



Electric Line Clearance Management Plan 2023-2024

Electricity Safety (Electric Line Clearance)
Regulations 2020



Interpreter service

9840 9355

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MANNINGHAM

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1 Overview

The Manningham Council Electric Line Clearance Management Plan (the Plan) has been prepared as part of obligations as a responsible person per the Electricity Safety (Electric Line Clearance) Regulations 2020 (the Regulations). The Plan has been structured to align with the relevant regulations, clauses, and schedules of the Regulations, with sections and parts of the Plan numbered correspondingly to those of the Regulations for cross referencing.

The cyclic tree pruning to achieve the objectives of this Plan is part of Council's strategic reporting framework and is reported within Council in the Parks and Recreation Service Unit Plan. Compliance with this Plan is also a requirement as part of Manningham's Tree Pruning Contract **TRIM Ref: EF21/4461**.

2 Preparation and submission of Management Plans

Manningham Council (Council) is a responsible person per (2) of the Regulations. Council will conduct an annual review and amendment of the Plan as required by March 31st of each year. This will include a review of all associated regulations, standards and source material listed within this document to ensure current and accurate information for management practices.

Amendments to the Plan will be listed in a Table of Amendments in Appendix 5.

The Plan is stored in Council's document management system (**TRIM Ref: D22/85672**), Council's website (www.manningham.vic.gov.au) and at the Manningham Civic Centre and is available to ESV upon request for review.

2.1.1 Contact Details Responsible Person of The Plan

Name:	Manningham Council
Address:	699 Doncaster Road, Doncaster Vic 3108
Postal Address:	PO Box 1, Doncaster Vic 3108
Telephone No:	(03) 9840 9333
Name of Chief Executive Officer:	Andrew Day

2.1.2 Contact Details Individual Preparing the Plan

Name:	Rachelle Quattrocchi
Address:	Director City Services
Postal Address:	699 Doncaster Road, Doncaster Vic 3108
Telephone No:	(03) 9840 9333

2.1.3 Contact Details Persons Carrying Out the Plan

Name:	Helen Napier
Address:	Manager Sustainable Futures
Postal Address:	Manningham Council Depot 620 Blackburn Road, East Doncaster Vic 3109
Telephone No:	(03) 9840 9333

Name:	Michael Tregonning
Address:	Coordinator Parks & Natural Environments
Postal Address:	Manningham Council Depot 620 Blackburn Road, East Doncaster Vic 3109
Telephone No:	(03) 9840 9333

2.1.4 Emergency Contact

Emergency Telephone No:	9840 9333 (24 Hours, 7 Days A Week)
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3 Distribution Business Communication and Information

Council contacts Distribution Businesses (DB) within Manningham regularly about dangerous trees and trees works required around powerlines to reduce the risk of failures onto powerlines and improve service continuity. Annual meetings are scheduled to discuss operations, any issues and potential improvements.

Council is provided spreadsheets where there are proposed works on Council trees by DBs, or where there is concern regarding potential failures, which is reviewed by Council for management options.

Council contacts or refers to DBs where failure of private vegetation onto powerlines, or there is a perceived risk from Council trees that cannot be adequately abated by Council. The potential for engineered options will also be discussed and cost benefit analysis completed where there is a significant tree that would otherwise need removal or be compromised by clearance cutting.

3.1.1 The names and contact details for the Distribution Businesses that operate within the Manningham City Council are:

United Energy	
Address:	Level 1, 43/45 Centerway Place, Mt Waverley Vic 3149
Contact name:	Leo Hourigan
Contact number:	9683 4851

AusNet Services	
Address:	8 Beaconsfield Ave, Beaconsfield Vic 3807
Contact name:	Spencer Few
Contact number:	131 799

4 Objectives Of The Plan

The objectives of the Plan are to ensure public and workplace safety in relation to fire risk, human injury and continuity of supply through maintaining appropriate distance between electric lines and vegetation, while ensuring protection of significant vegetation and local areas of importance throughout the municipality. **This is to be achieved via:**

1. identifying areas managed by Council for electric line clearance.
2. ensuring that trees in areas managed by Council are done so in a manner compliant with the prescribed Code of Practice for Electric Line Clearance (the Code);
3. maintaining the required minimum clearance space of vegetation from powerlines by pruning the tree/s in accordance with AS 4373-2007 and minimising removal of indigenous or significant trees wherever so practicable.
4. providing a resource of Council procedure and expectation to Council's electric line clearance contractor (the Contractor).
5. detailing Councils auditing process and mechanisms to ensure compliance with the Code.
6. describing process for the identification and works for Hazard Trees within the municipality to minimise the danger of trees contacting electric lines.
7. recording information relating to management programs of trees where exception has been provided by Energy Safe Victoria (ESV); and
8. outlining procedures for the independent resolution of disputes relating to electric line clearance.

4.1 Land to Which The Plan Applies

Manningham manages the clearance of electrical lines per the Code within all declared areas indicated in Figure 1.

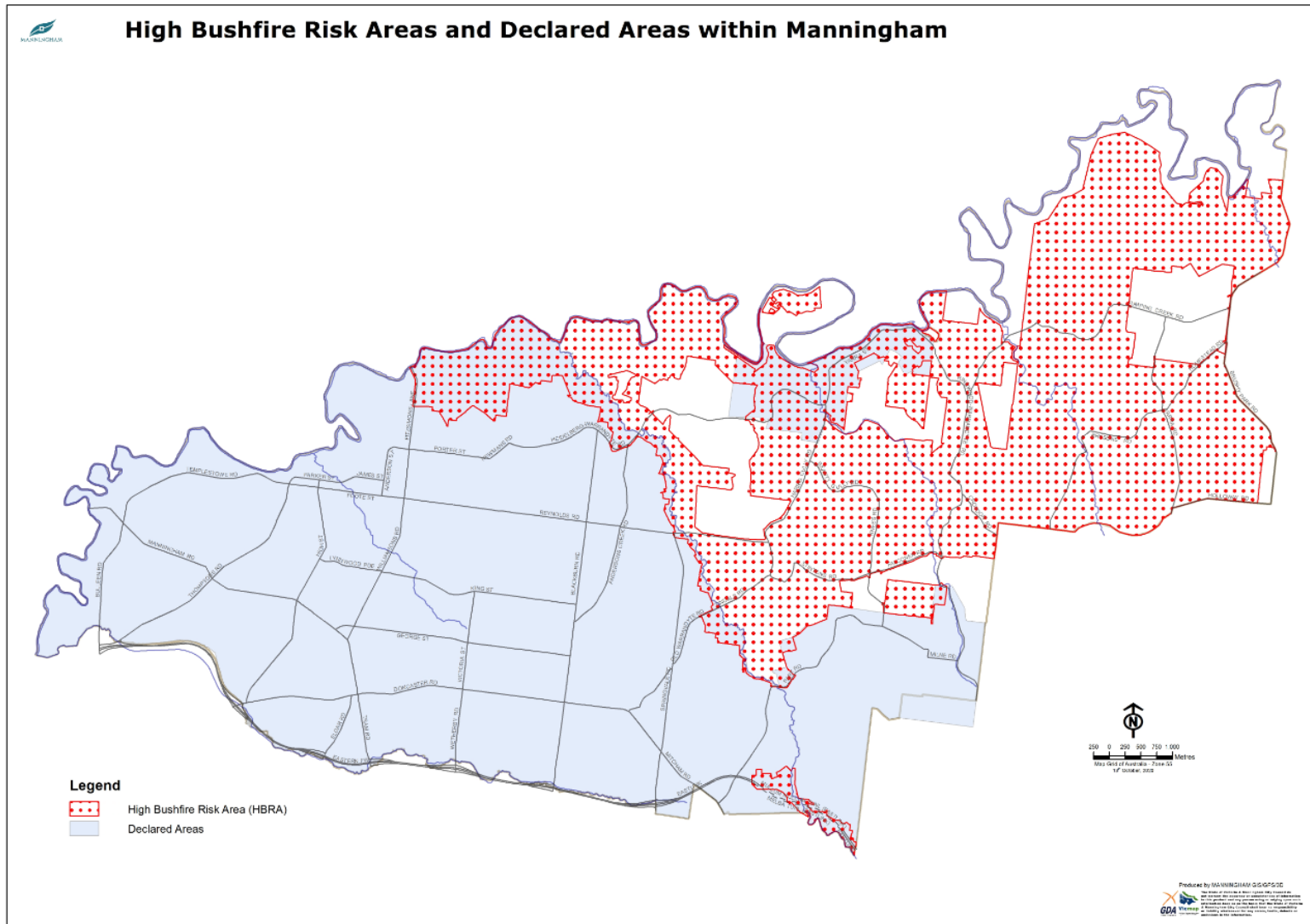


Figure 1: Manningham High Bushfire Risk Areas (red dashed) and Declared Areas (blue shading)

4.2 Hazardous Bushfire Areas

Figure 1 identifies Manningham's High Bushfire Risk Areas (HBRA) and Low Bushfire Risk Areas (LBRA). Council will conduct an annual review and consult CFA on Fire Hazard Ratings areas (HBRA and LBRA) and Declared Zones within The Plan to ensure currency.

4.3 Significant and Victorian Indigenous Trees

Manningham contains a mix of exotic, native and indigenous vegetation; some of which having been planted from stock sourced externally from the municipality (most commonly in urban areas) or planted stock of local provenance, or naturally occurring vegetation arising from local provenance.

Council's tree management program TreePlotter contains information on all tree assessments within the municipality, with records for trees of significance updated and maintained within this GIS platform. This information is available to the Contactor.

4.4 Victorian indigenous vegetation

Indigenous Victorian vegetation is taken to be that described as Native Vegetation under the General Terms of clause 73.01 of the Victorian Planning Provisions:

'Plants that are indigenous to Victoria, including trees, shrubs, herbs, and grasses.'

4.5 Planning overlays for protection of vegetation

Manningham City Council has a number of planning overlays designed to protect the structure and nature of ecological, historical, aesthetic significance and other vegetation types throughout the municipality.

These include Heritage Overlay (HO), Environmental Significance Overlay (ESO), Significant Landscape Overlay (SLO) and Vegetation Protection Overlay (VPO) areas that are recorded in Councils GIS, which are represented on maps in Figure 2, Figure 3, and Figure 4.



Sites within Manningham with a Significant Landscape Overlay

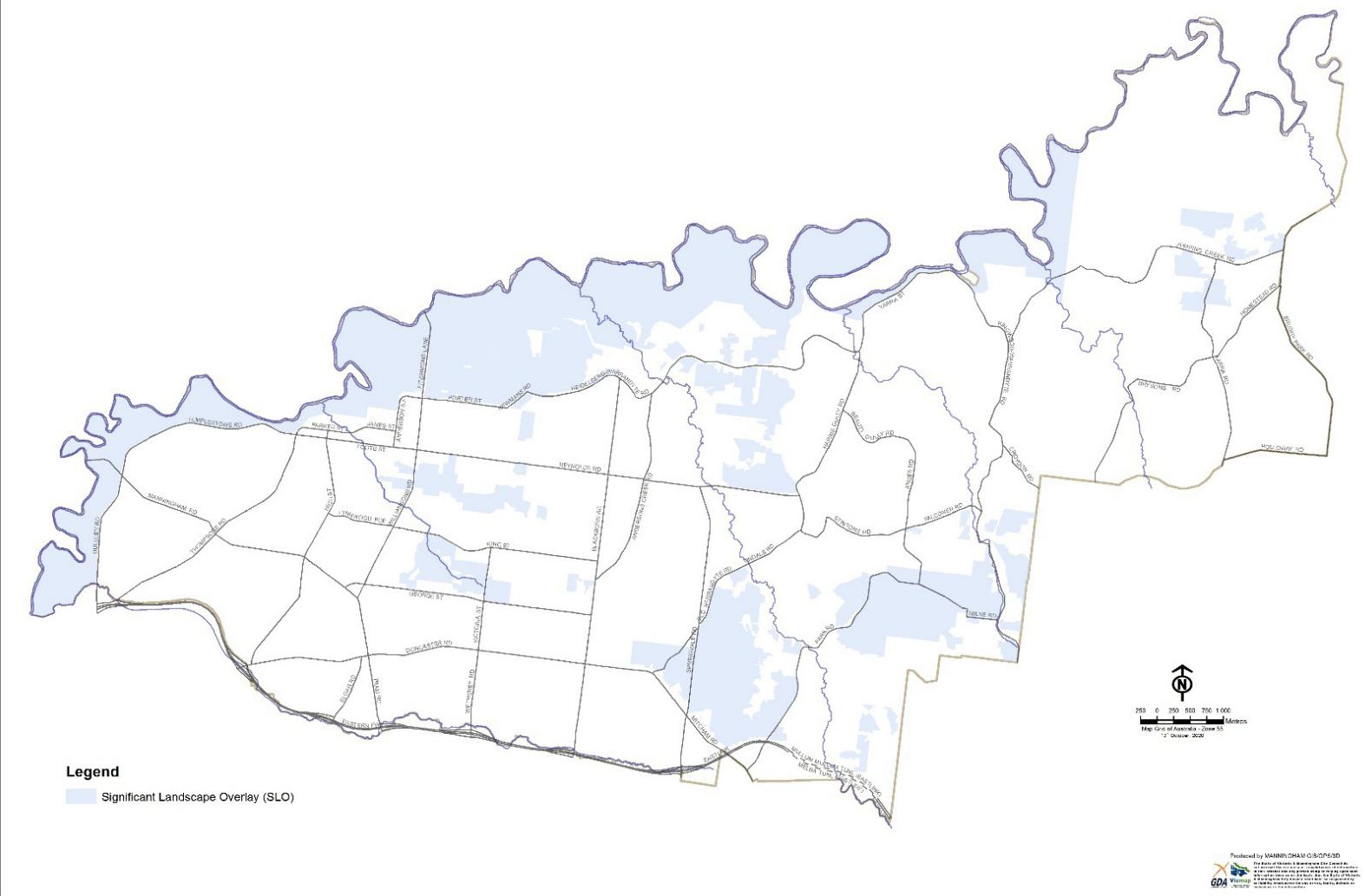


Figure 2: Manningham Significant Landscape Overlay (SLO) areas (blue shaded).





