



# **Authorisation**

This Municipal Fire Management Plan was endorsed by the Knox Municipal Emergency Management Committee on 23 November 2021 and presented to Eastern Metro Regional Emergency Management Planning Committee for endorsement on 24 November 2021.

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# **Acronyms**

BFM	Bushland Fire Management
вмо	Bushfire Management Overlay
ВРА	Bushfire Prone Area
CFA	Country Fire Authority
CFA Act	Country Fire Authority Act (Vic) 1958
DFFH	Department of Family, Fairness and Housing
DELWP	Department of Environment, Land, Water and Planning
EMCEMP	Eastern Metro Councils Emergency Management Partnership
EMVD	Emergency Management Victoria
ESV	Essential Services Victoria
FFMVic	Forest Fire Management Victoria
FRV	Fire Rescue Victoria
FRV Act	Fire Rescue Victoria Act (Vic) 1958
HAZMAT	Hazardous Materials
IAP2	International Association for Public Participation Australasia
IFMP	Integrated Fire Management Planning
ксс	Knox City Council
KPI	Key Performance Indictor
MEMP	Municipal Emergency Management Plan
MEMPC	Municipal Emergency Management Planning Committee
MERO	Municipal Emergency Resource Officer
MFPO	Municipal Fire Prevention Officer
MFPC	Municipal Fire Prevention Committee
MFMP	Municipal Fire Management Plan
PPRR	Prevention, Preparedness, Response, Recovery
RSFMPSC	Regional Strategic Fire Management Planning Sub Committee
SFMPC	State Fire Management Planning Committee
SOP	Standard Operating Procedure
TFB	Total Fire Ban
V-BERAP	Victorian Built Environment Risk Assessment Process
VFRR-B	Victoria Fire Risk Register – Bushfire
VICPOL	Victoria Police
VICSES	Victoria State Emergency Service

### 1.Introduction

Fire management planning in the State of Victoria is undertaken to ensure adequate management of all aspects of fires; from prevention through to response and recovery. It brings together a range of agencies and organisations to discuss, plan and manage fire with the community. It aims to provide quality outcomes for communities at risk.

This plan is a sub-plan of the Municipal Emergency Management Plan and has been prepared by a working group of the Knox Municipal Emergency Management Planning Committee (MEMPC). It reflects the shared responsibilities of government, fire agencies and communities. It demonstrates a collaborative approach between responsible agencies and covers both public and private lands, and is a three (3) year plan to be reviewed on an annual basis.

The plan is a written presentation of the dynamic and continually evolving fire planning process undertaken in the Knox municipal area.

The Knox municipal area of the Eastern Metropolitan Region is located in Melbourne in the State of Victoria, Australia. We have a diverse range of environments, vulnerable to all types of fire hazard. The State Fire Management Strategy along with the Emergency Management Act 2013 provides direction for the development and implementation of structures, systems, processes and products that improve fire management planning in Victoria.

Approaches to fire management are framed by the assessment of risk. This includes an analysis of the fire risks and identification of options for positive change. It places greater emphasis on addressing underlying causes and seeking long-term, sustainable solutions that incorporate the four essential elements of emergency management of planning, preparedness, response and recovery.

The 2020 Greater Melbourne Bushfire Management Strategy and the multi-agency strategy for this region outlines the tenure-blind risk-based bushfire management planning across agencies, council, stakeholder and community.

Consultation, participation and engagement are essential to enable an integrated approach to fire management. This plan documents how agencies involved in fire management within the Knox municipal area actively participate in this process.

#### 1.1 Municipal fire management planning

The Municipal Emergency Management Planning Committee (MEMPC) established a working group to determine procedures subject to the guidelines provided in the Emergency Management Act 2013.

The working group replaced the existing Municipal Fire Prevention Committee (MFPC) and does not alter existing requirements for municipal councils to make statutory appointments of a Municipal Emergency Management Officer (MEMO) and a Municipal Fire Prevention Officer (MFPO).

The MEMPC are responsible for integrated planning at the municipal and local level. Members of these committees work collaboratively, meet at appropriate intervals, share planning information and produce the Municipal Fire Management Plan (MFMP).

The fire management planning process is managed and supported with the technical expertise of the relevant fire services. The working group is responsible for writing the MFMP, ensuring implementation of the actions detailed in the plan, and monitoring the effectiveness of those actions.

The members of the Knox working group review and report fire management planning actions to the MEMPC who, in turn, report to Knox City Council (KCC) and other stakeholder agencies with accountabilities in the MFMP, and raise matters to the Eastern Metropolitan Regional Strategic Fire Management Planning Sub Committee (RSFMPSC) when required.

### 1.2 Agencies working together with the community

The Knox MFMP brings together all agencies with legislative responsibility for fire management to collectively work with the community to effectively and efficiently prepare for, respond to and recover from fire. The Knox MFMP assesses bushfire, chemical incidents and structural fire and will be further investigated and developed as the risk assessment tools for these areas are developed and reach maturity.

Key agencies involved in the planning process include:

Agency	Responsibilities
Country Fire Authority (CFA)	Emergency service agency that responds to and prepares communities for bushfires, structural fires, chemical incidents, road accidents, rescues and other emergencies.
Department of Family, Fairness and Housing (DFFH)	Provides recovery advice, information and assistance to communities and municipalities affected by an emergency event which endangers or threatens to endanger the safety or health of any person in Victoria.
Department of Environment, Land, Water and Planning (DELWP)	Leads and supports development of liveable communities, including improving urban planning and development, particularly in outer suburbs and growth areas. DELWP is a partner agency under FFMVic during emergency response, and for bushfire preparedness activities on public land.
Emergency Management Victoria	Shares responsibility with a range of agencies, organisations and departments for ensuring the system of emergency management in Victoria is sustainable, effective and community focussed.
Forest Fire Management Victoria (FFMVic)	FFMVic is comprised of four agencies; DELWP, Parks Victoria, Melbourne Water and VicForests. Responsible for fire suppression and preparedness on public land. Also carries out bushfire preparedness activities in high bushfire risk areas that protect Knox communities, including Dandenong Ranges and Lysterfield Park.
Fire Rescue Victoria (FRV)	Emergency service agency that responds to and prepares communities for bushfires, structural fires, chemical incidents, road accidents, rescues and other emergencies.
Knox City Council - MEMO	Responsible for coordinating Council's resources in response to community emergencies, as required under the Victorian Emergency Management Act 1986.
Knox City Council - MFPO	Under the Country Fire Authority Act 1958 (CFA Act) this role is required to be appointed by Council to undertake and regularly review council's fire prevention planning and plans.
Knox City Council - Strategic Planning Officer	This role prepares, reviews and participates in the development of land use planning and development strategies, policies and projects.
Metro Trains	Metro Trains operate Melbourne's train network. The Metro train network has 15 lines and 212 train stations, servicing more than 200 million customer journeys per year.
Parks Victoria (PV)	Responsible for managing and expanding Victoria's parks networks. Parks Victoria is a partner agency under FFMVic during emergency

	response, and for bushfire preparedness activities in parks and reserves.
SP AusNet	Transports high voltage electricity from where it is generated into electricity distribution networks. It is also a gas distribution network.
VicRoads	Manages the Victorian arterial road network and its use as part of the overall transport system.
Victoria Police (VICPOL)	VICPOL provides a 24-hour police service to the Victorian community. VICPOL is also responsible for the effective coordination of resources and services in response to emergencies and for: relocation/evacuation; registration of evacuees – in conjunction with the Australian Red Cross; and provision of media coordination.
Victoria State Emergency Service (VICSES)	Prepares and responds to floods, storms, earthquakes, tsunami, landslide, road crash rescue and assists other agencies in rescue operations, casualty handling and evacuations.
Vic Track	Vic Track is the owner of Victorian railway land and infrastructure which is leased to public transport operators.

#### 1.3 Community engagement, education and safety

Community engagement, education and safety through the building of relationships and the development and delivery of relevant activities, is a vital component of prevention and preparedness. Resilient communities are well prepared for, and better able to respond to, an emergency and therefore better able to recover from the impacts of an emergency.

