

2020-21

Electric Line Clearance Management Plan



Version No	Date Approved	Approved By	Issue Date
1	19/3/2020	Charles Taveira - Manager Infrastructure Services & Planning	31/3/2020
	20/3/2020	Paul Kearsley - Director Business, Engineering and Major Projects	

Contents

Definitions	5
Regulation 9(2) Preparation of a Management Plan.....	6
Regulation 9(3) Preparation of a Management Plan.....	6
(a) Name, address and telephone number of the responsible person.....	6
(b) Name, position, address and telephone number of the individual who was responsible for the preparation of the management plan	6
(c) Name, position, address and telephone number of the persons who are responsible for carrying out the management plan	7
(d) The telephone number of a person who can be contacted in an emergency that requires clearance of an electric line that the responsible person is required to keep clear of trees	7
Business Hours.....	7
After Hours.....	7
(e) The objectives of the management plan.....	8
(f) The land to which the management plan applies by the inclusion of a map	8
(g) The location of areas containing trees which may need to be cut or removed to ensure compliance with the Code and that are:	8
Native	8
Listed in a planning scheme to be of ecological, historical or aesthetic significance	9
Trees of cultural or environmental significance	9
(h) The means which the responsible person is required to use to identify a tree specified in paragraph (g)	10
(i) The management procedures that the responsible person is required to adopt to ensure compliance with the Code, which must:	11
I. Include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code:.....	11
II. Specify the method for determining an additional distance that allows for cable sag and sway.....	13
(j) The procedures to be adopted if it is not practicable to comply with the requirements of AS 4373 while cutting a tree in accordance with the Code.....	13
(k) A description of each alternative compliance mechanism in respect of which the responsible person has applied, or proposed to apply, for approval under clause 31 of the Code. 15	
(l) The details of each approval for an alternative compliance mechanism that:.....	15
I. The responsible person holds.	15
II. Is in effect.	15
(m) A description of the measures that must be used to assess the performance of the responsible person under the management plan.	15

(n) Details of the audit processes that must be used to determine the responsible person's compliance with the Code	16
(o) The qualifications and experience that the responsible person must require of the persons who are to carry out the cutting or removal of trees.....	17
(p) Notification and consultation procedures.....	18
(q) Dispute resolution procedures.	18
Regulation 9(4) A method for determining an additional distance that allows for cable sag and sway may provide for different additional distances to be determined for different parts of a span of an electric line.....	19
Regulation 10 – Obligations relating to Management Plan	19
(7) A responsible person must ensure that a copy of the management plan is:	19
(a) published on the responsible person's Internet site.....	19
(b) Available for inspection at the responsible person's principal office in the State during normal business hours	19
Regulation 11 – Exemptions	19
(2) A responsible person who receives an exemption must ensure that a copy of the exemption is	19
(a) published on the responsible person's Internet site	19
(b) available for inspection at the responsible person's principal office in the State during normal business hours	19
SCHEDULE 1 – CODE OF PRACTICE FOR ELECTRIC LINE CLEARANCE, PART 2 – CLEARANCE RESPONSIBILITIES, DIVISION 1 – ROLES OF RESPONSIBLE PERSONS	20
4 Exception to minimum clearance space for structural branches around insulated low voltage electric lines	20
5 Exception to minimum clearance space for small branches around insulated low voltage electric lines	20
6 Exception to minimum clearance space for structural branches around uninsulated low voltage electric lines in low bushfire risk areas	21
8 Responsible person may cut or remove hazard tree.....	21
9 A responsible person cutting a tree must, as far as practicable cut the tree in accordance with AS4373 as published or amended from time to time.	22
10 Cutting or removal of specified trees must be minimised.....	22
(3)(a) Native trees	22
(3)(b) Trees listed in a planning scheme to be of ecological, historical or aesthetic significance	22
(3)(c) Trees of cultural or environmental significance	23
11 Cutting or removal of habitat for threatened fauna	23
12 Restriction on timing of cutting or removal if notification is required	24
13 Restriction on urgent cutting of trees.....	24
14 Restriction on urgent cutting of trees.....	24

15	Responsible person must provide notification before cutting or removing certain trees	24
16	Responsible person must provide notification before cutting or removing certain trees	24
17	Responsible person must consult with occupier or owner of private property before cutting or removing certain trees.....	25
18	Notification and record keeping requirements for urgent cutting or removal	25
19	Dispute resolution	25
20	Duty relating to the safety of cutting or removal of trees close to an electric line. ..	25
21	Duty relating to assisting to determine the allowance for cable sag and sway.	25
31	Application for approval of alternative compliance mechanism.	25
32	Formal safety assessment of alternative compliance mechanism.	26
Appendices		27
Appendix 1 – Map of City of Greater Dandenong		27
Appendix 2 – Trees of Native, Heritage or Cultural Significance		28
Appendix 2.1 – Native Trees		28
Appendix 2.2 – Heritage Trees and Properties.....		30
Appendix 2.3 – Trees of Cultural Significance		31
Appendix 3 – Applicable distance for middle two thirds of a span of an electric line.....		33
Appendix 4 – Proactive Pruning Program		36
Appendix 4.1 – Cyclic Pruning Program		36
Appendix 4.2 –Streets that require annual inspection around powerlines.....		37
Appendix 5 – Example of Cyclic Pruning Block Audit Forms.....		40
Appendix 6 – Species Planted under Powerlines as per Urban Tree Strategy		40
Appendix 7 – Training Matrix		41
Appendix 8 – Public Works Notification		43
Appendix 8.1 Example of letter to residents notifying of cyclic pruning works.....		43
Appendix 8.2 Example of public notice of cyclic pruning works.		44

Definitions

CFA – Country Fire Authority

Code – Code of Practice for Electric Line Clearance as defined in the Schedule of the Electricity Safety (Electric Line Clearance) Regulations 2015.

Conductor – Overhead powerline.

declared area – The area of the municipality where vegetation management around powerlines is the responsibility of City of Greater Dandenong.

DELWP - [Department of Environment, Land, Water and Planning](#)

ESV – Energy Safe Victoria

HV – High voltage (22,000volts – 66,000 volts.)

LBRA – Low Bushfire Risk Area - An area that a fire control authority has assigned a fire hazard rating of “low” under section 80 of the Act; or an urban area.

HBRA – High Bushfire Risk Area - An area that a fire control authority has assigned a fire hazard rating of “high” under section 80 of the Act

LV – Low voltage (240volts.)

Plan – City of Greater Dandenong Electric Line Clearance Management Plan

Regulations - Electricity Safety (Electric Line Clearance) Regulations 2015.

Suitably qualified arborist – an arborist who holds a minimum of Certificate IV Arboriculture, Assess trees module and 3 years experience.

The Act – Electricity Safety Act 1998

Regulation 9(2) Preparation of a Management Plan

The following sections are in response to Regulation 9(2) – Preparation of a Management Plan, Part 2 of the Electricity Safety (Electric Line Clearance) Regulations 2015.

City of Greater Dandenong, Manager Infrastructure Services & Planning and Senior Arborist or delegated authority will review and amend the Plan annually. The amended document will be submitted to the Director Engineering Services for review and authorisation prior to the 31st March each year.

Preparation of this document is scheduled in the Parks Unit calendar for the first week in March every year. The preparation of this document will include a review of all processes and procedures and their effectiveness in meeting the plan objectives.

The new document will be submitted to the Director Engineering Services for review and authorisation prior to the 31st March each year. The superseded document will be removed from circulation on 30 June of each year and replaced with the new approved document.

City of Greater Dandenong, Senior Arborist will submit to Energy Safe Victoria the Plan within 14 days of a request.

Regulation 9(3) Preparation of a Management Plan

The following sections are as per Regulation 9(3) of the Electricity Safety (Electric Line Clearance) Regulations 2015

(a) Name, address and telephone number of the responsible person

Name: City of Greater Dandenong
Address: 225 Lonsdale Street, Dandenong VIC 3175
Telephone No: 03 8571 5100
Facsimile No: 03 8571 9620
Name of Chief Executive Officer: John Bennie

(b) Name, position, address and telephone number of the individual who was responsible for the preparation of the management plan

Name: Paul Kearsley
Position: Director Business, Engineering and Major Projects
Address: 225 Lonsdale Street, Dandenong VIC 3175
Telephone No: 03 8571 1571
Email Address: council@cgd.vic.gov.au

(c) Name, position, address and telephone number of the persons who are responsible for carrying out the management plan

Name: Charles Taveira
Position: Manager Infrastructure Services & Planning
Address: 225 Lonsdale Street, Dandenong VIC 3175
Telephone No: 03 8571 5310
Email Address: Charles.Taveira@cgd.vic.gov.au

And

Name: Philip Robertson
Position: Service Unit Leader Parks & Waste
Address: 20 Bennet Street, Dandenong 3175
Telephone No: 03 8571 1769
Email Address: phil.robertson@cgd.vic.gov.au

And

Name: Cameron MacLeod
Position: Senior Arborist
Address: 20 Bennet Street, Dandenong 3175
Telephone No: 03 8571 1780
Email Address: cmacle@cgd.vic.gov.au

(d) The telephone number of a person who can be contacted in an emergency that requires clearance of an electric line that the responsible person is required to keep clear of trees

Business Hours

Name: Council Customer Service

Emergency Telephone No: 03 8751 5100

After Hours

Name: Council after Hours Service

Emergency Telephone No: 03 8751 5100

(e) The objectives of the management plan

- To maintain public and electrical safety.
 - To comply with the Regulations and Code, whilst protecting areas of important vegetation as identified in the Plan.
 - To minimise fire starts that may occur due to contact between vegetation and the electricity network.
 - To assist in the provision of reliable electrical supply.
 - To provide a safe working place for employees and Contractors.
 - To manage vegetation in a manner that maximises the amenity and environmental benefits.
 - To protect areas of important vegetation which may be deemed as such on the basis of those areas listed in a planning scheme to be of ecological, historical or aesthetic significance or trees of cultural or environmental significance.
 - To maintain community satisfaction with the manner in which the necessary works are carried out.
 - To continuously improve the Plan and its implementation through the use of measurable KPI's as defined in Clause 9(3)(m)
-

(f) The land to which the management plan applies by the inclusion of a map

The City of Greater Dandenong municipality is in the south-eastern suburbs of metropolitan Melbourne and encompasses approximately 130 square kilometres. The Plan applies to the declared areas of municipality, with the north of the municipality being designated a declared area and the south designated a non-declared area. (*Appendix 1 – Map of City of Greater Dandenong*). Vegetation in the non-declared areas is managed by United Energy.

Maps of the declared areas are contained in *Appendix 1 – Map of City of Greater Dandenong*.

The City of Greater Dandenong's declared areas contain spans of both low and high voltage conductors.

The Bushfire Risk Area Boundary information is reviewed in consultation with the CFA. This process occurs every 12 months with the preparation of the Plan.

(g) The location of areas containing trees which may need to be cut or removed to ensure compliance with the Code and that are:

Native

For the purpose of this Plan the City of Greater Dandenong considers trees indigenous to the area as native. A list of species can be found at *Appendix 2.1 – Native Trees*.

The City of Greater Dandenong maintains a tree inventory that identifies the location and species of each tree. To ensure the trees are identified correctly the City of Greater Dandenong utilises suitably qualified arborists for inspections who are able to identify the relevant species.

The City of Greater Dandenong has a Vegetation Protection Overlay (VPO 42.02) that requires a permit to remove, destroy or lop native vegetation in the Greater Dandenong Green Wedge (*Appendix 2.1.2 – Vegetation Protection Overlay Area*). The Greater Dandenong Green Wedge is located in the non-declared area of the municipality. Vegetation clearance around powerlines in this area is the responsibility of the Network Operator, United Energy.