Sites within Manningham with a Vegetation Protection Overlay

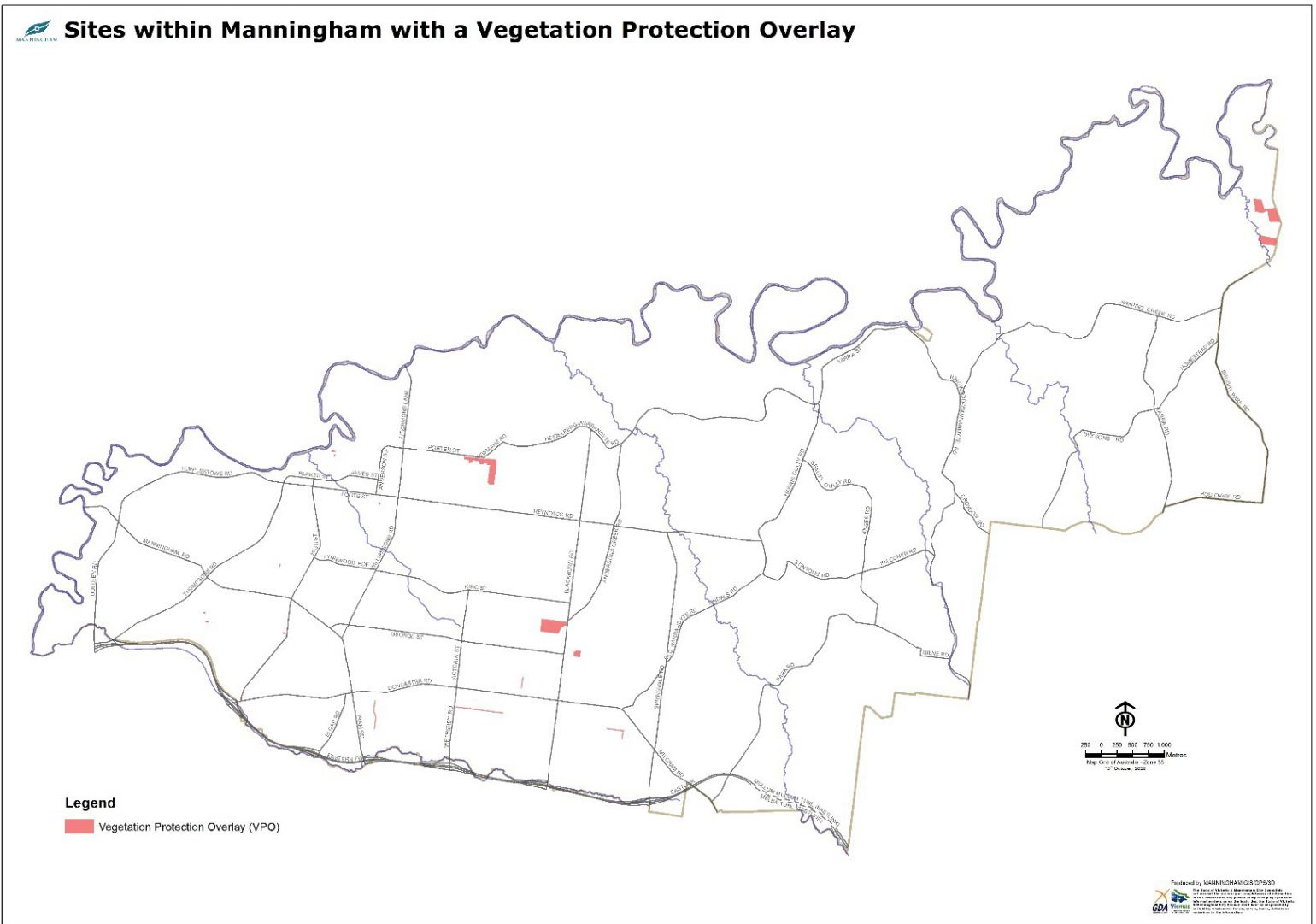


Figure 3: Manningham Vegetation Protection Overlay (VPO) areas (red shaded).





Sites within Manningham with a Heritage Overlay

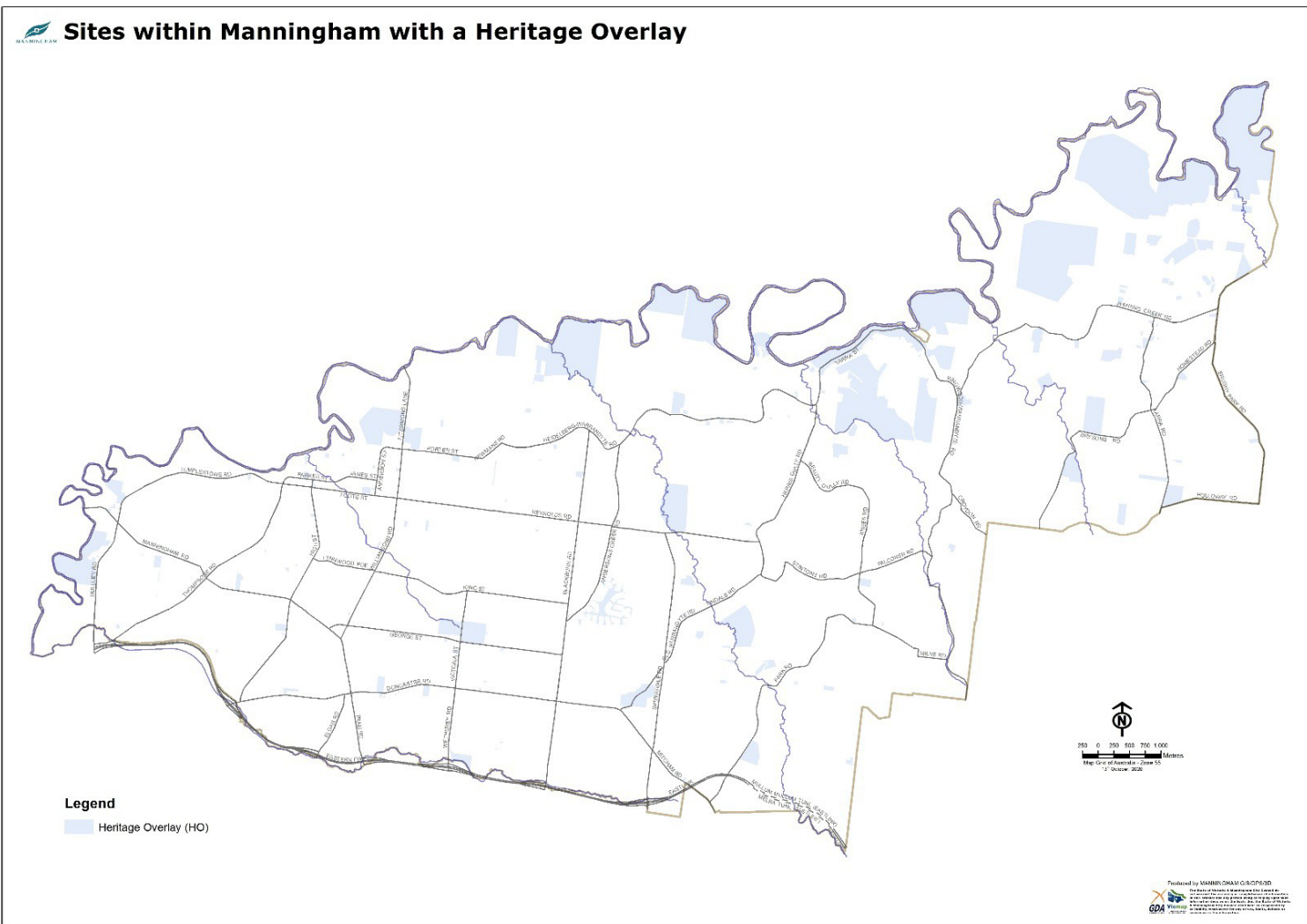


Figure 4: Manningham Heritage Overlay (HO) areas (blue shaded).

4.6 Tree of cultural or environmental significance

Vegetation that is determined to be historically important or of outstanding aesthetic value has been assessed by Manningham Heritage Garden Significant Tree Study Stage 2 report April 2006 and are listed in Table 1.

This table will be updated to identify trees that may be affected by electric line clearance.

There are various areas of ecological, environmental and conservational significance throughout the municipality that contains vegetation considered to be of environmental significance. These areas are recorded in Councils GIS and represented on maps in Figure 5, Figure 6, and Figure 7.

Pruning or clearing of vegetation considered to be the habitat of threatened invertebrate and vertebrate fauna per the Flora and Fauna Guarantee Act 1988 (FFG Act) will be managed within areas of environmental or ecological significance to minimise the impact on such wildlife.

Wherever practicable clearing or pruning activities conducted within the declared areas will be undertaken outside the normal breeding periods of fauna specified in the FFG Act. Where not practicable, relocation options will be determined with suitably qualified ecological advice and assistance.

4.6.1 Table 1: Manningham City Council Heritage Garden and Significant Tree Register

ID	Location/Address	Suburb	Type	Description	Significance
1	55 Alfreda Avenue	Bulleen	Tree	Liriodendron tulipifera	Local
2	Cnr Balwyn Road & Doyle Street (near 30 Doyle St)	Bulleen	Tree	Eucalyptus camaldulensis	Local
3	Cnr Bridge & Manningham Road	Bulleen	Tree	Eucalyptus camaldulensis	Regional
4	Egan Drive	Bulleen	Trees	Ulmus procera & Pinus canariensis	Local
5	43 Harold Street	Bulleen	Tree	Eucalyptus sideroxylon	Local
6	1 Robb Close	Bulleen	Tree	Ficus macrophylla	Regional
7	6 Robb Close	Bulleen	Trees	"Clarendon Eyre" Poplars, Elms, Palms nominated	Local
8	52 Templestowe Road	Bulleen	Tree	Ulmus glabra 'Lutescens'	Local
9	Heide I, 7 Templestowe Road	Bulleen	Garden	Garden layout	State
10	Heide I, 7 Templestowe Road	Bulleen	Tree	Pinus pinaster	Regional
11	Heide I, 7 Templestowe Road	Bulleen	Tree	Quercus canariensis	State
12	Heide I, 7 Templestowe Road	Bulleen	Tree	Three Quercus canariensis	Regional
13	Heide I & II, 7 Templestowe Road	Bulleen	Trees	Maclura pomifera row	Regional
14	Heide II, 7 Templestowe Road	Bulleen	Garden	Kitchen garden layout	State
15	Heide II, 7 Templestowe Road	Bulleen	Tree	Aboriginal Scarred Eucalyptus camaldulensis	State
16	Heide II, 7 Templestowe Road	Bulleen	Tree	Eucalyptus camaldulensis	Local
17	Heide II, 7 Templestowe Road	Bulleen	Tree	Quercus canariensis	Regional
18	Heide II, 7 Templestowe Road	Bulleen	Tree	Quercus ilex	Local
19	Heide II, 7 Templestowe Road	Bulleen	Tree	Ulmus glabra 'Lutescens'	Local
20	Yarra Valley Country Club, 9-15 Templestowe Road	Bulleen	Trees	Remnant Eucalyptus camadulensis	Regional
21	Yarra Valley Country Club, 9-15 Templestowe Road	Bulleen	Trees	Second Remnant Eucalyptus camadulensis	Regional
22	17 White Way	Bulleen	Tree	Corymbia maculata	Local

ID	Location/Address	Suburb	Type	Description	Significance
23	Opposite 3 Beverley Street	Doncaster	Tree	Angophora floribunda	Local
25	106-118 Church Road	Doncaster	Tree	Eucalyptus cinerea	Local
26	Doncaster Primary School, 2-12 Council Street	Doncaster	Trees	Quercus canariensis	Regional
27	473-535 Doncaster Road	Doncaster	Tree	Quercus robur	Regional
28	699 Doncaster Road	Doncaster	Trees	Two Quercus robur outside municipal offices	Local
29	174-178 George Street	Doncaster	Trees	Ulmus glabra 'Lutescens'	Local
30	Rieschiecks Reserve, 125 George Street	Doncaster	Trees	Cupressus sempervirens	Local
31	3 Henry Street	Doncaster	Trees	Orchard	Local
32	131 High Street	Doncaster	Garden	Box hedges and garden	State
33	131 High Street	Doncaster	Tree	Ficus carica	State
34	126, 128, 130, 132, 136 & 138 High Street	Doncaster	Trees	Pine Windbreak	Local
35	JJ Tully Drive	Doncaster	Tree	Ulmus glabra 'Camperdownii'	Local
36	51-53 Victoria Street	Doncaster	Tree	Phoenix canariensis	Regional
37	51-53 Victoria Street	Doncaster	Tree	Quercus robur	Regional
38	Ruffey Lake Park, Victoria Street	Doncaster	Tree	Araucaria bidwillii	Local
39	Ruffey Lake Park, Victoria Street	Doncaster	Tree	Pyrus 'Black Achan'	State
40	Walker Street	Doncaster	Trees	Street tree plantings of Quercus palustris	Local
41	Doncaster Shopping Town, Williamsons Road	Doncaster	Trees	Corymbia citriodora	Local
42	Doncaster Shopping Town, Williamsons Road	Doncaster	Tree	Phoenix canariensis	Regional
43	11 Bellevue Avenue	Doncaster	Trees	Pinus radiata surrounding reservoir	Local
44	Zerbes Reserve, 293 Blackburn Road	Doncaster East	Trees	Cupressus macrocarpa	Local
45	Zerbes Reserve, 293 Blackburn Road	Doncaster East	Trees	Eucalyptus nortonii	Regional
46	Zerbes Reserve, 293 Blackburn Road	Doncaster East	Trees	Lophostemon confertus	Local
47	Zerbes Reserve, 293 Blackburn Road	Doncaster East	Tree	Pinus brutia. - Turkish Pine	Local

ID	Location/Address	Suburb	Type	Description	Significance
48	87-89 Carbine Street	Doncaster	Trees	Pinus radiata windbreaks	Local
49	10 Dehnert Street	Doncaster	Garden	Cedrus deodara (Garden is not significant)	Local
50	Kennon Street	Doncaster	Trees	Street tree plantings of Quercus palustris	Local
51	77 Tunstall Road	Doncaster	Tree	Quercus palustris inside Tunstall Square Kindergarten	Local
52	Ross Street	Doncaster	Trees	Street tree plantings of Quercus palustris	Local
53	Craileen & Hamal Streets	Donvale	Trees	Street tree plantings of Quercus palustris	Local
54	137-139 Glenvale Road	Donvale	Trees	Pinus radiata windbreak	Local
55	81 Mitcham Road	Donvale	Tree	Eucalyptus melliodora	Local
56	123-127 Mitcham Road	Donvale	Garden	Quercus robur	Local
57	16 Old Warrandyte Road	Donvale	Garden	Associated with Percy Meldrum designed house	Regional
58	46-48 Old Warrandyte Road	Donvale	Trees	Pinus radiata windbreak	Local
59	Berrima Road Reserve, One Tree Hill Road	Donvale	Tree	Eucalyptus polyanthemus	Local
60	208 Park Road	Donvale	Trees	Malus domestica (orchard not significant)	Local
61	Springvale Road	Donvale	Tree	Cupressus macrocarpa	Regional
64	37 Rooney Street	Lower Templestowe	Tree	Ulmus glabra 'Camperdownii'	Regional
65	18 Union Street	Lower Templestowe	Tree	Malus ioensis	Local
66	39 Atkinson Street	Templestowe	Tree	Quercus suber	Local
67	4 Beverley Hills Drive	Templestowe	Tree	Quercus robur	Local
68	Lot 2 Fitzsimmons Lane	Templestowe	Trees	Eucalyptus camaldulensis	State
69	54 Mahoney Street	Templestowe	Trees	Ulmus x hollandica	Local
70	57 O'Briens Lane	Templestowe	Garden	"Carrimar" - Paul Thompson designed native garden	Regional

