ must be compensated with a range of mitigation measures to ensure that impacts to the subject tree(s) are reduced or restricted wherever possible. Mitigation must be increased relative to the level of encroachment within the TPZ to ensure the subject tree remain viable. The table below outlines requirements under AS 4970-2009, and mitigation measures required within each category of encroachment. These mitigation measures will only apply if trees are proposed to be retained.

Table 1: Mitigation measure

AS 4970-2009	Requirements Under AS 4970-2009	Encroachment	Mitigation Measures
No encroachment (0%)	• N/A	No encroachment (0%)	• N/A
Minor encroachment (<10%)	 The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. Detailed root investigations should not be required. 	Minor encroachment (<10%)	 The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. Tree protection must be installed.
Major encroachment (>10%)	 The project arborist must demonstrate the tree(s) would remain viable. Root investigation by non-destructive methods may be required. Consideration of relevant factors including: Root location and distribution, tree species, condition, site constraints and design factors. The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. 	Major encroachment (>10%) Total encroachment	 The project arborist must demonstrate the tree(s) would remain viable. The area lost to this encroachment should be compensated for elsewhere, contiguous with the TPZ. Non-destructive root investigation may be required for any trees proposed for retention. The project arborist will be required to supervise any works within the TPZ. Tree protection must be installed. Subject tree(s) cannot be successfully retained.

3 Discussion

3.1 General

Construction and development can change the way an area is utilised by adding buildings, infrastructure and pedestrians to the location. This can result in an increased potential of damage and harm to property and people. Therefore, trees that are contain significant defects, are structurally poor or have a short useful life expectancy should be considered for removal.

Furthermore, it is not always possible or reasonably practicable to retain all trees within a proposed development. It can be better to select the higher retention value trees and protect these well, rather than trying to retain all trees and decreasing the quality of tree protection (Matheny & Clark, 1998). Trees can be negatively affected in a number of ways during construction. These include root loss, lack of water and oxygen to the root zone, damage to the trunk or canopy and/or poisoning. Failure to protect trees, particularly root zones, during development can lead to an increased risk of tree death and/or failure post construction.

Most tree roots will usually be found in the top 600mm of soil (Harris, Clark &Matheny, 1999). Radiating outwards from the base of the trunk are several large woody roots. These structural roots anchor the tree in the ground. Cutting or affecting those roots is likely to undermine the stability of the tree. The spread of a tree's structural roots, herein termed its Structural Root Zone (SRZ), is generally proportioned to the diameter of its trunk (Matthek & Breloer, 1994).

Beyond this zone extends the network of woody transport roots and fine absorbing roots, which absorb and transport water and nutrients. Most of these roots are found in the top 150mm of soil (Harris, Clark & Matheny, 1999). Trees can lose a portion of their absorbing roots without being significantly affected in the long term. Different species tolerate different amounts of root loss, with most healthy trees able to tolerate losing up to a third of their absorbing roots (Matheny & Clark, 1998).

3.2 Total encroachment

Tree 1 (*Ficus rubiginosa*) is in good condition and vigour and displays typical of the species. The tree is visible when viewed from the street, providing a positive contribution to the visual character and amenity of the local area.

The subject tree is located wholly within the construction footprint of the proposed development footprint.

The subject tree is a mature specimen which, although has reached dimensions to be protected by the local Tree Preservation Order, can be easily replaced to recover a net increase in canopy cover within a short-medium period of time.

Under the current proposal, this tree cannot be successfully retained.

Tree 2 (*Ficus rubiginosa*) is in fair condition and vigour and displays typical of the species. The tree is visible when viewed from the street, providing a positive contribution to the visual character and amenity of the local area.

The subject tree is located wholly within the construction footprint of the proposed development footprint.

The subject tree is a mature specimen which, although has reached dimensions to be protected by the local Tree Preservation Order, can be easily replaced to recover a net increase in canopy cover within a short-medium period of time.

Under the current proposal, this tree cannot be successfully retained.

Tree 3 (*Ficus rubiginosa*) is in fair condition and vigour and displays typical of the species. The tree is visible when viewed from the street, providing a positive contribution to the visual character and amenity of the local area.

The subject tree is located wholly within the construction footprint of the proposed development footprint.

The subject tree is a mature specimen which, although has reached dimensions to be protected by the local Tree Preservation Order, can be easily replaced to recover a net increase in canopy cover within a short-medium period of time.