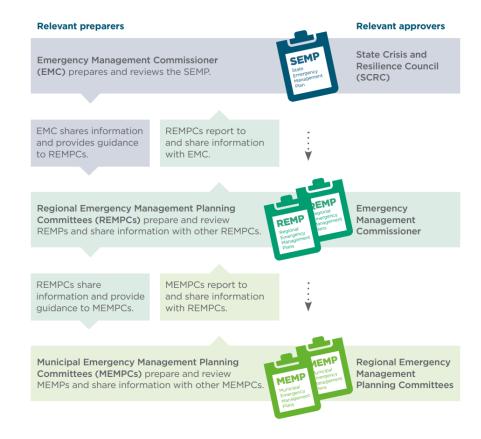
The 2020 Greater Melbourne Bushfire Management Strategy identifies Bushfire Risk Engagement Areas (BREAs) that include both public and private land in Knox around The Basin and Lysterfield. BREAs help fire agencies and the council to prioritise engagement with the community about managing fuels where it can be most effective.

### 1.4 Knox Municipal Fire Management Plan

The Knox MFMP has been prepared and will be maintained as a sub-plan to the Municipal Emergency Management Plan (MEMP) to ensure that the linkages across fire prevention, preparedness, response and recovery programs are consistent and holistic. The MFMP is risk-based, having regard for the social, economic, built and natural environment aspects of fire, and will prove to be a useful tool for agencies and personnel involved in fire management planning activities. The MFMP also contains appropriate reference to other applications of fire, including ecological and cultural planned burning.

Legislative arrangements for the operation of fire management planning are detailed in Part 6a of the Emergency Management Act 2013 (https://www.legislation.vic.gov.au/in-force/acts/emergency-management-act-2013/019). The Knox Municipal Fire Management Planning Committee meetings are now incorporated into the Knox MEMPC.

Figure 1: Framework for emergency management planning (SEMP, September 2020 p.15)



### 1.5 The Planning Process

The Knox MFMP documents the process undertaken to develop the plan and presents the outcomes of this collaborative process. Requirements in accordance with the CFA Act and FRV Act for municipal fire prevention planning will continue to be met through this continuous planning process.

The planning process can be seen as a series of steps that result in the development, maintenance and refinement of the MFMP. Each of the stages guides the planning process that Knox has followed and will continue to do so into the future. The community and organisational engagement process follows the planning cycle (Figure 2) and is documented in the following sections of this document.

Figure 2: Emergency management planning process (Guidelines for Preparing State Regional and Municipal Emergency Management Plans)

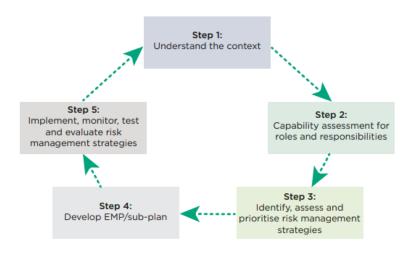


Figure 2: Emergency management planning process

The following table outlines the planning process at regional and municipal levels.

Table 1. Additional information relating to Regional and Municipal planning contexts (IFMP Guide page 10)

Governance	Regional Context	Municipal Context
Governance	Strategic	Operational
Timeframe	10-year planning cycle	3-year planning cycle
Geographic coverage	Large areas that cross many ownership, administrative and management boundaries	Single municipality
Stakeholder and partner interests	State, regional and municipal	Regional, community and local level
Planning environment	Broader landscape land management agencies, government, utility, entitles and landholders likely to have management plans	Municipal area or district; business and property owners that are less likely to have formal management plans
Size and scale	Organisations with large resource and asset bases, with application across whole region; delegated authorities	Business and small landholders, such as farmers and residents with less delegation and resource capacity
Stakeholder decision-making processes	Part of the regional (resource allocation)	Regional and/or local (program delivery)
Local plans	Part of the region	Part of the municipality
Primary plan linkages and integration	Links upwards to the state strategy and is informed by Municipal Fire Management Plans in the region; no state or municipal planning duplication	Provides input in to, and is developed with reference to, Regional Strategic Fire Management Plan; no state or regional planning duplication
Data and information	National, state and regional	Regional and municipal

# 2 Vision, Mission & Objectives

#### 2.1 Vision

Active partnerships with our community, emergency services and local government, working together; to reduce the destructive impact of fire on communities and the environment and strengthen community resilience to the effects of fire by providing a greater understanding of fire management planning within the community and for the environment.

#### 2.2 Mission

Agencies of Knox working together with communities to reduce the impact of fire. This will be achieved by the following objectives.

#### 2.3 Objectives

- Lead fire management planning across the Knox municipal area in prevention, preparedness, response and recovery (PPRR);
- Develop the fire management plan based on shared knowledge;
- Work with the community to reduce the negative impacts of fire;
- Deliver outcomes that address fire risk in the local environment regardless of land tenure;
- Identify significant natural, social, built and economic environments at risk within the Knox municipal area and the risks to neighbouring communities;
- Ensure effective community engagement about fire management planning; and
- Commit to continuous improvement.

For each of these objectives there is a goal set and an action defined in order to achieve these goals. This information is presented in the action plan located in section 6 of this document.

#### 2.4 Alignment with regional objectives

The development of the vision and mission for the Knox MFMP were guided by the Regional Strategic Fire Management Plan vision and mission. The Regional vision aligns with the State vision.

#### Fire management in the Eastern Metropolitan Region that delivers:

- Active participation of community, the sector and government working together in fire management planning to reduce the destructive impact of fire on communities and the environment;
- Communities that are resilient to the effects of fire;
- Greater understanding of the fire sector within the community; and
- Healthy natural, social, built and economic environments.

### Eastern Metropolitan Region Strategic Fire Management Plan mission:

Agencies of the Eastern Metropolitan Region working together with communities to reduce the impact of unplanned fire. The Region will achieve this by the following key themes:

- Committee becomes the driver (lead body) for fire management planning across the region;
- Building and using knowledge of council, partner agencies and community;
- Working with the community to manage fire;
- Delivering cross tenure outcomes that address fire risk at a local, landscape and regional level;
- Effective communications and marketing regarding fire management;
- Continuous improvement
- Identifying and treating significant natural, social, built and economic environments at risk from fire.

# 3 Engagement and communication

Community and stakeholder participation is an integral part of fire risk management. The engagement plan (Section 3.1) identifies key community and stakeholder groups and the level, method and timing of engagement for this plan. It has been developed using the International Association for Public Participation Australasia (IAP2) spectrum. The engagement levels within the IAP2 spectrum are as follows:

#### **Inform**

Provide appropriate detailed and accurate information to assist community and stakeholders in developing a shared understanding of the complexity of issues, alternatives and possible solutions.

#### Consult

Utilise community and stakeholder expertise and diversity to obtain input into analysis, alternatives and develop key decisions.

#### Involve

Work directly with the suite of community and key stakeholders throughout the various processes to ensure that key issues and intent are mutually understood and considered.

#### **Collaborate**

Partner with community and key stakeholders in each aspect of decision making. This includes the development of alternatives, and the identification of contributions and priority actions with a clear understanding of the responsibilities of each community and stakeholder.

#### **Empower**

Foster and promote transparent and accountable processes that allow each community and stakeholder group to empower themselves through key actions and the implementation of responsibilities (IAP2, 2011).

#### 3.1 Community and stakeholder engagement plan

#### **Objective & commitment**

Objective	Commitment
To gather local knowledge, develop community and stakeholder ownership and responsibility for fire management planning, engage with the community and stakeholders to build fire management planning skills and understanding.	To better integrate the management of fire and increase the safety of Knox communities and stakeholders.

The key stakeholders that were identified as part of this planning include key representation from agencies and organisations, which individually represent the community through their own engagement strategies.

Along with key stakeholders from the MEMPC, Council participates in an interactive display annually at Stringybark Festival taking residents through an emergency scenario and the response, relief and recovery process.