A permit exemption for VPO 42.02 is listed for any action which is necessary to maintain the minimum extent necessary to maintain utility services for the transmission of water, sewage, gas, electricity, electronic communications of the like, provided that the removal, destruction or lopping is with the written consent of the responsible authority.

Information on VPO 42.02 can be found at http://planning-schemes.delwp.vic.gov.au/schemes/greaterdandenong/ordinance/42_02s01_gdan.pdf

Listed in a planning scheme to be of ecological, historical or aesthetic significance

The Planning Scheme within the City of Greater Dandenong Planning Scheme lists 35 sites where tree controls apply and a permit is required to remove, destroy or lop a tree. The list of trees/sites managed by Council in the declared area is contained in *Appendix 2.2 – Heritage Trees and Properties*. This is for Council managed trees in the declared area only.

A Heritage Overlay permit exemption is listed for any action which is necessary to keep the whole or any part of a tree clear of an electric line provided the action is carried out in accordance with a code of practice prepared under Section 86 of the Act.

Trees of cultural or environmental significance

At present the City of Greater Dandenong is not aware of any threatened flora or fauna which may be affected by the implementation of this Plan. If any such situations are identified, they will be reviewed and listed in future issues of the plan.

The City of Greater Dandenong is aware of 77 Scar trees located in the Greater Dandenong Green Wedge (*Appendix 2.3.1 – Trees listed on Aboriginal Heritage Register*). The City of Greater Dandenong is currently applying to the Victorian Aboriginal Register for a complete list of trees located in the municipality.

The City of Greater Dandenong maintains a list of Significant Trees (*Appendix 2.3.2 Trees listed on Significant Tree Register*) that have been nominated by the community as being of cultural significance to the Greater Dandenong community.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(h) The means which the responsible person is required to use to identify a tree specified in paragraph (g)

The responsible person should consult:

Table 1 - Contacts for consultation

Location of:	Organisation	Method
Native trees	The City of Greater Dandenong	Refer to <i>Appendix 2.1 – Native Trees</i>
Native trees	DELWP	Refer to <i>Appendix 2.1.2 – Vegetation Protection Overlay Area</i> https://www.environment.vic.gov.au/native-vegetation/native-vegetation
Heritage Trees	The City of Greater Dandenong	Refer to <i>Appendix 2.2 – Heritage Trees and Properties</i>
Planning scheme	DELWP	http://planning-schemes.delwp.vic.gov.au/schemes/greaterdandenong
Planning scheme / Cultural	The Victorian Heritage Database	http://vhd.heritage.vic.gov.au/vhd/heritagevic
Cultural	Victorian Aboriginal Heritage Register	http://www.vic.gov.au/aboriginalvictoria/heritage/heritage-tools-and-publications/victorian-aboriginal-heritage-register.html
Threatened Vertebrate and invertebrate fauna	DELWP	https://www.environment.vic.gov.au/_data/assets/pdf_file/0019/50239/2017-06-FFG-Threatened-List.pdf

The City of Greater Dandenong will also seek specialist advice (where necessary) to determine if any species (or habitat thereof) or communities on the threatened flora or fauna advisory lists or listed under the Flora and Fauna Guarantee Act 1998 are endangered by works to prune or remove trees.

The City of Greater Dandenong will inform employees, contractors, and other agencies involved in electrical line clearance works, of the location of trees within the municipality that are known to have ecological, historic, aesthetic, cultural or environmental significance. A copy of the Plan and this information will be provided annually.

The City of Greater Dandenong will also continue to work with relevant agencies to ensure the aesthetics and viability of significant trees are not compromised by line clearance works.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(i) The management procedures that the responsible person is required to adopt to ensure compliance with the Code, which must:

- I. Include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code:**

The City of Greater Dandenong has an estimated 55,200 street trees, with an estimated 24,700 near power lines. Of the trees near power lines, an estimated 24,000 trees are in declared areas and may require clearance pruning.

The City of Greater Dandenong manages the trees through a combination of a proactive program, reactive maintenance works and proactive tree removals.

The Proactive Program is a biennial program and inspects all trees in the City of Greater Dandenong's declared areas.

The City of Greater Dandenong is divided into 14 blocks, with each block being completed within two months (*Appendix 4.1 – Cyclic Pruning Program*)

In addition, streets that have been identified as having large established trees which exhibit strong growth rates and are within close vicinity to high voltage power lines will be included in a proactive annual prune (*Appendix 4.2 – Streets that require annual inspection around powerlines*).

As the City of Greater Dandenong declared areas contain HBRA areas the proactive inspections in HBRA areas are completed by 30 September of each year, with works completed prior to 30 October or the declaration of Bushfire season of each year.

- All trees under or adjacent to power lines are to be inspected as part of the proactive pruning cycle.
- All inspections are to be completed by a suitably qualified arborist.
- Works identified during inspection are completed within 30 days.
- Where pruning is required, the extent of pruning will maintain minimum clearances and provide additional clearance as necessary to prevent regrowth from entering the clearance space between pruning cycles and manage the sag and sway of electrical conductors for spans great than 45 meters in length.
- Works are initially focussed on achieving High Voltage clearances and additional contractor resources will be engaged to undertake live line pruning where required.
- Each tree within the zone program is inspected and pruned at a frequency where regrowth can be easily maintained, therefore it is unnecessary to record regrowth data.
- All works and condition assessments are recorded in the City of Greater Dandenong asset data base tree inventory.
- A quality audit of all trees is undertaken by a Council officer for each completed block to ensure compliance with the Electric Safety (Electric Line Clearance) Regulations 2015 and AS 4373-2007
- The completion audit includes assessing an allowance for regrowth for the length of the pruning cycle.
- Non-compliant trees in HBRA non-declared areas will be identified and forwarded to the Network Operator's vegetation management contractor

Reactive maintenance works occur where trees are identified as being non-compliant outside the normal maintenance regime, these trees can be reported to Council customer service 03 8751 5100, and then referred to the Senior Arborist or delegated officer for assessment of work requirements and allocation to Councils current contractor.

- Non-urgent reactive works are to be completed within thirty (30) business days of the works being allocated, unless another timeframe is determined by the Senior Arborist at the time of allocation.
- In situations of high priority, the primary aim is to respond within one (1) hour and make the site safe within one hour or twenty-four (24) hours of notification depending on the situation. Additional works will be scheduled as required.
- All works are recorded in the City of Greater Dandenong's document management system.
- Trees will be pruned to the minimum clearances outlined in the Electric Safety (Electric Line Clearance) Regulations 2015. All pruning should conform to AS 4373-2007 – Pruning of Amenity Trees as far as practicable. If this is not possible the tree shall be referred to the Senior Arborist for alternative management solutions as per Section 9(3)(j) of the Plan.

Proactive tree removals of unsuitable tree species will occur when a suitably qualified and experienced Arborist has determined a tree cannot be managed to comply with the Code, is not eligible for an exemption and the appropriate tree removal protocols have been applied. The process involves:

- In-house staff or contractor identifies a tree that cannot be managed by pruning,
- The Senior Arborist or delegated arboricultural officer inspects the tree to confirm
 - The tree cannot be managed through pruning,
 - Is not eligible for an exception, and
 - Does not meet the criteria for engineering solutions.
- An assessment recommending removal is provided to the Senior Arborist for approval.
- Community consultation is undertaken regarding the removal of the tree.
- Works are programmed as per the reactive works process.
- Removal of tree and stump completed within thirty (30) business days or in accordance with timelines required by Network Operator if a shutdown is required for safety.
- Actions recorded in the document management system
- If the site location is suitable and public consultation completed, tree replacement is programmed for the following year.
- Formative pruning to assist with maintaining clearances conducted during establishment period.
- Inspect and prune in accordance with Plan

Tree Planting will be undertaken near powerlines if the site location is appropriate. Tree species to be planted will be selected in accordance with the City of Greater Dandenong's urban tree strategy. The strategy stipulates that small to medium sized trees (*Appendix 6 – Species Planted under Powerlines as per Urban Tree Strategy*) will be planted under powerlines to minimise future conflicts with powerlines and ensure code compliance.

The Senior Arborist will consult with adjoining Councils, relevant Network Operator's (United Energy) and other key stakeholders as required to facilitate compliance with the Code.

Network Operators are responsible for organising regular meetings that the Senior Arborist or a delegated officer will attend.

II. Specify the method for determining an additional distance that allows for cable sag and sway.

Minimum clearances for sag and sway for spans below 100m in length will be maintained in compliance with the distances in the clearance graphs in Schedule 2 of the Code. Graphs 1, 2, 3 and 4 of Schedule 2 of the Regulations will inform allowance for sag and sway in LBRA areas and graphs 5 and 6 will inform allowance for sag and sway in HBRA areas to confirm requirements (

Appendix 3 – Applicable distance for middle two thirds of a span of an electric line).

For spans greater than 100m in length in LBRA or greater than 45m length in HBRA the City of Greater Dandenong will contact the Network Operator, United Energy, to provide the required clearance distance to allow for sag and sway. This information will be recorded against the affected tree, and be available to operators in the field via tablets, for a minimum of five years.

- The City of Greater Dandenong does not currently have information relating to the distance between poles, the location of any spans greater than 100m in length and the sag and sway clearances required for any spans greater than 100m in length. The City of Greater Dandenong is currently liaising with United Energy, to access this data.
- As this information is obtained the clearance requirement will be recorded in the City of Greater Dandenong document management system and used to inform management practices.

(j) The procedures to be adopted if it is not practicable to comply with the requirements of AS 4373 while cutting a tree in accordance with the Code.

The City of Greater Dandenong requires all staff and contractors pruning trees within the municipality to comply with AS4373 Pruning of Amenity Trees (AS4373) as far as is reasonably practicable.

Reasonably practicably in relation to AS4373 means that which is, or was at a particular time, reasonably able to be done in relation to ensuring continued tree health and future tree safety, taking into account and weighing up all relevant matters including:

- Will the action create a defect, hazard, loss of tree health or aesthetic value in the present or future?
- What will the impact be on the tree or future safety of the public,
- What the person concerned knows, or ought reasonably to know about:
 - The hazard or the risk – must have adequate knowledge to determine the hazards risks,
 - Ways of eliminating or minimising the risk – must have adequate knowledge in relation to alternative measures,
- Are other resources or techniques available to complete works to the standard, and

- does the cost required to complete works to the standard grossly outweigh the value of the tree?

Where pruning to AS4373 is not practicable the site or trees are to be referred to the Senior Arborist or a delegated Council Officer who holds a Certificate Level V or above in Arboriculture to make an assessment on whether or not it is reasonably practicable to deviate from AS4373.

The City of Greater Dandenong ensures contractors are appropriately trained and aware of the principles of AS4373, and what is reasonably practicable, by:

- Referencing the standard in its internal guidelines,
- Referencing the standard in tender documents for contractors,
- Including the City of Greater Dandenong's definition of 'reasonably practicable' in contractor induction.
- Ensuring contractors undertaking electric line clearance work have, at a minimum:
 - Certificate Level III in Horticulture and Arboriculture,
 - Certificate Level II in ESI – Power line Vegetation Control, and
 - 3 years industry experience that demonstrates understanding of AS 4373 (See *Appendix 7.1 – Training Matrix*).

Where pruning to achieve clearance will not allow compliance with AS4373, the City of Greater Dandenong may elect to:

- Increase the pruning frequency to minimise the required pruning,
- List the tree for an exception,
- Remove scaffold/ parent limbs,
- Investigate the potential for engineering solutions to facilitate compliance or an exemption, or
- Remove trees where the tree is of low retention value or the resulting pruning would leave trees unsuitable for retention.

The decision will be guided by costing of the options in terms of tree value, works cost and the surrounding environment of the tree.

Where street trees are to be removed the resident adjacent the property will be notified in writing that the removal will occur within 30 days.