Under the current proposal, this tree cannot be successfully retained.

4 Conclusion

Two trees (id. 1 & 2) with a HIGH retention value and One tree (id. 3) with a Medium retention value are located wholly within the development footprint.

Under the current proposal, these trees cannot be successfully retained.

5 Recommendations

5.1 Trees proposed for removal

Total encroachment (100%): Subject trees 1, 2 & 3 are located wholly within the development footprint. Under the current proposal, these trees cannot be successfully retained and are recommended for removal as part of this development.

5.2 Offsetting

Offset replacement planting to compensate for the loss of the tree as part of this development should be such, that a net increase of canopy cover is ascertained within a 5-year time period. Species selection should be in co-ordination with Northern Beaches Council and consist of tree species which are endemic to the local area and suited to the size of the area of which they are planted.

5.3 Tree work

- All pruning and/or tree removal work is to be carried out by an arborist with a minimum AQF Level 3 qualification in Arboriculture.
- All pruning must be in accordance with AS 4373-2007, Pruning of Amenity Trees.
- All pruning and/or tree removal work is to be carried out in accordance with the NSW WorkCover Code of Practice for the Amenity Tree Industry (1998).
- Permission must be granted from the relevant consent authority, prior to removal or pruning of subject tree 1-5.

5.4 Hold points, inspections and certification

The approved tree protection plan must be available onsite prior to the commencement of works, and throughout the entirety of the project. To ensure the tree protection plan is implemented, hold points have been specified in the schedule of works (**Table 2**). It is the responsibility of the principle contractor to complete each of the tasks.

Once each stage is reached, the work will be inspected and certified by the project arborist and the next stage may commence. Alterations to this schedule may be required due to necessity, however, this shall be through consultation with the project arborist only.

Table 2: Schedule of works

Pre- construction	Prior to demolition and site establishment indicate clearly (with spray paint on trunks trees marked for removal only (if applicable).
	Tree protection, for trees that will be retained, shall be installed prior to demolition and site establishment, this will include mulching of areas within the TPZ (if applicable).
During Construction	Inspection of trees by the project arborist should be undertaken bimonthly during the construction period.
	Inspection of trees by project arborist after all major external construction has ceased, following the removal of tree protection measures.
Post Construction	Final inspection of trees by project arborist.

6 References

Australian Standard, AS 4373-2007, Pruning of Amenity Trees.

Australian Standard, AS 4970-2009, Protection of Trees on Development Sites.

Harris, R., Clark, J., Matheny, N. and Harris, V. 2004. Arboriculture. Upper Saddle River, N.J.: Prentice Hall.

Lonsdale, D. 1999. Principles of tree hazard assessment and management. London: Stationery Office.

Loughran, A. 2007. Native plant or weed. Paterson, N.S.W.: Tocal College, NSW Dept. of Primary Industries.

Mattheck, C. 2007. Updated field guide for visual tree assessment. Karlsruhe: Forschungszentrum Karlsruhe.