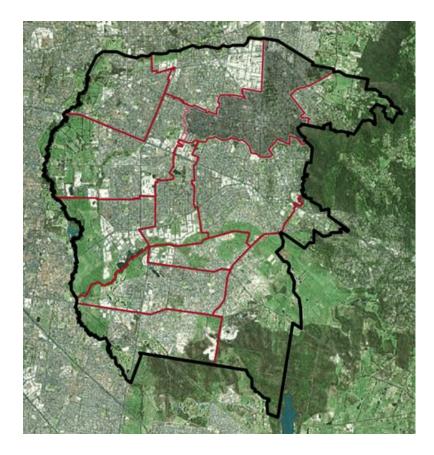
# **Engagement Process**

Stakeholder	Details	Level of Engagement	When
Knox community	Broader Knox community	Inform & collaborate	Ongoing
Knox MEMPC	Knox MEMPC established under the Emergency Management Act (1986), to conduct emergency management planning. Knox MEMPC established to ensure fire management planning across all agencies at a local level.	Empower	Endorsement and ongoing
Regional Emergency Management Planning Committee	Endorsement Role	Empower	Endorse Self Assurance
Eastern Metropolitan RSFMPSC	Eastern Metropolitan RSFMPSC established to ensure fire management planning across all agencies at a regional level.	Inform	Quarterly
Relevant Knox City Council staff	Strategic planning, MFPO, land managers, environment	Collaborate	As required
EMCEMP	Neighbouring Councils with a shared risk	Consult	As required

# 4 Summary of the environmental scan

#### **Description of the Knox municipal area**

The Knox municipal area is located 25 kilometres east of the Melbourne Central Business District. The district boasts a green, leafy image extending to the foothills of the picturesque Dandenong Ranges. Knox municipal area is one of the most populous and diverse municipalities in Victoria, with more than 165,000 residents living in eleven suburbs.





Aerial view of Knox municipal area and surrounding municipalities

### **Location and land tenure**

The Knox municipal area is located at the foothills of the Dandenong Ranges and includes the geographic area known as the City of Knox. This area is 114 square kilometres and includes predominant land tenures of Parks Victoria, Knox City Council and private land & property owners. It is supported by seven CFA Brigades and two FRV Brigades.

Surrounded by major parks, with five creeks running through the Knox municipal area, Knox celebrates, and protects, its' environment. It has a strong and growing business, educational and industrial life, and is located close to growing markets and transport hubs.

The City of Knox is a major hub of cultural, commercial, business and innovative activity in the eastern suburbs of Victoria's capital city. It is the gateway to both a major growth area in Melbourne and the urban-rural fringe.

#### Population and demographic information

The population of the Knox municipal area is approximately 166,000 spread over 114 square kilometres and 11 suburbs. Suburbs include Bayswater, Boronia, Ferntree Gully, Knoxfield, Lysterfield, Rowville, Scoresby, The Basin, Upper Ferntree Gully, Wantirna and Wantirna South.

For a full breakdown of Knox's demographics follow links to Council web site and/or Profile ID

https://www.knox.vic.gov.au/demographics

https://profile.id.com.au/knox

#### Recent history of fire in the Knox municipal area

Statistics for the Knox municipality show that CFA have responded to 3176 calls from 1 January 2019 to 13 September 2021 and FRV have responded to 1131 calls from 1 July 2020 to 30 June 2021. Fire and explosions make up almost a quarter of the calls and over 20% were false alarms. Three significant house fires were attended by our fire agencies during 200-21. Although bushfires have predominately occurred in neighbouring municipalities, the Quarry Road bushfire on 7 February 2009 (Black Saturday), had the potential to damage parts of Knox and cause widespread damage to Ferny Creek and the Dandenong Ranges and posed a significant potential threat to life and property. This fire is a clear indicator of the potential for bushfires starting within the Knox municipal area and causing significant threat to the area and neighbouring communities.

The Knox municipal area has a history of suspicious fire events. For the period 1 July 2020 to 30 June 2021, 31 reported arson incidents occurred within this area (data obtained from VICPOL). There are serious consequences from bushfire due to arson, with the potential to impact heavily upon our environment and residents, and on neighbouring municipalities. To address the issue of bushfire arson prevention, VICPOL have implemented a strategy with a primary focus upon prevention, intelligence and enforcement strategies. This statewide approach involves effective cooperation with partners at a State and local level. Within the Knox municipal area during the average bushfire season, on those days activated as severe, extreme or code red, intensive police and Knox Community Laws patrols focus upon high bushfire arson locations and time periods.

## 5 Risk assessment

#### 5.1 Risk assessment process

When developing a fire management strategy it is necessary to undertake a risk management process. The AS/NZS ISO 31000:2009 Risk Management Standards provide a risk management model used to guide decision making in a wide range of applications including emergency management and fire safety. This standard defines risk as the chance of something happening that will have a negative impact on objectives.

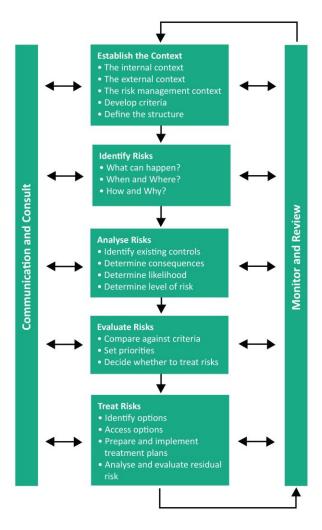


Figure 3: AS/NZS ISO 31000:2009 Risk Management – Principles and guidelines (Standards Australia, 2009)

In the Knox municipal area the risk assessment process is informed by the environmental scan and the use of fire specific risk assessment processes and tools.

Risk assessment processes and tools that inform the risk assessment process are:

- Victorian Fire Risk Register (VFRR-B)
- Victorian Built Environment Risk Assessment Process (V-BERAP)
- Bushfire Management Overlay
- Bushfire Prone Area mapping

#### 5.2 Victorian Fire Risk Register - Bushfire

The Victorian Fire Risk Register - Bushfire (VFRR-B) is used to identify and address bushfire risks within the Knox municipal area. The VFRR-B is reviewed every three years. Risk identification is ongoing as the municipality changes.

The VFRR-B is a systematic process that helps to identify assets at risk from bushfire, assesses the level of risk to these assets and highlights the treatments currently in place along with the responsible agencies for implementing these strategies. Outputs from the VFRR-B inform and support this plan.

The assets of the VFRR-B are divided into four classes: human settlement, economic, and cultural heritage.

#### 5.3 Victorian Built Environment Risk Assessment Process

The V-BERAP provides a sound platform for conducting a structure fire risk assessment which is clearly defined by a robust 10 step process. The V-BERAP Guideline uses the methodology recognised in the National Emergency Risk Assessment Guidelines (NERAG) which is underpinned by ISO31000, the International Standard for Risk Management.

A Risk Working Group was formed and during the first workshop risks were identified by their building class via the following statement "There is potential that an accidental ignition will result in a fire in a:

- Class 2 building (flats, apartments)
- Class 8 building (factory)
- Class 1(a) building (house)
- Unregistered/illegal Class 1(b) building (boarding house)
- Class 9(c) building (aged care facility)
- Class 3 building (large boarding house)
   that in turn will cause serious injury or loss of life, economic loss and/or displacement."

Using available evidence, the expertise in the room and participant agreement, the group identified the consequence categories for the above building classes to include – 'People' and 'Economy', with 'Social Setting' also identified for Class 2 and Class 1(b) buildings and 'Environment' also identified for Class 8 buildings. A risk assessment was then completed for each consequence category.

#### 5.4 Bushfire Management Overlay and Bushfire Prone Area

The following two planning controls are also used to inform risk identification and prioritisation the delivery of treatment programs for bushfire in Knox.

#### **Bushfire Management Overlay**

The Bushfire Management Overlay (BMO) is established under the Victorian Planning Provisions, mapping developed by the State government and administered by local government identifies land in Victoria that may be at risk from bushfire. Land identified as BMO in the local planning scheme may require a planning permit to develop or subdivide. In Knox there are 2,490 properties that fall within the BMO.

#### **Bushfire Prone Area**

Bushfire prone areas (BPA) are designated under Regulation 810 (Building Regulations 2006) as areas that are subject to or likely to be subject to bushfires. This building control aims to regulate the construction standards of residential buildings depending on the level of bushfire risk posed to the planned dwelling. Properties in designated BPA's will require Bushfire Attack Level assessment and minimum constructions standards applied.

#### 5.5 Hazardous Trees

The Electricity Safety Act 1998 (Victoria) (ES Act) Section 86 B provides the obligation for municipal councils in the "Municipal Fire Prevention Plan must specify procedures for the identification of trees that are hazardous to electric lines". This will be achieved through:

- a. procedures and criteria for the identification of trees that are likely to fall onto, or come into contact with, an electric line (hazardous trees); and
- b. procedures for the notification of responsible persons of trees that are hazardous trees in relation to electric lines for which they are responsible.

A hazardous tree, according to the ES Act, is a tree which 'is likely to fall onto, or come into contact with, an electric line'.

