

**Integrated Municipal Fire Management  
Plan for the  
Warrnambool City Municipal District**

**Version 1.4**

**2012 – 2015**

Last Updated 03/03/2015

## **Foreword by Mayor & CE**

**In recognising the need to plan for fire management in the City of Warrnambool, Council has developed a Municipal Fire Management Plan, following consultation with the local brigades and relevant agencies.**

**This MFMP is one of the first truly integrated fire management plans developed in Victoria and the Plan represents a coordinated and collaborative approach to fire management. The Plan uses the Warrnambool City Council Municipal “footprint” to identify the locality covered by this Plan which articulates and collates the fire planning and treatment works across a range of agencies.**

**Agencies that are signatories to this Plan are**

- **Warrnambool City Council**
- **CFA General Manager**
- **DSE Area Manager**
- **Parks Victoria**

## Document Control

### Versions

Version	Release Date	Author	Changes
1.1	7/3/2011	Peter McArdle	Plan adopted by Council
1.2	29/11/2011	Peter McArdle	Mapping updated
1.3	19/1/2012	Peter McArdle	Risk Plan re layout
1.4	12/7/2012	Peter McArdle	Insert Structural & Chemical Section
1.4	30/9/2014	Peter McArdle	Alter some CFA program names & definitions in the Risk Environment Treatment Strategies, Programs & Plans.
1.4	3/3/2015	Peter McArdle	Update the VFRR data following a full review with the CFA Victorian Fire Risk Registry project team.

### Amendment Authorisations

Name	Position	Signature	Date
Peter Robertson	MERO		7/3/2011
Peter Robertson	MERO		29/11/2011
Peter Robertson	MERO		19/1/2012
Peter Robertson	MERO		12/7/2012

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## Authorisation and Endorsement

This Municipal Fire Management Plan was adopted by Warrnambool City Council as the first iteration of Warrnambool City Council Fire Management Plan in partnership with the agencies listed below.

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**MEMP Sign off**

**MFMP Sign off**

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Date: 16 / 11 / 2011

Date: 15 / 4 / 2010

## Section 1 - Introduction

We live in a fire prone environment dictated by our climate of wet winters (which creates fuel) and hot dry summers. Fire management needs to be conducted with an understanding of both the role fire plays with the threats it can pose to life and property, in biodiversity maintenance and the management of our parks and forests.

Bushfires are a vital part of our natural environment, driving regeneration and maintaining the health of species and ecosystems. The combination of drought, climate change and unnaturally high fuel loads have created an unprecedented bushfire risk. The last decade has seen a dramatic increase in the number, size and severity of bushfires in Victoria, evidenced by the 2003 Alpine, 2006 Grampians, 2006/07 Great Divide fires and the 2009 Black Saturday fires.

Multi agency Municipal Fire Management Planning Committee (MFMP) members will co operatively develop collaborative planning including the aggregation of current plans as a basis for integrated Municipal Fire Management Plans (MFMP's). Planning activities will be aligned to achieve IFMP within each organisations planning and business processes through:

- the implementation of common planning models and methodologies
- allocation of resources and accountabilities
- participation in common decision making through the committee process
- collaborative delivery of fire management activities
- Cooperative engagement

The MFMP, as a sub plan of the Warrnambool City Municipal Emergency Management Plan, is risk based and has been developed using principles outlined in the Integrated Fire Management Planning (IFMP) Framework and Guide, and the Guidelines for Municipal Fire Management Planning part 6A: Emergency Management Manual Victoria.

TABLE 3. IFMP ALIGNMENT WITH AS/NZS ISO 31000:2009	
Stage of the IFMP planning cycle	Relevant aspect of the AS/NZS ISO 31000:2009 Risk Management – Principles and Guidelines
Engagement Plan	Communicate and consult
Environmental Scan	Establish the context
Risk Assessment > Analyse	Identify the risk > Analyse the risk > Evaluate the risk
Decide > Publish	Determine and document treatment options
Deliver	Treat the risk
Monitor and Improve	Monitor and review

The purpose of the MFMP is to chart the planned and coordinated implementation of measures designed to minimise the occurrence, and mitigate the effect of bushfires in the City of Warrnambool, and the planned use of fire for a variety of purposes. One important aspect of implementing the MFMP is to engage the community so that they have a valid influence in the fire management planning process. It ensures that the Warrnambool City MFMP responds to the community's needs, values and perceived risks.

Structural and chemical fires have not been considered in this plan but will be incorporated into future iterations.

