



# **Electric Line Clearance Management Plan**

**2019 – 2020**

**Baw Baw Shire Council**

Submitted By: Will Cheatley

Version Two, August 2019

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## Electric Line Clearance Management Plan

### Structure of Plan:

The Management Plan has been structured to align with the relevant clauses of the Electricity Safety (Electric Line Clearance) Regulations 2015.

The corresponding sections of the Plan are numbered identically to the section of the Regulations to enable cross referencing.

### Distribution Businesses

The name and contact details for the Distribution Businesses that operate within Baw Baw Shire Council's Municipality are:

Organisation Name:	AusNet Services
Contact name:	Michael Cullen
Position:	Area Manager
Address:	Stratton Drive, Traralgon
Contact Number:	0427 859 843
Head Office:	Level 31, 2 Southbank Boulevard, Southbank VIC 3006
Contact No:	13 17 99

## PART 2 – SECTION 9 PREPARATION OF MANAGEMENT PLAN

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

### **9(2) Before 31 March in each year, a responsible person must ensure that a management plan relating to compliance with the Code for the next financial year is prepared;**

Before the 31 of March each year Baw Baw Shire Council's responsible person will ensure that the current management plan will be re submitted in compliance with the Code of Practice for the next financial year.

As part of the preparation, key employees from Council's Infrastructure Maintenance Department will meet eight weeks prior to said date and review, amend internally, and authorise the document prior to the 31 March deadline each year. This review includes ensuring all relevant standards, policies and documents are current.

The responsible officer will submit via e-mail the completed plan to Energy Safe Victoria (ESV) within 14 days of request.

The responsibility for this process to be implemented lies with Council's Coordinator Infrastructure Maintenance.

### **9(3)(a) the name, address and telephone number of the responsible person;**

Name: Baw Baw Shire Council  
Address: 33 Young Street, Drouin, PO Box 304, 3820  
Telephone Number: 1300 229 229  
Facsimile Number: 03 5622 3654  
Chief Executive Officer: Allison Leighton

### **9(3)(b) the name, position, address and telephone number of the individual who was responsible for the preparation of the management plan;**

Name: Will Cheatley  
Position: Manager Infrastructure Maintenance  
Business Address: 188 Normanby Street, Warragul, PO Box 304, 3820  
Telephone No: 0408 520 798  
Facsimile No: 03 5622 3654  
Email Address: will.cheatley@bawbawshire.vic.gov.au

**9(3)(c) the name, position, address and telephone number of the persons who are responsible for carrying out the management plan;**

Name: Garry Websdale  
Position: Coordinator Infrastructure Maintenance  
Business Address: 188 Normanby Street, Warragul, PO Box 304, 3820  
Telephone No: 0438 637 763  
Facsimile No: 03 5622 3654  
Email Address: garry.websdale@bawbawshire.vic.gov.au

**9(3)(d) the telephone number of a person who can be contacted in an emergency that requires clearance of a tree from an electric line that the responsible person is required to keep clear of trees;**

Name: Garry Websdale  
Emergency Telephone No: 0438 637 763

**9(3)(e) the objectives of the management plan;**

The following are identified as the key objectives as stated and the duties set out in the Electricity Safety (Electric Line Clearance) Regulations 2015.

Key objectives of the plan; 2019 to 2020:

- Ensure safety to the public and property.
- Compliance with the Electricity Safety (Electric Line Clearance) Regulations 2015.
- Protect areas of important vegetation such as botanically, historically or culturally important or significant vegetation.
- Manage vegetation to maximise the amenity value of Baw Baw Shire Council trees.
- Provision of a safe working place for employees, contractors and residents.
- Minimise the danger of electrocution and electrical lines causing fires.
- Maintain continuity of the power supply.
- Endeavour to provide the community with satisfaction of executing the necessary vegetation works required throughout the municipality.
- Annually review and submit the Electric Line Clearance Management Plan (ELCMP).

**9(3)(f) the land to which the management plan applies (as indicated on a map);**

The Baw Baw Shire Council's plan only covers trees on land that is managed by Baw Baw Shire Council in the Declared Areas of Warragul and Drouin.

The trees are located in road reserve, parklands and other land/property managed by Baw Baw Shire Council. Town maps are attached in **Appendix 1**. This includes the towns of Warragul and Drouin.

Baw Baw Shire Council manages approximately 30,000 urban street trees and of these approximately 5,000 are planted below electric lines in Council's Declared Areas.

Low Bushfire Risk Areas (LBRA) and High Bushfire Risk Areas (HBRA) refer to fire risk mapping maintained by the CFA this is reviewed annually with the CFA and Council's Emergency Management Department to discuss the Bushfire Management Overlay (BMO). This information forms part of the annual review of the Municipal Fire Management planning process. The Municipal Emergency Management Plan (MEMP) is available via email request to [bawbaw@bawbawshire.vic.gov.au](mailto:bawbaw@bawbawshire.vic.gov.au).

**9(3)(g) each area that the responsible person knows contains a tree that the responsible person may need to cut or remove to ensure compliance with the Code and that is—**

(i) *native; or*

For the purposes of this Plan, native vegetation is considered to be a tree species locally indigenous to the area and does not include commercial and ornamental Australian native species, which are commonly planted as street trees.

Council's Declared Area consists of mixed local native species, commercial native varieties and introduced species. Areas of historical, cultural, environmental, ecological and aesthetical importance have been identified throughout the municipality and included as Heritage and Environmental Significance Overlays in Council's Planning Scheme.

There are no known trees of habitat significance for rare or endangered species listed in Council's Declared Area within the vicinity of electric lines that require pruning or clearing to ensure compliance with the Code of Practice.

As there has been a long-term and ongoing electric line clearance process around existing native trees, there are no known native trees that will be adversely affected by future works.

In alignment with the annual review of Baw Baw Shire Council's ELCMP, Council will review the mentioned resources as stated in s 9(3)(h) to ensure awareness of any new introductions of significant native flora and fauna listings.

Council will liaise with the relevant Distribution Company/s and request to obtain spatial data of the electrical line assets in the Declared Area to incorporate in its Geographic Information System (GIS) to facilitate better planning and identification of affected trees and significant vegetation.

In February each year as part of the annual review of this Plan, if there are any declared area adjustments that differ from the previous year, this will trigger an analysis of native vegetation that may be impacted.

Council's Environmental Planning team will brief the person responsible for the preparation of the Plan on changes to native vegetation mapping, controls and other relevant matters. The amended Plan will be submitted as per s 9(2). The result of the plan adjustments will be raised with relevant Contractors involved with undertaking electric line clearance works.

(ii) *listed in a planning scheme to be of ecological, historical or aesthetic significance;*  
*or*

Based on the historical annual electric line clearance process, trees of significance have been identified in the Declared Area that will be affected by electric line clearance.

No Environmental Significance Overlay's apply to native trees in Baw Baw Shire Council.

Baw Baw Shire Council has compiled a document containing a list of trees Council considers significant within the municipality. The Baw Baw Shire Significant Tree Register is a collection of trees that fit within one or more of the following criteria at a significant level: historical, cultural, botanical, ecological, rare, and endangered and/or remnant indigenous vegetation. The list includes individual trees and groups of trees. This document is available via email request to [bawbaw@bawbawshire.vic.gov.au](mailto:bawbaw@bawbawshire.vic.gov.au).

Currently there are trees that fall under this Regulation in the Code of Practice which need pruning or removing.

Maps of the identified significant trees are not included in this plan. All trees and groups of trees are listed by tree species, description and address. All heritage precincts are listed by street and town names. Currently all heritage precincts are for buildings and other structures, these precincts do include street trees or parkland trees.

Baw Baw Shire Council's overlays do not require a permit under these overlays for works to maintain vegetation clear of an electric line in accordance with the Code of Practice.

By their nature, this type of vegetation does not change quickly in normal circumstances. Council will review the resources listed in s 9(3)(g)(i)–9(3)(g)(ii) on an annual basis when this Plan is revised as described in s 9(2).

(iii) *a tree of cultural or environmental significance;*

Trees of Cultural or Environmental Significance for the purposes of the Plan are defined as any tree protected as Significant or Heritage by relevant State legislation or local planning controls. Based on the historical annual electric line clearance process, there are no identified areas of



special or cultural vegetation identified in the Declared Area that will be affected by electric line clearance.

The Baw Baw Shire Significant Tree Register is formed and complies with the National Trust. The list includes individual trees and groups of trees. By their nature, this type of vegetation does not change quickly in normal circumstances. Council will review the resources listed in s 9(3)(g)(i)–9(3)(g)(ii) on an annual basis when this Plan is revised as described in s 9(2).

**9(3)(h) the means which the responsible person is required to use to identify a tree of a kind specified in paragraph (g)(i), (ii) or (iii);**

Currently there are no street trees or parkland trees of threatened flora, threatened invertebrate fauna, threatened vertebrate fauna, cultural or environmental significance, Heritage Act 2017, Aboriginal Heritage Act 2006 or Flora and Fauna Guarantee Act 1988 that fall under this Management Plan. There are street trees or parkland trees within heritage precincts, trees are still pruned to the Electricity Safety (Electric Line Clearance) Regulations 2015.

Additional resources available to identify significant native trees are:

- Reference to the Heritage Register as per the meaning of the Heritage Act 2017 <http://vhd.heritagecouncil.vic.gov.au/>
- Reference to the National Trust Register <http://trusttrees.org.au/>
- Reference to the Victorian Aboriginal Heritage Register as established under Division 3 of the Aboriginal Heritage Act 2006. [www.vic.gov.au/aboriginalvictoria/heritage/heritage-tools-and-publications/victorian-aboriginal-heritage-register](http://www.vic.gov.au/aboriginalvictoria/heritage/heritage-tools-and-publications/victorian-aboriginal-heritage-register)
- Reference to flora or habitat of fauna listed as threatened in accordance with section 10 of the Flora and Fauna Guarantee Act 1988. <http://www.depi.vic.gov.au/environment-and-wildlife/biodiversity/biodiversity-interactive-map>
- Reference to the Threatened Flora List as published by the relevant State department. <https://www.environment.vic.gov.au/conserving-threatened-species/threatened-species-advisory-lists>
- Reference to the Threatened Invertebrate and Vertebrate Lists and associated habitat as published by the relevant State department. <https://www.environment.vic.gov.au/conserving-threatened-species/threatened-species-advisory-lists>

If trees are identified in the future as being of significance they will be defined by the above categories or Acts, the tree/s will be added to the Baw Baw Shire Significant Tree Register.

If pruning works are required to be carried out on any of the above categories or Acts, Baw Baw Shire Council will conduct works as far as practical with the pruning of any native trees/vegetation

while adhering to above categories and/or Acts. Baw Baw Shire Council will as far as practical look at ways to reduce pruning cycles to reduce the regrowth rates on these trees.

If any of these trees need to be pruned and/or removed, Baw Baw Shire Council will notify affected residents and/or any related community groups. Baw Baw Shire Council will give notice of pruning workings with a minimum of 14 days before the intended pruning and/or tree removal works are carried out.

In alignment with the annual review of Baw Baw Shire Council's ELCMP, Council will review the above-mentioned resources to ensure awareness of any new introductions of significant native flora and fauna listings.

In preparation of any tree works conducted of this nature the relevant contractor / Council employees initiated to undertake the task, will be briefed via a pre-commencement meeting prior to undertaking tree works.

**9(3)(i) the management procedures that the responsible person is required to adopt to ensure compliance with the Code;**

*Managing trees;*

Baw Baw Shire Council carries out pruning or clearing of trees under electric lines as part of the Contract Tender 2180CT Provision for Street Tree Maintenance, pruning all streets within the Declared Areas. The pruning works are done so that the streets within the Declared Areas are given highest priority.

The following schedule is consistent with Contract Tender 2180CT Provision for Street Tree Maintenance and complies with the Code of Practice.

- Zone 1, Zone 2, Zone 3 Declared Areas. (Town maps in **Appendix 2**).

The Contractor/s will complete the three zones annually within the current contract. All vegetation within the designated zones for each financial year is expected to meet Regulations prior to 1 December of that year as per Contract Tender 2180CT Provision for Street Tree Maintenance.

Schedule of Works	Timeline
Advertisement Public Notice	June
Pre-commencement Meeting	July
Pruning Works Conducted	July to November
HBRA and Regrowth Audit	December

In regard to regrowth pruning undertaken outside the Schedule of Works listed above; i.e. where individual trees are assessed as being likely to grow into the required clearance zone before the next planned annual pruning cycle.