Responsibility is allocated between distribution businesses and other owners of electricity infrastructure, land owners and occupiers for clearance of private power lines, public land managers, where they are identified as the responsible person such as municipal councils, the DELWP and VicRoads.

Councils are responsible for trees on public land within their municipalities, for which they are the land manager, that are within a Declared Area for the purpose of the ES Act. Primary responsibility for vegetation clearance and management within the municipality, for areas which are not within the Declared Area, will usually fall to the relevant electricity distribution company.

There are a number of organisations that have responsibility for line clearance in Knox including:

- United Energy
- SP AusNet
- Metro Trains
- VicRoads
- Knox City Council

There are two electricity distribution business in the Knox municipality being Unite Energy and SP Ausnet. Declared Areas under Section 81 of the ES Act that are the responsibility of the Council can be seen in the Knox City Council Electric Line Clearance management Plan 2018-2019.

Knox's Electric Line Clearance Management Plan is update annually on 1 April and is available on: <a href="http://www.knox.vic.gov.au/files/StreetTrees/Electrical\_Line\_Clearance\_Management\_Plan\_-">http://www.knox.vic.gov.au/files/StreetTrees/Electrical\_Line\_Clearance\_Management\_Plan\_-</a> <a href="https://www.knox.vic.gov.au/files/StreetTrees/Electrical\_Line\_Clearance\_Management\_Plan\_-">https://www.knox.vic.gov.au/files/StreetTrees/Electrical\_Line\_Clearance\_Management\_Plan\_-</a> <a href="h

#### 5.6 Risk Assessment Working Group

After identifying the risks, the Knox Fire Management Planning working group apply expert knowledge and experience whilst analysing and prioritising risk using a matrix (refer to appendix 3). This process also takes into consideration current controls. The outcome of the process produces a range of actions that will guide the Knox MEMPC to minimise risk and improve public safety in the fire environment.

The risk assessment methodology requires the working group to:

- Identify the likelihood of an event occurring;
- Identify the consequence of an event occurring;
- Identify current controls in place to manage the risks;
- Identify a corresponding risk level of the event occurring (based on the matrix below);
- Make an assessment of the effectiveness of the controls; and

Identify a suite of new controls, risk mitigation and treatment measures (goals/actions).

Based on these assessments, participants then identify a suite of risk preparedness, prevention, response and recovery measures.

Refer to Appendix 1 - 11 for detailed plans.

#### 5.11 Shelter options

Neighbourhood safer places – places of last resort (Bushfire) and community fire refuges may be provided for community as last resort survival options. They do not replace having a well thought out and practiced safety plan. Based on the relatively low risk of bushfire, Knox municipal area does not have any designated neighbourhood safer places or fire refuges. However, it does have a number of accessible areas such as shopping centres, libraries and other community facilities available.

# 6 Monitor and improve

The outcomes of this plan will be monitored and improved throughout the planning cycle. These evaluations will inform the current and future planning cycles.

#### 6.1 Monitoring and evaluation

The Knox MEMPC monitors progress towards the completion of treatment works listed in this plan. The KPIs stated in the action plan are used to determine if the actions were completed successfully and if the goals for each of the strategic objectives set by the Committee have been achieved. Additional measures for evaluation such as training, exercises and real event After Action Reviews are used in the monitoring and evaluation of this plan and contribute to recommendations for the future.

#### 6.2 Review

The Knox MEMPC will review this plan annually and as necessary account for any changes in context or risk.

This may be triggered by a range of circumstances, including but not limited to:

- Changes to the Knox municipal area, organisation responsibilities and capacity or legislation, or state operational documents;
- Changes to the risk of bushfire or structural fire in the area;
- Following a major fire event; or
- Further development of fire management tools including the VFRR-B and the V-BERAP.

#### 6.3 Reporting

The Knox MEMPC reports every six months to the Eastern Metropolitan RSFMPSC on its progress towards implementing the fire risk management activities identified in the Knox MFMP.

### 6.4 Continuous improvement and Best Practice

This version of the Knox MFMP captures the learnings from fire events, reviews, training and exercises conducted since the publication of the 2015-2018 Plan. This Plan will continue to be updated to reflect future continuous improvement opportunities for fire management within the Knox municipal area.

# 7 Appendix

# 1. Measuring the likelihood of a hazard occurring

Level	Descriptor	Description In any one year, the likelihood of the event occurring is:
Α	Almost certain	Close to 100% - annually
В	Likely	33% - once in every three years
С	Possible	10% - once in every 10 years
D	Unlikely	3% - once in every 30 years
E	Rare	1% - once in every 100 years

### 2. Measuring the consequence of a hazard occurring

Level	Indicative guide to potential consequences					
	People	Infrastructure	Public Administration	Environment	Economy	Social Setting
Catastrophic	50+ lives lost Hundreds injured 1,000+ houses destroyed 2,000+ people displaced 10,000 – 30,000 livestock lost.	Loss of critical infrastructure and/or services for 24-48 hours to the Melbourne metropolitan area.	Significant State- wide outrage. Royal Commission or other similar inquiry leading to changes in policy and practice.	Permanent total loss of one or more ecosystems or critical habitat elements. Loss of nationally significant cultural assets.	\$1 billion or 30% of State revenue.	Severe disruption to community wellbeing over a whole area or large part of it for a period of many years.
Major	10 fatalities as a direct result of the event 300+ houses destroyed 500+ people displaced 10,000 – 30,000 livestock lost Significant loss of agricultural breeding stock.	Loss of critical infrastructure and/or services for 8-16 hours to the Melbourne metropolitan area. Loss of services to a major regional city/several suburbs for up to a week.	Significant regional and local outrage, with some occurring at state level. Parliamentary or other inquiry leading to changes in practice.	Permanent partial loss of one or more ecosystems or critical habitat elements. Extinction of a species or significantly increase the likelihood of extinction to almost certain that intervention such as captive breeding programs are required. Loss of state significant cultural assets.	Damage costs including legal actions and/or industry impacts (tourism, forestry, wine and grape, etc.) to the value of more than \$300 million.	Severe disruption to community wellbeing over a wide area of for more than 24 months.
Serious	5 fatalities as a direct result of the event Large number of people affected by the event 100+ houses destroyed 200+ people displaced 3,000 – 10,000 livestock lost.	Loss of critical infrastructure and/or services for 2-5 hours to the Melbourne metropolitan area.  Loss of services to a major regional city/several suburbs for 3-4 days.	Some outrage at local and regional level.	Long term disturbance to one or more ecosystems or critical habitat elements. National response and/or support for animal welfare. Loss of regionally significant cultural assets.	Damage costs including legal actions and/or industry impacts (tourism, forestry, wine etc.) to the value of more than \$100 million.	Severe disruption to community wellbeing over a moderate to large area for a period of months.
Important	Single fatality and/or multiple serious injuries requiring hospitalisation as a direct result of the event Up to 30 houses destroyed 50+ people displaced 3,000 – 10,000 livestock lost.	Loss of critical infrastructure and/or services for 1 hour to the Melbourne metropolitan area. Loss of services to a major regional city/several suburbs for 1 day. Loss of services to a local community for a week.	Local outrage and concern	Temporary disturbance to one or more ecosystems or critical habitat elements. Local response and/or support for animal welfare.	Damage costs including legal actions and/or industry impacts (tourism, forestry, wine etc.) to the value of more than \$30 million.	Localised disruption to community wellbeing over a small area for a period of weeks.

## 3. Determining a risk level for each hazard – the risk matrix

Having determined the likelihood and expected consequence of a hazard occurring, an overall level of risk can be identified through the use of the following matrix.

	Consequence			
Likelihood	Important	Serious	Major	Catastrophic
Almost certain	Moderate	High	Extreme	Extreme
Likely	Moderate	High	High	Extreme
Possible	Low	Moderate	High	High
Unlikely	Low	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate

# 4. Recommended action for each risk category

The following levels of action are recommended for each of the risk categories:

Risk category	Recommended action	
Extreme	Must be managed with a detailed plan – will require resources and training	
High	Requires immediate planning – resource priority and training	
Moderate	derate Manage by specific monitoring or response procedures	
Low	Manage by routine procedures	

## 5. Determining the effectiveness of control measures

Descriptor	Guide
Fully effective	Nothing more to be done except review and monitor the existing controls. Controls are well designed for the risk, are largely preventative and address the root-causes and management believes that they are affective and reliable at all times. Reactive controls only support preventative controls.
Substantially effective	Most controls are designed correctly and are in place and effective. Some more work to be done to improve operating effectiveness of management has doubts about operational effectiveness and reliability.
Partially effective	While the design of controls may be largely correct in that they treat most of the root-causes of the risk, they are not currently very effective. There may be an over-reliance on reactive controls.  OR  Some of the controls do not seem correctly designed in that they do not treat root-causes, those that are designed correctly are operating effectively.
Largely ineffective	Significant control gaps. Either controls do not treat root-causes or they do not
	operate at all effectively. Controls, if they exist, are just reactive.
None or totally effective	Virtually no credible control. Management has no confidence that any degree of control is being achieved due to poor control design and/or very limited operational effectiveness.