This Warrnambool City MFMP needs to be considered as the first step in an evolutionary process of transition from the current Municipal Fire Prevention Plan (MFPP) under the guidance and direction of the Municipal Fire Prevention Committee (MFPC), to an integrated MFMP under the guidance and leadership of the Municipal Fire Management Planning Committee (MFMP) as a sub committee of the Municipal Emergency Management Committee (MEMPC).

This MFMP will eventually replace the current Municipal Fire Prevention plan (MFPP) however the two plans will run in tandem for a period of 12 months.

### Authority for Plan

This Municipal Fire Management Plan (MFMP) has been produced by and with the authority of the Warrnambool City Council pursuant to Section 20 of the Emergency Management Act 1986; and will be deemed to fulfill Section 55A of the CFA Act 1958. The MFMP is a sub plan of the Warrnambool City Council Municipal Emergency Management Plan (MEMP).

### Period of Plan

MFMP's have a three year planning cycle and this plan has been endorsed for a period of 12 months commencing 2011

### Planning Process

It is acknowledged that the existing Municipal Fire Prevention Plan (MFPP) and the Municipal Emergency Management Plan (MEMP) were developed using the principles of risk management and have undergone several reviews to ensure their relevance and that they meet community needs and expectations.

This MFMP has been prepared by the Warrnambool City MFMP in accordance with the IFMP process.



Figure 2. Integrated Fire Management Planning process

It addresses both public and private land across the prevention, preparedness, response and recovery continuum. The integrated MFMP will be reviewed and updated each year to ensure it incorporates any new strategies, programs and tools developed by the SFMPC and BSW RSFMP to ensure it meets Council and community needs and expectations.

Inclusion of representatives from Municipal Fire Prevention Committees on the Municipal Fire Management Planning Committee (MFPPC) has ensured that knowledge and experience in fire management is not lost in the transition from the MFPP to the MFMP.

This MFMP needs to be considered as the first step in an evolutionary process of transition from the current MFPP. The MFMP and the MFPP will operate in tandem for a 12 month period with the MFMP focusing on “bushfire (includes grass fires) and environmental burns, and the MFPP on structure and chemical fires.

The initial planning process focused on a Municipal level identification and assessment of risks using the VFRR process. The Municipal Fire Management Planning Committee (MFMPC) then validated this work, completed an analysis that resulted in a range of measures to mitigate the risk. These measures, or treatments, were then linked to the appropriate agency plans.

Initial development of the plan has been undertaken by representatives of the various agencies that comprise the MFMPC. A list of the current membership of the MFMPC is at Attachment 4

The MFMP is not designed to be a duplication of existing plans rather it is to consolidate and coordinate the significant range of plans that exist within Warrnambool City that relate to fire.

The MFMP will meet the requirements of Section 55A (Municipal Fire Prevention Plans) of the CFA Act 1958.

## **Stakeholder Analysis**

The Warrnambool City MFMP stakeholders are grouped into three categories Primary, Secondary and Tertiary which designates the level of participation in the development of the MFMP. See Attachment 4.1 for the Warrnambool City MFMPC Stakeholder Identification & Engagement Matrix.

## **Community and Organisational Engagement Process**

The ability of a community to respond to a bushfire situation and in turn recover from the effects of a bushfire will depend on the attitude of the people affected. Obtaining the preferred response from people during a bushfire will require community and organisational engagement, education and awareness programs to be implemented for this purpose.

The Municipal Fire Management Plan aims to collate and integrate the fire agencies and Council prevention and awareness programs within the City of Warrnambool.

Section 2 of this plan details the process undertaken in relation to stakeholder engagement and communications, including the implementation of the Warrnambool City MFMP.



## **Section 2 – Engagement and Communications**

### **MFMP Engagement and Communications**

The production of the first iteration of the Warrnambool City MFMP is collaboration by the members of the MFMPCC made up of representatives from Warrnambool City, CFA, DSE and Parks Victoria.

As a sub-plan of the Warrnambool City Municipal Emergency Management Plan the MFMP was then directed to the MEMPC a committee with broader representation that includes VICSES, DHS, Department of Education and Early Childhood Development (DEECD) as well as the aforementioned Warrnambool City, CFA, DSE and Parks Victoria.

Community and organisational engagement is undertaken to inform the planning process by identifying areas of risk; values to be protected and community and organisational fire management needs.

### **Outcomes**

It is important that all key stakeholders share the project objectives from the outset. This implies that one of the most important elements of the communications program is to secure agreement of outcomes to ensure a seamless transition into integrated fire management planning.

Through shared agreement of outcomes and commitment, all key stakeholders will 'own' the project and ensure that any outcomes are not predetermined.