Where significant reserve trees are to be removed all residents with a view of the tree will be notified in writing that the removal will occur within 30 days, additional notice boards will be erected within the reserve.

The process for selection of appropriate plant and equipment involves the following considerations:

- Access to site,
- Voltage of overhead conductors - equipment suitably insulated and tested,
- Proximity of vegetation to conductors,
- Configuration of equipment,
- Reach/ height of equipment, and
- Cutting tools proportional to material to be cut.

Once each of these points has been considered, the best fit for the task should be selected. Availability may also be a defining factor, where the best fit is not available other options may be considered, however must still be able to achieve acceptable pruning standards in a safe manner.

The City of Greater Dandenong conducts audits of the proactive program to ensure compliance with AS4373 - 2007 and electric line clearance regulations (*Appendix 5 – Example of Cyclic Pruning Block Audit Forms*).

- Audits are conducted within fourteen (14) days of zone completion and assesses 100% of streets within each zone,
- Quality of cuts, appropriateness of pruning, clearance requirements and post site clean-up are reviewed,
- Feedback via the audit results is provided to contractors,
- Any non-compliance identified through the post work audit process is reported to the Senior Arborist within thirty (30) days of identification, and
- Remedial pruning will be required within thirty (30) days of identification to achieve conformance.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(k) A description of each alternative compliance mechanism in respect of which the responsible person has applied, or proposed to apply, for approval under clause 31 of the Code.

The City of Greater Dandenong has not applied for and currently does not plan to apply for any alternative compliance mechanism under clause 31 of the Code.

(l) The details of each approval for an alternative compliance mechanism that:

I. The responsible person holds.

Not applicable

II. Is in effect.

Not applicable

(m) A description of the measures that must be used to assess the performance of the responsible person under the management plan.

The City of Greater Dandenong and the Senior Arborist have defined Key Performance Indicators (KPIs) to assist in measuring the implementation of the Plan:

- Preparation of the Electric Line Clearance Management Plan prior to the 31st March of each year,
- Completion of the Proactive Program for pruning as per schedule,
- Completion of twelve (12) audits of reactive works contractor and seven (7) audits of cyclic contractor per annum,
- A minimum 95% compliance for in zone audits,
- 100% of non-compliance rectified within 30 business days of notification,
- All hazards identified in contractor OHS inspections addressed within required timeline

- Respond to all pruning requests from the Network Operator within the required timeline,
- Reduction in the number of Customer Service Requests received for electric line clearance, and
- No emergency clearances.

Key Performance Indicators are monitored via:

- Mapping the inspection and pruning program against the zone maintenance progress,
- mobile work site safety audits
- Post works auditing,
- Monitoring levels of customer requests relating to powerlines,
- Compliance results from the Network Operator's (when supplied), and
- Reporting through document management system and Position Description key performance indicators.

Results are reported via:

- Internal team meetings,
- Monthly contract meetings, and
- Monthly reports submitted to Management

Reporting of KPI's is used to aid in:

- issuing of reworks where required,
- individual performance management for internal staff,
- Development of procedures and processes,
- Development of pruning programs and Contract Specification, and
- Selection of suitable tree species for planting near powerlines.

(n) Details of the audit processes that must be used to determine the responsible person's compliance with the Code

The Senior Arborist is responsible for a number of audits to verify compliance with the Code. These include:

- A quality audit is undertaken by the Senior Arborist or delegated Council Officer who is a suitably qualified arborist for each completed declared area to ensure compliance with:
 - the Electric Safety (Electric Line Clearance) Regulations 2015, and
 - quality of arboricultural works and compliance with AS 4373 Pruning of Amenity Trees.
- A minimum of 1 Safety Audit per block is undertaken randomly on site by the Senior Arborist, Inspecting Arborist and delegated Council Officers to ensure correct OH&S and traffic/pedestrian control are undertaken as well as appropriate controls are in place for powerline tree trimming.
- Pre-works site checks are carried out and documented for record keeping by all Council staff and contractors.
- The competency and qualification of personnel of Electric Line Clearance workers is required by contract and reported on via monthly contract meetings.

Once identified non-compliance is reported to the Senior Arborist and rectified within thirty (30) working days. Confirmation of rectification is to be provided in writing to the Senior Arborist and included in the monthly contract report. Contractors are required to provide a report in response to the non-compliance identifying the cause for non-compliance and actions that will mitigate the cause in future works.

Results of audits are reported via:

- internal team meetings, and
- monthly contract meetings.

Audit results and resulting communications are stored in The City of Greater Dandenong's document management system.

(o) The qualifications and experience that the responsible person must require of the persons who are to carry out the cutting or removal of trees

When staff and contractors are undertaking electric line clearance works for the City of Greater Dandenong they are working as authorised persons as outlined in the Electricity Safety (Installations) Regulations 2009 r. 318 and r. 319.

The City of Greater Dandenong will ensure that all staff and contractors working as authorised persons will conform to:

- Electricity Safety (Installations) Regulations 2009 r. 318 and r. 319,
- Australian Standard AS4373-2007 – Pruning of Amenity Trees,
- The “Blue Book”, and
- Any organisational procedures, safe work method statements and Job Safety Assessments to ensure the work can be completed safely.

The City of Greater Dandenong will ensure that all staff and contractors:

- are trained both initially and when refresher courses are required by a Registered Training Organisation (RTO)
- performing tree pruning and removal works around electric lines are suitably qualified and trained personnel who hold the following qualifications:
 - Arborist / Grounds Person
 - Certificate II - ESI in Powerline Vegetation Control, and
 - Minimum Certificate III Horticulture / Arboriculture.
 - Arboricultural Inspector
 - Minimum Certificate IV Horticulture / Arboriculture, including
 - the nationally accredited ‘Assess’ and ‘Identify’ modules, and
 - 3 years industry experience.

The Certificate III Horticulture/Arboriculture and Certificate II ESI cover many aspects of required training such as Chainsaw use, OH&S principles, First Aid, pruning techniques and High-Risk licences. Additional staff may be required to hold training in;

- Traffic management,
- Chipper operation/induction,
- Chemical application (A.C.U.P or similar), or
- Tree Climbing

A register of employee training is maintained on personnel files by the City of Greater Dandenong to ensure all staff have appropriate and current qualifications. (Appendix 7.1 – Training Matrix).

All contractors are required to provide evidence of appropriate qualifications and training prior to the commencement of work and report on updates to training via monthly and annual reports. All records are stored in the City of Greater Dandenong document management system.

To ensure staff are aware of site and employee requirements new staff and contractors are subject to both internal & external induction processes and specific task related site safety assessments.

Any staff or contractor found on site without appropriate qualifications, training or experience to be excluded from the site immediately

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(p) Notification and consultation procedures.

Covered in schedules 15, 16, 17 and 18 of the Code

(q) Dispute resolution procedures.

If a dispute arises during the process of consultation/negotiation between affected landowners and the Council, regarding proposed clearing/pruning/alternative construction activities the complaint shall be resolved at the lowest management level possible. If resolution is not possible the complaint shall be escalated to the next level of management. The preferred process of escalation is:

- Senior Arborist,
- Team Leader Bushland & Garden Services,
- Service Unit Leader Parks & Waste,
- Manager Infrastructure Services & Planning,
- Director Engineering Services,
- Chief Executive Officer, then
- Energy and Water Ombudsman Victoria

The person responsible for resolving official disputes between Council and members of the public relating to the issues discussed in the Plan is:

Name: Cameron MacLeod
Title: Senior Arborist
Telephone No: 03 8571 1780
Email: cmacle@cgd.vic.gov.au

If the dispute cannot be resolved directly with Council the person making the complaint will be referred to the Dispute Settlement Centre of Victoria (03) 96038370.

The procedure is specific to the Plan and will be available as part of the Plan and will be available for inspection as part of the Plan at the Council Offices and on Councils website as per Clause 10(7)

Regulation 9(4) A method for determining an additional distance that allows for cable sag and sway may provide for different additional distances to be determined for different parts of a span of an electric line.

Covered under regulation 9(3)(i)(ii)

Regulation 10 – Obligations relating to Management Plan

(7) A responsible person must ensure that a copy of the management plan is:

(a) published on the responsible person's Internet site

A copy of the City of Greater Dandenong Electric Line Clearance Management Plan will be published on Councils website at <http://www.greaterdandenong.com/document/23514/trees>

The Senior Arborist will ensure the Plan will be updated on the website each year as per the following process:

- Draft of the new plan completed by 1st March,
 - Draft sent to the Director Engineering Services and Manager Infrastructure Services & Planning for review by 10th March,
 - Amendments made as required,
 - Send amended plan to the Director Engineering Services for approval, and
 - After plan is approved liaise with Communications Department to remove superseded Plan and publish new Plan to website and Council Offices by 30 June.
-

(b) Available for inspection at the responsible person's principal office in the State during normal business hours

A copy of the City of Greater Dandenong Electric Line Clearance Management Plan will be available for viewing by the public at the Council Offices, at both 225 Lonsdale Street and 20 Bennett Street, Dandenong between the hours of 8am – 4pm.

To ensure that the most up to date copy is available, the following controls are put in place.

1. After Director Engineering Services approves publication of the Plan, all existing hard copies are destroyed, and
 2. A hard copy of the new plan is then created and lodged with Customer Service by June 30.
-

Regulation 11 – Exemptions

(2) A responsible person who receives an exemption must ensure that a copy of the exemption is

(a) published on the responsible person's Internet site

The City of Greater Dandenong does not have an active exemption at this time.

(b) available for inspection at the responsible person's principal office in the State during normal business hours

The City of Greater Dandenong does not have an active exemption at this time.

SCHEDULE 1 – CODE OF PRACTICE FOR ELECTRIC LINE CLEARANCE, PART 2 – CLEARANCE RESPONSIBILITIES, DIVISION 1 – ROLES OF RESPONSIBLE PERSONS

4 Exception to minimum clearance space for structural branches around insulated low voltage electric lines

The City of Greater Dandenong is in the process of identifying trees that meet the requirements for an exception as outlined in Part 2, Division 1, Clause 4(2) of Schedule 1 of the Code.

The process for exception to minimum clearance space for structural branches around insulated low voltage electric lines is

- A tree is identified that has structural branches within the clearance zone
- A suitably qualified Arborist determines that:
 - the branch is greater than 130mm in diameter when it enters the minimum clearance space,
 - the branch is more than 300mm from the line,
 - the line is an insulated, low voltage cable, and
 - the branch does not have a visible structural defect that may cause the branch to fail and make contact with the electric line.
- A risk assessment of the tree and branch is undertaken in accordance with The City of Greater Dandenong Risk Methodology.
- Any risks identified are mitigated.
- The Arborist:
 - registers in the tree data base, and
 - ensures the tree is noted in the annual proactive risk inspection program.

The process is managed by the Senior Arborist and all records are retained by the City of Greater Dandenong for a minimum of five years.

5 Exception to minimum clearance space for small branches around insulated low voltage electric lines

The City of Greater Dandenong is in the process of identifying trees that meet the requirements for an exception as outlined in Part 2, Division 1, Clause 5 of Schedule 1 of the Code.

The process for exception to minimum clearance space for small branches around insulated low voltage electric lines is

- A tree is identified that has structural branches within the clearance zone
- An Arborist determines that:

- a branch is less than 10mm in diameter when it enters the minimum clearance space,
- the line is an insulated, low voltage cable, and
- Council's database confirms that the branch has been removed from the minimum clearance space within the last twelve months.

The process is managed by the Senior Arborist and all records are retained by the City of Greater Dandenong for a minimum of five years.

6 Exception to minimum clearance space for structural branches around uninsulated low voltage electric lines in low bushfire risk areas

The City of Greater Dandenong is in the process of identifying trees that meet the requirements for an exception as outlined in Part 2, Division 1, Clause 6 of Schedule 1 of the Code.