### 6. Current controls

The following table has been designed to describe current controls used in the risk matrix.

### **Risk Assessment**

Contro		Control	Hazard Control Type	Responsibility
Comm	nunity	Fire Ready Victoria program Property Advice Visit Service	<ul><li>Bushfire</li><li>Grassfire</li></ul>	CFA/FRV
and ed	ducation	Hazardous atmospheres – Shelter-in- Place advice messages	<ul><li>Industrial/commercial fire</li><li>Chemical spill (hazardous materials (HAZMAT))</li></ul>	CFA/FRV
		Community Information Guide	<ul><li>Bushfire</li><li>Grassfire</li></ul>	CFA/FRV
		Total Fire Ban (TFB) days, Fire Danger Periods & Fire Danger Ratings	■ Bushfire	CFA/FRV/ Bureau of Meteorology
		Home Fire Safety Sessions, Smoke Alarm Replacement Program, Fire HELP, Ready2Go	Structure fire	CFA/FRV/KCC
		Fire Danger Rating signage and Fire Ready signage	■ Bushfire	CFA/FRV/KCC
		Emergency Management Planning Industry Training Programs	Structure fire	CFA/FRV
		Community education program	<ul><li>Bushfire</li></ul>	CFA/FFMVic
		Police Proactive Patrol – Operation HASSAR, Operation Fire Setter and proactive high risk fire danger patrols	■ Bushfire	VICPOL
		Community Fire Guard program	■ Bushfire	CFA
		Community Warnings	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
		Brigade advice	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	CFA/FRV
		Community information	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All

Control Category	Control	Hazard Control Type	Responsibility	
Hazard Reduction	KCC's Hazard Clearance program Bushland Fire Management (BFM) plans Fire prevention notices Permits to burn	■ Bushfire	ксс	
	Greater Melbourne Joint Fuel Management Plan	■ Bushfire	CFA/FFMVic	
	Electrical Safety – maintenance of power infrastructure	■ Bushfire	KCC/SP Ausnet	
	Vegetation Management Program/Fuel Reduction Planning	Bushfire	CFA/FFMVic	
	Clandestine Lab	<ul><li>Public accommodation fire</li><li>Single incident fire</li><li>Industrial/commercial fire</li></ul>	VICPOL/CFA/FRV /KCC	
	Road Management plans	Bushfire	KCC/VicRoads/ FFM Vic	
	Hazard Trees Management Planning	Bushfire	ксс	
Ignition Management	Police Arson program/Fire Setter strategy Operation Fire Setter, TFB days	<ul><li>Public accommodation fire</li><li>Single incident fire</li><li>Industrial/commercial fire</li></ul>	VICPOL	
	Fire patrols – Operation Bushfire Patrols	<ul><li>Bushfire</li></ul>	VICPOL	
	Operation HUSSAR (Covert Operation Dandenong Ranges)	■ Bushfire	VICPOL	
	Essential services maintenance	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	Utilities	
	Security	<ul> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	VICPOL	
	Road Management plans	■ Bushfire	KCC/VicRoads	
	VicRoads Bushfire Roads Risk Assessment	<ul><li>Bushfire</li></ul>	VicRoads	
	Hazard Trees Planning	<ul><li>Bushfire</li></ul>	Responsible Land Manager	

Control Category	Control	Hazard Control Type	Responsibility
Legislation &	Bushfire Management Overlay	■ Bushfire	KCC/DELWP
regulations	Bushfire Prone Area	<ul><li>Bushfire</li></ul>	DELWP
	SP Ausnet – plans for substations	<ul><li>Bushfire</li></ul>	SP Ausnet
	Emergency management plans	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Industry Codes of Practice	<ul> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Non-compliant cladding	<ul><li>Public accommodation fire</li><li>Single incident fire</li><li>Industrial/commercial fire</li></ul>	State/KCC/CFA/F RV
	Occupational Health & Safety	<ul> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Certification & accreditation of facilities	<ul><li>Public accommodation fire</li><li>Industrial/commercial fire</li><li>Chemical spill (HAZMAT)</li></ul>	All agencies
	Sprinkler & alarm systems	<ul><li>Public accommodation fire</li><li>Single incident fire</li><li>Industrial/commercial fire</li></ul>	All agencies
	Health regulations	<ul> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Electrical regulations	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> </ul>	All agencies
	HAZMAT regulations	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Environmental protection regulations	<ul><li>Industrial/commercial fire</li><li>Chemical spill (HAZMAT)</li></ul>	All agencies

Control Category	Control	Hazard Control Type	Responsibility
General evacuation, vulnerable persons & evacuation of	Vulnerable persons register	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	KCC/VICPOL/ DFFH funded agencies
vulnerable persons	Vulnerable facilities register	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	KCC/VICPOL/ funded agencies
	VICPOL Evacuation Plans	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	VICPOL
	KCC Aged Care Vulnerable Persons register	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	КСС
	KCC Children Services High Fire Danger Rating Policy and Procedure	■ Bushfire	KCC
	Eastern Metropolitan Region Emergency Relief Centre Guidelines	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	Councils within Eastern Metropolitan Region
	Traffic management plans	<ul><li>Bushfire</li><li>Industrial/commercial fire</li><li>Chemical spill (HAZMAT)</li></ul>	VICPOL/VicRoads
Response	Local Response Plans	<ul><li>Bushfire</li></ul>	CFA/FRV/FFMVic
planning	Pre Plans/Site Information Plans	<ul><li>Structure fire</li><li>Bushfire</li></ul>	CFA/FRV
	Practices/exercises/drills	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Agency response plans	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> <li>Non-compliant cladding</li> </ul>	All agencies

Control Category	Control	Hazard Control Type	Responsibility
Response planning (contd.)	Hazardous atmospheres – Shelter in Place	<ul><li>Industrial/commercial fire</li><li>Chemical spill (HAZMAT)</li></ul>	CFA/FRV
Recovery planning	Agency recovery plans	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Insurance	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Agency business continuity plans	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	All agencies
	Municipal recovery plan	<ul> <li>Bushfire</li> <li>Public accommodation fire</li> <li>Single incident fire</li> <li>Industrial/commercial fire</li> <li>Chemical spill (HAZMAT)</li> </ul>	КСС