The Warrnambool City MFMPCC Communications Strategy has been developed to enhance communication and stakeholder engagement using IAP2 principles outlined below.

#### **Inform**

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

#### **Consult**

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

#### **Involve**

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

#### **Collaborate**

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

#### **Empower**

Foster and promote transparent and accountable processes that allow each stakeholder organisation to empower themselves through key actions and the implementation of responsibilities.

## Section 3- Summary of the Environmental Scan

### Location and land tenure

The Warrnambool City Council MFMPC is located in South West Victoria approximately 260 km South West of Melbourne. The Warrnambool City Council is surrounded by the Shire of Moyne and has the Southern Ocean bordering it to the South. Its land is surrounded predominately of undulating open grassland and includes the city of Warrnambool and the townships of: Allansford; Bushfield/Woodford; and Dennington.

The area covered by the Warrnambool City Council MFMP is approximately 120m2 Kilometres.

Land managers are outlined in Table below.

Land Managers	% of MFMPC Area
Parks Victoria	10
DSE	5
Local Government	50
Private	30
All Other	5
TOTAL	100

### Natural environment

The area is surrounded predominately of undulating open grassland, with coastal scrub along the southern boundary following the coastline.

### Climate and wildfire season

The average temperature/climate in the Warrnambool City Council MFMPC area is 22 degrees during the summer with southwest winds during the afternoon. During the winter months the average temperature is 14 degrees. The declared fire season is usually December to April Prevailing weather conditions associated with the wildfire season in the Warrnambool City Council MFMPC area are hot northerly winds with southwest changes.

## **Population and demographic information**

The population of the Warrnambool City Council MFMPC area is approximately 32,000 people. The major population centres are Warrnambool, Allansford, Bushfield/Woodford and Dennington.

The Warrnambool City residential land 15 year growth plan highlights the following areas, north of the Merri River Wollaston road, north east Wangoom, Aberline and Boiling Down roads. Land parcels at Dennington and Hopkins Point road are also under planning department consideration.

The following issue has been identified within the Warrnambool MFMPC as potentially impacting on the ability of certain sections of the community to prepare for wildfire:

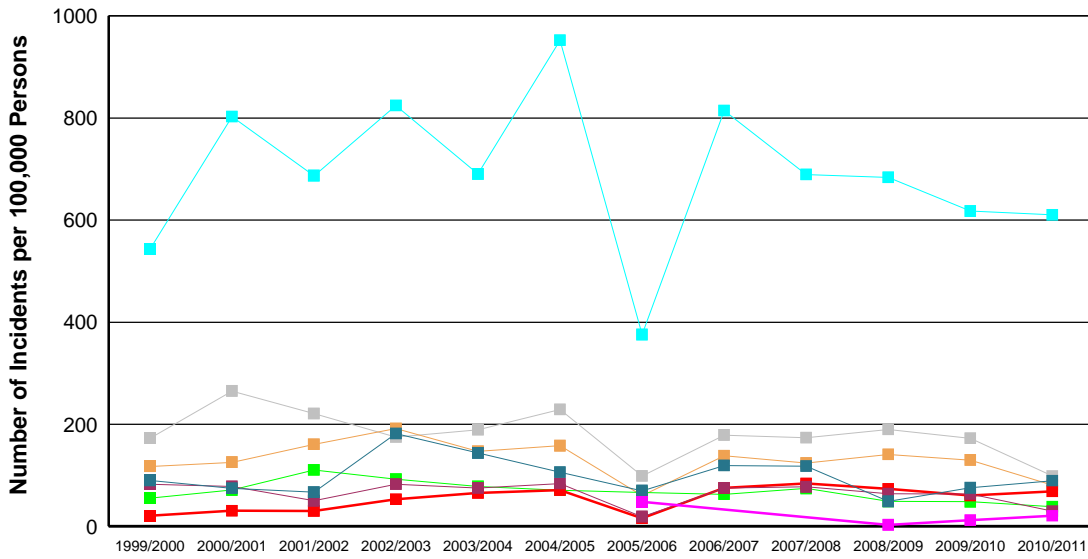
Warrnambool is a High tourism area, with population rising by thousands during the summer tourist season. The City camping grounds are surrounded by coastal scrub and native grass. The coast area, parts of the Merrivale residential estate and Lake Pertobe recreation reserve have a VFRR risk rating from medium to extreme. This could cause problems due to the tourists not having a good local knowledge or understanding of wildfire behaviour. Due to only 2 entry / exit roads for this area a Neighbourhood Safer Place has been established at the Lake Pertobe Reserve and the Merrivale Recreation Reserve, both are highlighted to campers upon booking into the park.