The priorities and estimated interval of these regrowth pruning works (if required) are based on the species, size, and growth rate of trees and the location of the tree and electric lines.

Identified tree species that may require regrowth pruning maintenance include:

- Fraxinus species.
- Liquidambar styraciflua
- Platanus species.
- Melaleuca species.
- Quercus palustris.

Pruning cycles are determined by the Leading Hand / Supervisor Arborist from previous experience and from observing the rate of growth of species under the prevailing growing conditions at various locations. The above pruning cycles can vary due to unseasonable weather conditions: example; higher rainfall, warmer weather, longer growing seasons.

The applicable clearance distances as outlined in the *Electricity Safety (Electric Line Clearance) Regulations 2015 - Schedule 2 - Applicable distance for middle two thirds of a span of an electric line* graphs 1, 2, 3 and 4 for spans less than 100m in LBRA, and graphs 5 and 6 for spans less than 45m in HBRA as these include allowance for sag and sway (see **Appendix 3**).

For spans greater than 100m in LBRA and greater than 45m in HBRA within Baw Baw Shire's Declared Areas, Council will contact AusNet Services who are required to provide the minimum clearance (including the additional allowance for sag and sway) for that span. This information is maintained within Council's Information Management system for a minimum of seven years and provided to the relevant Electric Line Clearance personnel at the pre-commencement meeting.

**9(3)(i) – (i) include details of the methods to be adopted for managing trees and maintaining a minimum clearance space as required by the Code;**

Baw Baw Shire Council's Declared Area Maps for Warragul and Drouin identify areas where electric line clearance works are required. Baw Baw Shire Council's specification for the management and maintenance of street trees always require specified clearance spaces to be maintained in these areas. All clearance tree pruning is done to AS 4373-2007 Pruning of amenity trees (AS 4373).

The Leading Hand / Supervisor Arborist undertakes visual inspections of the entire LBRA following pruning works. The inspections identify any trees, which are in breach of the Regulations, and also any trees which may breach the Regulations in the following six months. An assessment is made in regard to regrowth pruning as per the sequence listed in s 9(3)(i).

The Leading Hand / Supervisor Arborist undertakes visual inspections of the entire HBRA situated within the Declared Areas prior to the Declared Fire Danger Period, annually. To ensure works are completed a reminder will be placed within the responsible persons Microsoft Outlook calendar schedule and is also a Key Performance Indicator in Council's Quarterly Performance Management Reporting System (Interplan/CAMMS).

Tree maintenance works identified by these inspections are incorporated in reactive tree maintenance programs. The works are classified as critical or non-compliance. Critical signifies any tree that is growing through or touching high voltage lines. Non-compliance indicates trees that are within clearance zones on low voltage lines, whether touching or not. Remedial pruning works are carried out within the following time frames.

- Critical works will be carried out within five working days.
- Non-compliance works will be carried out within four weeks.

In the event that the Baw Baw Shire Council's Tree Maintenance teams are not able to complete these works within the specified time frame, the Leading Hand / Supervisor Arborist will, subject to available resources and competing priorities, arrange for an approved Contractor to carry out the works within the time frames.

Each inspection will be documented and recorded. The non-conformities and the date that the critical or non-compliance works have been carried out will be recorded.

Baw Baw Shire Council currently has several alternate methods to achieve code compliance between electric lines and vegetation, while also reducing the adverse effect of the presence of those electric lines on vegetation. Baw Baw Shire Council, in conjunction with AusNet Services will utilise a range of techniques, including, but not limited to, aerial bundling of cables, undergrounding of power, pruning to provide long term electric line clearance or the planting of appropriate species of tree for new and replacement plantings.

All tree planting programs undertaken by Baw Baw Shire Council will recognise the inherent problems with the planting of vegetation in the vicinity of power lines. Where overhead services are present, tree selection will generally be made from Baw Baw Shire Council's Tree Selection, Planting and Maintenance Policy, which will eliminate or minimise the amount of pruning required to maintain clearances in future years.

Baw Baw Shire Council is progressively removing trees under electric lines that are performing poorly and/or inappropriate. These trees are being replaced with a more appropriate species.

Baw Baw Shire Council's long-term strategy is to reduce vegetation encroaching into the clearance space on all electric lines. Baw Baw Shire Council aims to achieve this by removing unsuitable street trees and replacing them with trees that mature height doesn't grow within the clearance zones and/or have slower growth rates.

**9(3)(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;**

Compliance with AS 4373 requires observation of several factors when undertaking pruning.

These factors include:

- Formative pruning of young trees. This is seen to be a critical requirement for trees under electric lines to develop canopy shapes that can be managed for Compliance when the tree matures.
- The amount and distribution of canopy removed. This is dictated by the Compliance requirements. The amount of canopy removed shall be the least amount required to achieve and maintain compliance, or to manage the tree in line with s 9(3)(i) of this Plan and the canopy will be shaped to create a weight and canopy distribution as close to normal as possible.
- The size of the limb to which the pruning cut is made.
- The angle of the final pruning cut.

As a result of the need to achieve minimum clearance distances, as well as access restrictions inherent in maintaining safe approach distances, a safe work environment when working at heights and achieving an affordable level of productivity, it is acknowledged that compliance with AS 4373, especially in relation to the final pruning cut, cannot always be achieved. Council requires that compliance with AS 4373 be achieved whenever reasonably practicable in light of these limitations in terms of pruning techniques and pruning cuts.

In order to achieve pruning of acceptable quality, all pruning personnel, either Council employees or Contractors, must have the following as a minimum:

- Formal training as outlined in s 9(o) that incorporates modern tree pruning practices including awareness of AS 4373 and natural target pruning principles.
- Project induction including awareness training in the Code of Practice and this Management Plan.

As part of Council's normal contract management processes, pruning quality will be assessed by the Leading Hand / Supervisor Arborist and poor performance will be identified based on the standards in s 9(3)(n). Normal contract management processes will be used to address poor performance, including contract meetings, increased compliance audits, remedial training and, where necessary, application of contract non-conformance penalties.

Under the Contract Tender 2180CT Provision for Street Tree Maintenance, all works must meet the specifications. One requirement within the specifications is if the maintenance of a tree cannot meet AS 4373 the Contractor is required to flag the tree for a follow up inspection from the Leading

Hand / Supervisor Arborist to follow up and action. Another requirement within the contract specifications is that only appropriate equipment is used to undertake the requested tree maintenance. These requirements are also reiterated during the Contractor's commencement of works meeting prior to beginning works.

**9(3)(k) a description of each alternative compliance mechanism in respect of which the responsible person has applied, or proposes to apply, for approval under clause 31 of the Code;**

Baw Baw Shire Council does not intend to apply for any alternative compliance mechanisms at the time of the preparation of this plan.

**9(3)(l) the details of each approval for an alternative compliance mechanism that – (i) the responsible person holds; and (ii) is in effect;**

Not Applicable.

**9(3)(m) a description of the measures that must be used to assess the performance of the responsible person under the management plan;**

Key Performance Indicators (KPI's) Baw Baw Shire Council follow in reference to the plan:

Criteria	Measurement Method	KPI
Completion of the inspection/pruning programs according to the schedule.	Audit inspections and works ensuring timelines are met.	100% completion prior to 1 December each year.
A reduction in the code clearance breaches identified through the inspection program.	Audit external breaches from the Distribution Business (DB) and Energy Safe Victoria (ESV) breaches.	Zero breaches of the Code of Practice Clearances.
Compliance of the current Electric Line Clearance Management Plan (ELCMP).	The Plan is submitted to ESV.	The ELCMP submitted prior to the 31 March each year.
Providing a safe working place for employees, Contractors and residents. Ensuring safety to the public and property.	Monitor reports of incidents	A reduction in incidents against previous years data.
Compliance with the Electricity Safety (Electric Line Clearance Regulations 2015).	Monitor results from audit breaches and the DB audit breaches.	100% Compliance.
Protect areas of important vegetation such as botanically, historically or	Monitor reports of any affected issues in relation to important vegetation.	A reduction in relevant issues against previous years data.

Criteria	Measurement Method	KPI
culturally important or significant vegetation.		
Manage vegetation to maximise the amenity value of Baw Baw Shire Council (BBSC) trees.	Monitor public complaints regarding tree aesthetics. Monitor 'Customer Request Management' systems with electric line clearance related customer requests.	No year-on-year increase of complaints received.
Minimise the danger of electrocution and minimise electric lines causing fires.	Monitor reports of Electric Line Clearance related incidents, including Worksafe cautions and weekly publicised incidents.	Zero electrocutions and/or fires started from BBSC managed vegetation.
Maintain continuity of the power supply	Adhering to BBSC inspection pruning schedules. 100% completion.	Zero power outages caused by BBSC managed vegetation.
Provide the community with adequate notification of vegetation works required throughout the municipality.	Monitor public complaints regarding tree notification issues.	Pro-active works: Annual media releases informing the broader community of the Electric Line Clearance works programmed. Re-activate works: letter drop notification of Electric Line Clearance works to affected residents.

**9(3)(n) details of the audit processes that must be used to determine the responsible person's compliance with the Code;**

The audit processes required will be carried out by Baw Baw Shire Council employees working on Baw Baw Shire Council's Contract Tender 2180CT Provision for Street Tree Maintenance.

During tree maintenance operations, audits are carried out to ensure electric line pruning works are compliant with the Code of Practice. Council's Leading Hand / Supervisor Arborist is required to undertake regular audits. The audit results are then reported to the Contractors.

The audit's criteria include:

- Time
- Date
- Location

- Ensuring compliance with AS 4373-2007 Pruning of amenity trees
- Vegetation clearance is to the Electricity Safety (Electric Line Clearance) Regulations 2015.
- Personnel are adequately qualified and competent
- Any instances of unacceptable pruning practices
- Any remedial action to be taken.
- Traffic Management.

Refer to **Appendix 5**, Electric Line Work Inspection Audit Checklist.

Upon Councils Audits any rectifications identified are referred to the Contractor with payment of completion of works withheld until all works are completed.

Contractors are also required to self-audit their electric line pruning standards to ensure they are compliance with the Code of Practice, these audits must be submitted weekly to Council.

Any remedial action not carried out to the satisfaction of the Leading Hand / Supervisor Arborist will be again reported back to the Contractor for further remedial action.

Council's internal Tree Maintenance team will carry out any non-compliance remedial works as needed, in the case that the Contractor is in dispute with Council.

The audit maps and number of trees that have and/or will be in breach of the regulation will be recorded. All follow up works will be completed and recorded within the suitable timeframes.

Weekly tool box meetings are held with Baw Baw Shire Council's internal tree maintenance employees and monthly with Contractors. Any issues raised about the inspection cycles and audit process are documented and investigated. If any works are identified during the audit, letters to the affected resident/s will be issued advising of tree pruning works required. This will include time frames and arborists contact details. Refer to examples in **Appendix 6**.

Baw Baw Shire Council's Leading Hand / Supervisor Arborist also records notes, where required, in their work diary while carrying out inspections. This will note the day, time and reason for remedial action.

Baw Baw Shire Council retains records for seven years, these records will show tree and electric line inspections, worksite audits, and including any work undertaken as a result of requests/complaints from residents and AusNet Services.

**9(3)(o) the qualifications and experience that the responsible person must require of the persons who are to carry out the inspection, cutting or removal of trees in accordance with the Code;**

Authorised persons on behalf of Baw Baw Shire Council, including Council's Tree Maintenance team and Contractors must comply with Electricity Safety (Installations) Regulations 2009



sections Regulation 318 and Regulation 319 and must comply with the Blue Book to be considered authorised persons.

All personnel are required to hold applicable licences in the following areas related to the equipment and relevant task within their role.

- National UET20312 Certificate II in ESI - Powerline Vegetation Control including ongoing refreshing training and/or other equivalent approved course's supported by Energy Safe Victoria;
- Licence to operate a boom-type elevating work platform (boom length 11 metres or more) (Travel Tower);
- Implement Traffic Management Plan (RIIOHS302D)
- Control Traffic with a Stop Slow Bat (RIIOHS205D);
- Minimum qualification of Operate and Maintain Chainsaw - Level 1; and
- Minimum qualification of Provide First Aid, including CPR.

#### *Leading Hand / Supervisor Arborist*

The auditor appointed to conduct the annual inspection must be a suitably qualified person.