ID	Location/Address	Suburb	Type	Description	Significance
71	107 Porter Street (The Greenery)	Templestowe	Trees	3 Eucalyptus camaldulensis in front of "The Greenery"	State
72	107 Porter Street (The Greenery)	Templestowe	Trees	Eucalyptus camaldulensis within the "The Greenery"	State
73	107 Porter Street (The Greenery)	Templestowe	Trees	Second Eucalyptus camaldulensis within the "The Greenery"	State
74	9 Serpells Road	Templestowe	Garden	"Arden-holme" Remnants of a Walling Garden following sub- division	Local
75	52-54 Serpells Road	Templestowe	Trees	Cupressus macrocarpa hedge	Regional
76	3-21 Unwin Street	Templestowe	Trees	Cupressus macrocarpa windbreak, across 10 properties	Local
77	Pontville Homestead, 16-20 Websters Road	Templestowe	Trees	Cupressus sempervirens	Local
78	78 Alexander Road	Warrandyte	Tree	Eucalyptus melliodora	Regional
79	23 Tills Drive	Warrandyte	Tree	Eucalyptus sp.	Local
80	77 Yarra Street	Warrandyte	Trees	Two Quercus robur	Local
81	111 Yarra Street	Warrandyte	Tree	Schinus molle	Local
82	141 Yarra Street	Warrandyte	Tree	Cupressus macrocarpa "The Diary Tree" - National Trust Registered	Regional
83	Yarra Street	Warrandyte	Trees	Eucalyptus viminalis	Local
84	Cnr Yarra Street & Harris Gully Road	Warrandyte	Tree	Eucalyptus melliodora	Local
85	Wonga Park Primary School, 41 Dudley Road	Wonga Park	Trees	Quercus canariensis	Regional
86	10 Lauanders Avenue	Wonga Park	Trees	Two Quercus robur	Local
87	9,15, 17 & 19 Lower Homestead Road	Wonga Park	Trees	Cupressus macrocarpa windbreak	Regional
88	6 Styles Court	Wonga Park	Tree	Eucalyptus sideroxylon	Regional
89	29 Dellas Avenue	Templestowe	Garden	Intact Ellis Stones designed garden	Regional

ID	Location/Address	Suburb	Type	Description	Significance
90	Cnr Bridge Street and Manningham Road	Bulleen	Tree	Remnant Eucalyptus camaldulensis - National Trust Tree of the year 2019	State
91	Fitzsimons Lane	Templestowe	Trees	Remnant Eucalyptus camaldulensis - National Trust Registered	State
92	Friedensruh' Waldau Court	Doncaster	Tree	Morus nigra - National Trust Registered	State
93	Friedensruh' Waldau Court	Doncaster	Tree	Cedrus deodara - National Trust Registered	State
94	16 Roderick Street	Doncaster East	Tree	Pinus radiata - National Trust Registered	State

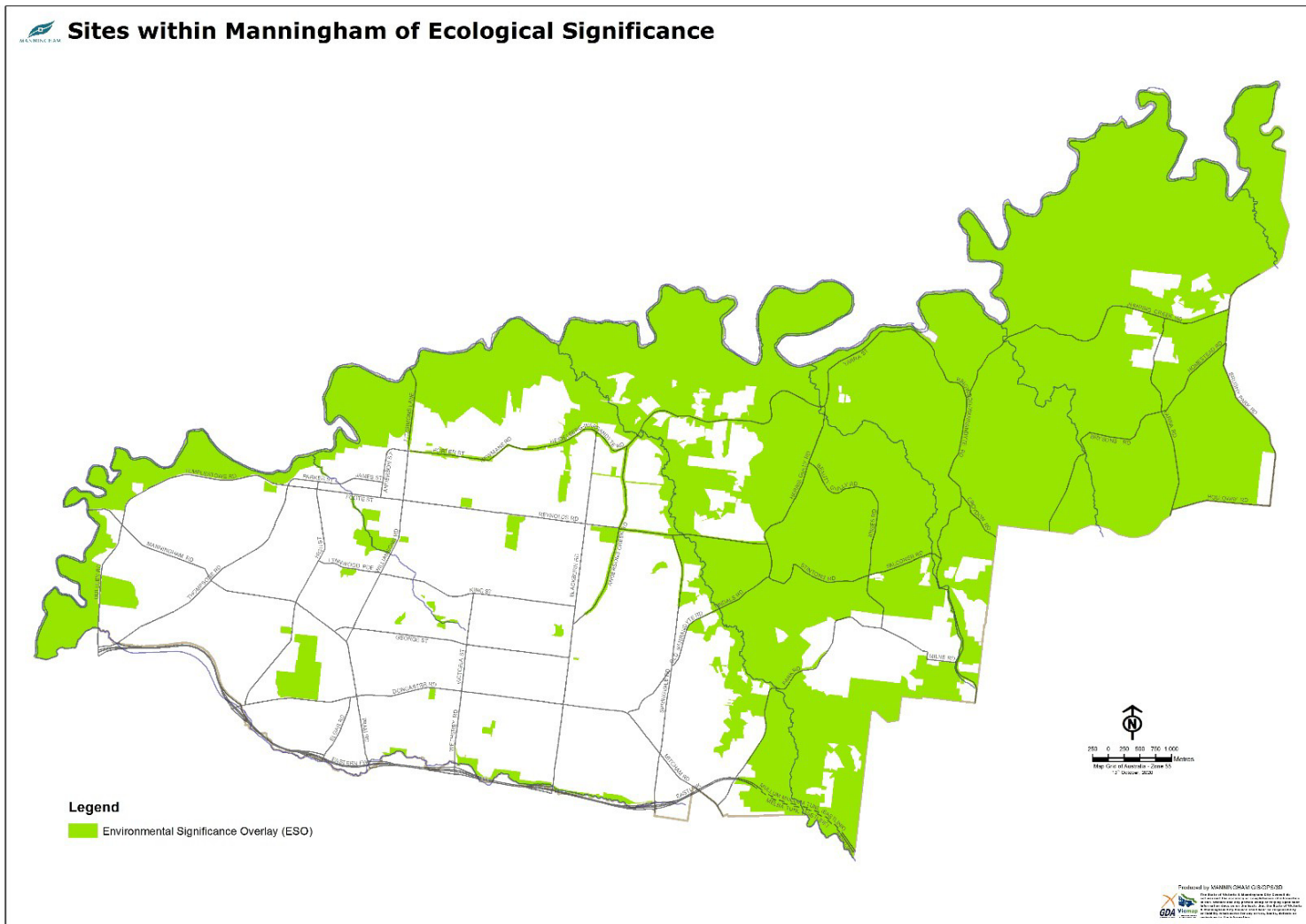


Figure 5: Manningham Areas of ecological significance (green shaded).

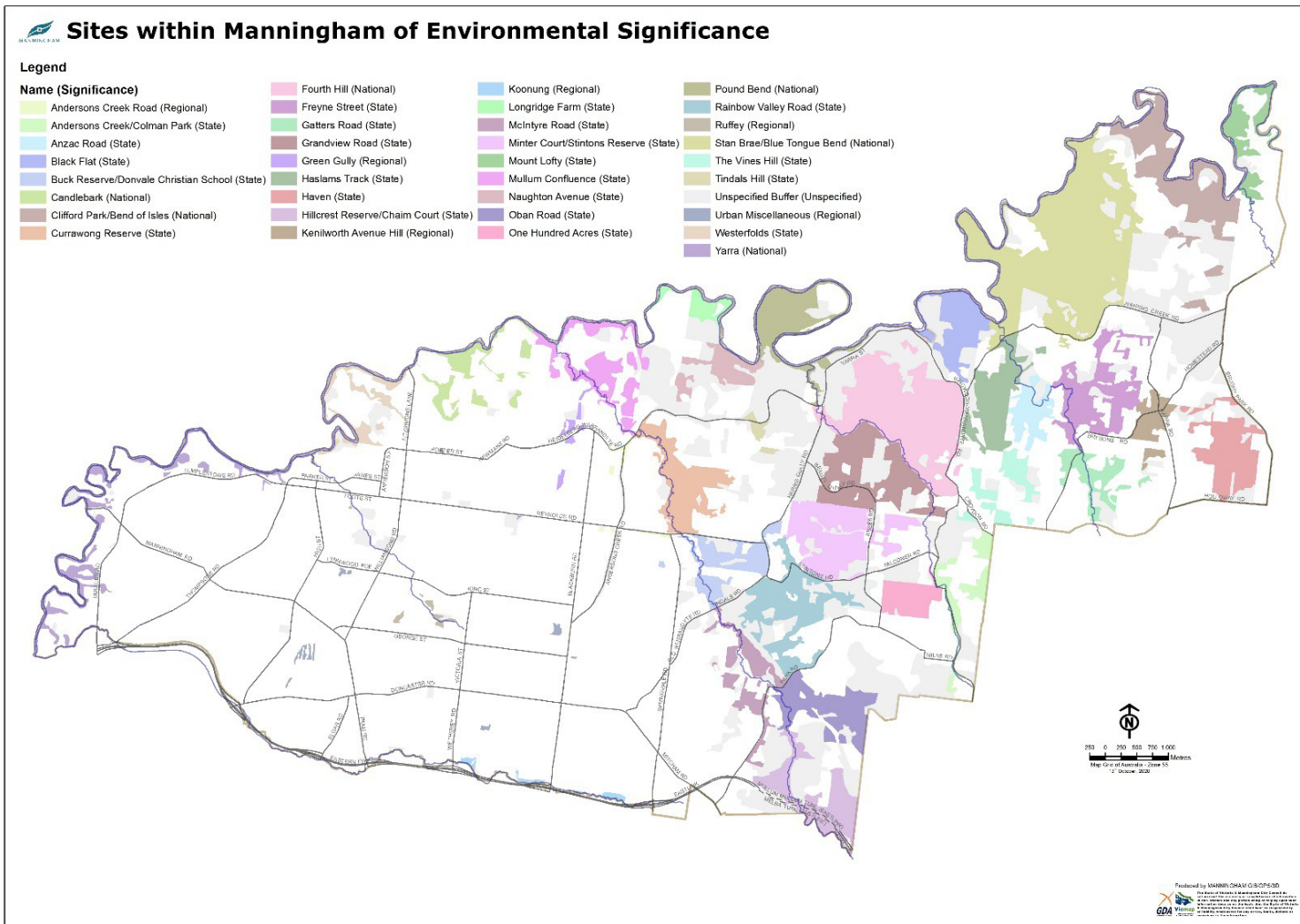


Figure 6: Manningham sites of environmental significance (as shaded)

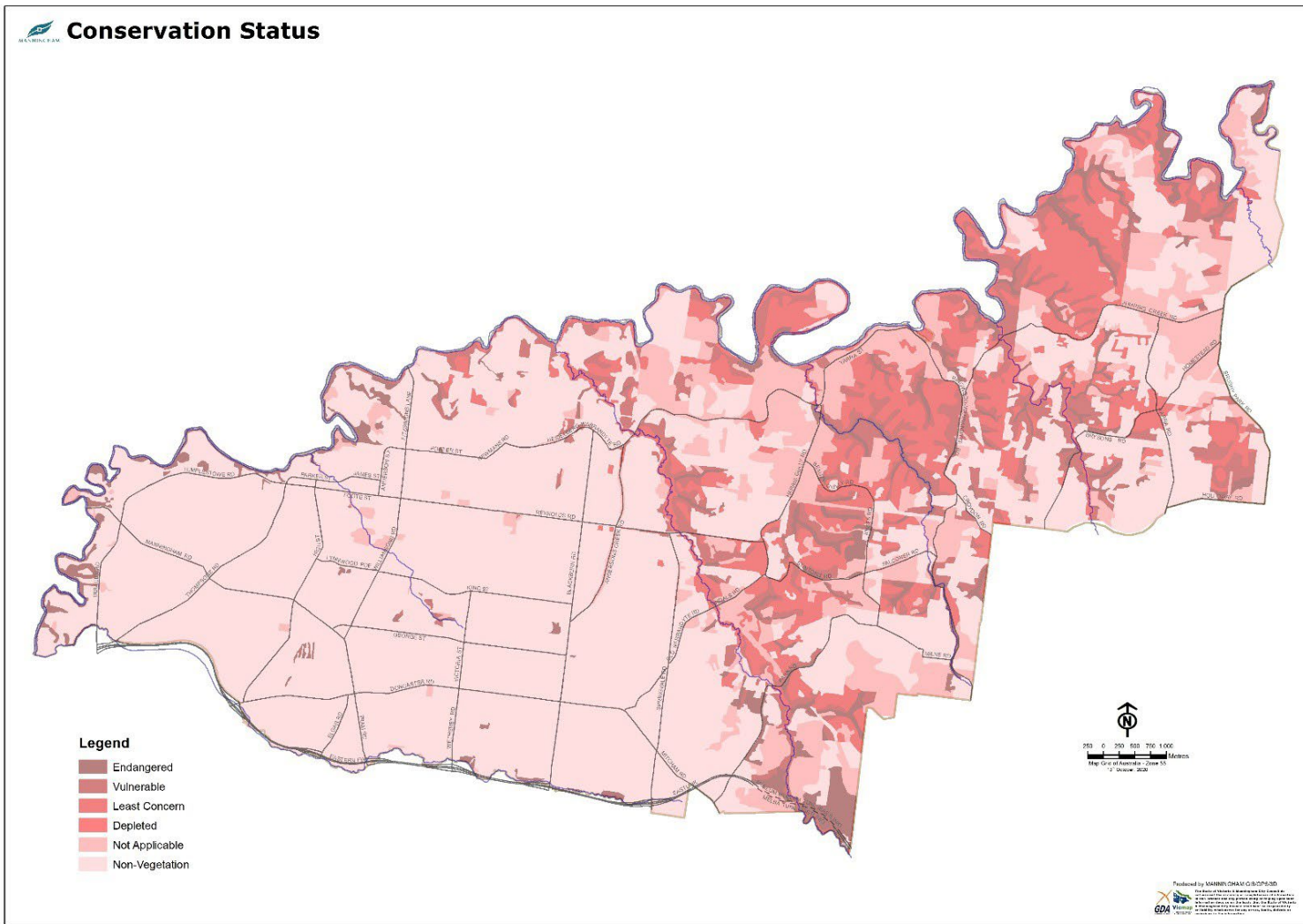


Figure 7: Conservation status of various Manningham Areas

4.7 Means to identify a tree of a kind specified in paragraph 4.4, 4.5, 4.6

Council provides diploma qualified arborists that have attained competency in vegetation/tree identification as part of their qualification to identify a tree of cultural or environmental significance, which is updated to Council GIS.