The process for exception to minimum clearance space for structural branches around uninsulated low voltage electric lines in LBRA is

- A tree is identified that has structural branches within the clearance zone
- A suitably qualified Arborist determines that:
 - the branch is greater than 130mm in diameter when it enters the minimum clearance space,
 - the branch enters the clearance space by no more than 500mm,
 - the branch does not have a visible structural defect that cause the branch to fail and make contact with the electric line.,
 - the line is an uninsulated, low voltage cable, and
 - the branch is located in the first or last sixth of the span, or
 - the span is 45m or less in length and is fitted with one spreader, or
 - the span is greater than 45m in length and is fitted with two spreaders.
- A risk assessment of the tree and branch is undertaken in accordance with The City of Greater Dandenong Risk Methodology.
- Any risks identified are mitigated.
- The Arborist:
 - registers in the tree data base, and
 - ensures the tree is noted in the annual proactive risk inspection program.

The process is managed by the Senior Arborist and all records are retained by the City of Greater Dandenong for a minimum of five years.

8 Responsible persons may cut or remove hazard tree

If a Council employee or contractor identifies a tree as likely to fall onto or otherwise come into contact with an electric line or has regrowth that will enter the clearance space before the next scheduled visit the tree may be pruned or removed provided that:

- The tree has been assessed by a suitably qualified arborist who must consider:
 - the likelihood of contact with electric line,
 - tree health, defects, size of failure, target potential

- Whether the tree qualifies for an exception to the minimum clearance space as per Clause 4, 5 and 6 of the Code.
 - local environmental and safety factors, as per current Job Safety Analysis requirements,
 - history and significance of the tree, and
 - the presence of habitat or fauna
- the assessment is recorded on the tree data base,
- works are undertaken with regard to Regulation 9(2)(i) and Regulation 9(2)(j) of the Plan, and
- affected persons are notified as per the City of Greater Dandenong's adopted practice.

As the asset owner of the trees covered under this plan, the City of Greater Dandenong reserves the right to prune further than 1 metre from the minimum clearance space or remove hazard trees where they cannot be made safe or be retained as useful assets.

9 A responsible person cutting a tree must, as far as practicable cut the tree in accordance with AS4373 as published or amended from time to time.

Covered in regulation 9(3)(i)

10 Cutting or removal of specified trees must be minimised

The City of Greater Dandenong provides contractors and staff with a list of trees designated as having native, cultural or environmental significance or that are listed within a planning scheme within the municipality.

(3)(a) Native trees

The City of Greater Dandenong has a mix of exotic and native tree species. Native trees are spread throughout the municipality.

There are indigenous tree species that may need to be cut or removed to ensure compliance with the 2015 Regulations (*Appendix 2.1 – Native Trees*).

Pruning works to maintain compliance with the provisions of the Electrical Safety Act 1998 or future revisions in declared areas are exempt from permit requirements of overlays of the City of Greater Dandenong Planning Scheme.

Pruning works governed by VPO 01, that are required to maintain compliance with the provisions of the Electrical Safety Act 1998 or future revisions, require written consent from Council under the City of Greater Dandenong Planning Scheme.

All tree works conducted on Council owned and managed trees is required to be carried out by suitably qualified and experience arboricultural staff and to meet the minimum standard required to comply with the Plan, as detailed in Clause's 9(3)(h), (i), and (j) of the Code.

If the removal of any tree identified under Regulation 9(3)(g) is required, an inspection and advice from will be provided by a suitably qualified arborist prior to removal.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(3)(b) Trees listed in a planning scheme to be of ecological, historical or aesthetic significance

Any works undertaken in relation to Council trees contained within any of the overlays of the City of Greater Dandenong Planning Scheme to maintain compliance to the extent practicable with the provisions of the Electrical Safety Act 1998 or future revisions are exempt from permit requirements.

All tree works conducted on Council owned and managed trees is required to be carried out by suitably qualified and experience arboricultural staff and to meet the minimum standard required to comply with the Plan, as detailed in Clause's 9(3)(h), (i), and (j) of the Code.

If the removal of any tree identified under Regulation 9(3)(g) is required, an inspection and advice from will be provided by a suitably qualified arborist prior to removal.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

(3)(c) Trees of cultural or environmental significance

The City of Greater Dandenong has a number of sites with trees designated as having cultural significance via the Aboriginal Heritage Register or the City of Greater Dandenong's Significant Tree Register (*Appendix 2.3.2 Trees listed on Significant Tree Register*). No trees within the city have been identified as having environmental significance.

All tree works conducted on Council owned and managed trees are required to be carried out by suitably qualified and experience arboricultural staff and to meet the minimum standard required to comply with the Plan, as detailed in Clause's 9(3)(h), (i), and (j) of the Code.

If the removal of any tree identified under Regulation 9(3)(g) is required, an inspection and advice from will be provided by a suitably qualified arborist prior to removal.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

11 Cutting or removal of habitat for threatened fauna

As per regulation 9(3)(iii) of the Plan the City of Greater Dandenong is not currently aware of any threatened fauna which may be affected by the implementation of this plan. Should threatened fauna be identified, the following process shall be followed:

- Location of threatened fauna and associated habitat mapped and tree maintenance and inspection teams notified,
- Tree assessment conducted by a suitably qualified arborist and results recorded in tree data base. The assessment:
 - considers tree health, structure and potential risk,
 - considers the history, location and foreseeable local conditions, and
 - aims to identify if the fauna using the tree is a threatened species.
- Once identified the breeding season for the fauna using the tree will be determined. Resources such as <http://www.delwp.vic.gov.au/environment-and-wildlife/arthur-rylah-institute/threatened-species-and-communities> or

http://www.swifft.net.au/cb_pages/bio-calendar.php may be used in the first instance,

- Specialist advice may be sought to identify fauna, determine breeding season if required or to translocate fauna,
- Assessment results and information regarding management of the fauna will be referred to the Senior Arborist for approval prior to commencing works,
- Where practicable works will be undertaken outside the breeding season,
- The tree pruned to habitat until breeding season is complete, or
- Relocation of the fauna can be considered to make safe an unsafe situation as identified in Clause 8, or if it is not practical to undertake works outside of the breeding season.

As part of the preparation for the Plan, the City of Greater Dandenong will consult with all relevant bodies and standards to ensure all organisational procedures are current.

12 Restriction on timing of cutting or removal if notification is required

Covered in Clause 15 and 16 of the Code.

13 Restriction on urgent cutting of trees

Covered in Clause 8 of the Code

14 Restriction on urgent cutting of trees

Covered in Clause 8 of the Code

15 Responsible persons must provide notification before cutting or removing certain trees

Clause 15 is not applicable as the City of Greater Dandenong does not undertake works on trees:

- within private property
 - on land that is managed by a Council that is not the responsible person, or
 - that affect an owner or occupiers use of private property
-

16 Responsible person must provide notification before cutting or removing certain trees

The City of Greater Dandenong will provide notification to persons affected by electrical line clearance works at least 14 days, and no more than 60 days, before the intended pruning or removal is to occur. If pruning does not commence within these timeframes then affected residents will be re-notified.

Notification methods will include:

- A written letter delivered to every resident affected. The letter is to be delivered by the contractor thirty (30) days prior to works commencing. (see Appendix 7.1 *Example of letter to residents notifying of cyclic pruning works*)
 - A written notice in the Public Notices section (see Appendix 8.2 *Example of public notice of cyclic pruning works*)
 - of a weekly local newspaper. This is to be inserted two (2) weeks prior to the proactive inspection program commencing, and
 - of the City of Greater Dandenong website at <http://www.greaterdandenong.com/news/search?key=public+notice&cat=0&month=&p=1>
-

17 Responsible person must consult with occupier or owner of private property before cutting or removing certain trees

Clause 17 is not applicable as the City of Greater Dandenong does not undertake works on trees within private property.

18 Notification and record keeping requirements for urgent cutting or removal

Clause 18 is not applicable as the City of Greater Dandenong does not undertake works on trees within private property or land belonging to adjacent Councils.

19 Dispute resolution

Covered in regulation 9(3)(q)

20 Duty relating to the safety of cutting or removal of trees close to an electric line.

The City of Greater Dandenong requires all staff and contractors to hold the qualification of Cert II ESI – Powerline Vegetation Control and comply with the guidelines and limits set within either ESV - Electrical Safety Rules for Vegetation Work near Overhead Powerlines by Non-electrical workers (Electrical Safety Rules) or rules set by the asset owner, whichever is greater.

If staff or contractors have concerns about the safety of cutting or removal of a tree for which the Council has clearance responsibilities, the Council will consult:

Business	Contact	Phone	Email
Vic Track	Greg Peel	0417 584 179	gregory.peel@victrack.com.au
United Energy	Leo Hourigan	0408 304 984	LHourigan@powercor.com.au
Metro Trains	Katrina Lewis	0405 506 488	Katrina.Lewis@metrotrains.com.au

21 Duty relating to assisting to determine the allowance for cable sag and sway.

Covered in regulation 9(3)(i)(ii)

22 Duties relating to management procedures to minimise danger.


Not applicable to councils

31 Application for approval of alternative compliance mechanism.

The City of Greater Dandenong does not currently have in place or have planned any alternative compliance mechanisms for which it seeks application and approval.

32 Formal safety assessment of alternative compliance mechanism.

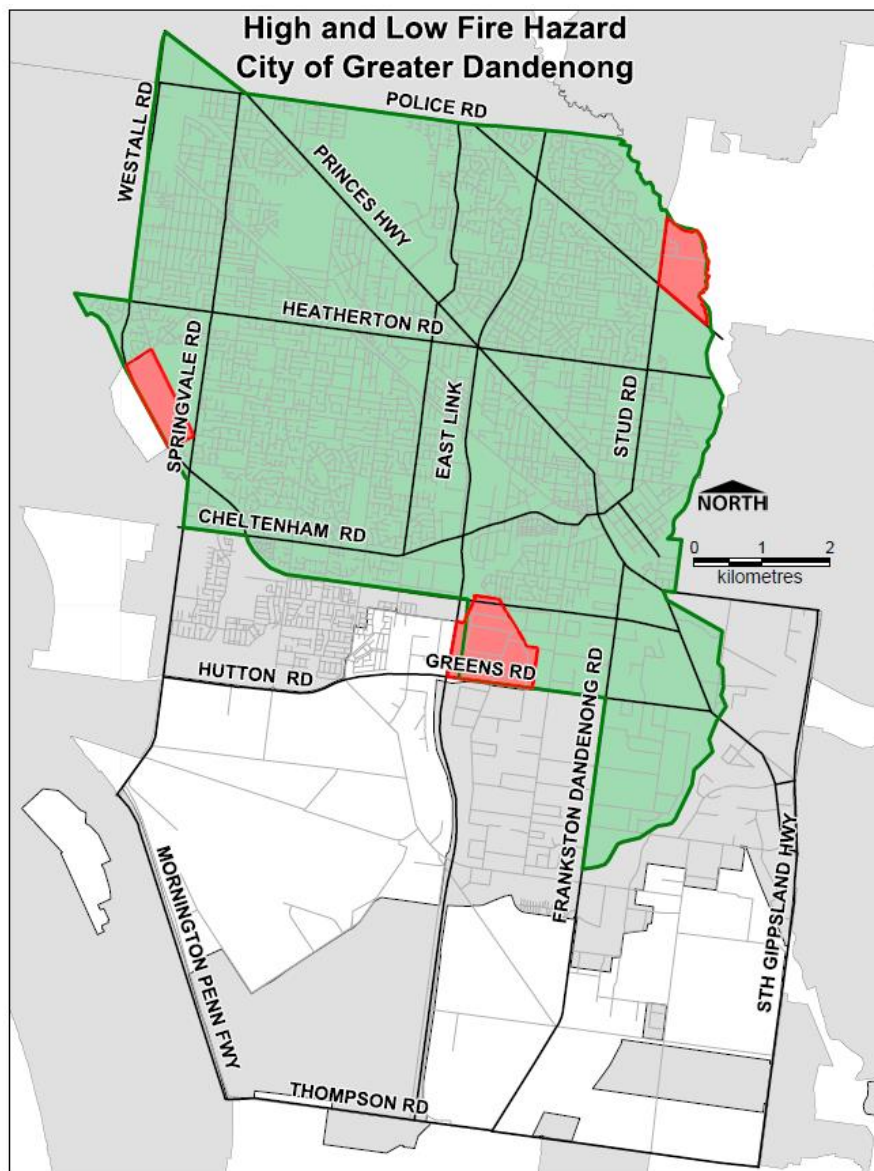
The City of Greater Dandenong does not currently have in place or have planned any alternative compliance mechanisms for which it requires a formal safety assessment to be completed.