This means they must:

- hold a minimum the qualification of National Certificate Level IV in Horticulture and Arboriculture or hold an equivalent qualification and/or have considerable field experience in assessing tree compliance with the Code of Practice;
- have completed the Assess vegetation and recommend control measures in an ESI environment (UETDRVC24A);
- have completed the Identify Trees module (AHCARB313);
- hold a National Certificate II in ESI - Powerline Vegetation Control (UET20312) or other equivalent approved course by Energy Safe Victoria; and
- hold a current Traffic Management qualification.

#### *Coordinator Infrastructure Maintenance*

All persons supervising electric line clearance pruning must hold the following:

- hold a minimum the qualification of National Certificate IV in Arboriculture (AHC41916);
- hold a National Certificate II in ESI - Powerline Vegetation Control (UET20312); and
- hold a current Traffic Management qualification.

### *Electric Line Clearance team*

All persons pruning trees under this plan must have qualifications, experience and training and assessment to ensure competency in the performance of vegetation management work; and

- have a sound understanding of Occupational Health and Safety;
- hold a National UET20312 Certificate II in ESI - Powerline Vegetation Control or other equivalent approved course by Energy Safe Victoria;
- have technical knowledge or sufficient experience to perform the duty concerned;
- have been endorsed in writing by an organisation (e.g. the employer) to perform the work;
- hold a current Licence to operate a boom-type elevating work platform (boom length 11 metres or more) (Travel Tower);
- hold a current Traffic Management qualification;
- have undertaken formal training arboriculture AHC; and
- have three years' experience.

### *Ground team*

Any persons working on any site conducting or assisting with tree pruning within the vicinity of electric lines must have achieved competencies or completed training courses and hold current qualifications in the following:

- Sound understanding of Occupational Health and Safety;
- Electrical System Identification and Powerline Clearance Distances;
- Training in the Code of Practice on Electrical Safety for the Distribution Business in Victoria Electricity Supply Industry (The Blue Book 2012);
- Hold a minimum qualification of Provide First Aid, including CPR;
- Manual Handling;
- Noise Conservation;
- hold a current Traffic Management qualification; and
- Wood Chipper competency.

In the case of employees found to have limited or no relevant qualifications they will be required to cease works until qualifications are met and valid.

All licences, qualifications and training records of Baw Baw Shire Council employees and Contractors are kept with Coordinator Infrastructure Maintenance. These records are kept on file and are available at Baw Baw Shire Council's Warragul Depot.

At the beginning of each financial year, all appropriate Council employees and Contractors engaged by Baw Baw Shire Council are to attend a pre-commencement meeting to establish and confirm to employees and Contractors of Council's contract expectations and Occupational Health and Safety requirements of the Contract Tender 2180CT Provision for Street Tree Maintenance.

In the case of any doubts regarding the safety of pruning or clearance of vegetation near electric lines, the Coordinator Infrastructure Maintenance must consult AusNet Services to determine:

- (i) The safe limits of approach to the electric lines in question when pruning.
- (ii) Safe methods for removing vegetation near the electric lines including the need for power shutdown or suppression.
- (iii) Whether alternatives, such as the replacement of the tree with more suitable species, the relocation of the electric lines or alternative methods of construction should be considered where there is an on-going safety problem.

Any Fire Prevention Plan approved by the Emergency Management Committee appointed by Baw Baw Shire Council, under the provisions of the Country Fire Authority Act 1958 Division 3 Section 54, must be developed in consideration of the requirements of this Plan. In matters relating to electric lines, the clearances in the Fire Prevention Plan must, as a minimum requirement, conform to the Electricity Safety (Electric Line Clearance) Regulations 2015.

**(9)(3)(p) notification and consultation procedures, including the form of the notice to be given in accordance with Division 3 of Part 2 of the Code;**

All tree works carried out in Baw Baw Shire Council must follow Baw Baw Shire Council's Tree Management Policy and Open Space Maintenance Standards 2015. These documents are available via email request to [bawbaw@bawbawshire.vic.gov.au](mailto:bawbaw@bawbawshire.vic.gov.au).

In the case of trees requiring pruning or removal, Baw Baw Shire Council's Leading Hand / Supervisor Arborist will notify affected residents and/or any related community groups. Baw Baw Shire Council will give notice of pruning workings with a minimum of 14 days before the intended pruning and/or tree removal works are carried out.

Baw Baw Shire Council's Leading Hand / Supervisor Arborist will give notice to the general public through notification in the Warragul Gazette newspaper, letters and notes of all planned electric line pruning maintenance works. The public announcement will occur annually in June as outlined in the table of Schedule of Works in s 9(3)(i).

An example of the published notification can be found in **Appendix 7**.

### **(9)(3)(q) dispute resolution procedures;**

Person who is responsible for resolving disputes between the responsible person, members of the public, or between Council and the Distribution Businesses:

Name: Garry Websdale  
Position: Coordinator Infrastructure Maintenance  
Business Address: 188 Normanby Street, Warragul, PO Box 304, 3820  
Telephone Number: 0438 637 763

Any unresolved disputes are escalated to the Coordinator, Manager or Director.

## **PART 2 – REGULATION 10 OBLIGATIONS RELATING TO MANAGEMENT PLAN**

### **10(7) The responsible person must ensure that a copy of the management plan is— (a) published on the responsible person's Internet site; and**

An electronic version of Baw Baw Shire Council's current Electric Line Clearance Management Plan is permanently available to the public and to Energy Safe Victoria on Baw Baw Shire Council's Website.

This document file will be replaced annually in alignment with the Plan review and approval. With the responsible person ensuring that the document file is available and current by 1 July each year.

### **10(7)(b) available for inspection at the responsible person's principal office in the State during normal business hours;**

A hardcopy of Baw Baw Shire Council's current Electric Line Clearance Management Plan is permanently available to the public and to Energy Safe Victoria.

The plan can be viewed on Baw Baw Shire Council's web site or viewed at Baw Baw Shire Council's Warragul Depot, 188 Normanby Street, Warragul, Monday to Friday, between 7am and 5pm. The plan is not to be copied and/or taken away from the site.

This document will be replaced annually in alignment with the Plan review and approval. With the responsible person ensuring that the hardcopy is available and is current.

## **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**

Baw Baw Shire Council does not intend to utilise these exceptions at this time.

#### **(5) Exception to minimum clearance space for small branches around insulated low voltage electric lines**

Baw Baw Shire Council does not intend to utilise these exceptions at this time.

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

Baw Baw Shire Council does not intend to utilise these exceptions at this time.

**(7) Owner or operator of transmission line must manage trees around minimum clearance space**

Not Applicable.

**(8) Responsible person may cut or remove hazard tree**

On occasion's hazard trees may be identified throughout tree maintenance operations, this vegetation may not be within the clearance space, however, it can present a risk to compromising an electric line apparatus.

A hazard tree is a tree which "is likely to fail in range or possibly come into contact with, an electric line". This also includes potential re-growth into clearance space before the next scheduled visit and also vegetation in HBRA found in clearance after declaration.

If the Leading Hand / Supervisor Arborist (as described in s 9(3)(o)) assess the tree and identifies hazards which include health and structure, environmental conditions, stability and regrowth, the tree will be considered for removal.

In making the assessment the Leading Hand / Supervisor Arborist must take into consideration foreseeable local conditions. This should include:

- Significant vegetation
- Protected flora and fauna
- Habitat
- Weather and environmental conditions

Subsequently a work plan will be set in place, based on priority level with Council's internal tree maintenance team.

Council will notify all affected persons in relation to the issue.

Records of all urgent works and completion of the notification requirements will be logged electronically under Council's 'Customer Request Management' system.

Information included within this documentation is:

- Date
- Location
- Completed works date

## **Division 2 – Manner of cutting and removing trees**

### **(9) Cutting of tree to comply with Standard**

See Part 2 Section 9(3)(j)

### **(10) Cutting or removal of specified trees must be minimised**

*Native trees.*

Trees listed in a planning scheme to be of ecological, historical or aesthetic significance.

Trees of cultural or environmental significance must be minimised, please refer to information provided for s 9(3)(g)–9(3)(h).

In the event that trees from the above categories are identified by Leading Hand / Supervisor Arborist, the Electric Line Clearance personnel will be notified via email and/or it will be noted in the comments field within the issued work request.

The Leading Hand / Supervisor Arborist will inspect the tree to confirm the extent of works required. If the cutting of the tree for compliance will result in compromising the tree's health or structure or produce an unviable tree specimen, the assessor may warrant removal of the affected tree.

This will be in accordance to s 9(3)(g)–9(3)(h) and whilst adhering to Council's internal tree maintenance policies.

### **(11) Cutting or removing habitat for threatened fauna**

Where the planning scheme determines a tree to be of ecological, historical or aesthetic significance, advice will be sought from Council's Environmental Planning Department on how to address the issue appropriately.

If action is required, then the Electric Line Clearance personnel will be informed of specific works scheduled that are required to address the issue.

Consideration of relevant legislation will be undertaken, and an appropriate process will be drawn up to continue work without compromising relevant legislation.

Where practical, works will not be carried out at times of the breeding season of the affected fauna. All efforts will be made to consult a suitably knowledgeable and appropriate person to ensure the timing of works do not interfere with natural breeding cycles of the affected fauna.

When not practicable to cut or remove outside breeding season, translocation of threatened fauna will take under the direction and supervision of an authorised wildlife handler.

## **DIVISION 3 – Notification, Consultation and dispute resolution**

### **(16) Responsible person must publish notice before cutting or removing certain trees**

Refer to information provided for ss 9(3)(p)

## **DIVISION 4 – Additional duties of responsible persons**

### **(20) Duty relating to the safety of cutting or removal of trees close to an electric line**

Where Council and it's the Electric Line Clearance personnel are unsure of the safety of pruning or removing a tree, they will consult with the relevant local Distribution Company, AusNet Services. If the tree affects a railway supply line Council will consult with the relevant Railway Operator, to develop an appropriate action plan to mitigate the hazard or bring the tree into compliance with the Code of Practice.

## **PART 3 – Minimum clearance spaces; DIVISION 2 – Alternative compliance mechanisms**

### **(31) Application for approval of alternative compliance mechanism**

Council is not and does not currently intend to use any alternative compliance mechanisms.

If Council should apply to Energy Safe Victoria for approval to use an alternative compliance mechanism in respect of a span of an electric line or a class of spans, the application will include details of:

- The alternative compliance mechanism.
- A written confirmation from the Distribution Business or alternative qualified provider that includes:
  - The procedures to be adopted for commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism.
  - The published technical standards that will be complied with when commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism.
  - The location of the span; or describe the class.
  - The minimum clearance space that the applicant proposes is to be applied in relation to the span, or class of spans, in respect of which the application is made.
  - A copy of the formal safety assessment prepared by the Distribution Business or an alternative qualified provider under Clause 32.
  - A copy of the written agreement of the owner or the operator of the span; or the owner or the operator of each span that belongs to that class.

### **(32) Formal safety assessment of alternative compliance mechanism**

Council is not and does not currently intend to use any alternative compliance mechanisms.