## **Fire History**

Fires have caused devastation in the municipality on several occasions, through structure and Hazmat incidents in the commercial precincts.

There have also been many occasions of residential house fires, along with small open grassland fires.

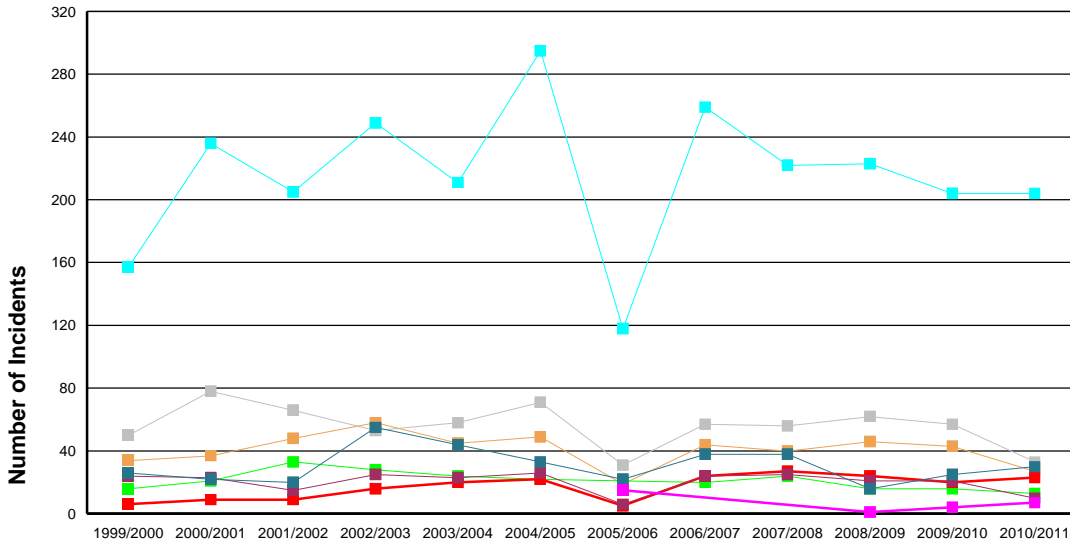
## Incidents Trend per 100.000 Persons For WARRNAMBOOL



Financial Year & Type of Fire

- (A)-Structure Fire
- (B)-Non Structure Fire
- (C)-Hazmat
- (D)-Rescue
- (E)-Wildfire
- (F)-False Alarm
- (G)-Other
- (H)-Blank

## Incidents Trend For WARRNAMBOOL



Financial Year & Type of Fire

- (A)-Structure Fire
- (B)-Non Structure Fire
- (C)-Hazmat
- (D)-Rescue
- (E)-Wildfire
- (F)-False Alarm
- (G)-Other
- (H)-Blank

## Section 4- Municipal Fire Management Objectives

### Alignment to Regional Objectives

The Barwon South West Regional Strategic Fire Management Planning Committee has resolved that the 5 priorities to be addressed first as mentioned previously are:

- High Risk Townships
- Critical Essential Service Assets
- Tourism/Major Events
- Key Rural Industries, and
- Major Transport Corridors

### Objectives/Outcomes

This MFMP is an operational and strategic document that identifies communities and assets at risk through an Environmental Risk Scan incorporating Council's existing MFPP and is a sub-plan of Council's MEMP, using the VFRR tool to identify assets at risk to protection of life and property from wildfire and current treatments to reduce this risk. Treatments include such tasks as hazard reduction, community education, fuel management, property planning and preparedness programs, building control, enforcement etc.

The plan also references treatments for the 5 priority risks as determined by the BSW RSFMPC using the VFRR process that includes maps for Warrnambool City MFMP area. The VFRR process is outlined in attachment 1.1.

The CFA Act has set a number of requirements in sections 55A and 43

- To prevent the occurrence of fire and to minimise the danger of the spread of fire on and from, any land, road or property vested in it or under control, care or management of Warrnambool City.
- To identify areas, buildings and land use in Warrnambool City which are at particular risk in case of fire.
- To specify how each risk is to be treated.
- To specify who is responsible for treating those risks

Warrnambool City maintain a pre fire season roadside slashing program on all Council controlled and Government roads. The City does not conduct roadside burning programs. All vacant building allotments and farming land within the City boundary is inspected before the fire season, with notices issued when required. A second inspection is completed during the summer period for any excessive growth.

## Strategic Directions

**1. Fire Ready Victoria** - Victoria's Bushfire Strategy provides Victoria with clear direction to meet future bushfire challenges under six key themes:

**Managing the land with fire:** Increased planned burning effort, including large-scale mosaic burns, based on science and risk management frameworks, to reduce fuel loads, protect communities and promote healthy ecosystems.