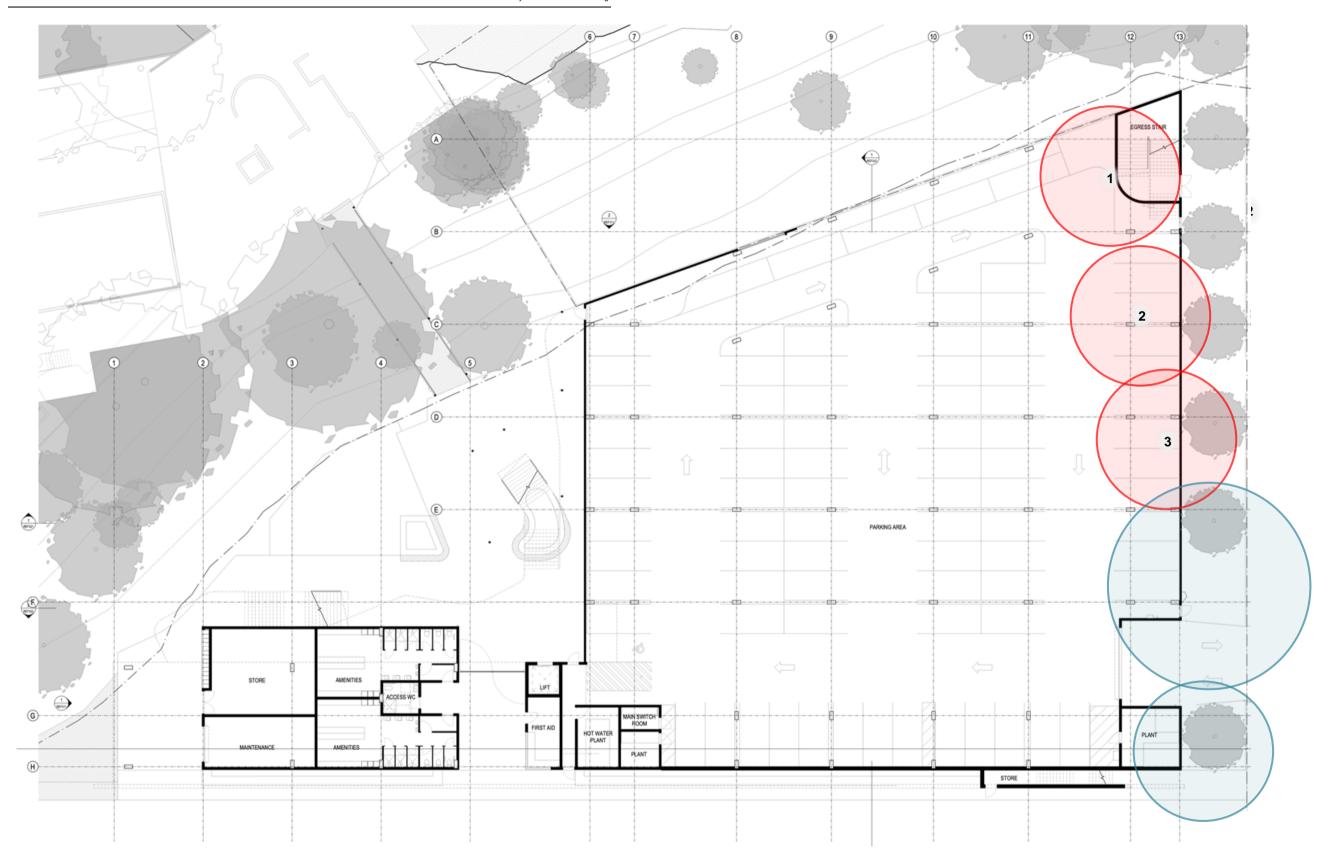
Mattheck, C., Bethge, K. and Weber, K. 2015. The body language of trees. Karlsruhe: Karlsruher Inst. ful`r Technologie.

Mattheck, C., Lonsdale, D. and Breloer, H. 1994. The body language of trees. London: H.M.S.O.

MacLeod, R D. and Cram, W J. 1996. Forces Exerted by Tree Roots, Arboriculture Research Information Note, 134/96/EXT.

Smiley, T. and Fite, K. 2008. Managing Trees During Construction. Arborist News. WorkCover NSW. 1998. Code of Practice: Amenity Tree Industry.

Appendix I - Impact Assessment



LEGEND

Trees proposed for removal (indicative location).

Trees to be removed as per ESPP Clause
38(1)(b).

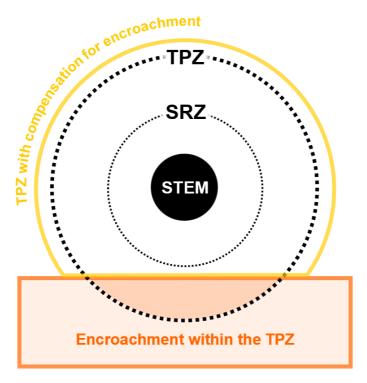


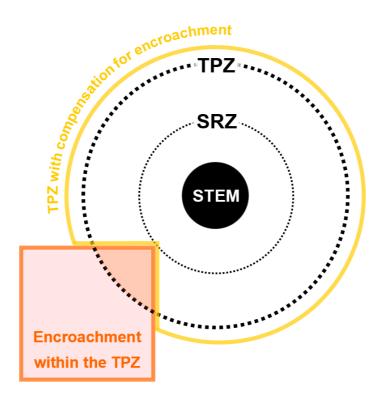
Appendix II - Results of Arboricultural Assessment