As Council Officers are not qualified to provide a formal safety assessment, this will be prepared by the Distribution Business or an alternative qualified provider and will comply with the requirements as defined in Schedule 1 Part 3 Division 2 Clause 31(1) of the Code of Practice

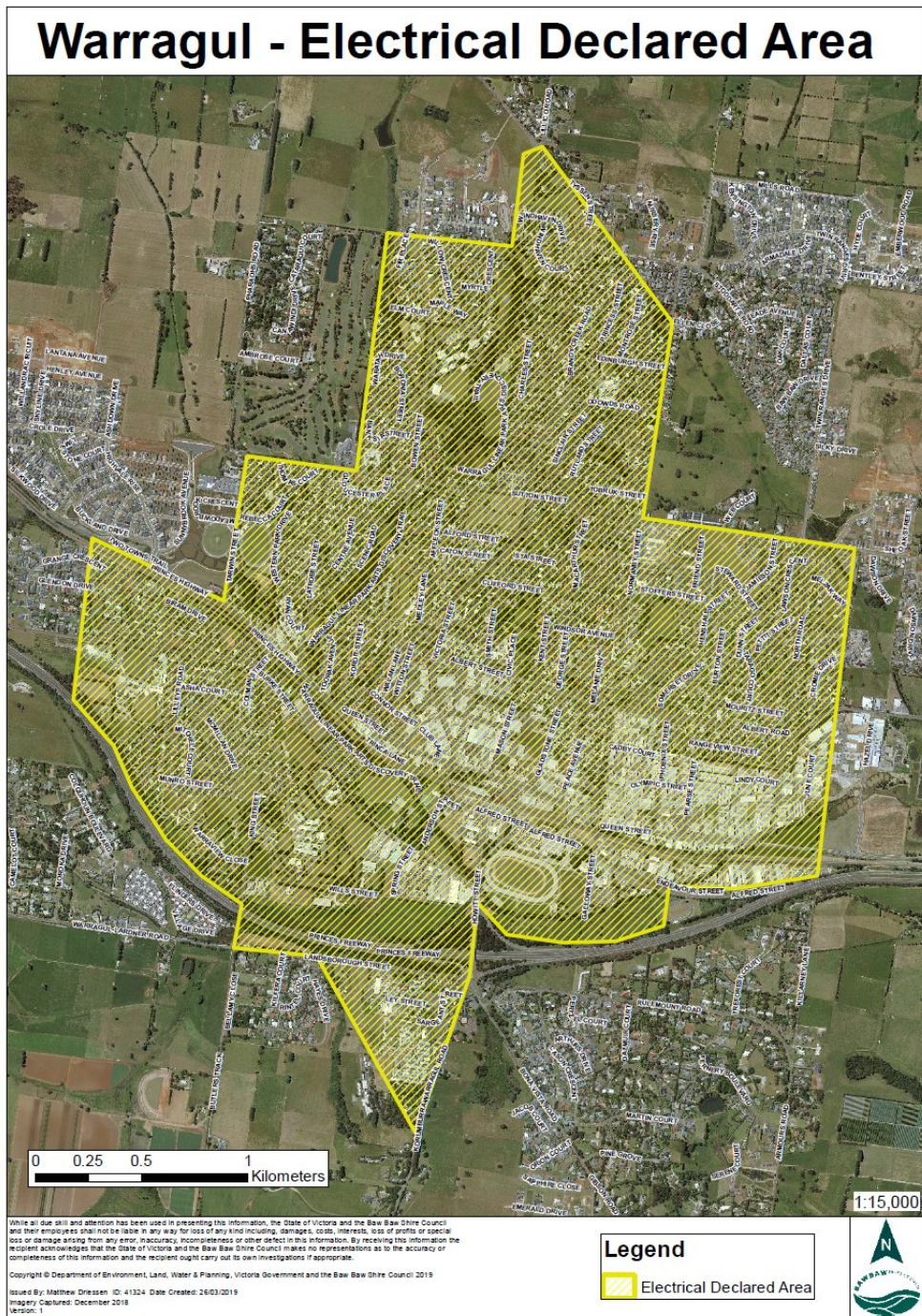


# APPENDIX

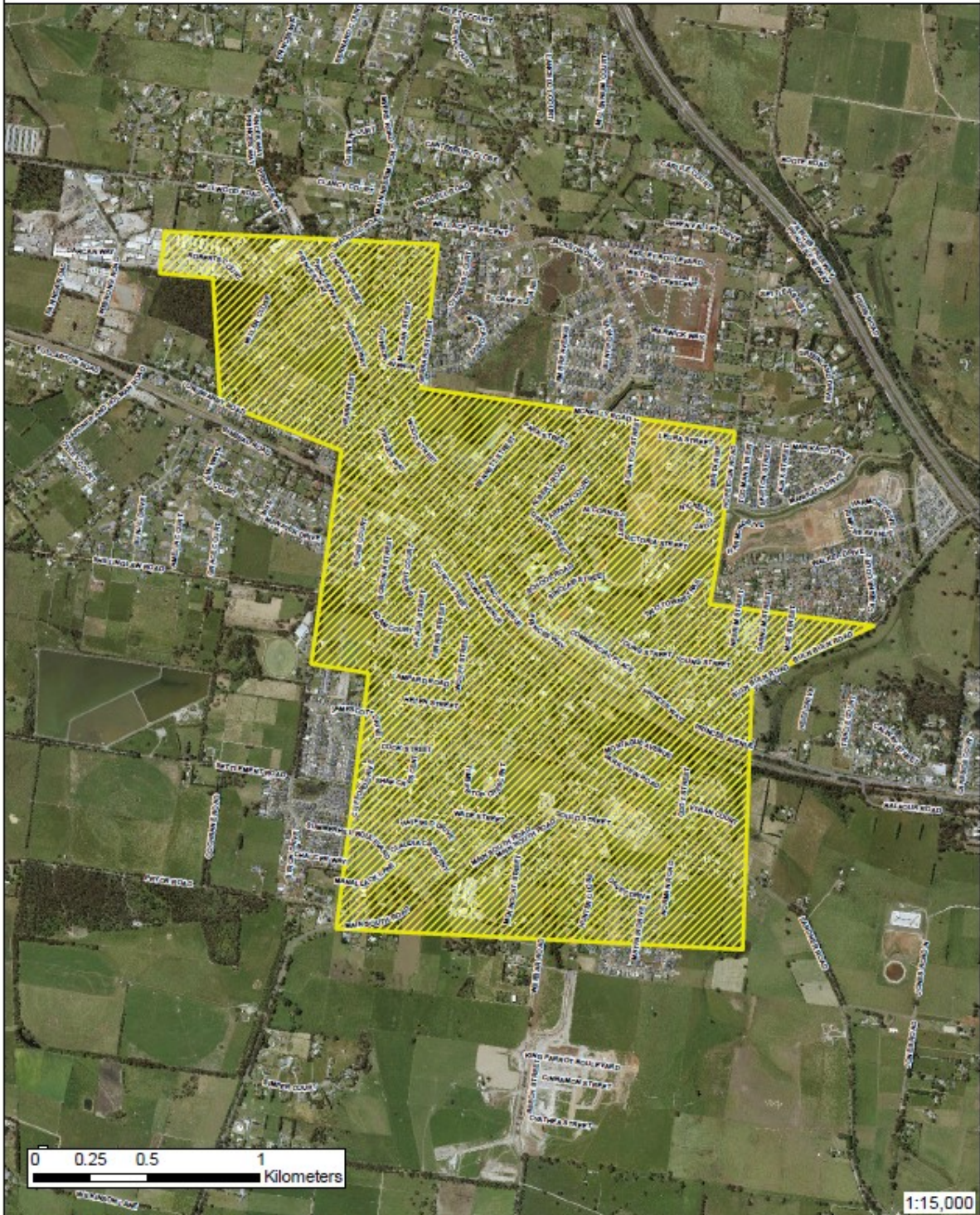
Town maps – Warragul and Drouin. **Appendix 1** shows Baw Baw Shire Council’s declared boundaries. **Appendix 2** shows Baw Baw Shire Council’s Low Bushfire Risk Areas (LBRA) and Hazardous Bushfire Risk Areas (HBRA).

## APPENDIX 1

### Warragul




# Drouin - Electrical Declared Area



While all due skill and attention has been used in presenting this information, the State of Victoria and the Baw Baw Shire Council and their employees shall not be liable in any way for loss of any kind including, damages, costs, interests, loss of profits or special loss or damage arising from any error, inaccuracy, incompleteness or other defect in this information. By receiving this information the recipient acknowledges that the State of Victoria and the Baw Baw Shire Council makes no representations as to the accuracy or completeness of this information and the recipient ought carry out its own investigations if appropriate.

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Issued By: Matthew Drivssen ID: 41324 Date Created: 29/03/2019  
Imagery Captured: December 2018  
Version: 1