**Building community capacity to live with fire:** Improve the community's understanding of the role of fire in the environment and increase shared responsibility for risk, prevention and preparedness for bushfire.

**Enhanced response and recovery:** Continue to lead the way in bushfire response while building on recovery efforts.

**Workforce/volunteer capability:** Build and maintain a skilled, fit and experienced firefighting force to deliver an increased planned burning program, meet rising response needs and provide support to volunteers.

**Planning for protection:** Provide the community and planners with better risk management and mitigation tools, including acceleration of Integrated Fire Management Planning.

**Risk and adaptive management:** Continue to develop a more responsive approach to the management of bushfires based on continuous learning and improvement through the development of interagency risk modeling, state-wide scenario planning and improved ecological research and modeling.

**2. "Bushfire Safety Policy Framework"** (Fire Services Commissioner)

**3. "Making Victoria Fire ready"** (Implementing Governments response to 2009 VBRC)

**4. State Fire Management Strategy** (SFMPC 2009)

## Links to Other Business and Programs

[www.cfa.vic.gov.au](http://www.cfa.vic.gov.au)

[www.dse.vic.gov.au/fire](http://www.dse.vic.gov.au/fire)

[www.warnambool.vic.gov.au](http://www.warnambool.vic.gov.au)

[www.firecommissioner.vic.gov.au](http://www.firecommissioner.vic.gov.au)

[www.mav.gov.au](http://www.mav.gov.au)

[www.vicroads.gov.au](http://www.vicroads.gov.au)

[www.parkweb.vic.gov.au](http://www.parkweb.vic.gov.au)

[www.victrack.vic.gov.au](http://www.victrack.vic.gov.au)

## Section 5 - Fire Management Risk Strategies

Management of risk is an integral part of good business practices and quality management. Understanding risk and learning how to manage it effectively enables municipalities, fire services, government agencies and the broader community to reduce hazards and risks by identifying and analysing issues which could threaten communities and providing a systematic way to make informed decisions to mitigate or reduce those threats to an acceptable level.

Ongoing monitoring and review is essential to ensure that the Warrnambool City Municipal Fire Management Plan remains relevant and up to date with specific attention to:

- Changes to community demographics and level of risk,
- Changes to organisational responsibilities or legislation as a consequence of the Royal Commission;
- Following a major fire event

These and other factors may affect the likelihood and consequences of an outcome, as they can affect the suitability or cost of the treatment options. It is therefore necessary to repeat the risk management cycle on a regular basis by conducting an annual review. Because the risk from wildfire is prominent within the country area of Victoria, the annual review will occur prior to each fire season. The review process shall also ensure new strategies, programs and plans developed by the State and Regional Fire Management Committee's are considered and incorporated where appropriate and meets Council and community expectations. The Warrnambool City MFMP will also review this plan as necessary to account for any changes in context or risk; it will also provide a Status Report as determined by the Municipal Fire Management Committee on the status of fire management across the PPRR continuum of the 5 priorities determined by the Barwon South West Region Fire Management Committee.

### Background to Victorian Fire Risk Register (VFRR)

The VFRR is a Victorian version of a mapping application developed by the NSW Rural Fire Service to assist in the bushfire risk management planning process. It is a systematic process involving experts from a range of key stakeholders identifying municipal assets at risk from bushfire, assessing their level of risk and assigning a range of treatments to mitigate the risk. Treatments may include activities such as fuel reduction, community education programs and safety audits.

Using the categories of Human Settlement, Economic, Environmental and Cultural Heritage, assets were identified and their level of risk assessed based upon consideration of a range of characteristics including proximity to flammable vegetation, vegetation type, slope and frequency of fires.

The VFRR has enabled the Warrnambool City MFMP to enter risk reduction treatments and link these treatments to assets. The primary output of the VFRR is a Municipal Bushfire Risk Register table with maps showing assets and satellite imagery, as well as a list of treatments assigned to each asset.

The objective of the VFRR is to provide fire planners with evidence based data and information to better inform bushfire management planning in achieving:

- tenure blind, integrated fire management planning (IFMP) across the landscape
- a reduction in the number of human induced bushfire ignitions that cause damage to life, property and the environment
- effective fuel management to reduce the rate of spread and intensity of bushfires while minimising environmental/ecological impacts
- a reduction in community vulnerability to bushfires by improving preparedness
- effective containment of fires with the potential to cause damage to life, property or the environment.