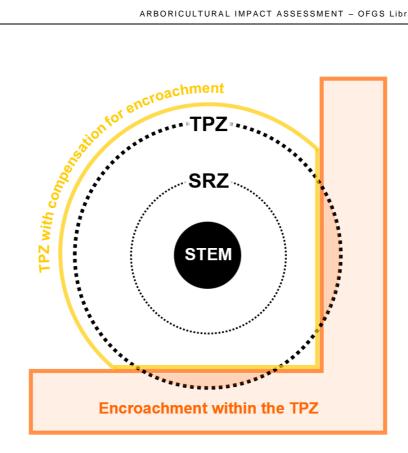
ld.	Botanical name	Height (m)	Spread (m)	Health	Structure	Age class	Tree significance	Useful life expectancy	Priority for retention	DBH (Ømm)	SRZ (<i>R</i> m)	TPZ (<i>R</i> m)	Encroachment	Other notes	Proposal
1	Ficus rubiginosa	7	8	Good	Fair	Mature	Medium	Long	High	500	2.5	6	Total (100%)	Subject tree located wholly within the proposed development footprint.	Remove
2	Ficus rubiginosa	8	8	Fair	Fair	Mature	Medium	Medium	High	500	2.5	6	Total (100%)	 Subject tree located wholly within the proposed development footprint. Canopy dieback. 	Remove
3	Ficus rubiginosa	7	6	Fair	Poor	Mature	Medium	Short	Medium	500	2.5	6	Total (100%)	Subject tree located wholly within the proposed development footprint.	Remove

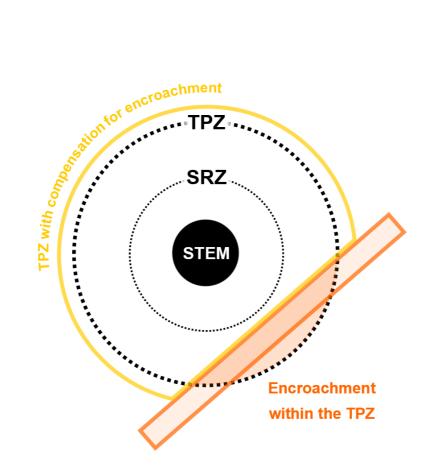
Appendix III - Encroachment within the TPZ

The images below show how encroachment within the tree protection zone can be compensated for elsewhere.









Reference

Council of Standards Australia (August 2009) AS 4970-2009 Protection of Trees on Development Sites Standards Australia, Sydney.

Appendix IV - STARS© assessment matrix

The tree is in fair-poor condition and good or low vigour. The tree has form atypical of the species The tree has form atypical of the species The tree is not visible or is partly visible from the surrounding properties or 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 dimensions 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 insappropriate to the site conditions The tree is a nenvironmental pest species due to its invasiveness or poisonous/allergenic properties.
and good or low vigour. The tree has form atypical of the species The tree is not visible or is partly visible from the surrounding properties or 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 dimensions to be protected by local Tree Preservation Orders or similar protection mechanisms and can dansily 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 has form typical or atypical or atypical of the species The tree 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 a young specimen which may or may not have reached dimensions to be protected by local Tree Preservation Orders or similar protection mechanisms and can the potential to become structurally unsound. The tree is 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 has a wound or defect that has the potential to become structurally unsound. The tree is an environmental pest species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecological community or listed as a heritage item, threatened species or part of an endangered ecologi
The tree is a declared noxious weed by legislation

Useful Life Expectancy - Assessment Criteria										
Dead	Short	Medium	Long							
Trees with a high level of risk that would need removing within the next 5 years. Dead trees.	Trees that appear to be retainable with an acceptable level of risk for 5-15 years. Trees that may only live	Trees that appear to be retainable with an acceptable level of risk for 15-40 years. Trees that may only live	Trees that appear to be retainable with an acceptable level of risk for more than 40 years. Structurally sound trees							
Trees that should be removed within the next 5 years. Dying or suppressed or declining trees through disease or inhospitable conditions.	between 5 and 15 more years. Trees that may live for more than 15 years but would be removed to allow the safe development of more suitable individuals.	between 15 and 40 more years. Trees that may live for more than 40 years but would be removed to allow the safe development of more suitable individuals.	located in positions that can accommodate future growth. Storm damaged or defective trees that could be made suitable for retention in the long term by remedial tree surgery.							
Dangerous trees through instability or recent loss of adjacent trees. Dangerous trees through structural defects including cavities, decay, included bark, wounds or poor form. Damaged trees that considered unsafe to retain. Trees that could live for more than 5 years but may be removed to prevent interference with more suitable individuals or to provide space for new planting. Trees that will become dangerous after removal of other trees for the reasons.	Trees that may live for more than 15 years but would be removed during the course of normal management for safety or nuisance reasons. Storm damaged or defective trees that require substantial remedial work to make safe, and are only suitable for retention in the short term.	Trees that may live for more than 40 years but would be removed during the course of normal management for safety or nuisance reasons. Storm damaged or defective trees that require substantial remedial work to make safe, and are only suitable for retention in the short term.	Trees of special significance for historical, commemorative or rarity reasons that would warrant extraordinary efforts to secure their long-term retention.							