Signed		Charles Taveira
Date	19/3/20	Manager Infrastructure Services and Planning

Signed		Paul Kearsley
Date	20/3/2020	Director Business, Engineering and Major Projects

Appendices

Appendix 1 – Map of City of Greater Dandenong



Legend

 Declared LBRA

 Declared HBRA

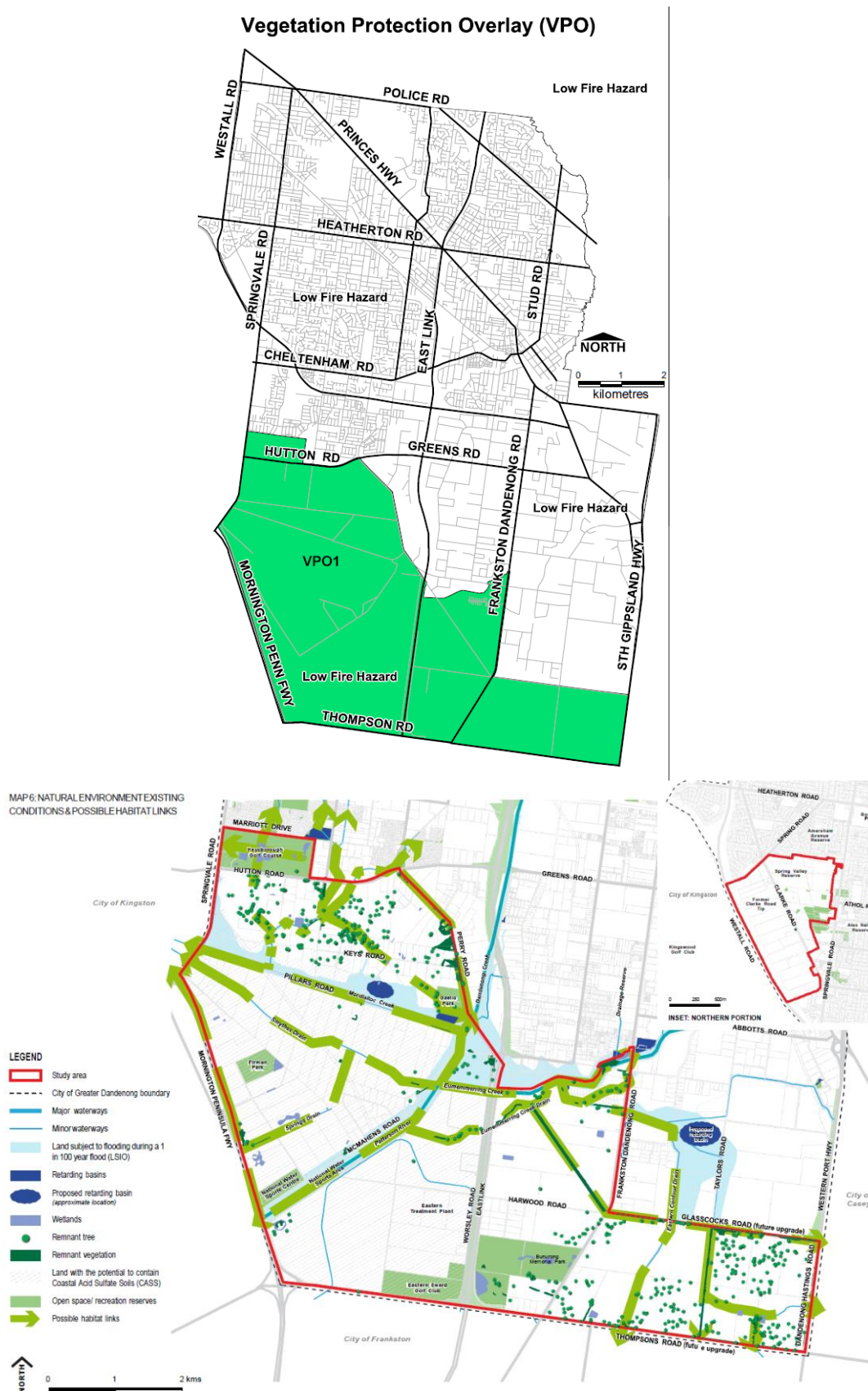
Appendix 2 – Trees of Native, Heritage or Cultural Significance

Appendix 2.1 – Native Trees

Appendix 2.1.1 – Indigenous Species List

Native Trees	
Botanic Name	Common Name
<i>Acacia dealbata</i>	Silver Wattle
<i>Acacia implexa</i>	Lightwood Wattle
<i>Acacia leprosa</i>	Cinnamon Wattle
<i>Acacia mearnsii</i>	Black Wattle
<i>Acacia melanoxylon</i>	Blackwood
<i>Acacia oxycedrus</i>	Spike Wattle
<i>Acacia pycnantha</i>	Golden Wattle
<i>Acacia stricta</i>	Hop Wattle
<i>Acacia verticillata</i>	Prickly Moses
<i>Allocasuarina littoralis</i>	Black Sheoke
<i>Allocasuarina verticillata</i>	Drooping Sheoke
<i>Banksia integrifolia</i>	Coast Banksia
<i>Banksia marginata</i>	Silver Banksia
<i>Bursaria spinosa</i>	Sweet bursaria
<i>Eucalyptus camaldulensis</i>	River Red Gum
<i>Eucalyptus cephalocarpa</i>	Silver-Leafed Stringy-Bark
<i>Eucalyptus ovata</i>	Swamp Gum
<i>Eucalyptus pauciflora</i>	Snow Gum
<i>Eucalyptus pryoriana</i>	Coast Manna Gum
<i>Eucalyptus radiata</i>	Narrow-leafed Peppermint
<i>Eucalyptus viminalis</i>	Manna Gum
<i>Eucalyptus melliodora</i>	Yellow Box
<i>Goodia lotifolia</i>	Golden Tip
<i>Kunzea ericoides</i>	Burgan
<i>Melaleuca ericifolia</i>	Swamp Paperbark
<i>Melaleuca squarrosa</i>	Scented Paperbark
<i>Prostanthera lasianthos</i>	Victorian Christmas Bush
<i>Viminaria juncea</i>	Golden Spray

Appendix 2.1.2 – Vegetation Protection Overlay Area and map of remnant trees applicable to Network Operator’s Plan

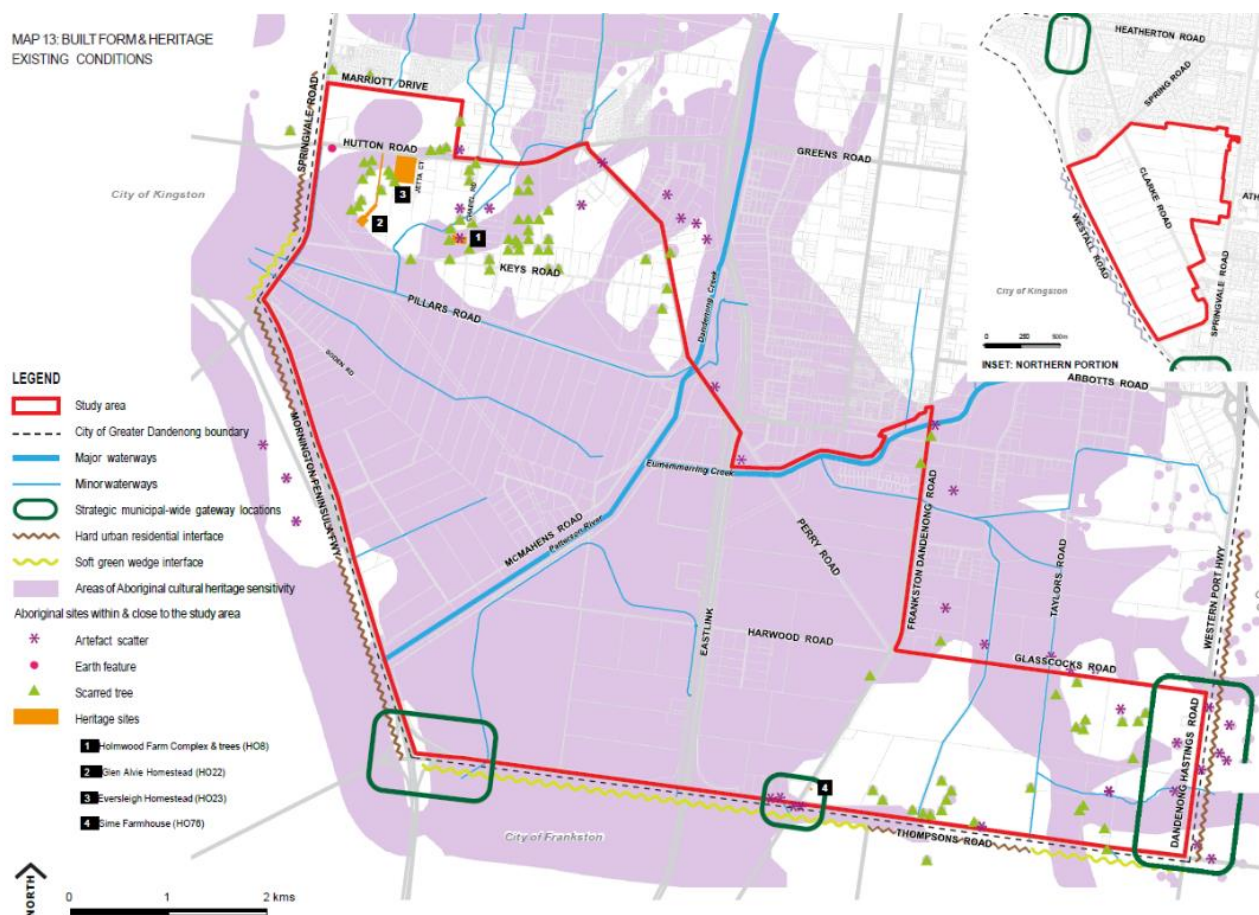


Appendix 2.2 – Heritage Trees and Properties

SCHEDULE TO THE HERITAGE OVERLAY		
Heritage Trees applicable to this Plan (Declared Area)		
HO29 Laurel Lodge	51 Langhorne Street, Dandenong	
HO35 Dandenong Park	168-174 Lonsdale St, Dandenong	
HO40 Benga	66 McCrae Street, Dandenong	
HO44 River Red Gums	Memorial Drive road reserve, Noble Park	The heritage place is the eucalypts and land beneath the canopy edge of each tree for a distance of five metres from the canopy edge.
HO60 Elm & Oak Trees	Pultney St road reserve & 168-170 Lonsdale St, Dandenong	The heritage place is the trees and land beneath the canopy edge of each tree for a distance of five metres from the canopy edge
HO70 Oak Tree	397-405 Springvale Rd & 2-14 Grace Park Ave, Springvale	The heritage place is the oak tree and land beneath the canopy edge of the tree for a distance of five metres from the canopy edge.