VFRR identifies the following asset classes:

Asset Class	Asset Subclass
Human Settlement	Residential Special Fire Class Other
Economic	Agriculture Commercial Infrastructure Tourist & Recreational Mines Commercial Forests Drinking Water Catchments
Environmental	Locally Important Endangered Vulnerable
Cultural Heritage	Aboriginal Significance Non Indigenous Other

## Methodology

The VFRR process follows the Risk Management Methodology AS/NZS ISO 31000:2009:

1. Risk Management Process
2. Identify Risk
3. Analyse Risks
4. Evaluate Risk
5. Risk Treatment
6. Monitor and Review

Included in this plan is a matrix of the priority risks in the municipality; physical, geographical and systems risk; treatment and actions to achieve fire management strategy (including timelines and areas of responsibility) (Attachment 1.1)

The link below will take you to the VFRR supporting documentation which includes:

- Vegetation guide
- Context update
- State-wide Treatment list; and
- VFRR Reference Guide

[http://vfr.fileburst.com/VFRR/VFRR\\_Supporting\\_Documentation/](http://vfr.fileburst.com/VFRR/VFRR_Supporting_Documentation/)



## **Municipal Risk Treatments**

At the higher level generic risk treatments exist such as the Victorian Planning Scheme, Building Regulations and the Building Code of Australia (BCA). In addition to these every fire and land agency has had in place for many years various fire management strategies to treat the bushfire risk include:

Hazard Reduction e.g. DSE/PV planned burn program, multi agency slashing programs  
Ignition Management e.g. (Electric Line Clearance) Regulations 2005  
Community Education e.g. CFA Community Fire Guard, Fire Ready Victoria  
Preparedness e.g. community Local Incident Management Plans, multi agency Fire Management Plans  
Property planning e.g. Private property inspections, planning and building legislation

Recommendations from the Victorian Bushfire Commission into the Black Saturday Fires 2009 have re-focused on a number of existing strategies with enhance activities such as:

- Town Protection Plans
- Neighborhood Safer Places
- Fire Refuges
- Private Fire Bunkers

## **Cross Boundary Arrangements**

It is acknowledged that Warrnambool City Council and stakeholder agencies have existing planning relationships across the Moyne Shire.

## **Monitor & Review**

Ongoing monitoring and review is essential to ensure that the Warrnambool City Municipal Fire Management Plan remains relevant and up to date with specific attention to:

- Changes to community demographics and level of risk,
- Changes to organizational responsibilities or legislation as a consequence of the Royal Commission. ;
- Following a major fire event

These and other factors may affect the likelihood and consequences of an outcome, as they can affect the suitability or cost of the treatment options. It is therefore necessary to repeat the risk management cycle on a regular basis by conducting an annual review. Because the risk from wildfire is prominent within the country area of Victoria, the annual review will occur prior to each fire season. The review process shall also ensure new strategies, programs and plans developed by the State and Regional Fire Management Committee's are considered and incorporated where appropriate and meets Council and community expectations. The Warrnambool City MFMP will also review this plan as necessary to account for any changes in context or risk; it will also provide a Status Report as determined by the Municipal Fire Management Committee on the status of fire management across the PPRR continuum of the 5 priorities determined by the Barwon South West Region Fire Management Committee.

## Section 6 – Structure Fire & Chemical Hazard Risk Strategies

### Risk Identification & Analysis

The Warrnambool City Council area comprises a number of priority risk environments which represent property types and usages.

The Risk Environments occurring within the municipality are:

- **Business and Community activity Centres**
- **Educational Facilities**
- **Infrastructure**
- **Industrial**
- **Health Services**
- **Township and Suburban Living**

These risk environments can be subjected to the following hazard events

- **Structure Fire**
- **Chemical** (Hazardous Materials Incident)

### RISK MANAGEMENT

The approach to risk management is in the context of treating the risks according to the components of Prevention, Preparedness, Response and Recovery (PPRR).

- **Prevention** – Elimination or reduction of the incidence or severities of emergencies and the mitigation of their effects.
- **Preparedness** – Awareness of the likelihood of emergencies and the capacity to respond effectively to the emergency.
- **Response** – Combating of emergencies and the provision of rescue and immediate relief services.
- **Recovery** – Assisting of persons and communities affected by emergencies to achieve a proper and effective level of functioning.

## **Risk Assessment Methodology**

To categorise the risk across the municipality, six risk environments have been used. These Risk Environments present a broad risk classification, defined by characteristics such as land-use, the population, building classifications, social characteristics and fire.

### **Risk Environments are described below**

#### Structure Fire

- Is any uncontrolled fire inside, on, under or touching a building or structure that needs to be extinguished.