Section 4.3 of this Plan outlines trees already identified. Council conducts a yearly review of the following resources to determine trees of significance and update records to TreePlotter as required.

The Heritage Register

<https://heritagecouncil.vic.gov.au/heritage-protection/register/>

The National Trust Register

<https://trusttrees.org.au/>

Victorian Aboriginal Heritage Council

<https://www.aboriginalheritagecouncil.vic.gov.au/>

Flora and Fauna Guarantee Act Threatened List

<https://www.environment.vic.gov.au/conserving-threatened-species/threatened-list>

Threatened Species Advisory Lists

<https://www.environment.vic.gov.au/conserving-threatened-species/threatened-species-advisory-lists>

5 Management Procedures to Ensure Compliance with The Code

5.1 Cyclic Works

The principle method in ensuring compliance with The Code is through inspection and undertaking of pruning clearance works by the Contractor on a cyclic basis. As part of contract, Councils procurement identifies all inherent requirements for the position including plant and equipment required for the completion of all works. This is verified by Rapid Global and a Certificate of Compliance is provided as evidence of OH&S compliance and respective risk levels.

For this program the Municipality is divided into 6 program pruning areas. (Figure 8). As part of electric line clearance works, Areas 1-4 are completed on a biennial cycle, with Areas 5 and 6 completed annually.

Clearance operations of Areas 1-4 are generally commenced in the first half of each year; subject to emergency relief works (e.g., 2020 Victorian State of Emergency Bushfire Relief). Works to Areas 5 and 6 are conducted every year around September-November and prior to the Fire Danger Period.

Notwithstanding any exemption or exception to minimum clearance space for which Council may apply or has gained approval, nor for any other matter as determined reasonable for non-compliance by resolution process outlined in Section 7.6 of this Plan; nor any matter of first notice of non-compliance to which Council is resolving as outlined above; all clearance spaces outlined in Part 1 (23)-(29) of this Plan shall be maintained by the Contractor.

5.2 Methods Adopted for Managing Trees and Maintaining A Minimum Clearance

5.2.1 Yearly Clearance Schedule

- Areas 1 and 2 – 2021, 2023, 2025
- Areas 3 and 4 – 2022, 2024, 2026
- Areas 5 and 6 – 2021, 2022, 2023, 2024, 2025, 2026

5.2.2 Works Audit and Recording

To ensure appropriate clearance is provided from the cyclic works, a level 1/windshield audit as detailed in Section 7.3 of this Plan will be conducted by Council's arborist or their representative's suitably qualified arborist randomly whilst the area is being cleared to ensure obligations are being met. Compliance failures logged on Manningham's tree plotter program with remedial works issued to the contractor for rectification. Mass breaches will put a halt on auditing and the contractor must resubmit all works in the area to a satisfactory standard.



Program Pruning Area Map

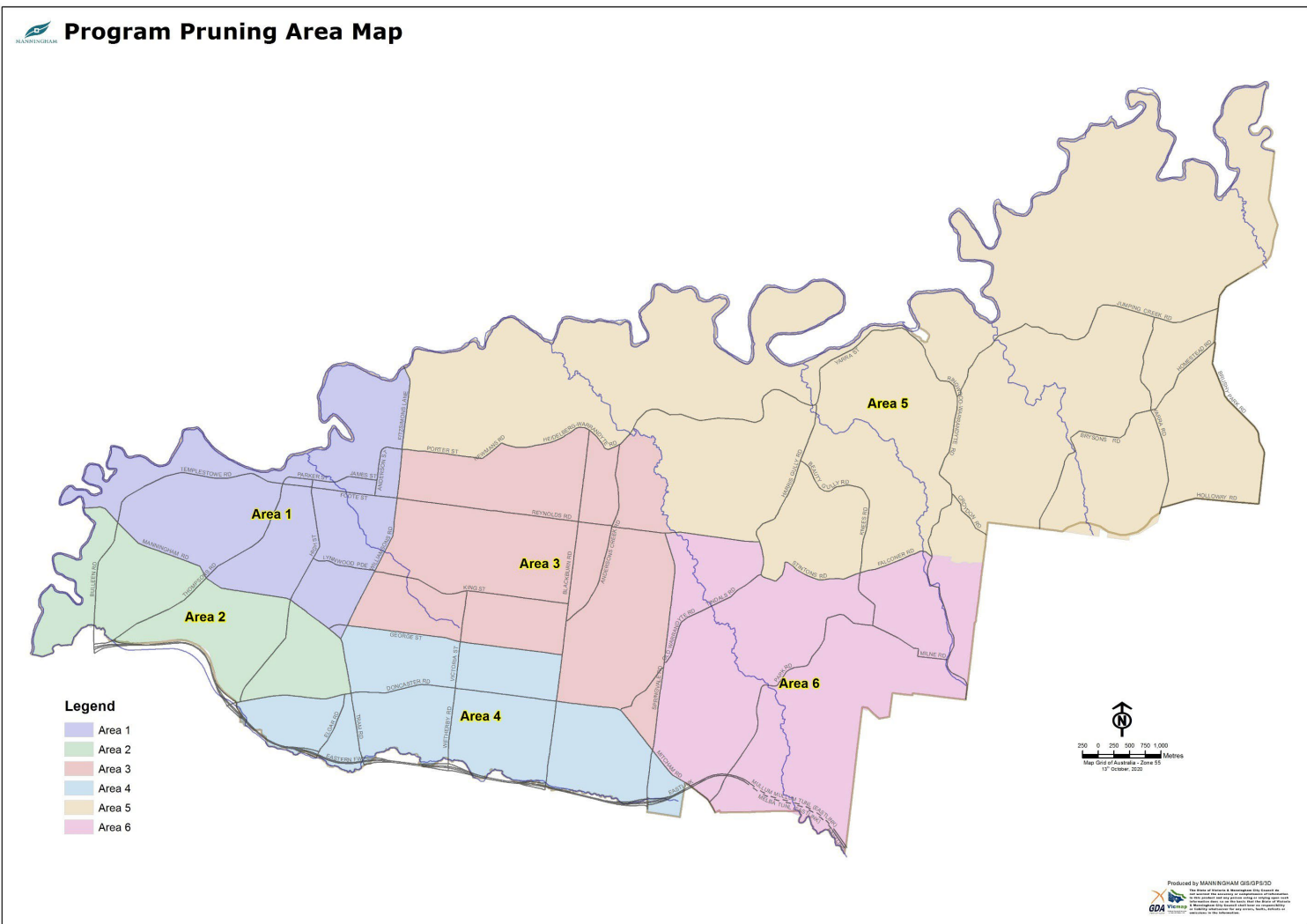


Figure 8: Manningham Programmed Area for electric line clearance (as shaded and labelled).



All non-compliant spans are recorded in Councils web-based tree management program TreePlotter, with details of re-works required provided to Councils contractor (the Contractor) for action to ensure minimum clearance distances are maintained within 31 days. Confirmation of completed works from the Contractor will be supplied to Council to be stored within Council's record keeping.

5.3 Complaints, Out of Cycle Works, Audit and Recording

Randomly chosen areas will be audited with a level 1/windshield or walk-through audit as outlined in Section 7.3 of this Plan to ensure Code compliance and quality of works per AS 4373-2007. Any spans identified in the audit as non-compliant will be issued to the Contractor for line clearance to ensure compliance within 31 days of notice. Notification of poor-quality pruning per AS 4373-2007 referred to the Contractor for immediate rectification and noted in the following monthly contractor meeting for review of cutting.

Where vegetation managed by Council is reported as encroaching on clearance distances from unanticipated growth rates, fallen/damaged trees or other unforeseen circumstances, details are recorded on Council's customer service system (CRM). CRM records the request details that includes dates, location of request, action officers, inspection findings, correspondence, works undertaken and completion notes, with each request archived within CRM for 5 years for future reference.

In general, there is uncertainty from the public about clearance distances required, the identification of power lines rather than service lines (e.g., Telstra) and Council's roles and responsibility for electric line clearance, particularly for private tree clearance or management of powerlines outside of declared areas. CRM requests that are found to be valid are escalated under the CRM category 'Tree – Electric Line Hazard' to the Contractor for completion of works within 14 days, unless specialist Live Line crew/Shutdown is required or engineered alternative, exception or exemption is sought.

Live Line crews are booked for the next available window per Live Line Agreements with the relevant Distribution company and in the case of required Shutdown works when the Distribution company has provided notification and authorisation that works can commence under Shutdown.

The Contractor will notify Council of trees it believes the tree/s cannot be successfully pruned to Code, with Council to inspect the tree/s. Where Council determines pruning is not possible and the tree/s are of significance per Section 4.3 of this Plan, it will notify ESV in writing of where such issues arise and resolve an appropriate course of action.

5.4 ELC Review and Interrogation of Non-Compliance and Regrowth

Non-compliance records will be interrogated by Council. Where patterns leading to non-compliance can be established such as regrowth into clearance space or repeated failure of scaffold/structural limbs from individual trees to cause damage to powerlines, the management of repeat non-compliance will be reviewed and modified as required. This may require additional pruning cycle, increased clearance space cutting outside of minimum clearance space to prevent regrowth, or other methods outlined in Section 6.2 of this Plan where it is impracticable to prune per AS 4373-2007 to achieve minimum clearance space.

5.5 Climate Change and Strategy for Compliance

In light of the Climate Crisis being faced by the planet and its expected impact upon the health and wellbeing of the Manningham community, Council is committed to increasing canopy coverage within the municipality. This is driven by Council's climate emergency declaration, the development of the Climate 2020 Action Plan (<https://www.manningham.vic.gov.au/file/1631>) and endorsement of the Urban Forest via the Living Melbourne Our metropolitan urban forest strategy.

Council recognizes the dichotomy of increasing canopy coverage while maintaining electrical line clearance space. Supporting documents such as the Tree Management Plan and Streetscape Character Study provide assistance in decision making process.

(<https://www.manningham.vic.gov.au/file/1631>)

(<https://www.manningham.vic.gov.au/file/27351>).

(https://www.manningham.vic.gov.au/sites/default/files/uploads/streetscape_character_study_deceember_2009.pdf)

These documents provide support for the management and selection of trees for a range of conditions, including overhead powerlines.

Keeping in mind, the benefits of larger canopy size, is a progression to planting and management of trees for suitability for the site conditions, including review of expected mature dimensions, formative pruning to shape around powerlines, vigor of species, resilience to expected climate change and removal of defective/poorly performing tree/s.

6 Hazard Trees

Hazard tree/s are identified during the Contractor works and audits by Council's suitably qualified staff or contractors, which are then programmed for pruning or removal and scheduled for action by either Council employees or Council contractors according to their hazard potential.

Hazard trees are initially identified via level 1/windshield assessments for poor condition or structural defects, with further inspection and recording to determine works required and priority for completion based on the level of hazard as expected by the suitably qualified arborist.

Hazard trees likely to affect electric lines as reported from relevant distribution businesses, residents or other sources are recorded within CRM to be investigated by a Council's suitably qualified arborist. Once the investigation has been completed and confirmed that there is a hazard tree that 'is likely to fall onto, or come into contact with, an electric line' (per Electricity Safety Act 1998 (Victoria) Section 86B), Council contractors will carry out any prescribed works required to abate the hazard and provide an acceptable level of risk and update CRM and TreePlotter records accordingly.

6.1 Sag and sway and different additional distances

Minimum clearances for sag and sway for spans below 100m in length will be maintained in compliance with Part 1(21)-(29) of this Plan.

Parts 1(24)-(29) of this Plan advise the applicable distance of clearance required for various voltages of spans below 100m and allow for additional sag and sway distances where required. Graphs 1-6 (Parts 1(24)-(29)) of this Plan further illustrate these applicable distances for span lengths.

For spans greater than 100m in length Council will consult with the relevant Network Operator to provide the required clearance distance to allow for sag and sway. This information will be recorded against the affected tree/s, and be available to operator's infield, for a minimum of five years.

Manningham does not currently have information relating to sag and sway requirements for any spans greater than 100m in length. Information about additional sag and sway clearances of spans greater than 100m in length will be recorded in Council's database.

6.2 Impracticable AS 4373-2007 pruning to achieve Code

Clause 10 of the Code requires a responsible person to cut trees, as far as practicable, in accordance with AS 4373-2007 to achieve clearance. Where this is not practicable and the impact of cutting upon a tree is expected to remove structural branches (i.e., greater than 100mm in diameter) or be detrimental to its health, structure, longevity, visual aesthetic, and/or increase its hazard, the Contractor is to notify Council to determine an appropriate course of action being:

- the seeking of an exemption Regulation (Section 7.7).
- determining alternative compliance mechanisms Regulation Section 4.7).
- as determined through resolution process Regulation (Section 7.6) or.
- tree cutting or removal at the exhaustion of other viable alternatives.

Council will restrict cutting or removal of Victorian indigenous trees or those identified of significance per Section 4.3 of this Plan as far as practicable.

6.3 Alternative compliance mechanisms sought

Council has not applied or intends to apply for alternative compliance mechanisms at the time of preparation of this Plan.

6.4 Extant and effectual approved alternative compliance mechanisms

Council does not have any extant and effectual alternative compliance mechanisms at the time of preparation of this Plan.

7 Performance indicators of the responsible person under the management plan

7.1 Council Performance

Prescription of The Code and completion of annual works program is binary in either compliant or non-compliant, with all trees managed by Council expected to be compliant and outside clearance zones, unless exception or exemption has been provided or being sought. Completion of annual works are a KPI for the Arboriculture department and part of quarterly Council reporting.

To maintain compliance Council undertakes annual powerline audits per methodology outlined in Sections 6.3 and 7.3 of this Plan. Annual analysis of each year's non-compliance is recorded in Appendix 1 of the Plan review. This report contains information documented in CRM records (refer to Section 6.3 subheading Complaints, Out Of Cycle Works, Audit And Recording) and TreePlotter records. These records are stored within Councils TRIM Database.

It is expected that reported normal non-compliance that are within Council's capacity to resolve, will be promptly resolved by methods outlined in Section 6.3 of this Plan. Examples of not-normal non-compliance reports that are considered beyond Council's capacity to prevent include but are not limited to, failures during severe weather events, acute mechanical damage to trees, or sudden limb failures.