Appendix 2.3 – Trees of Cultural Significance

Appendix 2.3.1 – Trees listed on Aboriginal Heritage Register applicable to Network Operator's Plan

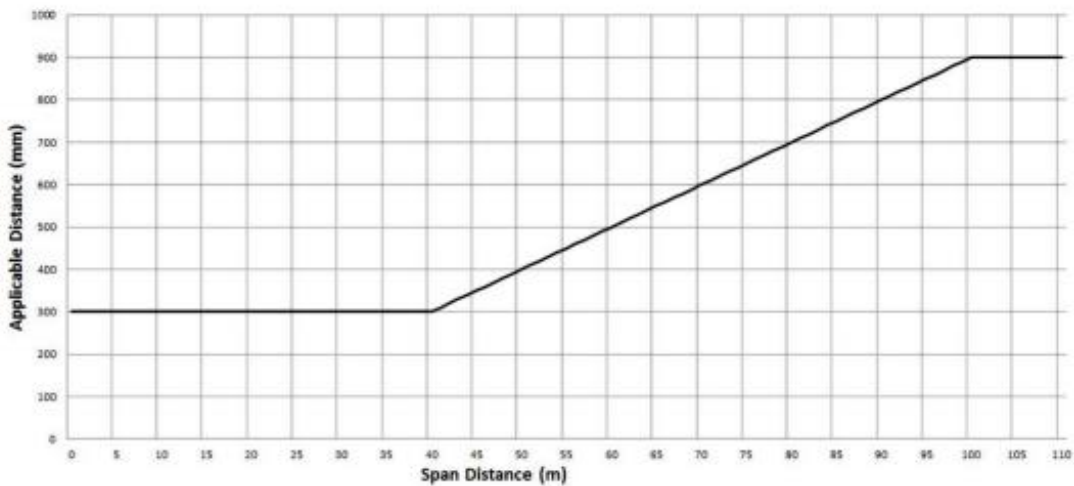


Appendix 2.3.2 Trees listed on Significant Tree Register

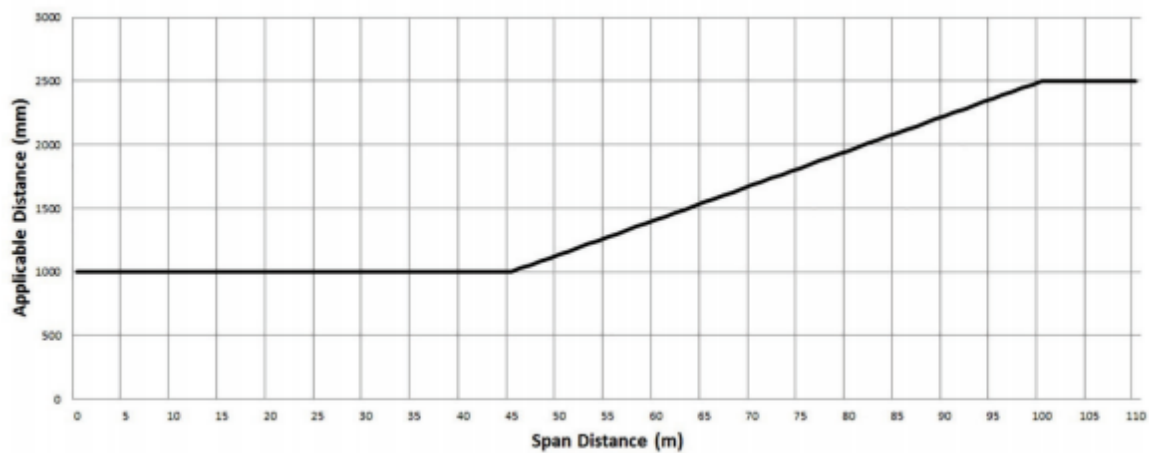
City of Greater Dandenong Significant Tree Register		
Location	Type	Arborist Comments
Significant Trees applicable to this Plan		
Wetlands near Basketball Stadium, Dandenong	English Oak	Good healthy Oak on Council maintained land, good local history on the tree
Park at Heatherton/Cleeland St, Dandenong	River Red Gums	3 Trees nominated, 1 in Mills Reserve (Dandenong) & 2 on the Wetlands near David St (Dandenong)
King St, Dandenong	River Red Gum	Remnant old <i>Eucalyptus camaldulensis</i> in market area close to Aldi. On Council land - tree has planning protection
Keysborough Community Park, Keysborough	River Red Gums	Collection of remnant Red Gums in Keysborough Park Reserve, eastern end around the "billabong"
Roth Hetherington Reserve, Keysborough	River Red Gums	2 trees in Roth Hetherington Reserve - Municipal Lands
Parkfield Reserve, Noble Park	River Red Gum	Tree 300+ years, Healthy, stable, well-formed specimen
Springvale Library, Springvale	English Oak	Well-formed notable specimen. Council land
Significant Trees applicable to the Network Owner's Plan		
Staff Carpark, Dandenong Hospital, Dandenong	River Red Gums	9 Trees in the Dandenong Hospital Carpark - Eastern end of David. Has some planning protection

15 Stud Rd, Dandenong	Blue Atlas Cedar	Young tree - does not command the usual impact of a mature specimen but worthy of listing
21 Macpherson St, Dandenong	Golden Elm	Well-shaped tree - some ELB damage to the foliage. Tree appears healthy and stable
Gladstone Rd, south side of Lyndale Secondary, Dandenong North	River Red Gums	2 remnant <i>Eucalyptus camaldulensis</i> (River Red Gums). Very large, very old trees
Gladstone Rd, outside office at Lyndale Secondary, Dandenong North	Swamp Gum	Large tree on Education Department land. Tree is a large landmark tree
Gladstone Rd, in car park at Lyndale Secondary, Dandenong North	Spotted Gums	14 <i>Corymbia maculata</i> (spotted gums) planted along the school boundary
Hutton Rd, on the oval at Lyndale Secondary, Dandenong North	River Red Gums	2 very old <i>Eucalyptus camaldulensis</i> on Education Department land - sports grounds western side of college
Corner of Gardiner Ave & Heatherton Rd, Dandenong North	Lemon Scented Gum	Large specimen on privately owned land. Retained during planning application
St. Gerard's Church, Gladstone Rd, Dandenong North	Lemon Scented Gum	Excellent specimen - not so tall as spreading
End of Pinewood Ave, Dandenong North	River Red Gums	4 remnant River Reds on Eastlink land
Parkmore Shopping Centre, Keysborough	River Red Gum	Large old specimen in the southern car park of Keysborough Shopping Centre. Tree protected by planning permits.
272-280 Perry Rd, Keysborough	River Red Gum	Remnant Red Gum - usual trunk growth
9 Kelvinside Rd, Noble Park	Golden Elm	Multi-stemmed trunk with unions at the base of the trunk. Tree in good health, in spite of Elm Leaf beetle infestation
1172 Heatherton Rd, Noble Park	Lemon Scented Gum	Healthy erect form of this tree, with a full canopy
Princes Hwy, Front Area of South Eastern Private Hospital, Noble Park North	River Red Gum	<i>Eucalyptus camaldulensis</i> (200+ years) on Princes Hwy. Landmark Tree
West end of Pinewood Ave, Noble Park North	River Red Gums	4 <i>Eucalyptus camaldulensis</i> on Eastlink Land adjacent to 30 Pinewood Ave (Dandenong). Tree retained by Eastlink as part of the planning process. Younger trees though worthy of nomination
Between 14/16 Sunshine Avenue, Noble Park North	Mealy Stringybark	Mature tree with good form, appears healthy and stable - large wound on the trunk on the eastern side at 4m mark
36 Victoria Ave, Springvale	Golden Elm	<i>Ulmus procera</i> 'Louis von Houtte'. One of the larger specimens of this species in Greater Dandenong - worthy of listing

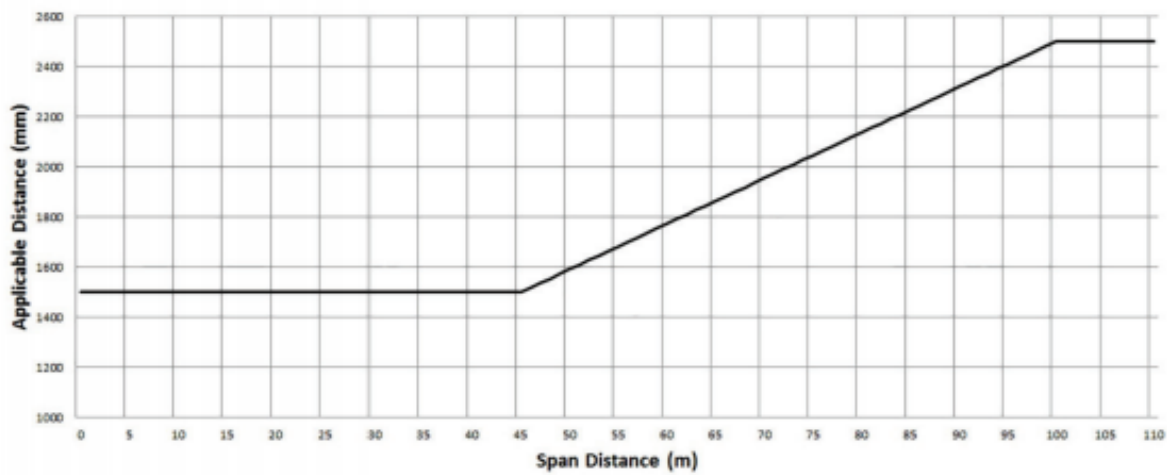
Appendix 3 – Applicable distance for middle two thirds of a span of an electric line
GRAPH 1—INSULATED ELECTRIC LINES IN ALL AREAS