#### Chemical Incident

- A Chemical incident is any event involving hazardous materials that may threaten life or property. Chemical incidents include substances that may be flammable, combustible, corrosive, poisonous, oxidising, or explosive or otherwise harmful material.

In order to determine which risks are relevant or severe enough to require treatment the International Standard for Risk Management ISO31000 was used to produce a Municipal risk profile as described in the next section.

It is considered that elements within each of the risk environments require treatment options where the risks are determined to be within the range of High to Extreme.

## Risk Profile

After analysing the environment and risks and applying them to the Warrnambool City Council demographics the following risk profile was developed:

The risk profile outlined in Table 1 provides a risk classification by overlaying the relevant risk environment with the type of hazard event.

The classifications are a subjective representation of risk severity taking into account the impact of extreme events in each risk area.

Table 1 - Risk Profile

PRECINCT / RISK ENVIRONMENT	HAZARD EVENT	
	Structure Fire	Hazardous Materials
Business and community activity centres	Extreme – B4	High – B3
Educational Facilities	Extreme – B4	High – C3
Infrastructure	Extreme C4	High – C3
Industrial	High – B3	Extreme - B4
Health Services	Extreme B4-	High – B3
Township and suburban living	Extreme - A3	Moderate - C2

## Risk Assessment

The interaction between the Risk Environments and each of the hazard events can be analysed in terms of the likelihood of occurrence and the resultant consequence to provide a Risk Profile for the municipality. The likelihood measures are set out in Table 2 and the consequence measures in Table 3. If these levels for any given hazard are combined their related risk can be found using Table 4.

This qualitative risk analysis was conducted using the likelihood-consequence matrix contained in the *Emergency Risk Management - Applications Guide* produced by Emergency Management Australia which is based upon ISO 31000 Risk Management, the same standards that are used at Warrnambool City Council.

For example when considering Structure within the Educational Facilities risk environment the level of risk rating found was due to the following reasons:

**Table 2: Qualitative Measures of Likelihood**

Level	Descriptor	Example Detailed Description
<b>A</b>	<b>Almost certain</b>	Is expected to occur in most circumstances; has a high level of recorded incidents; there is strong anecdotal evidence; there is a likelihood the event will re-occur with a great opportunity, reason, or means to occur; and the incident may occur once every year or more.
<b>B</b>	<b>Likely</b>	Will probably occur in most circumstances; incidents are regularly recorded with strong anecdotal evidence; there exists considerable opportunity, reason or means to occur; and the incident may occur once every five years.
<b>C</b>	<b>Possible</b>	Might occur at some time; there are few, infrequent, random recorded incidents or little anecdotal evidence; there are very few incidents in associated or comparable organisations, facilities or communities; there is some opportunity, reason or means to occur; and the incident may occur once every twenty years.
<b>D</b>	<b>Unlikely</b>	Is not expected to occur; there are no recorded incidents or anecdotal evidence; there are no recent incidents in associated organisations, facilities or communities; there is little opportunity, reason or means to occur; and the incident may occur once every one hundred years.
<b>E</b>	<b>Rare</b>	May occur only in exceptional circumstances; and the incident may occur once every five hundred or more years.

**Table 3: Qualitative Measures of Consequence or Impact**

Level	Descriptor	Example Detailed Description
1	Insignificant	No injuries or fatalities. Small number or no people are displaced and only for short duration. Little or no personal support required (support not monetary or material). Inconsequential or no damage. Little or no disruption to community. No measurable impact on the environment. Little or no financial loss.
2	Minor	Small number of injuries but no fatalities. First aid treatment required. Some displacement of people (less than 24 hours). Some personal support required. Some damage. Some disruption (less than 24 hours). Small impact on environment with no lasting effects. Some financial loss.
3	Moderate	Medical treatment required but no fatalities. Some hospitalisation. Localised displacement of people who return within 24 hours. Personal support satisfied through local arrangements. Localised damage that is rectified by routine arrangements. Normal community functioning with some inconvenience. Some impact on environment with no long-term effect or small impact on environment with long-term effect. Significant financial loss.
4	Major	Extensive injuries. Significant hospitalisation. Large number displaced (more than 24 hours duration). Fatalities. External resources required for personal support. Significant damage that requires external resources. Community only partially functioning, some services unavailable. Some impact on environment with long term effects. Significant financial loss.
5	Catastrophic	Large number of severe injuries. Extended and large numbers of people requiring hospitalisation. General and widespread displacement for an extended duration. Significant fatalities. Extensive personal support. Extensive damage. Community unable to function without significant support. Significant impact on environment and/or permanent damage.