Through yearly interrogation and review of historical data an appropriate course of action will be determined by Councils arboriculture team, which may require additional pruning cycle, increased clearance space cutting outside of minimum clearance space to prevent regrowth, or other methods outlined in Section 6.2 of this Plan where it is impracticable to prune per AS 4373-2007 to achieve minimum clearance space.

Records of significant trees and other trees needing pruning outside of AS 4373-2007 or removal to achieve compliance with Code will be stored within TreePlotter to be interrogated by Council. Where patterns of excessive pruning or removal are identified Council will review the Plan and determine an appropriate course of action to minimise such events from continuing. This may include collaboration with distribution companies to provide engineered solutions, review of Council species for future planting under powerlines, or other methods as determined appropriate.

7.2 Contractor Performance

As part of contractual obligations, the Contractor provides Council with a monthly report and undertakes meetings to review performance and progression of cyclic works, which are documented and stored on **TRIM (EF19/26774)**. Council undertakes regular spot audits of the Contractor and summarises this information within the Contractor Performance Report (see Appendix 2). Action plans and resolution are documented within minutes to ensure compliance and performance is maintained.

Where a serious breach of safety or contractual obligation a stand down will be issued while an internal investigation is launched to review of process and implement corrective actions. In this instance a show cause may be required to retain contract.

7.3 Details Of The Audit Processes

A level 1/windshield audit of every Area will be conducted by Council's arborist or their representative's suitably qualified arborist each year to ensure power line clearances comply with Code and pruning follows AS 4373-2007 where practicable.

For Areas cleared in that year, the auditing will commence whilst the cyclic crews are in the area for direct feedback. GIS information of each nonconformance inspection recorded in TreePlotter with remedial works issued to contractor.

Areas out of annual pruning cycle (i.e., Areas 1 and 2 OR Areas 3 and 4 that are out of that year's cycle) will be audited with the same level 1/windshield audit outlined above to ensure power line clearances comply with Code. More emphasis will be on auditing HV spans ensuring minimum clearance distances are maintained.

All trees identified leading to non-compliance are recorded in Councils web-based tree management program TreePlotter, with details of re-works required notified to the Contractor for actioning within 31 days and available in TreePlotter.

7.4 Qualifications And Experience

Per the Electricity Safety (General) Regulations 2019 r 616(3): 'Qualified person means a person who holds a current certificate that is approved by Energy Safe Victoria specifying satisfactory completion of a training course in tree clearing.'

As advised by Energy Safe Victoria, this certification is UET20319 Certificate II in ESI – Powerline Vegetation Control. All contractor staff undertaking powerline works within Manningham are expected to have electives relevant to the specific activity they are undertaking; Assessor, EWP work or Climbing work. The following provides an example of the relevant electives.

EWP Operator and EWP Safety Observer

UETTDRCV33	Apply pruning techniques to vegetation control near live electrical apparatus
UETTDRCV25A	Use elevated platform to cut vegetation above ground level near live electrical apparatus
TLILIC0005	Licence to operate a boom-type elevating work platform (also equivalent is High risk work license - WP)

Tree Climber and Climber Safety Observer

UETTDRCV21	Use climbing techniques to cut vegetation above ground near live electrical apparatus
UETTDRCV33	Apply pruning techniques to vegetation control near live electrical apparatus
UETTDRCV34	Undertake release and rescue from a tree near live electrical apparatus
AHCARB204	Undertake standard climbing techniques

This course is to be refreshed annually with the qualified person carrying out vegetation management work in the vicinity of a protected aerial line compliant with Electricity Safety (General) Regulations 2019 r 616(2) by being certified in having knowledge of the relevant practices as outlined in:

- a. the vegetation management rules; and
- b. the Blue Book when working on or near high voltage electrical equipment; and
- c. the Orange Book when working on or near a railway or tramway supply network.

Furthermore, it is a requirement of contract (**TRIM Ref: EF19/26774**) between Council and the Contractor that all trees are pruned according to AS 4373-2007 Pruning of Amenity Trees (unless impracticable per 5.1.1 with the Contractor holding the ESV approved current certificates or training for all staff necessary for the undertaking of operations by suitably experienced staff. All contractors undertaking work on behalf of Council are Rapid Global compliant to ensure appropriate management systems are in place, with third party review or ISO certification of systems as required.

Council additionally undertakes regular on-site audits of the Contractor on a quarterly basis to review OHS, HSE processes and systems, Certification and provide notification to remedy non-compliant matters. A summary of this audit is provided in Appendix 2, with full audit report available to ESV upon request.

7.5 Notification And Consultation Procedures

Council will notify affected persons prior to undertaking cyclic electric line clearance works at least 14 days prior to and not more than 60 days in advance of the works being implemented per Part 1(17) of this Plan and relevant subclauses. Notice of intended works will be provided via Council's website typically in the form of notification being:

UPCOMING STREET TREE PRUNING – DONCASTER AREA

Council intends pruning of street trees in Doncaster, Doncaster East and Donvale in accordance with its obligations under the Electric Line Clearance Regulations 2020 commencing **xxx** and continuing for approximately **xxx** weeks.

The works are required to maintain clearance from electric lines, roadway signage, vehicles and pedestrians and to maintain the condition of the street trees.

Council apologises for any inconvenience caused while these necessary works are completed.

Please contact Manningham Council on 9840 9333 for further information.

7.6 Dispute resolution procedures

If a dispute arises relating to clearance of vegetation from electric lines within Council's area of responsibility, such disputes shall be attempted to be resolved through initial consultation and agreement between the affected parties. Should disputes remain unresolved for an unreasonable period of time, the process outlined in Figure 9 shall be implemented.

Additional information on Council dispute resolution can be located on Council's website at <https://www.manningham.vic.gov.au/file/9166/download>.

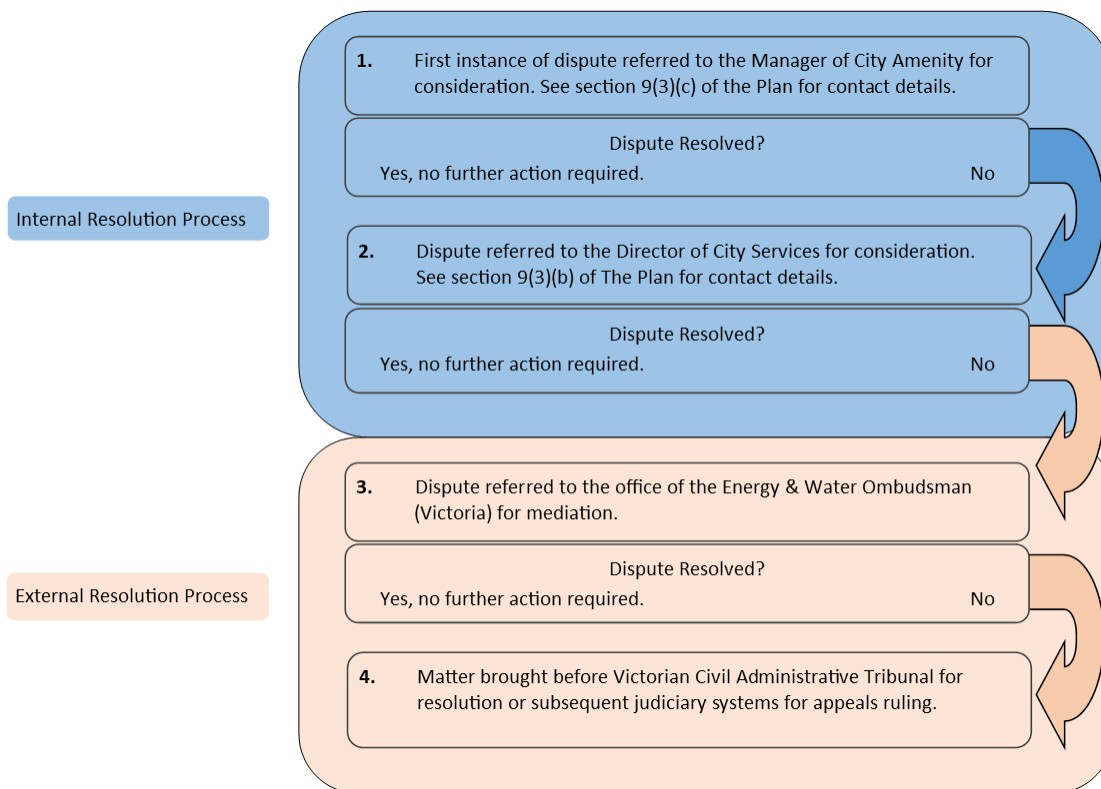


Figure 9: Manningham dispute resolution procedure flow chart

7.7 ESV Granted Exemptions in Effect

Council does not have any extant and effectual ESV granted exemptions in effect at the time of preparation of this Plan.

7.8 Obligations Relating to Management Plans

Manningham intends to meet all obligations in relation to Regulation 10(1), (2), (3), (5) and (6) with requested amendments of the management plan per Regulation 10(4) to be in manner such as to ensure compliance with the Code that does not unreasonably impact upon timelines of current contractual obligations and operations by the Contractor or Council, or would unreasonably increase financial burden upon the Contractor or Council; to be determined through avenues of resolution outlined in Section 7.6) of this Plan.

7.9 Exemptions

Manningham intends to meet all obligations of any conditions of granted exemption outlined in Regulation 11(2) and as detailed in Section 7.7 of this Plan.

8 Part 1

1. Definitions

For the purpose of the Plan, all definitions referenced in the Code and pt. 1(1) and relevant subclauses are relevant to the following sections.

2. Minimum clearance space

For the purpose of the Plan, minimum clearance space references those defined in Part (1)(23), (24), (25), (26), (27), (28) and (29) of this Plan; unless where exception to minimum clearance space is permissible per Part 1(4), (5), (6), and (7) of this Plan, or where application for approval of alternative compliance mechanism is sought per Part 1(31) of this Plan, or having gained approval of alternative compliance mechanism per Schedule 1(33) of the Regulations.

3. Responsible person must keep minimum clearance space clear of trees

Notwithstanding any exemption per Section 7.7) and Part 11 of this Plan, or exception to minimum clearance space Part 1(4), (5), (6) and (7) for which Council may apply or has gained approval for; nor for any other matter as determined reasonable for non-compliance by resolution process per Section 7.6 of this Plan; nor any matter of first notice of non-compliance to which Council is resolving as outlined in Section 5. subheading Out Of Cycle Works.

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

As part of the audit process, Council will apply exception where:

- (a) the electric line is —
 - (i) an insulated cable; and
 - (ii) a low voltage electric line; and
- (b) the branch is wider than 130 millimetres at the point at which it enters the minimum clearance space; and
- (c) in the case of a span distance of 40 metres or less, the branch is more than 150 millimetres from the line; and
- (d) in the case of a span distance greater than 40 metres, the branch is more than 300 millimetres from the line; and

A Council arborist will undertake inspection to determine:

1. any visible structural defect that could cause the branch to fail and make contact with the electric line; and
2. advise Council of the risks posed by the branch; and
3. implement measures to effectively mitigate the identified risks where appropriate; and
4. re-inspect the tree of which the branch is a part within 14 months of the previous inspection; and
5. maintain record of all inspections within Council's database for 5 years.

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

As part of the audit process, Council will apply exception where:

- (a) the electric line is —
 - (i) an insulated cable; and
 - (ii) a low voltage electric line; and
- (b) the branch is less than 10 millimetres wide at the point at which it enters the minimum clearance space; and
- (c) the branch has been removed from the minimum clearance space within the last 12 months.

6. Exception to minimum clearance space for small branches growing under uninsulated low voltage electric lines in low bushfire risk areas

As part of the audit process, Council will apply exception where:

- (a) the electric line is —
 - (i) an uninsulated cable; and
 - (ii) a low voltage electric line; and
- (b) located in a low bushfire risk area; and
- (c) the branch is less than 10 millimetres wide at the point at which it enters the minimum clearance space and is no more than 500 millimetres inside the minimum clearance space; and
- (d) the point at which the branch originates is below the height of the electric line; and
- (e) in the case of a branch that comes within the minimum clearance space around the middle 2 thirds of the span, the span is fitted with—
 - (i) one conductor spreader if the length of the span does not exceed 45 meters:
or
 - (ii) 2 conductor spreaders if the length of the span exceeds 45 meters: and
Note: A spreader is not required to be fitted to the span if the branch comes within the minimum clearance space around the first or last sixth of the span.

A Council arborist will undertake inspection to determine:

1. any visible structural defect that could cause the branch to fail and make contact with the electric line; and
2. advise Council of the risks posed by the branch; and
3. implement measures to effectively mitigate the identified risks where appropriate; and
4. re-inspect the tree of which the branch is a part within 14 months of the previous inspection; and
5. maintain record of all inspections within Council's database for 5 years.

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

As part of the audit process, Council will apply exception where:

- (a) the electric line is —
 - (i) an uninsulated cable; and
 - (ii) a low voltage electric line; and
 - (iii) located in a low bushfire risk area; and
- (b) in the case of a branch that comes within the minimum clearance space around the middle 2 thirds of the span, the span is fitted with—
 - (iv) one conductor spreader if the length of the span does not exceed 45 metres:
or
 - (v) 2 conductor spreaders if the length of the span exceeds 45 metres: and
Note: A spreader is not required to be fitted to the span if the branch comes within the minimum clearance space around the first or last sixth of the span.
- (c) the branch is more than 130 millimetres wide at the point at which it enters the clearance space; and
- (d) the branch is no more than 500 millimetres inside the minimum clearance space.

A Council arborist will undertake inspection to determine:

1. any visible structural defect that could cause the branch to fail and make contact with the electric line; and
2. advise Council of the risks posed by the branch; and
3. implement measures to effectively mitigate the identified risks where appropriate; and
4. re-inspect the tree of which the branch is a part within 14 months of the previous inspection; and
5. maintain record of all inspections within Council's database for 5 years.

8. Responsible person may cut or remove hazard tree

Council may cut or remove a tree where a Council arborist has undertaken a risk inspection and advised that the tree, or any part of the tree is likely to cause damage or come into contact with an electric line prior to the next works cycle or inspection period.

Councils Tree Management Plan (<https://www.manningham.vic.gov.au/file/27351>) outlines the position of removal namely; that Council will consider removal of managed tree/s if it is dead, dying or immediately dangerous as determined by a Council arborist (minimum CERT III or Australian Qualification Framework Level 5 and/or equivalent experience). This includes where a tree poses a risk to life or property and cannot be maintained by pruning or other appropriate tree maintenance options.

9. Cutting of tree to comply with Standard

Council will as far as practicable, cut the tree in accordance with AS 4373 as published or amended from time to time.