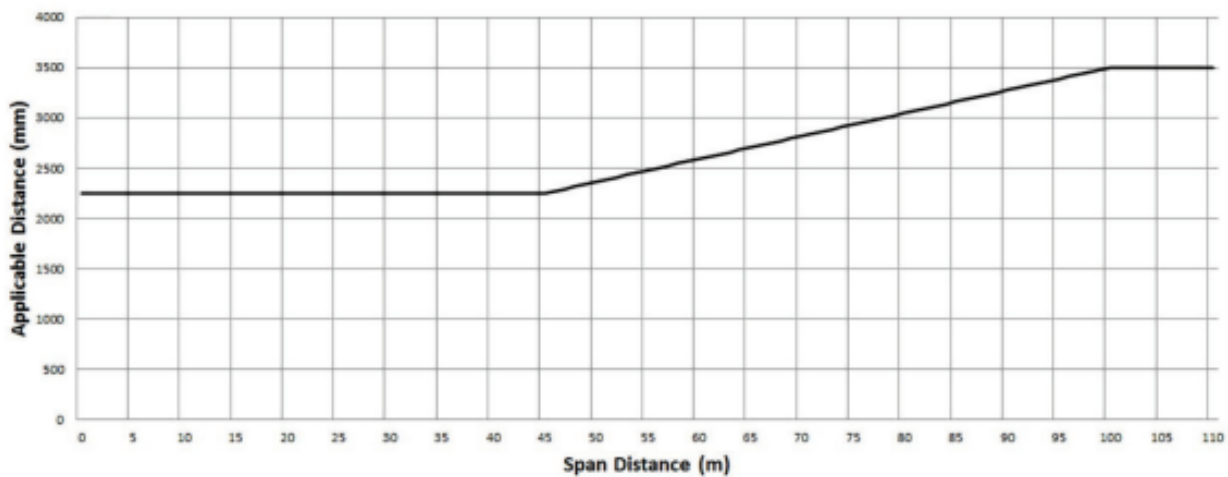
GRAPH 2—UNINSULATED LOW VOLTAGE ELECTRIC LINE IN LOW BUSHFIRE RISK AREA



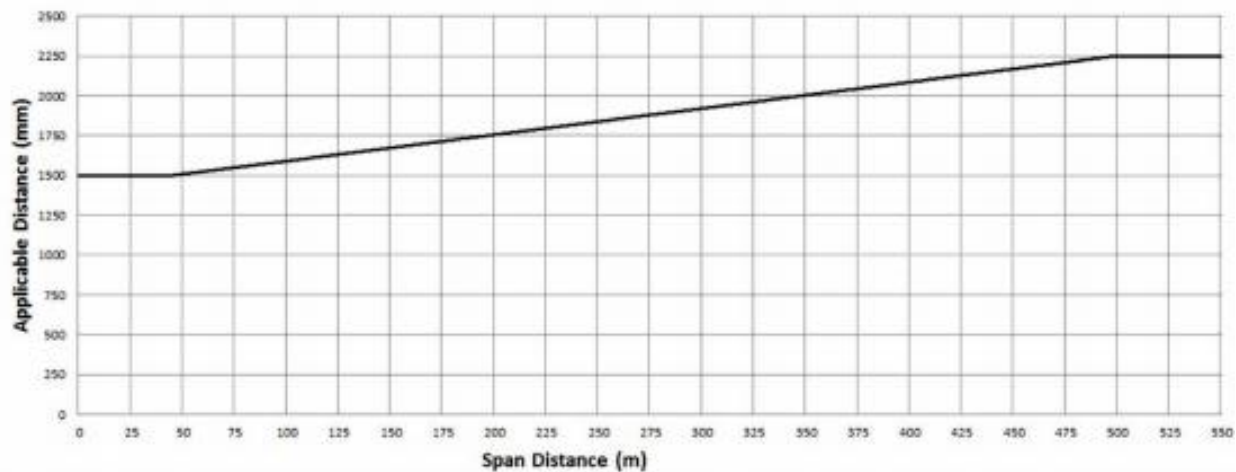
GRAPH 3—UNINSULATED HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN LOW BUSHFIRE RISK AREA

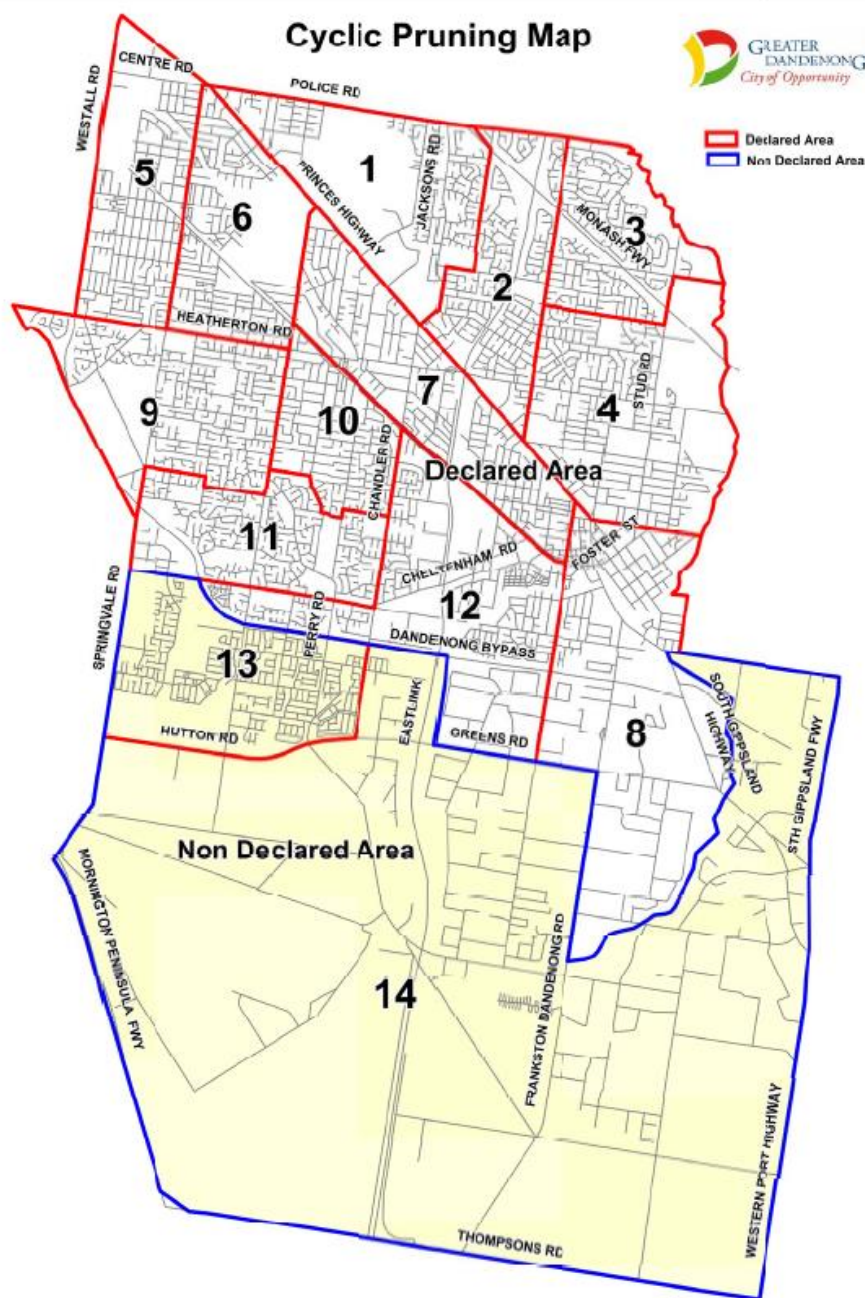


GRAPH 4—UNINSULATED 66 000 VOLT ELECTRIC LINE IN LOW BUSHFIRE RISK AREA



GRAPH 5—UNINSULATED LOW VOLTAGE AND HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN HAZARDOUS BUSHFIRE RISK AREA





Cyclic Pruning Program	
Task name	Provisional completion date
Annual prune 1 (2020)	31-August-20
Block 11	31-August-20
Block 4	31-December-20
Block 3	28 February-21
Block 7	30-April-21
Block 6	15-June-21
Block 10	30-June-21
Annual prune 2 (2021)	31-July-21
Block 12	31-August-21
Block 2	31-October-21
Block 5	30-November-21
Block 8	28-February-22
Block 1	30-April-22
Block 9	30-June-22
Block 13 (Non declared area)	30-June-22
Block 14 (Non declared area)	30-June-22

Appendix 4.2 –Streets that require annual inspection around powerlines

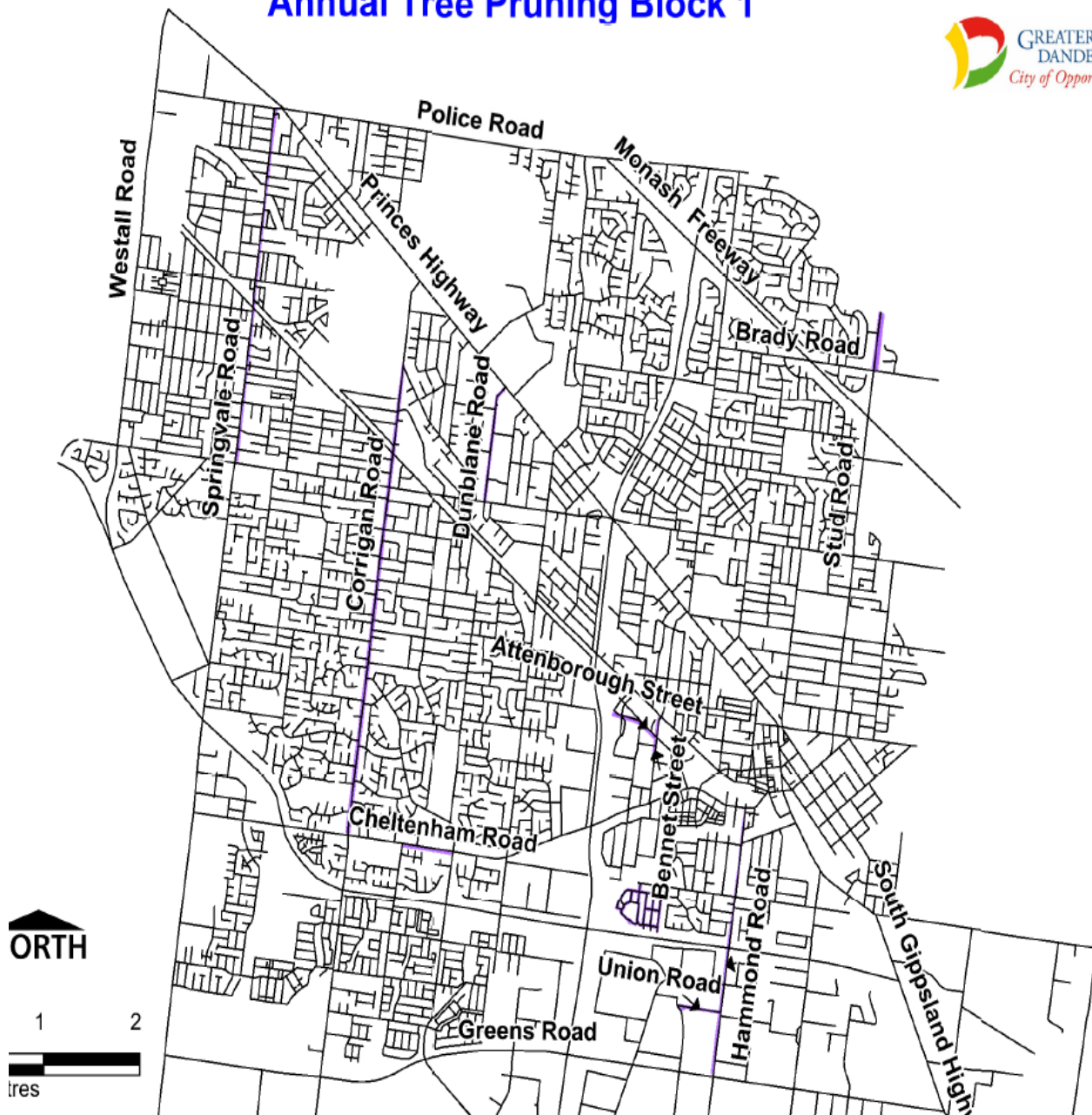
Annual pruning block 1 for 2020 and 2022 is to include:

- Springvale Road from Heatherton Road to Princess Highway (Block 6 Eastern side)
- Union Road, Dandenong South (Block 12) ***High bush fire risk area clearances***
- Dunblane Street Noble Park (Block 7)
- Hammond Road Dandenong South (From Cheltenham Road to Greens Road) (Block 12 Western side)
- Stud Road from Brady Road north to the municipal border. Both sides of the road including parkland. ***High bush fire risk area clearances***
- Cheltenham Road from Perry Road to Stanley Road (South side of Road))(pruned to sky to reduce potential high voltage overhang) (Block 12)
- Bennett Street Dandenong (Along Operations Centre frontage and trees with in vicinity of powerlines in Grieves Reserve))(pruned to sky to reduce potential high voltage overhang) (Block 12)