	Tree Significance								
		High	Medium		Low				
ctancy	Long >40 years								
Useful Life Expectancy	Medium 15-40 years								
Useful L	Short <1-15 years								
	Dead								

Legend for Matrix Assessment Priority for retention (High): These trees are considered important for retention and should be retained and protected. Design modification or re-location of building/s should be considered to accommodate the setbacks as prescribed by the Australian Standard AS4970 Protection of trees on development sites. Tree sensitive construction measures must be implemented if works are to proceed within the Tree Protection Zone. Consider for retention (Medium): These trees may be retained and protected. These are considered less critical; however, their retention should remain priority with the removal considered only if adversely affecting the proposed building/works and all other alternatives have been considered and exhausted. Consider for removal (Low): These trees are not considered important for retention, nor require special works or design modification to be implemented for their retention, nor require special works or design modification to be implemented for their retention.

Arboricultural Comment

Oxford Falls Grammar School

Version 1

Prepared for:

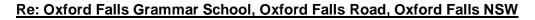
Andrew Graham

EPM Projects Pty Ltd

Level 2, 146 Arthur Street North Sydney NSW 2060

28 November 2018

Dear Andrew.



I refer to our communications in which you advised that you represent Oxford Falls Grammar School.

TREE REPORT

ABN: 30 934 877 525

www.treereport.com.au

I refer to the attached Jemena drawing dated 26 November 2018 that you provided to me that shows the location of an underground 210kPa gas pipe in Dreadnaught Road, Oxford Falls. I also refer to the attached survey drawings that you also provided to me on which you have marked the approximate location of the gas pipe in relation to what you have advised are Port Jackson Fig trees (*Ficus rubiginosa*) that are located on the grounds of Oxford Falls Grammar School being Lot 1 in DP 1046451, adjacent to the above mentioned gas pipe.

You have advised that the school planted the subject trees some years ago but is now concerned that the trees present a risk to the gas pipe. You have request that I advise whether in my opinion, the subject trees pose a risk of damage to the gas pipe.

In the event of whole tree failure (which is possible in severe whether events) the subject trees do pose a risk of damage to the gas pipe. This is because the lifting root plate may pull the gas pipe with it, which would obviously cause significant damage to the gas pipe and in that case potentially also pose a risk to people.

I trust this answers your query.