10. Cutting or removal of indigenous or significant trees must be minimised

Council will minimise cutting and removal of indigenous or significant trees while ensuring compliance with the Code and that there is an acceptable level of risk.

Where a Council arborist has identified that cutting to achieve Code will result in an unhealthy or unviable tree creating an unacceptable risk, the proposed cutting will be reviewed to determine alternative compliance mechanisms, or tree removal where such options are not viable.

Council endeavors to minimize cutting of or removal of indigenous or significant trees through contract EF19/26774 and dialogue with the Contractor. Under this contract there is a requirement that Council is notified by the Contractor of all branches greater than 100mm in diameter that require removal to facilitate clearance requirements as defined by the Code. Similar notification is required for any removals that are deemed necessary to ensure compliance with the Code or where there are hazard trees.

11. Cutting or removing habitat for threatened fauna

Unless for reasons stated elsewhere within the Plan, Council will not cut or remove a tree that is the habitat for threatened fauna during the breeding season for the threatened fauna unless —

- (a) it is necessary to cut or remove the tree to make an unsafe situation safe; or
- (b) it is not practicable to undertake cutting or removal of that tree outside the breeding season.

Where it is not practicable to undertake cutting or removal of that tree outside the breeding season, Council will translocate the fauna before undertaking the cutting or removal if it is practicable to do so.

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

In relation to works for clearance in line with the Code, Council will restrict timing of tree cutting or removal to periods as outlined by public notice in Section 7.5 of this Plan and as advised on Councils website.

13. Restriction on urgent cutting of trees

Unless for reasons stated elsewhere within the Plan, Council will restrict urgent cutting of trees in relation to power lines to only those conditions where:

- (a) there is encroachment or growth of trees into the minimum clearance space that was not anticipated in the management plan; or
- (b) a tree has fallen or become damaged so that it is required to be cut or removed to maintain the minimum clearance space; or
- (c) a Council arborist has inspected the tree and advised that the tree or a part of the tree, is likely to imminently fall onto or otherwise come into contact with an electric line.

14. Restriction on urgent removal of trees

Unless for reasons stated elsewhere within the Plan, Council will restrict urgent removal of trees in relation to power lines to only those conditions where:

- (a) there is encroachment or growth of trees into the minimum clearance space that was not anticipated in the management plan; or
- (b) a tree has fallen or become damaged so that it is required to be cut or removed to maintain the minimum clearance space; or
- (c) a Council arborist has inspected the tree and advised that the tree or a part of the tree, is likely to imminently fall onto or otherwise come into contact with an electric line

15. Responsible person must provide notification before cutting or removing certain trees

Unless cutting or removal is urgently required for a reason set out in clause 19(1). Council will provide notification as outlined in Section 7.6 of intent to cut or remove a tree that is —

- (a) on private property that Council neither owns nor occupies; or
 - (b) on public land; or
 - (c) a tree of cultural or environmental significance; or
 - (d) listed in a planning scheme to be of ecological, historical or aesthetic significance.
- 1) The responsible person must give a written notice in accordance with this clause before cutting or removing the tree unless—
- (a) the responsible person is a responsible person referred to in section 84, 84C or 84D of the Act; and
 - (b) the **Note:** Section 8 of the Electronic Transactions (Victoria) Act 2000 provides that a requirement to give information in writing can be met by means of an electronic communication.
- 2) A written notice given under subclause (2) must be given to —
- (a) if the tree is within the boundary of private property — an owner or occupier of the property; or
 - (b) if the tree is on land that is managed by a Council that is not the responsible person— that Council; or
 - (c) if the tree is on land that is contiguous to private property and the use of that property may be affected during the cutting or removal — an owner or occupier of that property.
- 3) A written notice given under subclause (2) must include the following information —
- (a) the contact details of the responsible person, including the contact details for all enquiries regarding vegetation and the intended cutting or removal.
 - (b) details of the intended cutting or removal.
 - (c) advice that the responsible person has procedures for resolving disputes and details on how to obtain access to the procedures.

4) A written notice given under subclause (2) must include the following additional information —

- (a) if the notice is given to an owner or occupier of private property in accordance with subclause (3)(a) —
 - (i) details of the consultation procedure that the responsible person will follow; and
 - (ii) details of whether the tree to be cut or removed is —
 - (A) a tree of cultural or environmental significance; or
 - (B) listed in a planning scheme to be of ecological, historical, or aesthetic significance; and
 - (iii) if the tree is intended to be cut, a diagram that shows —
 - (A) the tree and where the electric line is in relation to the tree; and
 - (B) where the tree will be cut;
- (b) if the notice is given to a Council in accordance with subclause (3)(b) — details of whether the tree to be cut or removed is —
 - (iv) on public land; or
 - (v) a tree of cultural or environmental significance; or
 - (vi) listed in a planning scheme to be of ecological, historical, or aesthetic significance.
- (c) if the notice is given to an owner or occupier of private property in accordance with subclause (3)(c) — details of the impact that the intended cutting or removal may have on the affected person's use of their land during the cutting or removal.

5) A written notice given under subclause (2) must specify one or more days on which, or a period during which, the responsible person intends that the intended cutting or removal will commence.

Note: Clause 13 provides that if a responsible person gives written notice under this clause, the person must not commence cutting or removal of the tree other than on a day or a period specified under subclause (6).

- 6) The responsible person must not specify, under subclause (6), a day that is, or a period the first day of which is —
- (a) earlier than 14 days from the date of the notice; or
 - (b) later than 60 days from the date of the notice.

16. Responsible person must publish notice before cutting or removing certain trees

Council will provide notification as outlined in s 9(4)(q) before undertaking works within each Area and unless for reasons stated elsewhere within the Plan, Council will adhere to guidelines as follows:

- 1) This clause applies to a responsible person who is required by clause 3 or 8 to cut or remove a tree that is on public land that is not privately owned.
- 2) The responsible person must publish a written notice in accordance with this clause before cutting or removing the tree unless —
 - (a) the responsible person is a responsible person referred to in section 84, 84C or 84D of the Act; and

- (b) the cutting or removal is urgently required for a reason set out in clause 19(1).
- 3) A written notice published under subclause (2) must be published on the responsible person's Internet site or in a newspaper circulating generally in the locality of the land in which the tree is to be cut or removed.
 - 4) A written notice published under subclause (2) must —
 - (a) describe the cutting or removal that the responsible person intends to undertake; and
 - (b) specify one or more days on which, or a period during which, the responsible person intends that the intended cutting or removal will commence.

Note: Clause 13 provides that if a responsible person publishes a notice under this clause, the person must not cut or remove the tree other than on a day or period specified under subclause (4)(b).
 - 5) The responsible person must not specify, under subclause (4)(b), a day that is, or a period the first day of which is —
 - (a) earlier than 14 days after the date of the notice; or
 - (b) later than 60 days after the date of the notice.

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

Except for cases of emergency and matters of make-safe that are not related to electrical line clearance, Council does not remove or cut vegetation that is located on private property and privately owned. Notification will be provided immediately to the relevant distribution business where such cases arise.

18. Notification and record keeping requirements for urgent cutting or removal

Council only cuts or removes vegetation for powerline clearance that is located on public land managed by Council or where there are cases of emergency and matters of make-safe that are not related to electrical line clearance.

As such notification and record keeping is not required to be provided to Council per Schedule 19 of the Regulations.

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

If Council has concerns about the safety of cutting or removal of a tree for which the Council has clearance responsibilities it will consult the distribution company in whose distribution area the electric line is located.

There are no railway supply network or tramway supply networks within Manningham.

20. Duty relating to assisting to determine the allowance for conductor sag & sway

If Council requires assistance to determine an additional distance that allows for conductor sag and sway, the Council will consult the distribution company in whose distribution area the electric line is located. Council will keep a record of the additional distance referred to by the distribution company for at least 5 years.

Records of additional distance referred to by the distribution company are stored in Councils database and identified in Appendix 4.

21. Additional distance that allows for conductor sag and sway

There are no additional distances to allow for conductor sag and sway per Part 21 of this Plan that are in effect or recorded for Manningham.

22. Insulated electric lines in all areas

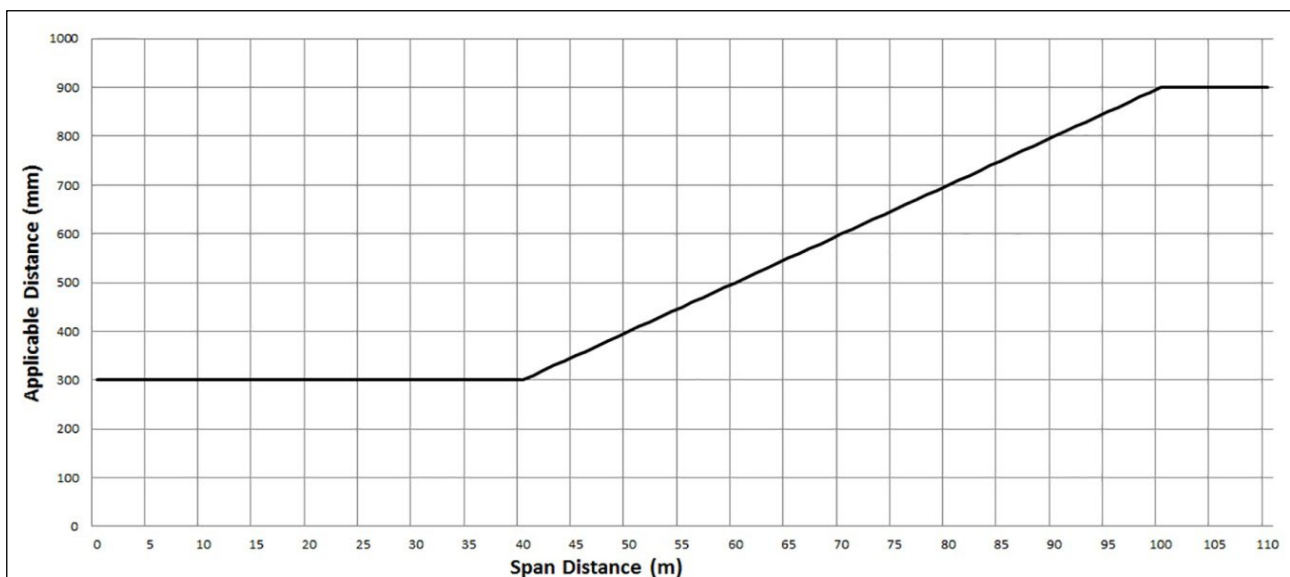
- 1) This clause applies to an electric line that is an insulated cable.
- 2) The minimum clearance space for a span of the electric line is the space extending away from the line in all directions perpendicular to its axis for the applicable distance.
- 3) The **applicable distance** for the first and last sixths of the span is 300 millimeters.
- 4) The **applicable distance** for the middle 2 thirds of the span is—
 - (a) if the span distance is less than or equal to 40 metres — 300 millimetres: or
 - (b) if the span distance is greater than 40 metres and less than or equal to 100 metres — the distance calculated in accordance with the following expression —

$$300 + ((SD - 40) \times 10)$$

Where —

SD is the span distance; or

- (c) if the span distance is greater than 100 metres — 900 millimetres.



Graph 1: Applicable distance for insulated electric lines in all areas

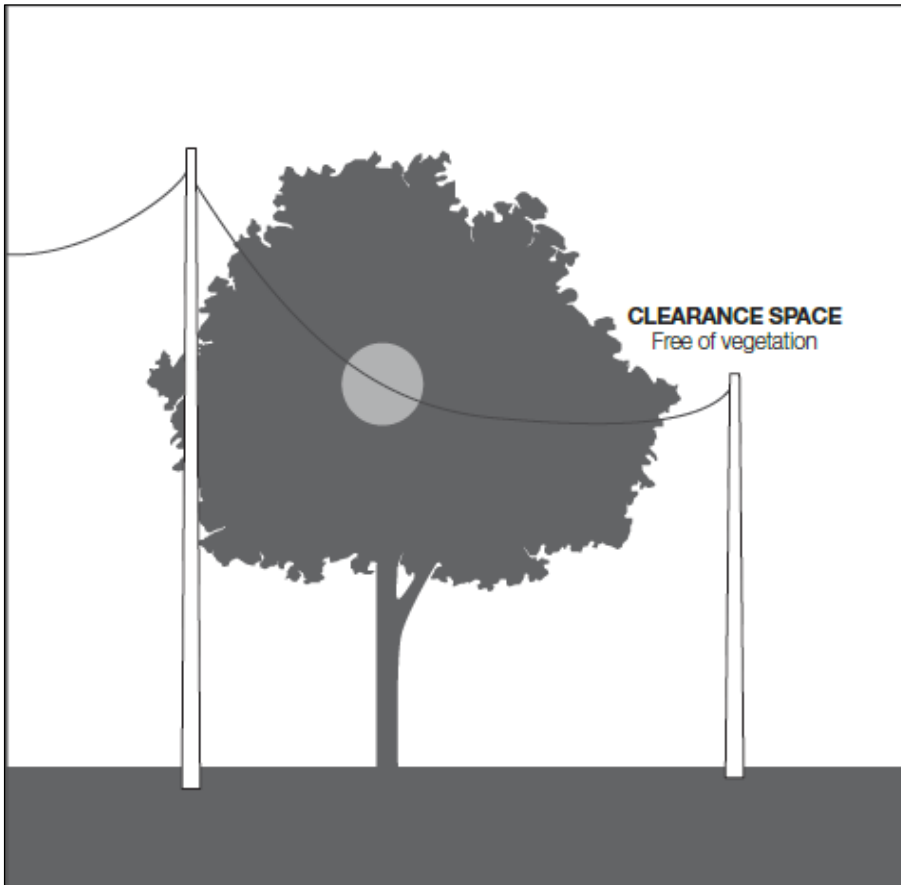


Figure 1: Clearance space for insulated electric lines in all areas

23. Uninsulated low voltage electric line in a low bushfire risk area

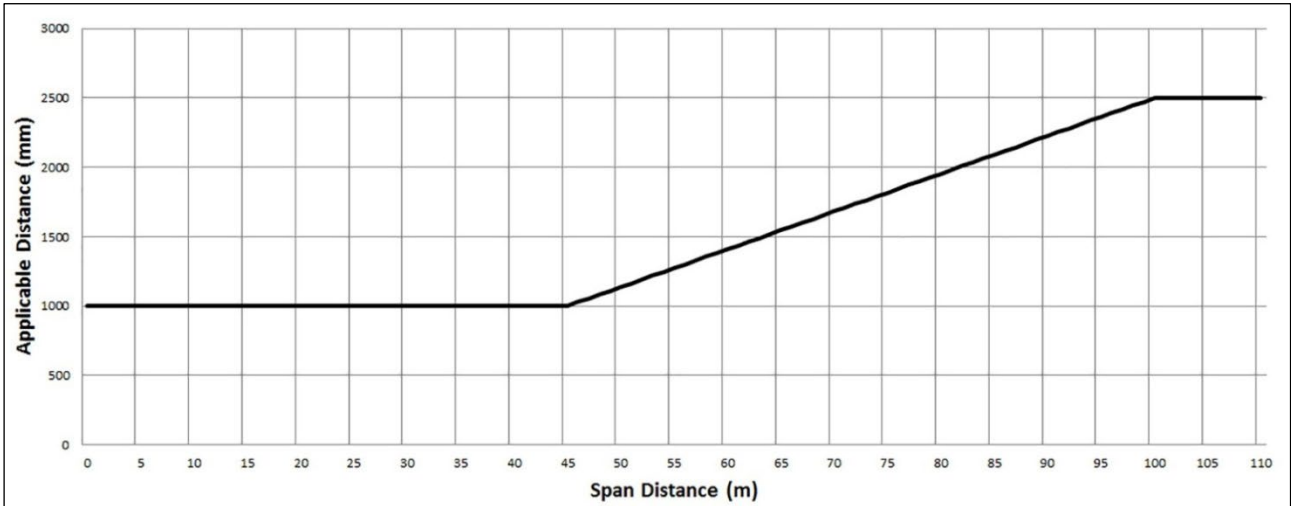
- 1) This clause applies to an electric line that is —
 - (a) an uninsulated cable; and
 - (b) a low voltage electric line; and
 - (c) located in a low bushfire risk area.
- 2) The minimum clearance space for a span of the electric line is the space extending away from the line in all directions perpendicular to its axis for —
 - (a) the applicable distance; and
 - (b) if the span distance is greater than 100 metres, an additional distance that allows for conductor sag and sway.
- 3) The **applicable distance** for the first and last sixths of the span is 1000 millimeters.
- 4) The **applicable distance** for the middle 2 thirds of the span is —
 - (a) if the span distance is less than or equal to 45 metres — 1000 millimetres; or
 - (b) if the span distance is greater than 45 metres and less than or equal to 100 metres — the distance calculated in accordance with the following expression —