### 7. Bushfire Risk Assessment Matrix

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Natural	Parklands being impacted by bushfire.	Wantirna, William Morris Reserve (Melway 63 F7) Wantirna South, Blind Creek Corridor/Lewis Road retarding basin (Melway 64 B10) Ferntree Gully, Blind Creek Billabong Reserve (Melway 64 H11) Ferntree Gully, Forest Rd, Koolunga Native Reserve (Melway 65 B11) Ferntree Gully, Quarry (Melway 74 D5) The Basin, Sugarloaf Hill, Liverpool Road retarding basin (Melway 65 G5) The Basin, Wicks Reserve (Melway 65 H8) Boronia, Old Joes Creek Retarding Basin (Melway 65 A6) Wantirna, Bateman Reserve (Melway 63 F4) Lysterfield, Hanson/Boral Quarry (Melway 82 E7) Dandenong Creek Corridor (Melway 81 G9 – 81 D4)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Almost certain	Important	Moderate	Maintain and review current controls.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Natural	Parklands being impacted by bushfire (contd.).	Boronia, Forest Rd, Wirrianda Reserve (Melway 65 C10)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC
		Knoxfield, Lakewood Estate bushland (Melway 73 B2) The Basin, Mountain Hwy, Road Reserve (Melway 65 G7-H7) Lysterfield, Lysterfield Road, Road Reserve (Melway 74 B10) Lysterfield, Wellington Road, Road Reserve (Melway 83 D4) SP Ausnet, grass and bushland (Melway 82 A7-63 E3) Rowville South, Timbertop Drive, Further info on reserve (Melway 81 F4) Rowville, Heany Park Reserve (Melway 82 C6) Lysterfield, Lysterfield Lake Park (Melway 83 C12)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Likely	Important	Moderate	Maintain and review current controls.	Knox MEMPC
		Melbourne Water wetlands (Melway 81 E4)		Substantially effective	Possible	Serious	Moderate	Maintain and review current controls.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Economic	Businesses being impacted by bushfire.	Upper Ferntree Gully Township (Melway 74 F6) Ferntree Gully Township (Melway74 C3) The Basin Township (Melway 65 G7) Rowville, Wellington Road, Boral and Hanson Quarries (Melway 82 E4)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Moderate	Maintain and review current controls.	Knox MEMPC
Built	Communities (human settlement) being impacted by bushfire.	Ferntree Gully Fringe, Dandenong Ranges National Park boundary (Melway 74 E1)	<ul> <li>Community education</li> <li>Preparedness activities including fuel management and Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Serious	High	Better promotion of Fire Ready programs.  JFMP review of fuel loads abutting, and within park, and support of fuel reduction actions.	Knox MEMPC/ CFA/FRV/ FFMVic
		Upper Ferntree Gully, North of Quarry Rd (Melway 74 D5)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Serious	High	Manage fire load within the former quarry.	KCC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built (contd.)	Communities (human settlement) being impacted by bushfire contd.	Upper Ferntree Gully, Glenfern Road (Melway 74 E9)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Serious	Moderate	Maintain and review current controls.	Knox MEMPC
		Wantirna, Bateman Reserve (Melway 63 F4) Boronia, Corner Colchester Road and Mountain Highway (Melway 65 D4)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC
		Upper Ferntree Gully, Rail Line, Old Belgrave Road (Melway 74 E5)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Almost certain	Serious	High	Ensure fuel reduction and education programs are relevant and integrated across agencies.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
(l so b ir	Communities (human settlement) being impacted by bushfire contd.	The Basin, Academy Drive (Melway 65 F6) Knoxfield, Lakewood Estate (Melway 73 B2) Boronia, Old Joes Creek Retarding Basin (Melway 65 A6) Wantirna South, Flamingo Reserve (Melway 63 E11) Wantirna South, Kindergarten, Flamingo Drive (Melway 63 E11)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC
		Wantirna, William Morris Reserve (Melway 63 F7)	Community education Hazard reduction Ignition management Legislation & regulations Evacuation & vulnerable persons Response planning Recovery planning	Substantially effective	Almost certain	Important	Moderate	Maintain and review current controls.	Knox MEMPC
		Ferntree Gully, Forest Road, Koolunga Native Reserve, (Melway 65 B11) Lysterfield, Lysterfield Interface (Melway82H7) Rowville, Hanson Lysterfield Quarry (Melway 82 E4) Rowville South, Timbertop Drive (Melway 81 H5) Wantirna South, Blind Creek Corridor (Melway72 D3-63H12) Ferntree Gully, Blind Creek Corridor (Melway 64 F11-74 C1) Ferntree Gully, Billabong Reserve, Blind Creek Billabong Reserve (Melway 64 H11) Knox Park Primary School, Knoxfield (Melway 73 C3)		Substantially effective	Likely	Important	Moderate	Maintain and review current controls.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built (contd.)	Communities (human settlement) being impacted by bushfire contd.	Boronia, Wirrianda Reserve, Forest Road (Melway 65 C10)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Unlikely	Important	Low	Adequate controls in place.	Knox MEMPC
		The Basin/Sassafras (Melway 66 B7) The Basin, Sheffield Road (Melway 65 J7) Lysterfield South, Lysterfield/ Wellington Road (Melway 83 D4) The Basin, Wicks Reserve (Melway 65 H8) The Basin, Church of God (Melway65 J9) Rowville, Heany Park Scout and Guide Camp (Melway 82 C6) The Basin, Doongalla, Doongalla Road (Melway 65 J7) Ferntree Gully Fringe, National Park Boundary (Melway 74 E1) Upper Ferntree Gully, Glenfern Road (Melway 74 E9)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Serious	High	Ensure fuel reduction and education programs are relevant and integrated across agencies.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built (contd.)	Communities (human settlement) being impacted by bushfire contd.	The Basin, The Basin Primary School Liverpool Road (Melway 65 F6). Upper Ferntree Gully Primary School, Talaskia Road (Melway 74 G6) The Basin, Salvation Army Mountain View, Liverpool Road (Melway 65 E5) The Basin, Salvation Army Rehabilitation Centre, Basin Olinda Road (Melway 65 H7)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Likely	Important	Moderate	Maintain and review current controls.	Knox MEMPC
		Upper Ferntree Gully, Railway Line (Melway 74 E5)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Almost certain	Serious	High	Ensure fuel reduction and education programs are relevant and integrated across agencies.	Knox MEMPC
	Critical infrastructure being impacted by bushfire.	Powerlines/supply	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Evacuation &amp; vulnerable persons</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Plans in place need to be reviewed annually.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built (contd.)	Critical infrastructure being impacted by bushfire.	Major roads Rail corridor	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Work closely with key agency. Owners ensure plans are in place across PPRR.	Knox MEMPC
		Eastlink	<ul> <li>Community         education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp;         regulations</li> <li>Response planning</li> </ul>	Partially effective	Likely	Serious	High	Work closely with key agency. Owners ensure plans are in place across PPRR.	Knox MEMPC
		Hospitals	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC
		Telecommunications Infrastructure	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Work closely key agency. Owners Ensure plans are in place across PPRR.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Social	Historically/ culturally significant gathering places being impacted by bushfire.	Ferntree Gully, Ambleside Park Homestead (Melway 65 D12) Boronia, Millers Homestead (Melway 65 D6) Stamford Park Homestead (Melway 72 H11)	<ul> <li>Community         education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp;         regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Rare	Important	Low	Adequate controls in place.	Knox MEMPC
		The Basin, The Chandler Oak Tree, Sheffield Road (Melway 65 J7) The Basin, Como Gardens (Melway 65 K8)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Likely	Important	Low	Adequate controls in place.	Knox MEMPC
		Rowville, Starlight Reserve (Melway 81 F5)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC

#### 8. Other Fire Risk Assessment Matrix

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness of Controls	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Natural	Waterways being impacted industrial/ commercial fire/ chemical spill (HAZMAT).	All creeks and water bodies	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Serious	Moderate	Maintain and review current controls.	Relevant agency as per SEMP
	Atmospheres being impacted industrial/ commercial fire/ chemical spill (HAZMAT).	All atmospheres	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> <li>Community warnings</li> </ul>	Substantially effective	Unlikely	Serious	Moderate	Maintain and review current controls.	Knox MEMPC
		All parklands	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Unlikely	Serious	Moderate	Maintain and review current controls.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness of Controls	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Economic	Businesses being impacted by industrial/ commercial fire/ chemical spill (HAZMAT).	Commercial/ industrial estates	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Moderate	Maintain and review current controls.	Knox MEMPC
	Businesses being impacted by single incident fire.	All commercial businesses	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Moderate	Maintain and review current controls.	Knox MEMPC
Built	Human settlement being impacted by industrial/commercial fire/chemical spill (HAZMAT).	All human settlement within the vicinity of industrial estates and major road.	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Serious	High	Utilise tools to further identify risk and treatment options.	Knox MEMPC
	Human settlement being impacted by public accommodation fire.	All public accommodation properties. (e.g. boarding houses, nursing homes, hospitals)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Unlikely	Serious	Moderate	Work closely with key agency. Owners ensure plans are in place across PPRR.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness of Controls	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built	Shopping precincts	Major shopping centres throughout the municipality (e.g. Westfield Knox City Shopping Centre, Stud Park Shopping Centre, Wellington Village Shopping Centre)	<ul> <li>Property management plans</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Likely	Important	Moderate	Agency Plans in place need to be reviewed annually. Exercising with local management and other agencies.	CFA/FRV/ Centre Mgmnt
	Multi storey apartments complex	Throughout the municipality	<ul> <li>Property management plans</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Likely	Important	Moderate	Detection and sprinkler systems, emergency plans, warden training, response plans, education programs	CFA/FRV
	Critical infrastructure being impacted by fire.	Powerlines/supply	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Plans in place need to be reviewed annually.	Knox MEMPC
		Major roads Rail corridor	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Work closely with key agency. Owners ensure plans are in place across PPRR.	Knox MEMPC