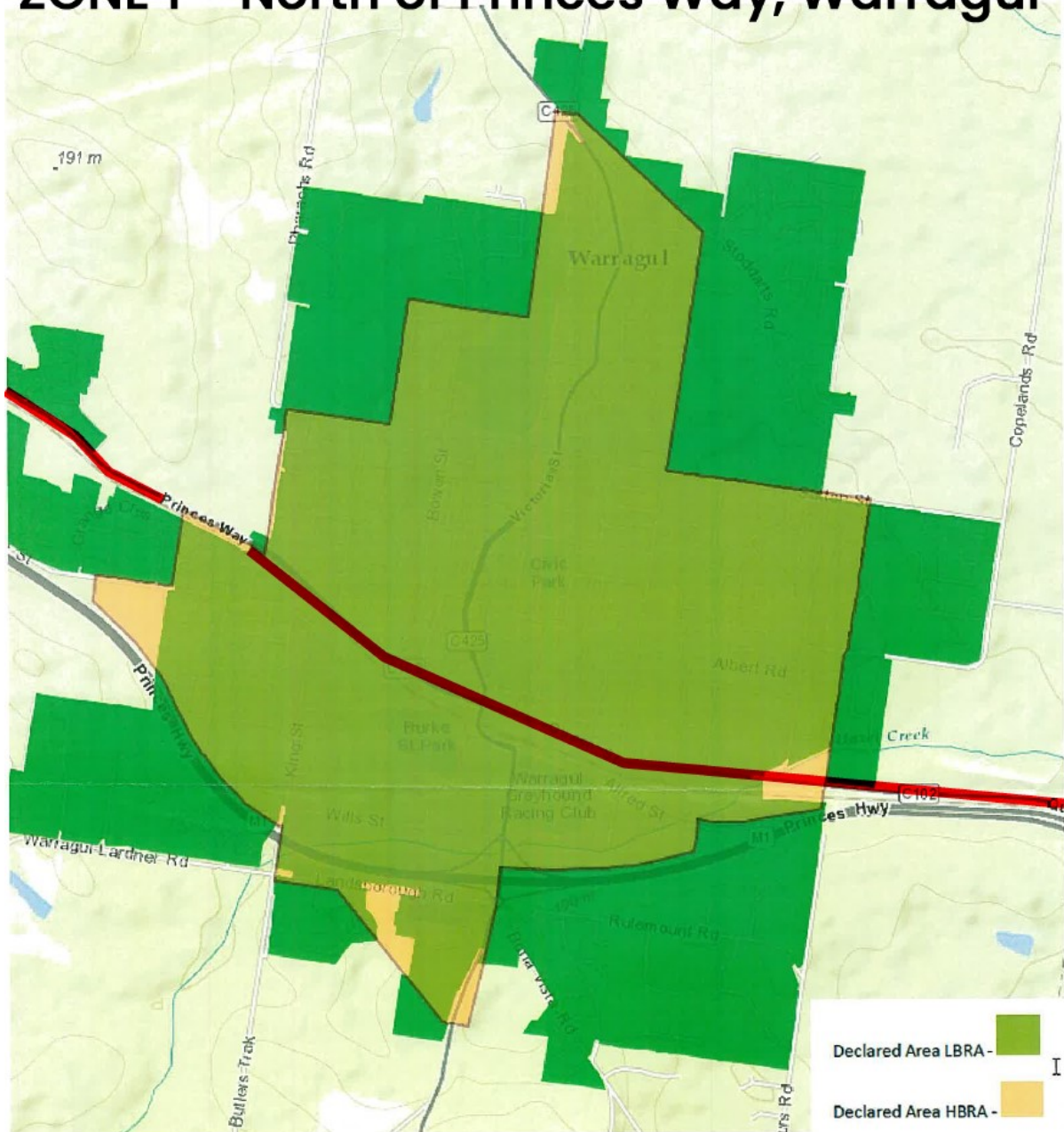
**Legend**

 Electrical Declared Area



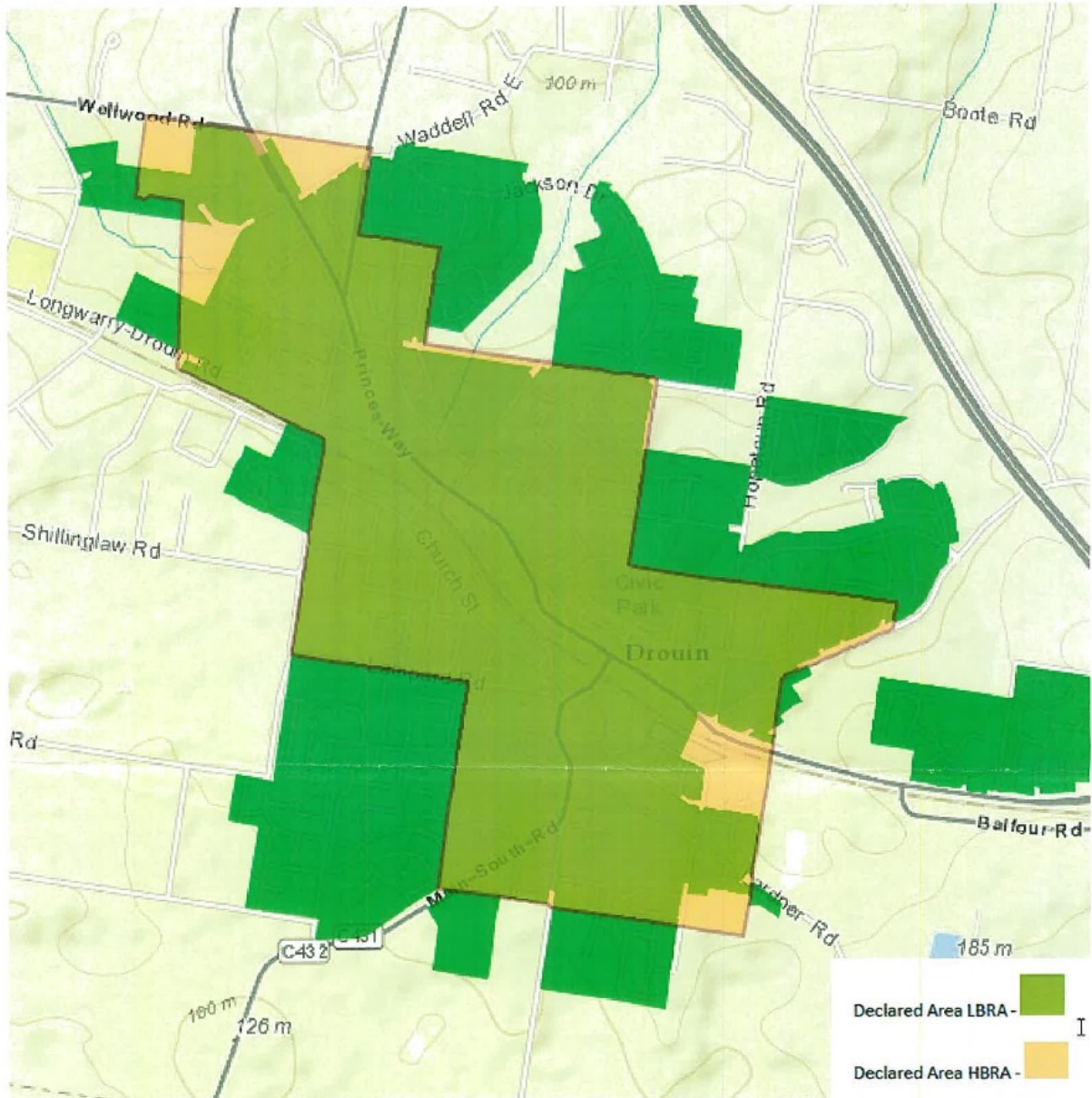
Warragul

**ZONE 1 – North of Princes Way, Warragul**



**ZONE 2 – South of Princes Way, Warragul**

## ZONE 3 - Drouin

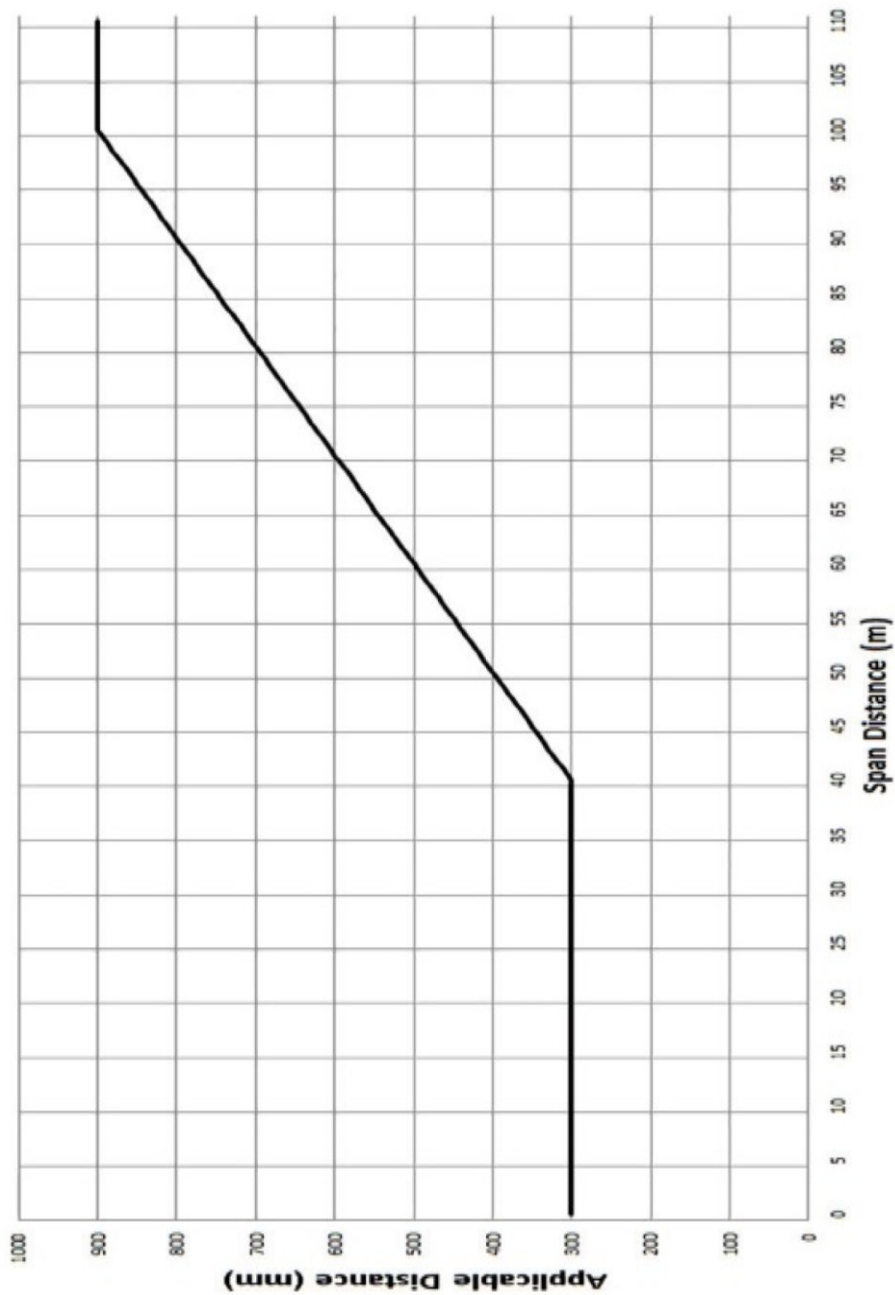


### APPENDIX 3

## Schedule 2—Applicable distance for middle two thirds of a span of an electric line

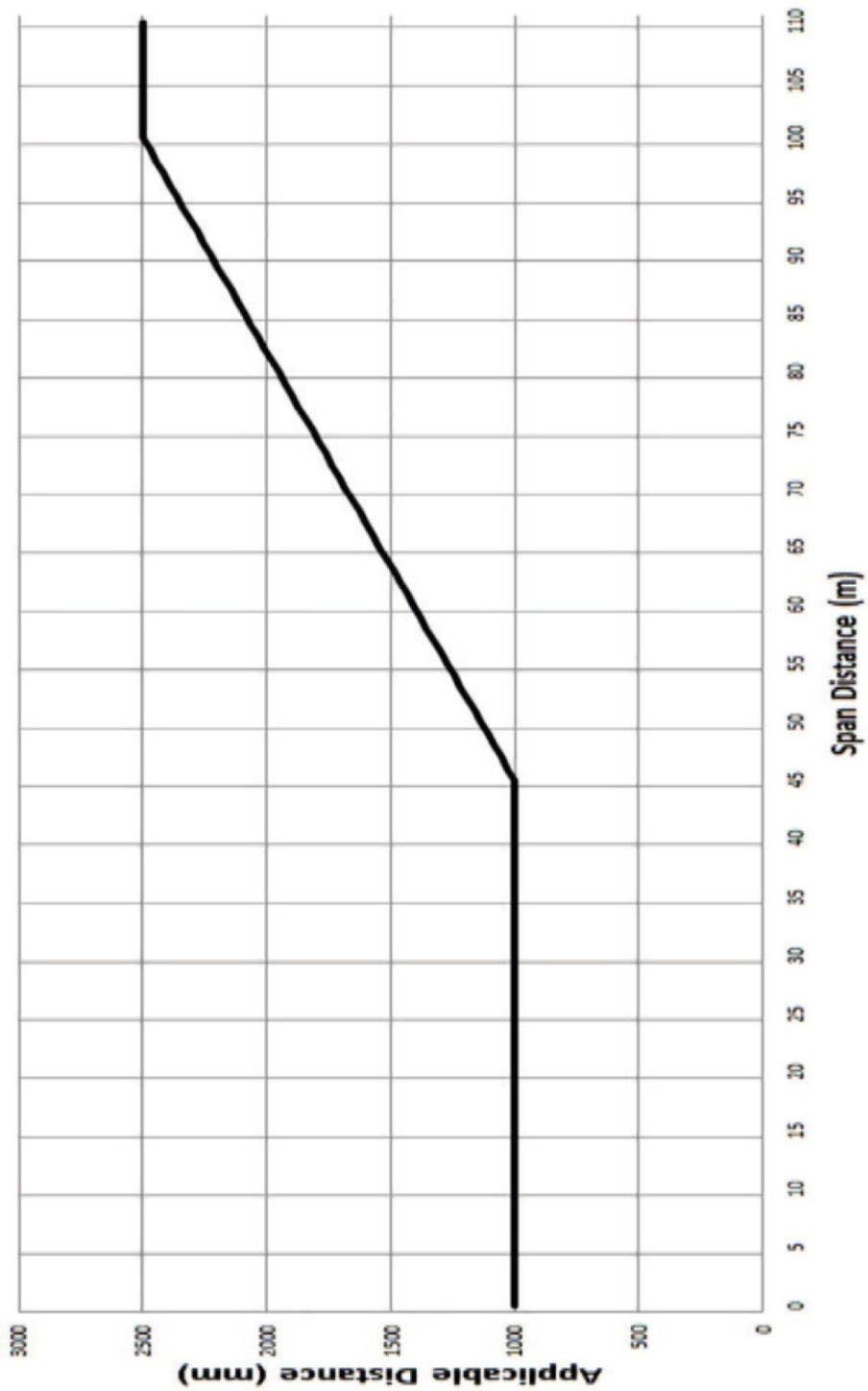
GRAPH 1—INSULATED ELECTRIC LINES IN ALL AREAS

Clauses 3 and 24

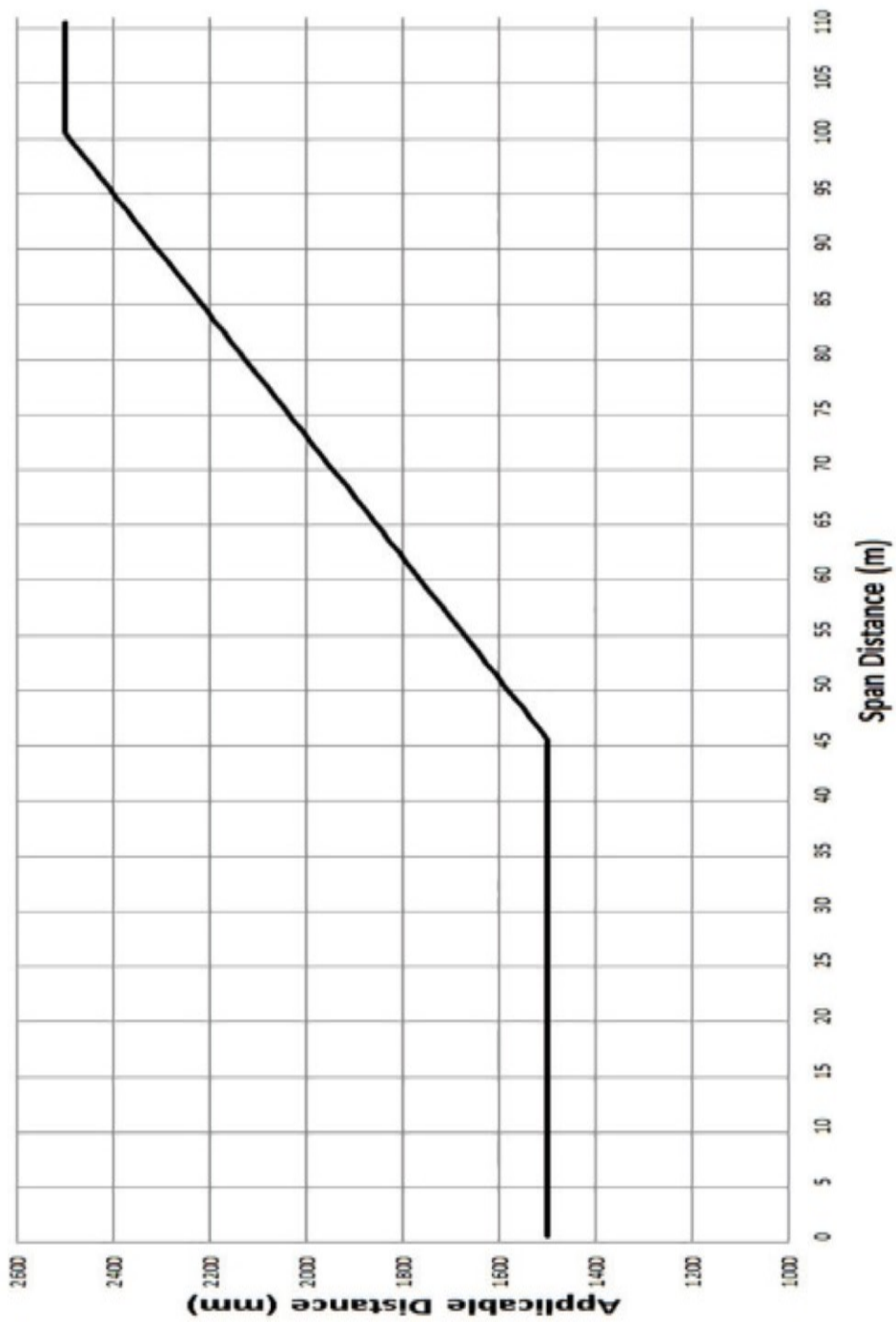