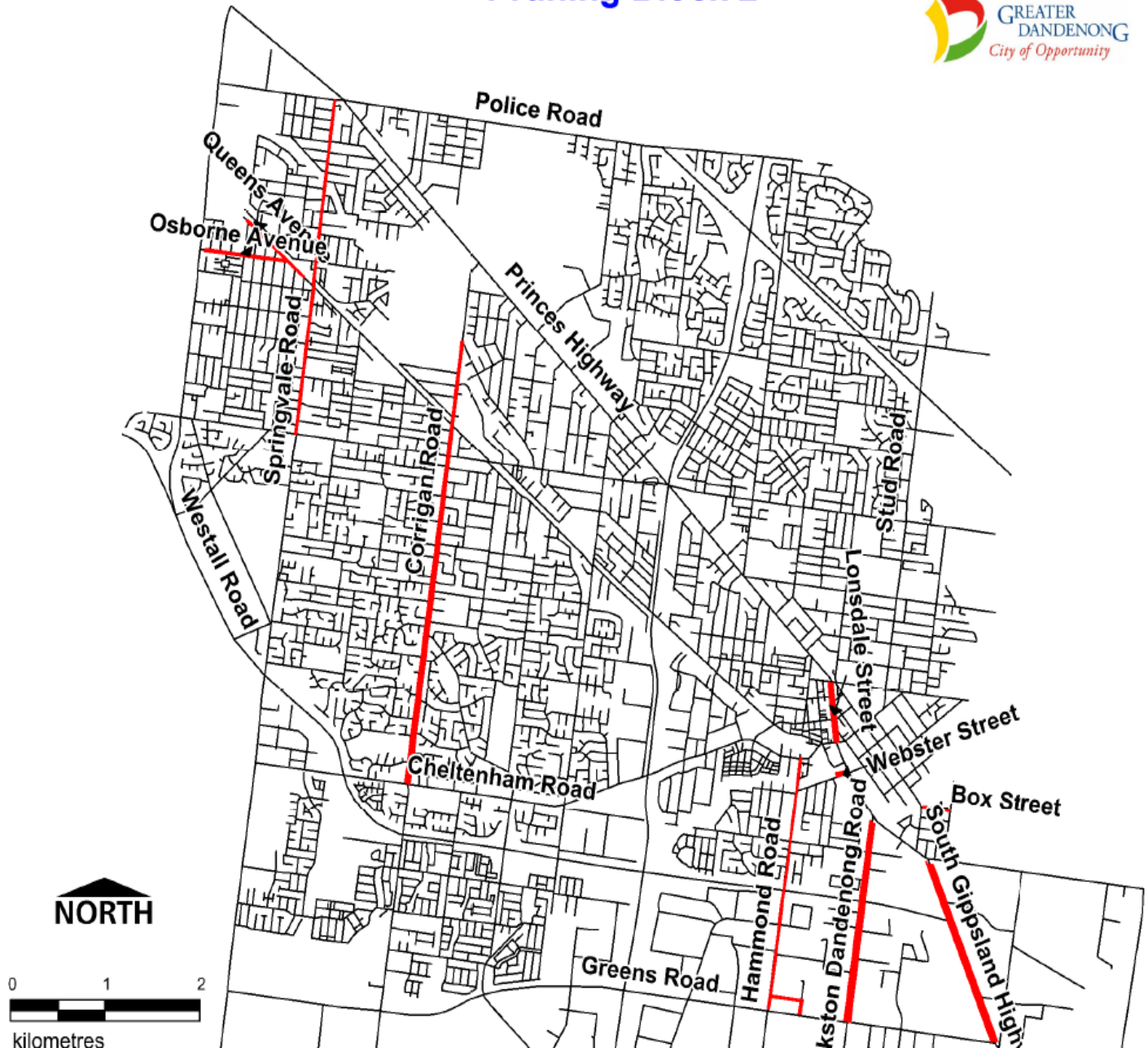
Annual Pruning block 2 for 2021 and 2023 is to include:

- Queens Avenue Springvale (Block 5)
- Osborne Avenue Springvale (Block 5)
- Springvale Road from Heatherton Road to Princess Highway (Block 5 Western side)
- Corrigan Road from Athol Road to Heatherton Road (Block 9)(Pin Oaks to be uplifted and cleared from powerlines)
- Tatterson Road Dandenong South (Block 8)
- Frankston Dandenong Road from Greens Road to Lonsdale Street (Block 8)
- South Gippsland Highway from Greens Road to Princess Highway (Block 8)
- Box Street Dandenong (Thomas Carroll Reserve) (Block 8)(pruned to sky to reduce potential high voltage overhang)
- Hammond Road Dandenong South (From Cheltenham Road to Greens Road. (Block 8 Eastern side)
- Webster Street Dandenong South (Trees from Reserve) (Block 8)(pruned to sky to reduce potential high voltage overhang)

Annual Tree Pruning Block 1



Annual Tree Pruning Block 2



Appendix 5 – Example of Cyclic Pruning Block Audit Forms

Audit details for Contract 1516-03A

Date of Audit: 11/11/2016

Block Number: 4 Dandenong / Dandenong North

Completed by: Cameron MacLeod

Purchase Order: 008457

Number of Recalls:

Due date to complete Recalls : 30/11/2016

An audit on Block 4 was completed. The complete block was inspected and the following non-conformances/recalls were found. Please ensure that recalls are completed by the 30/11/2016. If live line/shut down trees can't be programmed by that time please contact Councils Senior Arborist with an estimated time of completion.

Non-conformance – Recalls Are:

Address	Species	Compliance	Remedial works/ comments.	Recalls	Completed

Issued by: Cameron MacLeod
Senior Arborist
City of Greater Dandenong
11/11/2016

Appendix 6 – Species Planted under Powerlines as per Urban Tree Strategy

Species Planted under powerlines	Tree size at Maturity
<i>Acacia implexa</i>	Small to medium
<i>Acer campestre</i> 'Evelyn'	Small to medium
<i>Brachychiton populneus</i>	Medium
<i>Eucalyptus leucoxylon</i> 'Eukie Dwarf'	Small to medium
<i>Eucalyptus winnerensis</i> "Honey Pots"	Small to medium
<i>Gleditsia triacanthos</i> var. <i>inermis</i> 'Elegantissima'	Small
<i>Lagerstroemia indica</i> x <i>L. fauriei</i> 'Zuni'	Small
<i>Lagerstroemia indica</i> x <i>L. fauriei</i> 'Biloxi'	Small
<i>Leptospermum petersonii</i>	Small to medium
<i>Malus ioensis</i> 'Plena'	Small
<i>Olea europea</i> 'Swan Hill'	Small
<i>Olea europea</i> 'Tolley's Upright'	Small
<i>Pistacia chinensis</i>	Small
<i>Pyrus calleryana</i> 'Capital'	Small to medium
<i>Tilia cordata</i> 'Greenspire'	Small to medium
<i>Tristanopsis laurina</i>	Small to medium

Appendix 7.1 – Training Matrix

Engineering Services Training Matrix																				
Park Services	Heavy Rigid License (retesting not required)	Agriculture & Farm Chemical users (Refresher 5 yearly)	Traffic Management (3 yearly refresher)	Cert 2 in ESI Powerline Vegetation Control(yearly update of certificate)	First aid level 2 (Yearly refresher for CPR update)(this is also required for chainsaw operators and Confined Space & Chemical awareness)	Asbestos awareness (2 yearly refresher)	Hearing/noise(noise refresher not required. Hearing test 2 yearly)	Chain saw, trim & cross cut felled trees(3 yearly refresher) Also 1st Aid level 2 is required	Sun smart (2 yearly refresher)	Manual Handling (2 yearly refresher)	Play Ground inspection training (Refresher 5 yearly)	Front end loader	Conflict Resolution	No Go Zone Spotter (2 yearly Refresher)	Slinging Loads (Crane Truck) Maintain Competency	Confined Space (yearly Refresher for CPR update)	Working at Heights (Sign Truck) Maintain Competency	Front end Loader	Fork Lift (High Risk Work)	Construction industry induction (red Card) Refresher not required
	Team Leader																			
	Service Coordinator Grass Cutting																			
	Plant Operator																			
	Service Coordinator Turf Wickets																			
	Apprentice Turf Management																			
	Curator																			
	Senior Arborist																			
	Arborist																			
	Conservation Program Coordinator																			
	Bushland Maintenance Officer																			
	Open Space Coordinator																			
	Serve Coordinator Amenity Horticulture																			
	Gardener																			
	Playgrounds Service Coordinator																			

Appendix 7.2 – Contractor Training Matrix

Vegetation Training Matrix

			Ground Crew	Cutter working from EWP	Worker 1	Worker 2	Worker 3	Worker 4	Worker 5	Worker 6	Worker 7
	<i>Expiry date shown where unit has a refresher requirement.</i>	Role			EWP	EWP	EWP	EWP	EWP	ASSESSOR	EWP
	<i>If no refresher requirement then date of training recorded.</i>	Role			CHIPPER	CHIPPER	CHIPPER	CHIPPER	CHIPPER	EWP/CHIPPER	CHIPPER
	Qualifications										
	Certificate II in ESI - Powerline Vegetation Control	UET20312									
	Certificate III in Horticulture (Arboriculture)										
	Initial training										
	Apply ESI safety rules, codes and procedures for work on or near electrical apparatus	UETDRRF01 B									
	Maintain safety at an incident scene	PUAOHS002 B									
White Card	Prepare to work safely in the construction industry	CPCWHS10 01									
	Licence										
	High Risk Work Licence - Boom-type Elevating Work Platform (WP)										
Frequency	Training ²										
1 Year	Provide cardiopulmonary resuscitation ³	HLTAID001									
1 Year	Perform EWP controlled descent escape	UETDRRF08 B									
1 Year	Perform EWP rescue	UETDRRF03 B									
1 Year	Provide first aid in an ESI environment ³	UETDRRF10 B									
1 Year	Safe Approach Distances - Vegetation Work										
3 Yearly	Manual Handling										
3 Yearly	Control traffic with stop-slow bat	RIIWH5205D									
3 Yearly	Implement traffic management plan	RIIWH5302D									
3 Yearly	VESI Environmental Framework										
3 Yearly	VESI Safety Framework										
3 Yearly	Operate a mobile chipper/mulcher	FPIHAR2206 B									
3 Yearly	Operate and maintain chainsaws	AHCARB205 A									
	Cert II Elective Competency Standard Units										
	Operate and maintain chainsaws	AHCARB205 A									
	Operate machinery and equipment OR Operate a mobile chipper/mulcher	AHCMOM30 4 FPIHAR2206									
	Use elevated platform to cut vegetation above ground level near live electrical apparatus	UETDTRVC25 A									
	Apply pruning techniques to vegetation control near live electrical apparatus	UETDTRVC33 A									

Appendix 8 – Public Works Notification

Appendix 8.1 Example of letter to residents notifying of cyclic pruning works.



*All aspects of tree maintenance.
Providing safe, quality services and
product to customers with high
expectations.*



To The Resident

Dear Sir/Madam

Re: Street Tree Pruning

Active Tree Services has been contracted by the City of Greater Dandenong to undertake their street tree and parks pruning.

Trees will be pruned to ensure compliance with Electric Line Clearance Regulations 2015, clearances for road and footpath and any dead branches.

We will be carrying out tree maintenance in your street during the next Month.

Please do not leave your private tree clippings on the nature strip as this work is not covered under this contract and will not be collected. The City of Greater Dandenong will prosecute offenders who leave private tree debris on the nature strips during this time.

Yours sincerely,

Active Tree Services Pty Ltd

Appendix 8.2 Example of public notice of cyclic pruning works.



September 2017

Vegetation management Near overhead powerlines

The City of Greater Dandenong has contracted Active Tree Services to inspect and prune street trees impacting on powerlines to ensure no impact to power supply through conflict with trees.

All vegetation clearance work is required to be carried out in compliance with the Electrical Safety Act Regulations 2015. These regulations stipulate a minimum safe clearance between trees and powerlines to keep regrowth clear of powerlines.

The City of Greater Dandenong is responsible for the management of powerline clearance in map area below. Pruning works will be completed in map area 12. Tree works will commence no sooner than 14 days from the date of this notice and and be completed with in 60 days.

Works will be audited and will be compliant with the City's Electric Line Clearance Management Plan.

If you have any further inquiries please Contact Council's Customer service on 8571 1000