Hazard Environment	What is the Risk	Risk Location/ Element	Current Controls	Effectiveness of Controls	Likelihood	Consequence	Risk Category	Actions to Reduce Risk	Lead Agency
Built	Critical infrastructure being impacted by fire (contd.)	Eastlink	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Serious	High	Work closely with key agency. Owners ensure plans are in place across PPRR.	Knox MEMPC
		Hospitals	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Possible	Important	Low	Adequate controls in place.	Knox MEMPC
		Telecommunications Infrastructure	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Partially effective	Likely	Major	High	Work closely key agency. Owners Ensure plans are in place across PPRR.	Knox MEMPC
Social	Historically/culturally significant gathering places being impacted by fire.	Ferntree Gully, Ambleside Park Homestead (Melway 65 D12) Boronia, Millers Homestead (Melway 65 D6) Stamford Park Homestead (Melway 72 H11)	<ul> <li>Community education</li> <li>Hazard reduction</li> <li>Ignition management</li> <li>Legislation &amp; regulations</li> <li>Response planning</li> <li>Recovery planning</li> </ul>	Substantially effective	Rare	Important	Low	Adequate controls in place.	Knox MEMPC

## 9. High risk treatment plan

Having identified hazards in the built environment that represent a high level of risk to the community, the following treatment plan is established.

Communities (Human settlement) being impacted by bushfire

Description	The Basin, Sheffield Road
	Lysterfield South, Lysterfield/Wellington Road
	The Basin, Church of God Site, Basin Olinda Road
	Rowville, Heany Park Scout and Guide Camp, Heany Road
	The Basin, Doongalla, Doongalla Road
	Ferntree Gully Fringe, National Park Boundary
	Upper Ferntree Gully, Glenfern Road
	Upper Ferntree Gully, Railway Line
	The Basin, Wicks Reserve, The Basin-Olinda Road, The Basin
Likelihood of occurring	Almost certain/Likely
Consequence of occurring	Serious
Risk rating	High
Nature of hazard	Risk of bushfire to life and property
Those people in the community most	Residents, visitors and those working in the Knox municipal area
vulnerable	
Responsibility to respond/manage risk	All land managers
Agencies role in relation to this risk	Risk identification, treatment management, education and response
Prevention activities	Fuel reduction programs/other fuel treatment, Hazardous Trees
	identification & notification procedures
Preparedness activities	Community engagement and education – Fire Ready program, Community Fireguard, testing & exercises
Response activities	CFA/FFMVic operational plans, traffic management plans, MEMP
Recovery activities	MEMP - recovery plan, Hazard Trees identification, rehabilitation plans, restoration plans

### Human settlement being impacted by industrial/commercial fire/chemical incident (HAZMAT)

Likelihood of occurring	Likely
Consequence of occurring	Serious
Risk rating	High
Nature of hazard	Risk of human settlement being impacted by industrial/commercial fire/chemical spill (HAZMAT)
Those in community most vulnerable	All human settlement within the vicinity of industrial estates and major roads
Responsibility to respond/manage risk	CFA/FRV
Agencies role in relation to this risk	Risk identification, treatment management, engagement and education, response
Prevention activities	Development of risk identification tools, legislation
Preparedness activities	Community engagement and education programs, enforcement, equipment testing programs
Response activities	Crisis management, CFA/FRV operational plans traffic management plans, MEMP, emergency management plans in place and tested
Recovery activities	MEMP - recovery plan, restoration plans

# Critical infrastructure being impacted by bushfire (major roads including Eastlink, public transport and telecommunications infrastructure)

<u> </u>	
Likelihood of occurring	Likely
Consequence of occurring	Major
Risk rating	High
Nature of hazard	Risk of bushfire to infrastructure
People in the community most vulnerable	Majority of community & neighbouring communities
Responsibility to respond/manage risk	Lead response agencies and key agency owners
Agencies role in relation to this risk	Risk identification, treatment management, education and response
Prevention activities	Fuel reduction programs, mechanical fuel treatment – roadside maintenance
Preparedness activities	Planning, business continuity planning, community engagement and education, agency contingency plans
Response activities	Crisis management, CFA/FRV operational plans, traffic management plans, MEMPC, emergency management plans in place and tested
Recovery activities	MEMP - recovery plan, Hazard Trees identification, rehabilitation plans, restoration plans

### Critical infrastructure being impacted by bushfire (powerlines/supply)

Likelihood of occurring	Likely					
Consequence of occurring	Major					
Risk rating	High					
Nature of hazard	Risk of bushfire to infrastructure					
Those in community most vulnerable	Majority of community and neighbouring communities					
Responsibility to respond/manage risk	Lead response agencies and key agency owners					
Agencies role in relation to this risk	Risk identification, treatment management, education and response					
Response activities	Transmission network Plan easement patrols and report condition, address as per priority. Works to be completed by priority date. This is monitored through the BFM index which is reported monthly to Essential Services Victoria (ESV). Check all off road vehicles and plant by approved mechanic. Arrange inspection of vacant sites & report condition, reduce fuel loads as required. Arrange remedial action for vacant sites. Inspect stations and depots, report and rectify any anomalies. Arrange annual fire training for transmission linemen. Program works for all bushfire mitigation activities and related lines maintenance work. Terminal stations have regular inspection program for whole year. Fire equipment on all terminal stations inspected regularly. Regular grass cutting and yard spraying program in place. Distribution network All distribution lines have a vegetation assessment as per ESV requirements and cut according to priority. All poles and wires inspected as per cyclic inspection plan. Defect items prioritised and maintained accordingly. Policy requires that at the start of the BFM period the company maintenance index is zero. ie. no overdue defects for line hardware or encroaching trees. Audit progress and reporting Audit field works and reports. Monthly BFM progress reports. Network monthly reports. Audit bushfire mitigation program implemented prior to declaration. Audit summary for preparedness reports. Conducted by ESV, BFM field and desktop audits prior to BFM season. Crisis Management. Enact CFA/FRV operational plans, traffic management plans, MEMPC, emergency management plans. If a significant energy disruption, enact State Operations Plan – Class 2					
Recovery activities	Electricity Emergencies  Enact MEMP - recovery plan, Hazard Trees identification, rehabilitation plans, restoration plans					

### 10. Action Plan

No.	Goals	Actions	When	Who	Key Performance Indicators (KPIs)
Strate	gic Objective 1: To lead fire managem	nent planning across the municipal area in prevention	, preparedne	ess, response and	recovery (PPRR)
1.1	Build capacity and ownership within agencies to support fire management planning in Knox by establishing effective engagement strategies within and across agencies.	Promote the importance of the Knox Municipal Fire Management Plan to relevant agency heads.	Ongoing	МЕМРС	Attendance and participation by all agencies at Municipal Emergency Management Planning Committee (MEMPC) and plan review meetings.
			Ongoing	МЕМРС	Executive summary of the Knox Municipal Fire Management Plan is available to the committee, community and stakeholders.
		Build improved relationships across agencies.	Ongoing	МЕМРС	Collaborative activities that benefit all stakeholders are undertaken (i.e. participation in multi-agency exercises, engagement activities).
Strate	gic Objective 2: Developing fire mana	gement plans based on shared knowledge			
2.1	Ensure the Knox Municipal Fire Management Plan aligns with regional and State strategic direction.	Consider the Knox Municipal Fire Management Plan aligns with any new plans, strategies or guides produced by the State and regional committees.	Ongoing	МЕМРС	State and regional activities monitored and implement any changes relevant to the Knox municipal area.
2.2	Utilise existing networks and resources to develop a coordinated approach to expand knowledge sharing across and within agencies.	Ensure adequate representation of member agencies at reviews of the Knox Municipal Fire Management Plan.	Ongoing	МЕМРС	Records of attendees kept and generally accord with the recommendations of the working committee.
		Agencies actively share information, reports and plans.	Ongoing	MEMPC	The MEMP ahs information that agencies actively
2.3	Advocate for and use fire risk planning tools to support decision	Knox Council to follow the Community Emergency Risk Assessment (CERA) process.	Ongoing	MEMPC	CERA reviewed annually.
	making (within and between agencies).	Continue to review potential bushfire risk.	Annually	MEMPC	VFRR-B reviewed annually.
		Continue to review potential structure fire risk.	Annually	МЕМРС	V-BERAP reviewed annually.