GRAPH 2—UNINSULATED LOW VOLTAGE ELECTRIC LINE IN LOW BUSHFIRE RISK AREA

Clauses 3 and 25

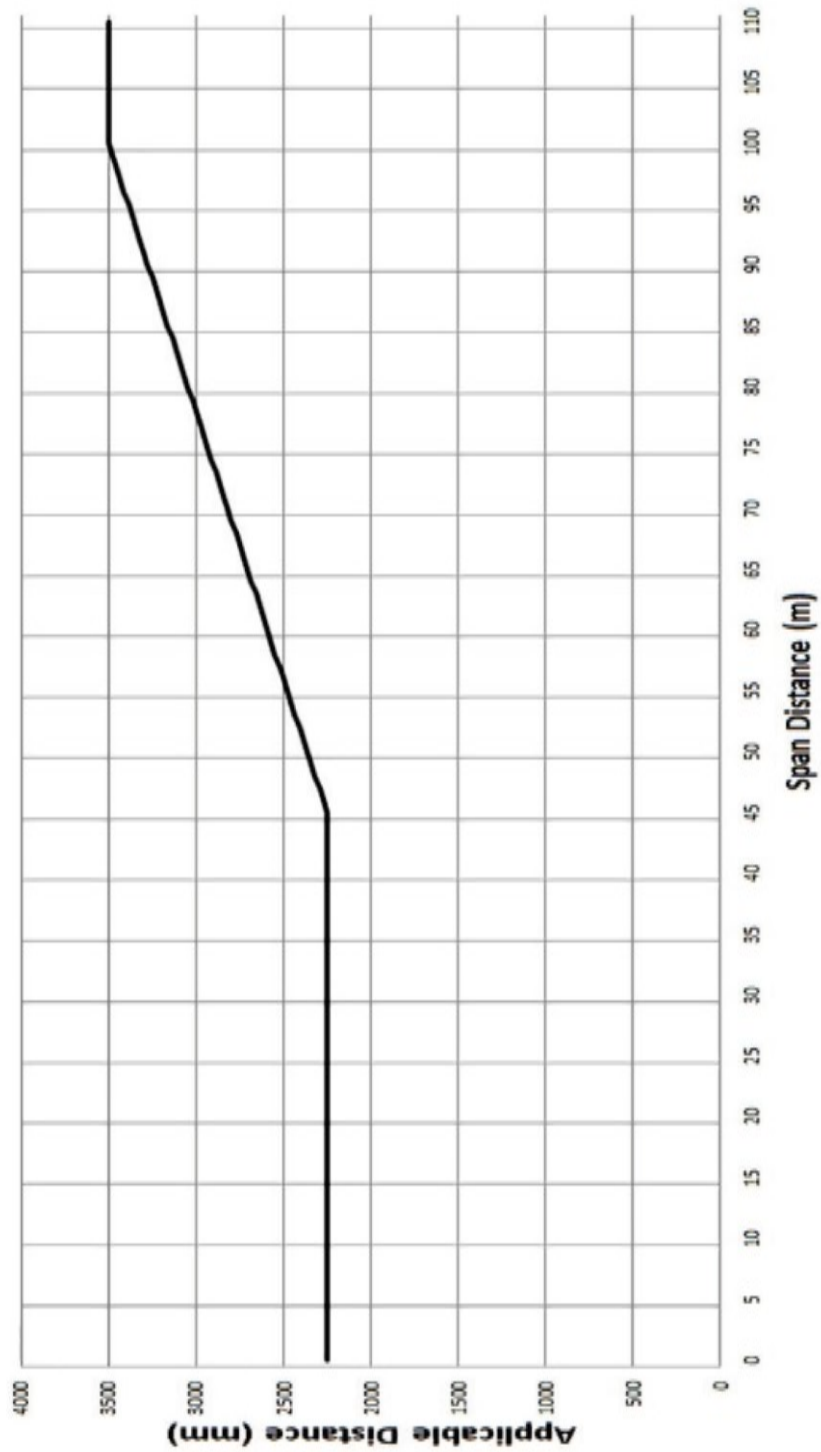


GRAPH 3—UNINSULATED HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN LOW BUSHFIRE RISK AREA



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

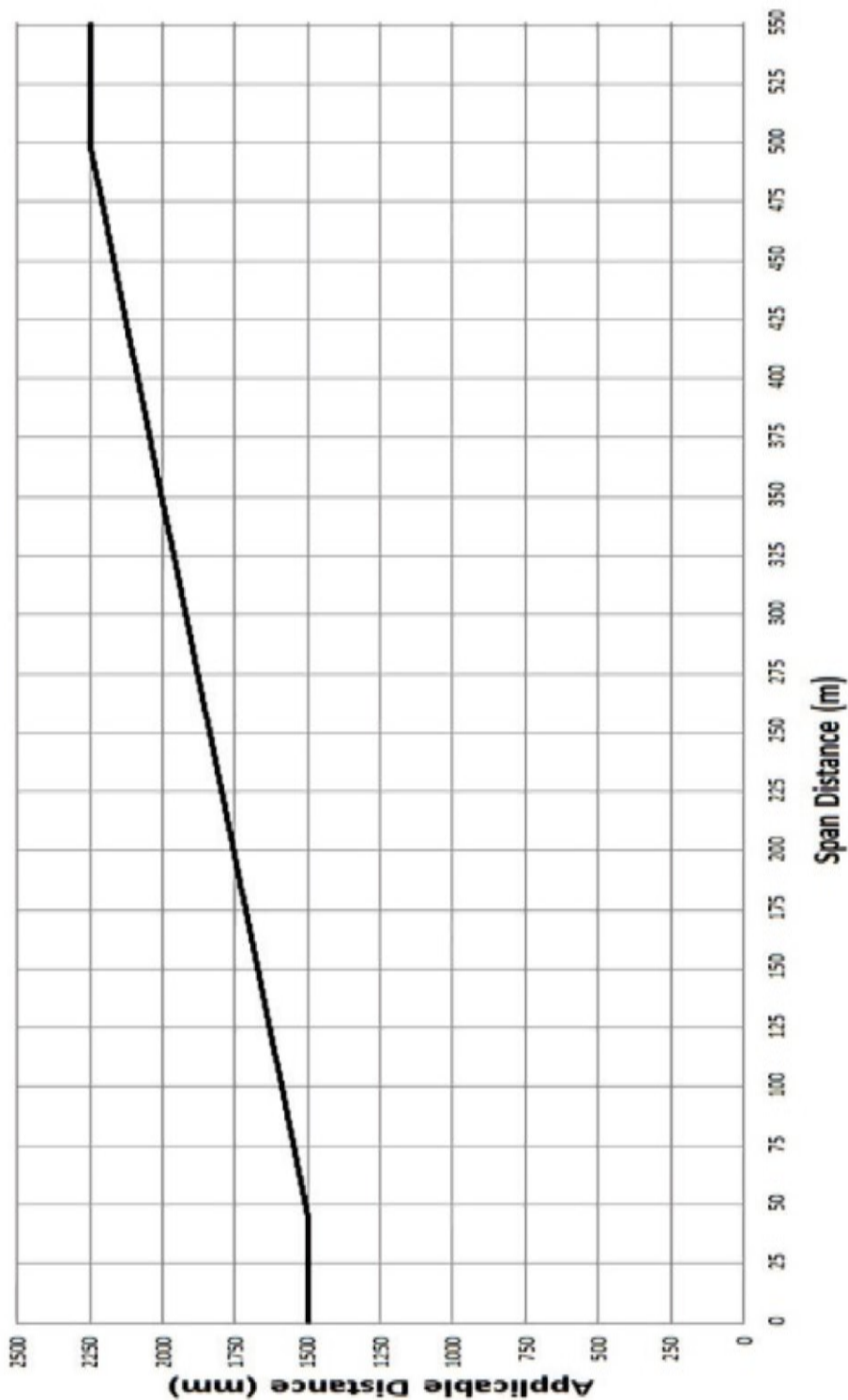
Clauses 3 and 27





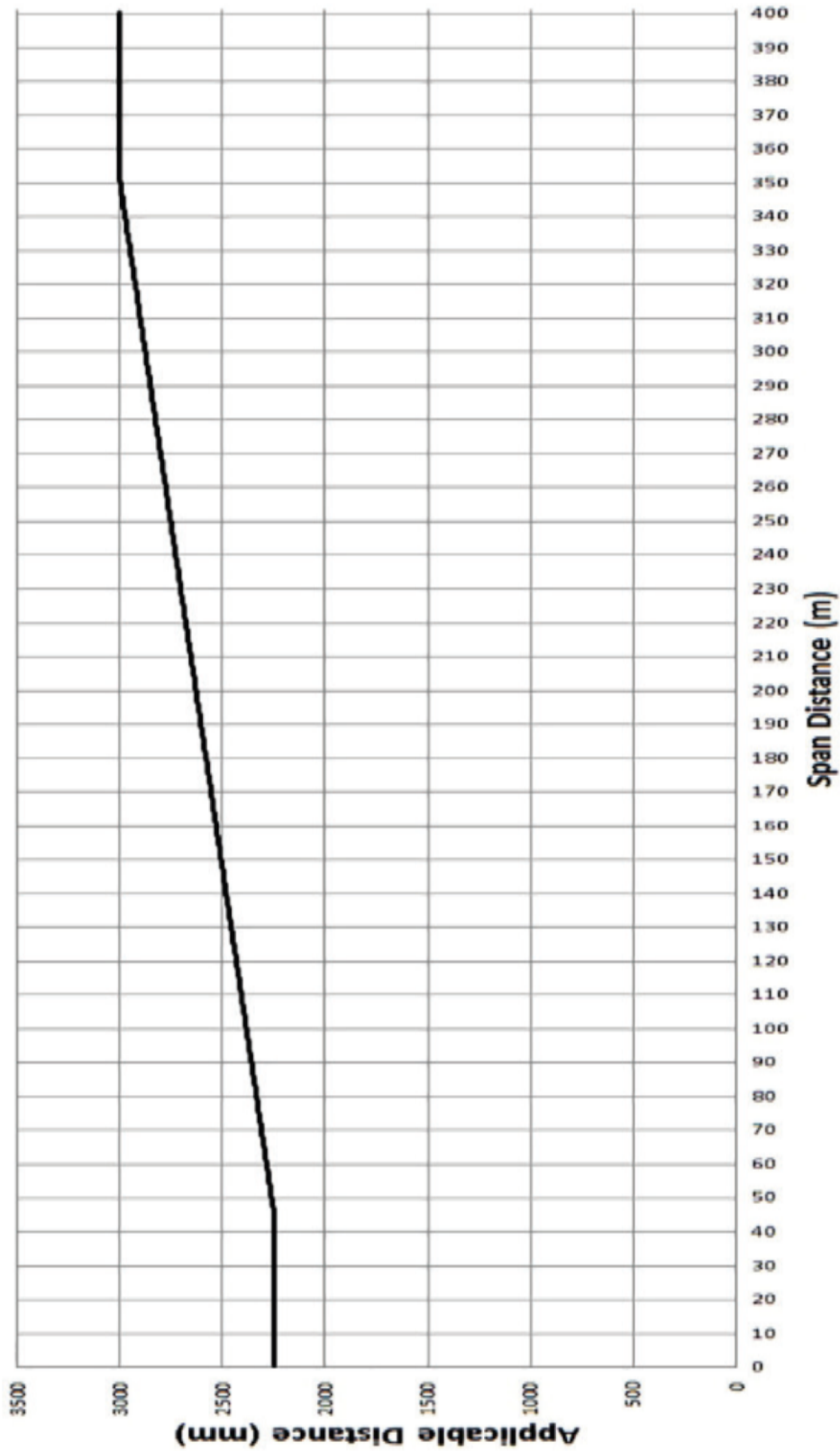
GRAPH 5—UNINSULATED LOW VOLTAGE AND HIGH VOLTAGE ELECTRIC LINE (OTHER THAN A 66 000 VOLT ELECTRIC LINE) IN HAZARDOUS BUSHFIRE RISK AREA