$$1000 + ((SD - 45) \times (1500 \div 55))$$

Where —

SD is the span distance; or

(c) if the span distance is greater than 100 metres — 2500 millimetres.



Graph 2: Applicable distance for uninsulated low voltage electric line in a low bushfire risk area

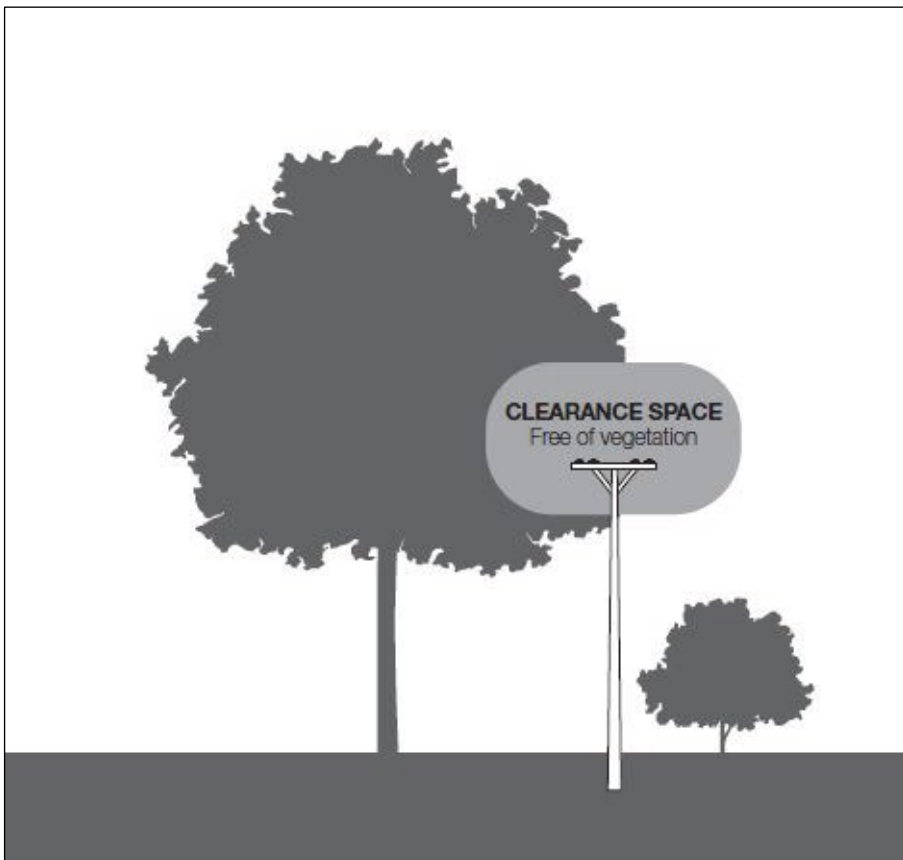


Figure 2: Clearance space for uninsulated low voltage electric line in a low bushfire risk area

24. Uninsulated high voltage electric line (other than a 66 000-volt electric line) in a low bushfire risk area

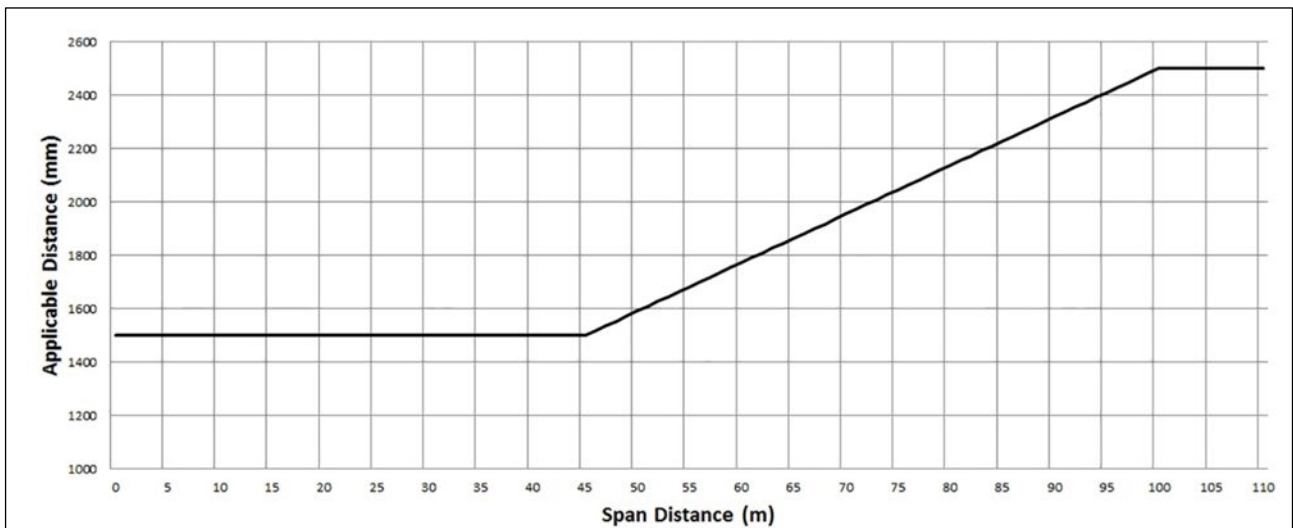
- 1) This clause applies to an electric line that —
 - (a) is an uninsulated cable; and
 - (b) is a high voltage electric line; and
 - (c) does not have a nominal voltage of 66 000 volts; and
 - (d) is located in a low bushfire risk area.
- 2) The minimum clearance space for a span of the electric line is the space extending away from the line in all directions perpendicular to its axis for —
 - (a) the applicable distance; and
 - (b) if the span distance is greater than 100 metres, an additional distance that allows for conductor sag and sway.
- 3) The **applicable distance** for the first and last sixths of the span is 1500 millimeters.
- 4) The **applicable distance** for the middle 2 thirds of the span is —
 - (a) if the span distance is less than or equal to 45 metres — 1500 millimetres; or
 - (b) if the span distance is greater than 45 metres and less than or equal to 100 metres — the distance calculated in accordance with the following expression —

$$1500 + ((SD - 45) \times (1000 \div 55))$$

Where —

SD is the span distance; or

- (c) if the span distance is greater than 100 metres — 2500 millimetres.



Graph 3: Applicable distance for uninsulated high voltage electric line (other than a 66 000-volt electric line) in a low bushfire risk area



Figure 3: Clearance space for uninsulated high voltage electric line (other than a 66 000 volt electric line) in a low bushfire risk area

25. Uninsulated 66 000-volt electric line in a low bushfire risk area

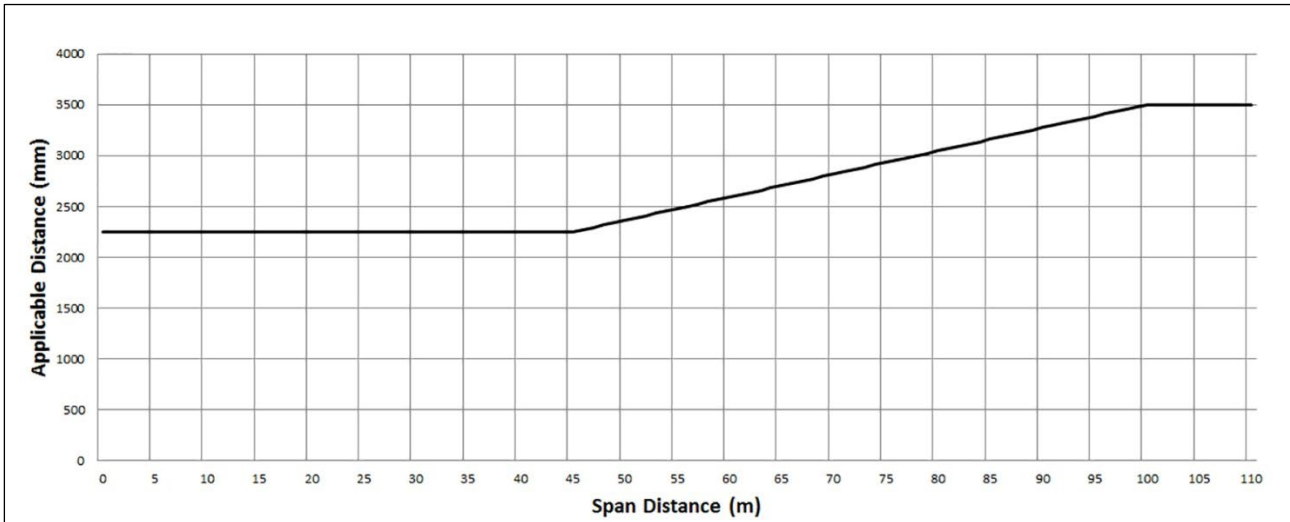
- 1) This clause applies to an electric line that —
 - (a) is an uninsulated cable; and
 - (b) is a high voltage electric line; and
 - (c) has a nominal voltage of 66 000 volts; and
 - (d) is located in a low bushfire risk area.
- 2) The minimum clearance space for a span of the electric line is —
 - (a) the space extending away from the line in all directions perpendicular to its axis for —
 - (i) the applicable distance; and
 - (ii) if the span distance is greater than 100 metres, an additional distance that allows for conductor sag and sway; and
 - (b) the space above the space described in paragraph (a).
- 3) The **applicable distance** for the first and last sixths of the span is 2250 millimeters.
- 4) The **applicable distance** for the middle 2 thirds of the span is —
 - (a) if the span distance is less than or equal to 45 metres—2250 millimetres: or
 - (b) if the span distance is greater than 45 metres and less than or equal to 100 metres — the distance calculated in accordance with the following expression —

$$2250 + ((SD - 45) \times (1250 \div 55))$$

where—

SD is the span distance; or

(c) if the span distance is greater than 100 metres—3500 millimetres.



Graph 4: Applicable distance for uninsulated 66 000 volt electric line in a low bushfire risk area



Figure 4: Clearance space for uninsulated 66 000 volt electric line in a low bushfire risk area

26. Uninsulated low voltage and high voltage electric lines (other than a 66 000 volt electric line) in a hazardous bushfire risk area

- 1) This clause applies to an electric line that —

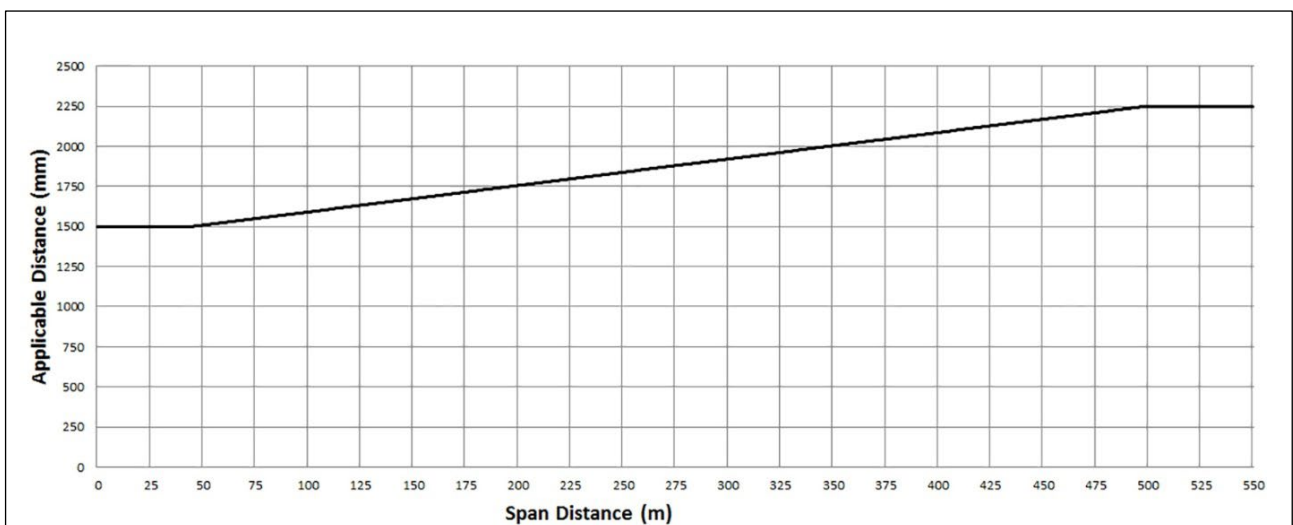
- (a) is an uninsulated cable; and
 - (b) does not have a nominal voltage of 66 000 volts; and
 - (c) is located in a hazardous bushfire risk area.
- 2) The minimum clearance space for a span of the electric line is —
- (a) the space extending away from the line in all directions perpendicular to its axis for the applicable distance and an additional distance that allows for conductor sag and sway; and
 - (b) the space above the space described in paragraph (a).
- 3) The **applicable distance** for the first and last sixths of the span is 1500 millimetres.
- 4) The **applicable distance** for the middle 2 thirds of the span is —
- (a) if the span distance is less than or equal to 45 metres —1500 millimetres; or
 - (b) if the span distance is greater than 45 metres and less than or equal to 500 metres — the distance calculated in accordance with the following expression —

$$1500 + ((SD - 45) \times (500 \div 303))$$

where—

SD is the span distance; or

- (c) if the span distance is greater than 500 metres — 2250 millimetres.