No.	Goals	Actions	When	Who	Key Performance Indicators (KPIs)
Strate	egic Objective 3: Working with the cor	nmunity to manage fire			
3.1	Undertake coordinated multi- agency community engagement to improve efficiencies and build community resilience.	Be involved in integrating all agency activities. Look at using mediums that are more effective. Consider targeting at a range of demographics. Maximise joint collaboration, including at festivals/community events.	Ongoing	MEMPC	Multi-agency community engagement activities planned and implemented.
3.2	Support initiatives and actions that prevent accidental ignition of fires.	Undertake community initiatives to reduce and prevent accidental fires in our communities:  Fuel reduction initiatives undertaken at high bushfire risk locations.  Fire HELP Community Incident Engagement Program	Pre and post fire season	МЕМРС	Fuel reduction activities planned and undertaken.
Strate	egic Objective 4: Delivering outcomes	that address bushfire risk in the local environment re	gardless of I	and tenure	
4.1	Focus on reviewing bushfire management as a priority.	Prioritise the threat to life from fire in fire management planning.	Ongoing	MEMPC	Treatment options prioritised.
			Ongoing	MFPO	Undertake fire management assessments on private land in high bushfire risk areas.
4.2	Support and review fuel management projects on private land	Support all relevant agencies and property owners in developing and delivering fire prevention programs.	Ongoing	MFPO and the MEMPC	Fire prevention inspection program reviewed and updated annually.
		Liaise with neighbouring municipalities on identifying shared risk. Support landscape planning and apply outcomes across the municipal area.	Ongoing	Coordinator Emergency Management – Knox City Council	Knox represented on the Regional Strategic Fire Management Planning Sub Committee.
		Issuing of permits to Burn	Ongoing	MFPO	Encouraging fuel management of private property
4.3	Support opportunities for projects/programs where crosstenure fuel management can occur.	Investigate the opportunity to develop integrated fuel management programs with community.	Ongoing	MEMPC	Opportunities identified investigated and programs implemented.

No.	Goals	Actions	When	Who	Key Performance Indicators (KPIs)
Strate	egic Objective 5: Identify significant na	atural, social, built and economic environments at risl	within Knox	and in considerat	tion of neighbouring communities
5.1	Use Community Emergency Risk Assessment (CERA) to assess and treat significant fire risks at the local level.	Undertake review and ensure specific management strategies in place for:  local physical assets and infrastructure local threatened and endangered flora and fauna locations of aesthetic, historic, scientific and social cultural significance major industry and business at significant risk of fire	Annually	MEMPC	Risks and treatments contained in CERA reviewed.
5.2	Systems in place to manage hazardous trees in proximity to power lines.	Hazardous tree inspection and management process is developed and reviewed.	Ongoing	Project Officer  – Trees, Knox City Council, Power Company	Process is in place and reviewed annually.
Strate	egic Objective 6: Ensuring effective co	mmunity engagement			
6.1	Undertake effective community engagement.	Undertake community engagement within the municipality	Ongoing	МЕМРС	Opportunities identified investigated and programs implemented.
Strate	egic Objective 7: A commitment to cor	ntinuous improvement			
7.1	Implement systems to ensure we maintain best practice across PPRR.	Review conducted of action plan by working group.	Annually	МЕМРС	Action plan is reviewed, evaluated and updated.
		Conduct After Action Reviews post significant events in municipality.	Post event	МЕМРС	Action plan is reviewed, evaluated and updated.

## 11. Appendix Nine: Planned Burns

Ecological Burns				
KN no	Site	Management Plan - Supporting Evidence		
KN76	Wicks East Reserve Zone 3+6	Burn Plan for Wicks/ Wicks East Reserve, The Basin		
KN77	Wicks Zone 2	Burn Plan for Wicks/ Wicks East Reserve, The Basin		
KN76	Wicks East Roadsides Zone 1	Burn Plan for Wicks/ Wicks East Reserve, The Basin		
KN77	Wicks Reserve Zone 5	Burn Plan for Wicks/ Wicks East Reserve, The Basin		
Kn52	Redcourt Reserve	Ecological Burn Plan Dr Graeme Lorimer 2014		
Kn52	Redcourt Reserve	Ecological Burn Plan Dr Graeme Lorimer 2014		
Kn70	Roselyn Cres Reserve	Roselyn Reserve management Plan 2010		
Kn71	Roselyn Cres Reserve	Roselyn Reserve Management Plan 2010		
Kn74	Koolunga Native Reserve	Koolunga Reserve Management Plan		
Kn95	Bateman Street Bushland Reserve Candling	Bateman Street Reserve Management Plan		
Kn58	Starlight Reserve	Starlight Reserve Management Plan		
Kn51	Lakewood Reserve	Lakewood Reserve Management Plan		
Kn50	Egan Lee Net Gain	Ecological Burn Plan Dr Graeme Lorimer 2014		
Kn95	Bateman Street Bushland Reserve	Bateman Street Reserve Management Plan		
Kn56	W.G. Morris Reserve	Ecological Burn Plan Dr Graeme Lorimer 2014		
Kn75	Wirreander Reserve	Burn Plans Required		
Kn52	Redcourt Reserve	Burn Plans Required		
Kn117	Bushland Sports center			
KN3	Boronia Rd, Boronia. West of Scoresby Rd	Sites of Biological Significance Volume2 2010		
KN2	Corner Mountain Hwy & Army Road			
Kn50	Egan Lee Reserve, Knoxfield. Near Wallace Rd.	Wallace Ave section,		
Kn87	Old Joes Creek Reserve	Kunzea Section below horse Paddocks		
Kn86	Blamey Reserve, Boronia. Northern Side of Reserve	Sites of Biological Significance Volume2 2010		

Low intensity/Firestick Burns					
KN	Site	Notes			
no.					
KN90	Mortiboy Reserve, The Basin	All fenced areas cn havegrasses burn out to reduce biomass			
KN85	Genista / Sundew Reseve, Boronia	All Areas - consult lorimer re: Golden Moth orchids.			
Kn67	Bayswater Park, Bayswater	Area outlined in Ecological Burn Plan Dr Graeme Lorimer 2014			
KN78	George Grumont Reserve, The Basin				
KN02	Mountain Hwy Roadside Reserve/Corner of Army Rd	From the base of the batter to the main path			
KN56	W.G.Morris Reserve, Wantirna	Western Crn - Ecological burn Plan Dr Graeme Lorimer 2014 & Southern boundary			
KN58	Starlight Reserve, Rowville	ville Open grassed area between wetland and central path			
KN70	Roselyn Reserve, Boronia	Area highlighted for Ecological Burn, Grassed area in the eastern section of reserve			
KN100	George Street Bushland	All sections could be burnt - mind restrictions for eastlink.			
KN53	Flamingo Reserve, Wantirna South	Area requires investgate for suitable location for cool brun			
KN66	Wadhurst Drive, Boronia	Themeda grassland			
KN86	Blamey Reserve, Boronia	Southern side of the path			
KN122	Ramon Cowling Reserve, Boronia	Area requires investgate for suitable location for cool bun			
KN133	Basin Scout Hall, The Basin	Target rich sections -			
KN69	Clyde Reserve, Ferntree Gully				
Kn81	Norvel Reserve Nth, Ferntree Gully	Section around Scout Hall			
KN82	Norvel Reserve Sth Reserve	Previously brunt by bushland team			
KN102	The Avenue Reserve, Ferntree Gully	Potentially highly visible from Burwood Highway			
KN119	Blind Creek Community Gardens, Boronia	Sections of the hillside from the creek			
KN68	Stringybark Reserve, Wantirna	Highly visible from Mt Highway and potentially Eastlink			
KN120	Knox Jaycees, Boronia	Whole area			
KN60	Delta Court Reserve, Rowville				
KN62	WhiteCliff Reserve, Rowville	Previously burnt by the bushland team			
KN48	Major Cresent Reserve, Lysterfield				
KN50	Egan Lee, Knoxfield	Wallace rd section			
Kn52	Redcourt Reserve, Scoresby				
KN96	Heany Park, Rowville	Sections of zone 4 that has recently been groomed			
	Wells Ave Reserve, Boronia	Sections of areas that have indicator species suggest indigenous vegetation.			



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