Clauses 3 and 28



GRAPH 6—UNINSULATED 66 000 VOLT ELECTRIC LINE IN HAZARDOUS BUSHFIRE RISK AREA

Clauses 3 and 29



## APPENDIX 4

### Baw Baw Shire Council Tree List

*Currently being reviewed – to be completed by 30 June 2019.*

Figure 1 - Legend

Acronym	Characteristics of Species - Description
D	Deciduous
E	Evergreen
SD	Semi-deciduous
N	Native - native to Australia
I	Indigenous - native to Baw Baw
E	Exotic - not originating from Australia

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Acacia dealbata</i>	Silver Wattle, Mimosa	E	I	Greyish-green bipinnate leaves. Cream ball-shaped flowers in Spring.	Variable tree grown from seed. Hardy and suited to most soils and aspects. Fast growing. Habit more like a large shrub than a tree.				•
<i>Acacia implexa</i>	Lightwood	E	N	Very similar in appearance to Blackwood but flowers in Summer.	Tolerates a wide range of soil conditions. Roots sucker profusely if disturbed therefore it is not suitable as a street tree.			•	
<i>Acacia mearnsii</i>	Black Wattle	E	I	Erect tree with smooth bark. Pale yellow/cream flowers in summer.	Hardy and suited to most soils and aspects. Fast growing. Food source for Possums and Gliders.				•
<i>Acacia melanoxylon</i>	Blackwood	E	I	Flowers in Summer	Strong-wooded and long-lived compared with other Wattles. Prefer soils that are free-draining. Good shade tree.			•	•
<i>Acacia obliquinervia</i>	Mountain Hickory Wattle	E	I	Highly ornamental	Can withstand snow and tolerates extended periods of dry.			•	•
<i>Acacia pycnantha</i>	Golden Wattle	E	I	Yellow ball-shaped flowers in Spring. Can be multi-stemmed from ground.	Relatively short-lived. Prefers sunny position.			•	•

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Acer buergerianum</i>	Trident Maple	D	E	Autumn colours later than most trees, providing visual interest in early winter.	Good for use in restricted spaces. Ensure trees with central leader are selected for planting. Tolerates moderate drought conditions. Does not tolerate strong hot northerly winds well.	.		.	
<i>Acer x freemanii</i>	Freeman Maple	D	E	Brilliant reddish-orange autumn foliage.		.		.	
<i>Acer japonicum 'Vitifolium'</i>	Vine-leaf Maple	D	E	Brilliant reddish-orange autumn foliage.	Vase shaped tree. Requires a protected position. Prefers moist, well-drained soil.			.	
<i>Acer palmatum cultivars</i>	Japanese Maple	D	E	Brilliant reddish-orange autumn foliage.	Prefer moist, well-drained soil in protected positions, making them better suited to protected public open spaces than exposed streets.			.	
<i>Acer rubrum</i>	Red Maple	D	E	Five-lobed leaves with red petioles. New stems are bright red. Orange to Pinkish-red foliage in Autumn.	Tolerates a wide range of conditions. Doesn't tolerate extremely dry soil. There are various cultivars available such as 'Fairview Flame', 'October Glory' and 'Brandywine'	.		.	
<i>Acer saccharum</i>	Silver Maple or Sugar Maple	D	E	Brilliant reddish-orange autumn foliage.		.		.	
<i>Acer truncatum x Acer platanoides 'Keithsform'</i>	Norwegian Sunset Maple	D	E	Brilliant reddish-orange autumn foliage.	There are other cultivars of Norway Maples ( <i>Acer platanoides</i> ) which have slightly different form and foliage colours and soil and climatic tolerances.	.		.	
<i>Acmena smithii</i>	Lilly Pilly	E	N	Deep purple fruits can make a mess when they fall.	Rainforest plant that is useful as a hedge or a single tree. Tolerates a range of soil types but does require relatively moist soils.			.	
<i>Aesculus x carnea 'Briotii'</i>	Red Brioti Horse Chestnut	D	E	Showy red flowers.	Useful specimen tree.			.	
<i>Aesculus hippocastanum</i>	Horse Chestnut	D	E	Showy white flowers.	Useful specimen tree.			.	
<i>Agonis flexuosa</i>	Willow Myrtle	E	N	Fragrant flowers in late Spring. There are cultivars which have dark red/purple leaves.	Tolerates a wide range of conditions but grows best in free draining soil. Can be pruned to retain its ideal shape and can be grown in height-restricted sites.	.		.	
<i>Allocasuarina littoralis</i>	Black She-oak	E	I	Ornamental foliage and bark.	Male and female flowers are on separate plants, with female plants bearing small woody cones. Makes a useful shelterbelt or windbreak.			.	.

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Allocasuarina torulosa</i>	Rose She-oak	E	N	Rusty brown colour when flowering in Autumn.	Useful screening tree if planted in large numbers. Does produce fine leaf litter and cone-like fruits.			•	
<i>Allocasuarina verticillata</i>	Drooping She-oak	E	N	Pendulous foliage.	Will tolerate extremely dry soils. Can appear straggly and sparse but will become more dense once mature.			•	
<i>Angophora costata</i>	Smooth-barked Apple	E	N	Grey bark with dark red flecks.	Intolerant of frost when young.	•		•	
<i>Araucaria heterophylla</i>	Norfolk Island Pine	E	N	Very distinct foliage and tree shape.				•	
<i>Atherosperma moschatum</i>	Southern Sassafras	E	I	Sweet aromatic scent. Creamy white flowers in Autumn to Winter.	Small to medium sized tree, sometimes reaching 25m. Drought intolerant. Requires protected sites with moist, humus rich soils. Grows well in gullies.			•	•
<i>Banksia integrifolia</i>	Coast Banksia	E	N	Pale yellow flowers. Leaves are dark green on top and silver underneath.	Useful tree in urban areas. Tolerates a range of soil types and prefers full sun. Attracts nectar-eating birds.			•	
<i>Bedfordia arborescens</i>	Blanket-leaf	E	I		Prefers cool moist shaded conditions. Will tolerate full sun in moist conditions.				
<i>Betula species and cultivars</i>	Birch	D	E	The species 'pendula' is the Silver Birch which has attractive white/silver bark. Most varieties have green leaves that turn yellow in autumn. Purple-leaved varieties are also available.	Birches commonly drop limbs and catkins making them messy street trees. Prefer moist well- drained			•	
<i>Brachychiton acerifolius</i>	Illawarra Flame Tree	E	N					•	
<i>Callistemon citrinus</i>	Crimson Bottlebrush	E	N					•	
<i>Callistemon pallidus</i>	Lemon Bottlebrush	E	I					•	
<i>Callistemon salignus</i>	Willow Bottlebrush	E	N	Weeping canopy and paperbark trunk. Beautiful showy display of creamy-white bottlebrush flowers typically appearing in late Spring. There is a red flowering cultivar available called 'Rubra'. New foliage is pink.	Has a vigorous root system and should be planted in wide nature strips or sites that are not too close to paved areas. Can be grown in height-restricted sites.	•		•	

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Callistemon viminalis</i>	Weeping Bottlebrush	E	N		Can be grown in height- restricted sites.			•	
<i>Calodendrum capense</i>	Cape Chestnut	E	E	Vast display of pink flowers in summer.	Doesn't have a vigorous root system, which makes it possible to plant it near paved areas. Prefers well-drained soils and may require summer watering.	•		•	
<i>Cedrus deodara</i>	Deodar Cedar	E	E					•	
<i>Correa lawrenceana</i>	Mountain Correa	E	I					•	
<i>Corymbia citriodora</i>	Lemon-scented Gum	E	N	Smooth pale grey bark is striking. Foliage is weeping, and long narrow leaves are lemon-scented.	Small, young specimens do not tolerate frost well. Can be susceptible to Lerp. There are dwarf cultivars available. Prefers full sun.			•	
<i>Corymbia eximia</i>	Yellow Bloodwood	E	N	Stunning masses of cream flowers in Spring.	Small, young specimens do not tolerate frost well. Tolerates a wide range of soil conditions and is good for difficult sites.			•	
<i>Corymbia ficifolia</i>	Red-flowering Gum	E	N	Showy summer flowering. There are many cultivars available with various colours available, including scarlet, orange and salmon.	Does not tolerate waterlogging and requires well-draining soil.	•		•	
<i>Corymbia maculata</i>	Spotted Gum	E	N	Spotted trunk is very distinctive.	Small, young specimens do not tolerate frost well.	•		•	
<i>Erythrina crista-galli</i>	Cockscomb Coral Tree	D	E			•		•	
<i>Eucalyptus baxteri</i>	Brown Stringybark	E	I		Often found on poorer soils as a low spreading tree.			•	•
<i>Eucalyptus bridgesiana</i>	Apple Box	E	I	Distinctive round, glaucous, juvenile foliage.	Has potential to help remediate gully erosion. Flowers attract nectar-eating birds.			•	•
<i>Eucalyptus cephalocarpa</i>	Silver-leaf Stringybark / Mealy Stringybark	E	I	Attractive silver-blue foliage.	Spreading habit.			•	•
<i>Eucalyptus considiana</i>	Yetchuk	E	I		Suits well-drained sandy and gravelly soils of low fertility.			•	•
<i>Eucalyptus croajingolensis</i>	Gippsland Peppermint	E	I	Bluish-grey foliage with a strong peppermint smell when crushed.				•	•

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Eucalyptus cypellocarpa</i>	Mountain Grey Gum	E	I		Grows to a very large tree under favourable conditions. Will tolerate a range of conditions, from dry plains to wet forest.			•	•
<i>Eucalyptus dives</i>	Broad-leaf Peppermint	E	I		Good shade tree.			•	
<i>Eucalyptus elata</i>	River Peppermint	E	N					•	
<i>Eucalyptus fulgens</i>	Green Scentbark	E	I	Thick fissured bark.	Spreading tree.			•	•
<i>Eucalyptus globoidea</i>	White Stringybark	E	I		Usually found on dry, shallow, rocky soils.			•	•
<i>Eucalyptus globulus subsp. bicostata</i>	Southern Blue Gum	E	I	Blue-green juvenile foliage and very large gumnut. Roughish grey bark which is shed on upper trunk and branches in long ribbons.	Shedding of bark creates significant amount of litter making it unsuitable for street tree planting.			•	•
<i>Eucalyptus leucoxydon</i>	Yellow Gum	E	N	Showy yellow flowers, but there are pink-flowered forms such as 'Rosea'.	Size of tree varies depending on provenance, cultivar and seed selection. 'Eukie Dwarf' is one of the dwarf cultivars available. Species is prone to poor branch attachment.			•	
<i>Eucalyptus mannifera</i>	Red Spotted Gum	E	N	White trunk with reddish flecks.	'Little Spotty' is one of the dwarf cultivars available. Does not tolerate waterlogging and requires well-draining soil.	•		•	
<i>Eucalyptus melliodora</i>	Yellow Box	E	N	The bark, which is brown and fibrous peels off revealing a smooth, white under bark.	Too large for typical residential streets. Size of tree varies depending on provenance, cultivar and seed selection. Prefers well-draining soil. Frost tolerant.	•		•	
<i>Eucalyptus meulleriana</i>	Yellow Stringybark	E	I		Slow-growing tree.			•	•
<i>Eucalyptus nicholii</i>	Willow-leaf Peppermint	E	N					•	
<i>Eucalyptus obliqua</i>	Messmate	E	I		Too large for typical residential streets. Grows on a wide variety of soil types. Varies in form.			•	•
<i>Eucalyptus ovata</i>	Swamp Gum	E	I		Koala habitat.			•	•
<i>Eucalyptus pauciflora</i> 'Little Snowman'	Dwarf Snow Gum	E	N			•		•	