Graph 5: Applicable distance for uninsulated low voltage and high voltage electric line (other than a 66 000 volt electric line) in hazardous bushfire risk area



Figure 5: Clearance space for uninsulated low voltage and high voltage electric line (other than a 66 000-volt electric line) in hazardous bushfire risk area

27. Uninsulated 66 000-volt electric lines in a hazardous bushfire risk area

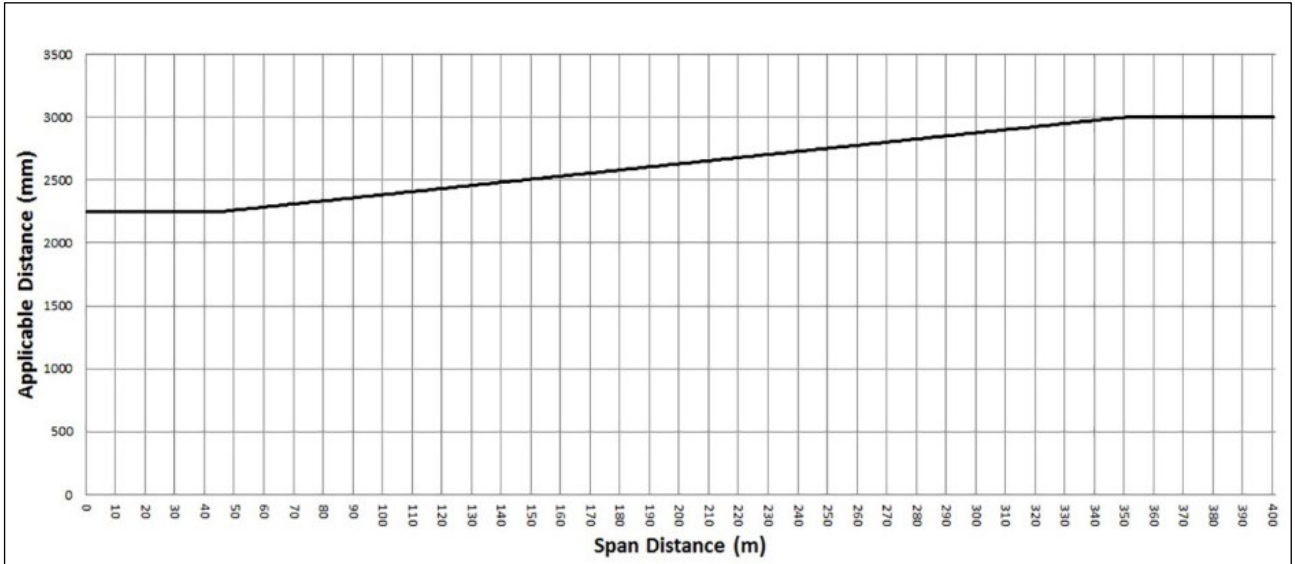
- 1) This clause applies to an electric line that —
 - (a) is an uninsulated cable; and
 - (b) has a nominal voltage of 66 000 volts; and
 - (c) is located in a hazardous bushfire risk area.
- 2) The minimum clearance space for a span of the electric line is —
 - (a) the space extending away from the line in all directions perpendicular to its axis for the applicable distance and an additional distance that allows for conductor sag and sway; and
 - (b) the space above the space described in paragraph (a).
- 3) The **applicable distance** for the first and last sixths of the span is 2250 millimeters.
- 4) The **applicable distance** for the middle 2 thirds of the span is —
 - (a) if the span distance is less than or equal to 45 metres — 2250 millimetres; or
 - (b) if the span distance is greater than 45 metres and less than or equal to 350 metres — the distance calculated in accordance with the following expression —

$$2250 + ((SD - 45) \times (750 \div 305))$$

where—

SD is the span distance; or

(c) if the span distance is greater than 350 metres—3000 millimetres.



Graph 6: Applicable distance for uninsulated 66 000-volt electric lines in a hazardous bushfire risk area

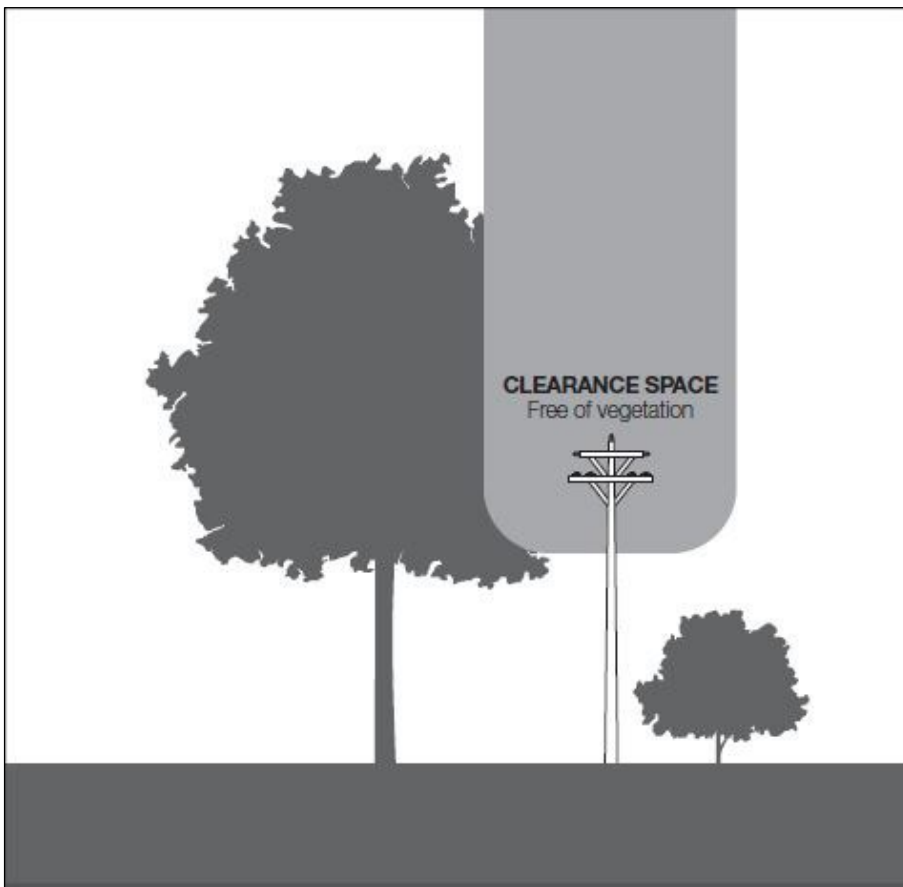


Figure 6: Clearance space for uninsulated 66 000 volt electric lines in a hazardous bushfire risk area

28. Application for approval of alternative compliance mechanism

Council has not applied or intends to apply for alternative compliance mechanisms at the time of preparation of this Plan.

Unless advised otherwise by ESV, Council will apply to Energy Safe Victoria for approval to use an alternative compliance mechanism in respect of an electric line span or a class of electric line spans. The application will —

- (a) include details of —
 - (i) the alternative compliance mechanism; and
 - (ii) the procedures to be adopted for commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism; and
- (b) identify the published technical standards that will be complied with when commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism; and
- (c) either —
 - (i) if the application is made in respect of an electric line span — specify the location of the span; or
 - (ii) if the application is made in respect of a class of span of electric line — describe the class; and
- (d) specify 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; and
- (e) include a copy of the formal safety assessment prepared under Clause 32 of the Regulations.
- (f) include a copy of the written agreement between Council and the owner or the operator of the span.

29. Formal safety assessment of alternative compliance mechanism

Council does not have any extant and effectual alternative compliance mechanisms that require assessment at the time of preparation of this Plan:

Where these come into effect, a formal safety assessment will include —

- (a) a description of the methodology used and investigations undertaken for the formal safety assessment; and
- (b) an identification of hazards associated with the use of the alternative compliance mechanism having the potential to cause a serious electrical incident; and
- (c) a systematic assessment of the risks (including the likelihood and consequences of a serious electrical incident) associated with —
 - (i) commissioning, installing, operating, maintaining and decommissioning the alternative compliance mechanism; and
 - (ii) the safety of the span or class of spans to which the alternative compliance mechanism will apply; and
- (d) a description of technical and other measures undertaken or to be undertaken to reduce those risks as far as practicable.

To the best of my knowledge the information contained within this document is accurate and correct.

Authorised by:
Signed:
Andrew Day Chief Executive Officer MANNINGHAM CITY COUNCIL
Date:

Appendix 1

Non-Compliance Reports

Non-compliance reports are currently being actioned and will be added to TRIM upon completion of works when this Plan comes into effect.

Appendix 2

Contractor Performance Audits

MANNINGHAM		CONTRACTOR PERFORMANCE REPORT		MANNINGHAM	
PERFORMANCE REPORT USE INSTRUCTIONS					
1. To be populated at project Practical Completion and updated following the Defect Liability period for individual physical infrastructure projects over 75k in value(ex GST) or projects, greater than four (4) weeks in duration.					
2. For annual supply and panel contracts please complete the performance report on the contract anniversary.					
3. Where an evaluation criteria is not relevant, delete row from report to prevent it being scored as part of the contractors evaluation					
4. Save reports in the Trim Contract folder; for individual projects, provide a link to the projects folder.					
5. Trim file names should be as follows: Contractor Name, Contractor Number Contractor Performance Report.					
6. When Scoring contractor performance, please reference site inspections and other contractor records.					
7. Reports are to be discussed with the contractor prior to completion.					
SCORE GRADING					
SUPERIOR - Contractor is consistently performing well above the acceptable standard of performance.					5
GOOD - Acceptable standard of performance with some improvement opportunities performed by the Contractor					4
ACCEPTABLE - Contractor meets the standard performance of the contract.					3
MARGINAL - Mostly meets the expected standard performance of the contract but has some weakness					2
UNSATISFACTORY - Well below the acceptable standard performance of the contract					1
SCORING CONTEXT: If a contractor is graded at 2 or less for any question, the Contract Manager must provide documented evidence of a breach or non-conformance that negatively impacted the community/Council or the outcome of the project.					
The Contract Manager needs to populate the yellow highlighted areas below.					
PROJECT: Lynnwood Parade Rehabilitation			DATE: 05/06/2020		
CONTRACTOR NAME: Stabilised Pavements of Australia			CONTRACT#:		
PROJECT, PERSONNEL/RESOURCE MANAGEMENT		MAX SCORE	ACTUAL SCORE		
Is site staffing adequate?		25		0.00%	
Is the site supervisor competent and easy to deal with?		5			
Is the site foreman / supervisor familiar with the contract.		5			
Key personnel are appropriately qualified with appropriate tickets including Cert II ESI and appropriate stream for task		5			
Contractor adequately supervised and managed resources (Time/Quality /Safety).		5			
MANAGEMENT SYSTEMS AND ADMINISTRATION					
TIME PERFORMANCE MANAGEMENT		20		0.00%	
Works program was updated as necessary		5			
Claimed time extensions were reasonable		5			
The contractor mitigated the effects of anticipated delays by rescheduling and reallocating resources		5			
Works completed by approved Practical Completion date		5			
HEALTH & SAFETY MANAGEMENT		25		0.00%	
Site inductions completed by site supervisor		5			
Safe Work Method Statements/JSA signed by personnel and sub-contractors		5			
OHS site requirements communicated to workers by contractor (Project Management Plan)		5			
OHS issues were addressed quickly and effectively		5			
Incident investigation and reporting conducted promptly		5			
SITE MANAGEMENT		20		0.00%	
Condition of site, access, adjacent areas and site security		5			
Traffic management regularly audited by contractor		5			
Traffic management plan and number is approved and complied with site plans.		5			
Traffic management plan compliance/corrections documented by a suitability qualified person		5			
QUALITY MANAGEMENT		35		0.00%	
Quality of workmanship (Does the contractors work meet Council/contractual standards).		5			
Contractor constructed works in accordance with plans and specifications		5			
Any identified non-conformances were not repeated		5			
Contractor conducts regular quality audits as per contractual requirement.		5			
Minimal onsite intervention required by Contract Manager.		5			
Materials dockets, I.T.P's and test results are readily available.		5			
Low level of rework required		5			
FINANCIAL PERFORMANCE		25		0.00%	
Claims generally made only when reasonable basis exists		5			
Are amounts claimed generally reasonable (Not Frivolous or exaggerated)		5			
Contractor does not undertake variations to works without approval.		5			
Contractor does not exploit weaknesses in the contract specification		5			
All supporting documentation was submitted at the time of the claim		5			
CO OPERATION AND CUSTOMER SERVICE		20		0.00%	
Level of cooperation and communication with Council		5			
Contractors' response to resident complaints		5			
Timely and appropriate response to insurance claims		5			
Contractors general level of customer management		5			
DEFECTS RECTIFICATION		10		0.00%	
Defects were rectified quickly and satisfactorily		5			
Quality of the contractors defect rectifications was satisfactory		5			
TOTALS		180			
CONTRACTOR PERFORMANCE REPORT SCORE %		0%			

Figure 16: Contractor Performance Report part 1

Please provide trim links or reference the location of the relevant supporting documentation.

Contract Performance Report Page 1 of 2 Draft version 06.03.2019

CONTRACTOR PERFORMANCE REPORT

REPORT PROJECT MANAGER NAME:

TITLE:	DIVISION:	DEPARTMENT DATE:
EMAIL:	PHONE:	MOBILE:

REPORT HAS BEEN SAVED TO:

TRIM (TRIM #) OTHER (TO BE DETERMINED)

CONSULTATION WITH CONTRACTOR

I (INSERT NAME) CONFIRM I HAVE PROVIDED THE CONTRACTOR A COPY OF THE COMPLETED REPORT. (VIA EMAIL-INSERT DATE).

COMMENTS & RECOMMENDATIONS

Practical Completion Period (I.e. Opportunities for Improvement; particular areas of strength/substantiation of issues.)

Defects Liability Period

Figure 17: Contractor Performance Report part 2

Appendix 3

Trees under Exception

There are currently no trees under exception.

Appendix 4

Additional Distance for Conductor Sag and Sway

There are no additional distances for conductor sag and sway that are in effect or recorded for Manningham.

Appendix 5

Table of Amendments

There are no amendments in operation to this document.

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