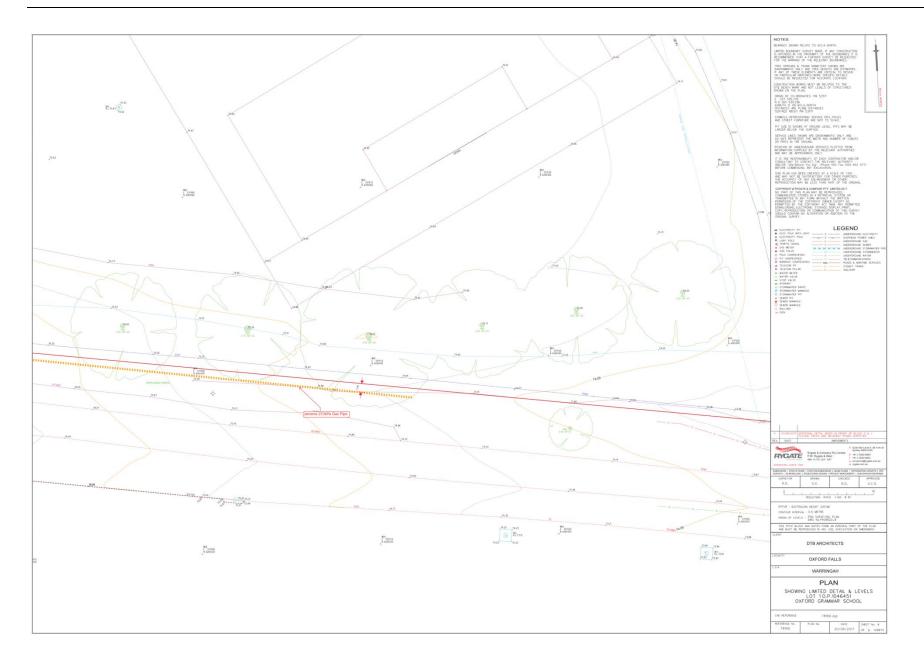
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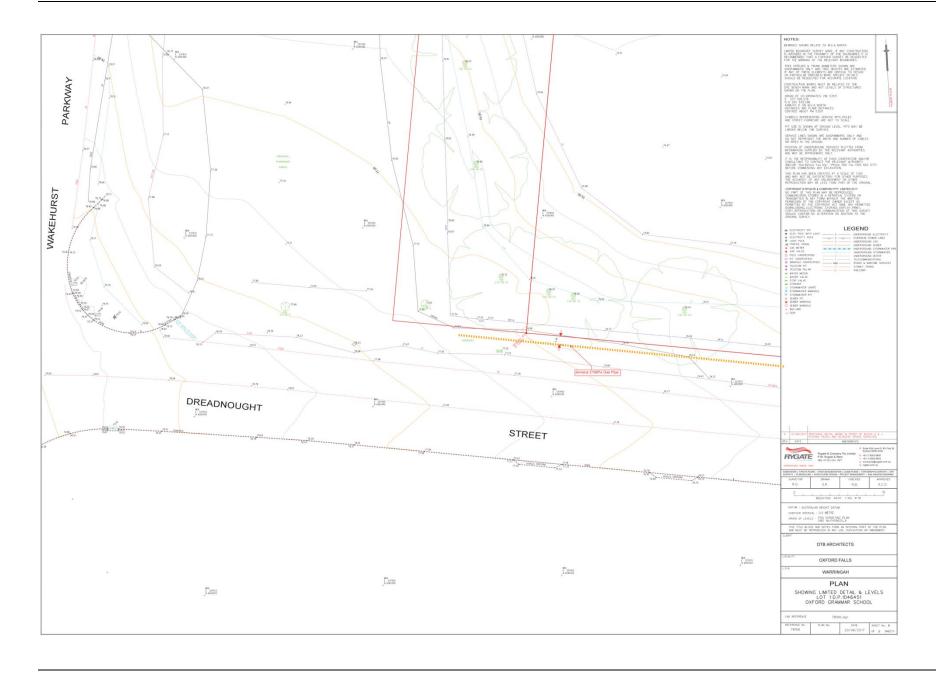
Principle Arboricultural Consultant AQF 5 | AA | QTRA | SRA-ANZ

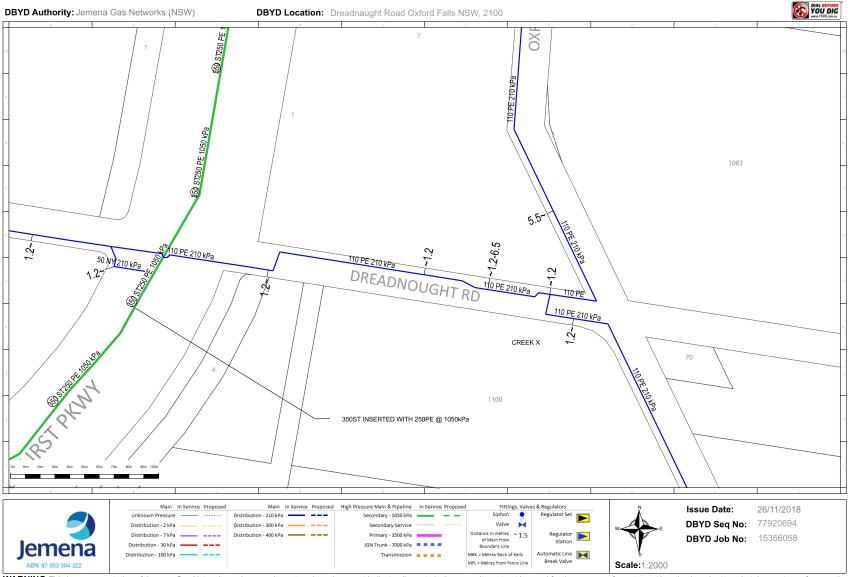
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WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation.

This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions.

The information contained on this plan is only valid for 28 days from the date of issue.

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