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Eucalyptus polyanthemos</i>	Red Box	E	N	Flowers during spring to early summer.	Useful in large avenues and streets and parks.	•		•	
<i>Eucalyptus pryoriana</i>	Gippsland Manna Gum	E	I					•	
<i>Eucalyptus radiata</i>	Narrow-leaved Peppermint	E	I	Heavy bearer of seed.	Widespread on poorer, shallow soils.			•	•
<i>Eucalyptus regnans</i>	Mountain Ash	E	I		Very large tree that requires plenty of space.			•	•
<i>Eucalyptus scoparia</i>	Wallangarra White Gum	E						•	
<i>Eucalyptus sideroxylon</i>	Red Iron-bark	E	N	Flowers during Winter. Deeply fissured bark is a rusty red beneath and black on the surface.	Performs well in urban areas and is relatively tolerant to frost. Co-dominant leaders are common.			•	
<i>Eucalyptus sieberi</i>	Silver-top Ash	E	I		Large tree usually found on drier ridges.			•	•
<i>Eucalyptus strzeleckii</i>	Strzelecki Gum	E	I		Tree species that is vulnerable in Victoria and Australia. Only found naturally in West and South Gippsland.			•	•
<i>Eucalyptus viminalis</i>	Manna Gum	E	I	Flowers during summer to autumn.	Koala habitat.			•	•
<i>Fagus sylvatica f. Purpurea</i>	Copper or Purple Beech	D	E	Beautiful dark purple leaves provide visual interest through spring and summer. Attractive, smooth grey bark. Coppery-brown foliage in Autumn.	Prefers moist soils but tolerates some dryness.			•	
<i>Ficus microcarpa var. hillii</i>	Hill's Weeping Fig	E	N	Smooth grey trunk and glossy green foliage.	Careful establishment may be required to harden off trees and acclimatise them to the local climate if they are grown in Northern Australia. Once acclimated, Weeping Figs can tolerate a very wide range of urban conditions.			•	
<i>Fraxinus griffithii</i>	Evergreen Ash	E	E					•	
<i>Ginkgo biloba</i>	Maidenhair Tree	D	E	Very attractive yellow autumn foliage.	Very slow growing tree. Does not tolerate extended periods of dry soil.			•	
<i>Gleditsia triacanthos</i>	Honeylocust	D	E	Finely dissected foliage that turns yellow in Autumn.	There are a number of cultivars available, some of which are thornless. Honeylocust tolerates a wide range of conditions but prefers well-drained soil.	•		•	



Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Jacaranda mimosifolia</i>	Jacaranda	E	E	Attractive purple flowers and dissected foliage.	Small, young specimens do not tolerate frost well.			•	
<i>Koelreuteria paniculata</i>	Golden Rain Tree	D	E	Multi-seasonal interest provided by bronze/gold autumn foliage and yellow flowers in Summer.	Slow-growing tree that may require irrigation during establishment. Best grown in well-managed sites in full-sun.			•	
<i>Lagerstroemia indica</i>	Crepe Myrtle	D	E	A variety of different coloured flowering cultivars are available. Many cultivars have peeling bark that is very attractive. Different cultivars also have distinctive habits, with some relatively narrow and other quite broad.	Can be grown in height- restricted sites. Most selections of Lagerstroemia are now resistant to Powdery Mildew, which has been a problem in the past.	•		•	
<i>Leptospermum continentale</i>	Prickly Tea Tree	E	N					•	
<i>Leptospermum petersonii</i>	Lemon Scented Tea Tree	E	N					•	
<i>Liriodendron tulipifera</i>	Tulip Tree	D	E					•	
<i>Lophostemon confertus</i>	Brush Box	E	N	Medium sized tree with rounded head and attractive bark and mid-dark green glossy leaves.	The trees do not grow an extensive root system.			•	
<i>Magnolia cultivars (deciduous)</i>	Magnolia	D	E	Excellent specimen tree because of their magnificent display of flowers and autumn colour.	Most Magnolias do not tolerate root disturbance and are better suited to public open spaces than in streets.			•	
<i>Magnolia grandiflora</i>	Evergreen Magnolia or Bull Bay Magnolia	E	E	Large, glossy green leaves with bronze underside.	Evergreen Magnolias prefer well- drained soil and may require some summer irrigation whilst establishing. 'Little Gem' is one of the dwarf cultivars available with very compact growth.	•		•	
<i>Malus tschonoskii</i>	Crabapple	D	E	Great autumn foliage colour.	Narrow, upright tree.			•	
<i>Malus ioensis 'Plena'</i>	Crabapple	D	E					•	
<i>Melaleuca armillaris</i>	Bracelet Honey Myrtle	E	N					•	

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
<i>Melaleuca ericifolia</i>	Swamp Paperbark	E	N					•	
<i>Melaleuca linarifolia</i>	Snow in Summer	E	N					•	
<i>Melaleuca styphelioides</i>	Prickly-leaf Paperbark	E	N					•	
<i>Melia azedarach</i>	White Cedar	D	N	Small, broad tree with vivid green foliage and lilac flowers in late spring.	Fruit drop is a significant problem as it is a tripping hazard. However, there are now low fruiting cultivars available, such as 'Elite'.	•		•	
<i>Nothofagus cunninghamii</i>	Myrtle Beech	E	I		Ornamental tree for high rainfall areas. Does not tolerate dry conditions, particularly during establishment.			•	•
<i>Pistachia chinensis</i>	Chinese Pistachio	D	E	Extremely colourful autumn foliage turning from green to red.	Difficult to find specimens with one central leader and is therefore better used in public open spaces instead of streets.			•	
<i>Platanus x acerifolia</i>	London Plane	D	E	Very attractive mottled brown/grey bark. Large green leaves turning yellow in Autumn.	Avoid seedling stock because the form and branch attachment can vary significantly. There are various cultivars available such as 'Bloodgood', 'Columbia' and 'Liberty'. High tolerance to dry soil conditions and frost. Suitable for large streets/avenues.	•		•	
<i>Platanus orientalis</i>	Oriental Plane	D	E	Very attractive mottled brown/grey bark. Large green leaves turning yellow in Autumn.	Avoid seedling stock because the form and branch attachment can vary significantly. There are various cultivars available such as 'Autumn Glory'. High tolerance to dry soil conditions and frost. Suitable for large streets/avenues.	•		•	
<i>Prunus cultivars</i>	Flowering Plum	D	E	Most cultivars have spectacular flowers. Flowers range in colour from white, pink and red. Leaves and autumn colours vary significantly between cultivars.	Form of tree varies and can be upright, weeping, vase-shaped, etc. It is important to select cultivars that are less susceptible to leaf curl, canker and borer, which can affect some Plum trees. Popular cultivars include: 'Shirotae' (syn. 'Mt Fuji'), <i>Prunus fruticosa</i> 'Globosa', <i>Prunus cerasifera</i> 'Crimson Spire'.	•		•	
<i>Pyrus calleryana cultivars</i>	Callery Pear	D	E	Mass of beautiful white flowers in Spring. Gold to red, to burgundy foliage in Autumn.	There are many cultivars of varying sizes and habit including 'Aristocrat', 'Capital' and 'Chanticleer'. In general, Callery Pears tolerates a wide range of conditions including dry soils. However, they do have a tendency to lose limbs	•		•	

Tree Species		Characteristics of Species				Suitable Landscape Use or Location			
Species	Common Name(s)	Deciduous / Evergreen	Origin	Special features: Flowers Foliage, Fruit Bark Scent	Other comments	Streets	Under Powerlines	Parks and Gardens	Revegetation Areas
					in storm events particularly when they have heavy fruit set. Cultivars that are tolerant of windy conditions and have good branch attachment should be selected.				
<i>Quercus coccinea</i>	Scarlet Oak	D	E	Large, rounded tree with very vivid deep scarlet red foliage in Autumn.	Relatively tolerant of dry, gravelly/sandy soils with low organic matter.	•		•	
<i>Quercus palustris</i>	Pin Oak	D	E	Large Oak with deeply lobed green leaves that turn crimson in Autumn.	Trees hold onto leaves for extended period before falling and young trees may return foliage during winter. There are cultivars now available which defoliate early. They also tolerate sites that have extended wet periods during winter. They may require irrigation in summer months. There is a columnar cultivar available.	•		•	
<i>Quercus rubra</i>	Red Oak	D	E	Acorns/Dark brown bark. Red to golden brown foliage in Autumn.	Probably doesn't provide as much year-round interest as other species listed.	•		•	
<i>Tilia cordata</i>	Linden	D	E			•		•	
<i>Tristaniopsis laurina</i>	Kanooka	E	N	Fine brown bark that exfoliates to reveal smooth cream beneath.	Versatile tree that grows in a wide range of conditions. Responds well to pruning if required.	•		•	
<i>Ulmus parvifolia</i>	Chinese Elm	SD	E	Attractive mottled orange-brown peeling bark.	Rapidly growing tree that tolerates range of conditions. Trees can develop more than one dominant leader which can present problems. May require regular irrigation in summer.	•		•	
<i>Waterhousea floribunda</i>	Weeping Lillypilly	E	N					•	
<i>Zelkova serrata</i> 'Green Vase'	Zelkova	SD	E	Beautiful shade tree, with attractive bright green, serrated leaves. Attractive, smooth grey bark.	Highly adaptable to different soils. Doesn't tolerate very wet sites.	•		•	

APPENDIX 5

SAMPLE OF NOTIFICATION



## Electric Line Clearance Inspection Audit Checklist

In house team / Contractor .....

Site / Location.....

Date..... Time .....

Inspector .....

Signed by Inspector .....

Signed by Nominated Representative.....

	YES	NO	N/A
Safe Work Method Statement / Job Safety Analysis completed			
Traffic management signs in place			
Cone / bollards in place			
Staff wearing safety footwear, hard hats, ear protection, hi vis			
Electric line operators wearing long sleeve cotton shirts			
Safety observer present			
Compliance with AS 4373-2007 Pruning of amenity trees			
Vegetation clearance meets Electricity Safety (Installations) Regulations 2009			
Staff qualified and competent - holding current certifications			
Plant / equipment used correctly			
Remedial works required			
First aid kit			
Elevated work platform electrical test date			
Harness expiry date			

Notes:.....

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## APPENDIX 6

### SAMPLE OF NOTIFICATION

(Letter Format)

Owner/Occupier

«Address»

Dear Sir/Madam

ELECTRICITY SAFETY (ELECTRIC LINE CLEARANCE) REGULATIONS 2015 - NOTIFICATION OF STREET TREE  
ELECTRIC LINE PRUNING MAINTENANCE

The «tree» trees at the above location have been identified as encroaching electric line utilities under the Electricity Safety (Electric Line Clearance) Regulations 2015.

Under the Regulation, Baw Baw Shire Council will give notice of pruning workings with a minimum of 14 days before the intended pruning and/or tree removal works are carried out.

Baw Baw Shire Council will be carrying out electric line pruning clearances between «date» and «date» at the above location.

In the meantime, should you require any further information, please do not hesitate to contact Ken Lindsey, Acting Leading Hand Arboriculturalist on 03 5624 2587.

Yours sincerely

Garry Websdale

Coordinator Infrastructure Maintenance



# Public Notice

## Upcoming Electric Line Clearance Works

Baw Baw Shire Council is committed to providing high quality, best practice services to ensure the safety of our community, protection of natural assets and compliance with legislative requirements.

In accordance with Council's Electric Line Clearance Management Plan and requirements by Energy Safe Victoria, Council will soon commence clearance works.

Clearance works are expected to be completed between 1 July and 30 November 2019.

For more information please contact Council's Infrastructure Maintenance team on 1300 BAW BAW (1300 229 229) or on 5624 2411.

»[bawbawshire.vic.gov.au](http://bawbawshire.vic.gov.au)

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