**Table: 4 Qualitative Risk Analysis Matrix**

Likelihood	Consequences				
	Insignificant	Minor	Moderate	Major	Catastrophic
	1	2	3	4	5
A – (almost certain)	High	High	Extreme	Extreme	Extreme
B - (likely)	Moderate	High	High	Extreme	Extreme
C – (possible)	Low	Moderate	High	Extreme	Extreme
D – (unlikely)	Low	Low	Moderate	High	Extreme
E – (rare)	Low	Low	Moderate	High	High

## Risk Environment Treatment Strategies, Programs & Plans

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
1	Fire Safe Kids / Fire Safe Youth	Bushfire and residential fire safety education for primary and secondary school students, provided by trained and accredited CFA volunteers	Educational Facilities Township & Suburban Living	✓	✓	✓		CFA – Community Education Co-ordinator
2	Early Fire Safe	Fire prevention, burn and scald education program for parents of children under 6 years of age	Educational Facilities Township & Suburban Living	✓	✓	✓		CFA – Community Education Co-ordinator
3	JFAIP	Intervention and education program for child fire lighters and their family. Trained practitioners visit the home for several visits with the child and parent / guardian. Referrals to this program come from a variety of sources including family, welfare agencies, schools, emergency services.	Business & Community Activity Centres Educational Facilities Township & Suburban Living	✓				CFA – JFAIP Co-ordinator
4	Isolated Elderly Program	Education and training program on fire safety for carers and service providers of elderly citizens and people with disabilities. Carers are then able to provide advice to elderly on enhancing their fire safety.	Health Services Township & Suburban Living Educational Facilities	✓	✓			CFA – Community Education Co-ordinator
5	Reduce the Risk	Residential fire safety education provided to community groups and not-for-profit organisations. Covers causes and prevention of house fires, how to respond in event of a fire, and preparing a fire escape plan. Can target diverse populations eg. Cultural & Linguistic backgrounds, elderly, residential care. Includes events and displays, media releases	Health services Township & Suburban Living Industry	✓	✓			CFA – Community Education Co-ordinator

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
6	Mobile Education Unit	Mobile truck or bus providing a focus for residential (primary) or bushfire (primary and secondary) education in schools. Also available for roadshows and public events	<ul style="list-style-type: none"> <li>Township &amp; Suburban Living</li> <li>Educational Facilities</li> <li>Tourism</li> </ul>	✓	✓	✓		CFA – Community Education Co-ordinator
7	Fire Ready Victoria	Bushfire education programs provided to community groups, businesses, tourism, media outlets. Includes Fire Ready Victoria, Bushfire Planning Workshops, door knocking during emergencies, events, displays, targeted campaigns, media releases	<ul style="list-style-type: none"> <li>Business &amp; Community Activity Centres</li> <li>Educational Facilities</li> <li>Industry</li> <li>Health Services</li> <li>Township &amp; Suburban Living</li> <li>Tourism</li> <li>Agricultural</li> </ul>	✓	✓	✓		CFA – Community Education Co-ordinator
8	Community Fireguard	Comprehensive bushfire education program for community members, either living in same locality or sharing 'like' interest eg. horses, family day care providers. After a series of initial meetings usually held in host home, community fireguard groups hold annual maintenance meetings to refresh their knowledge and skills. Program is for the highly motivated / engaged community members.	<ul style="list-style-type: none"> <li>Agricultural</li> <li>Township &amp; Suburban Living</li> </ul>	✓	✓	✓		CFA – Community Education Co-ordinator
9	Home Bushfire Advice Service (HBAS) Street Bushfire Advice Service (SBAS) Commercial Bushfire Advice Service (CBAS)	Tailored bushfire information to individual householders, local communities, and business / educational / health facilities. A detailed report is provided on observations and recommended actions to reduce bushfire risk to identified properties. Targeted to extreme and very high risk	<ul style="list-style-type: none"> <li>Business &amp; Community Activity Centres</li> <li>Educational Facilities</li> <li>Industry</li> <li>Health services</li> <li>Township &amp;</li> </ul>	✓	✓			Fire Safety Officer – Bushfire



No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
		locations	<ul style="list-style-type: none"> <li>Suburban Living</li> <li>Tourism</li> <li>Agricultural</li> </ul>					
10	District Operational Management Plan	Each CFA District has an individual Operational Plan for response activities.	<ul style="list-style-type: none"> <li>Business &amp; Community Activity Centres</li> <li>Industry &amp; State</li> </ul>	✓	✓	✓	✓	CFA Operations Manager
11	CFA/Council Risk Based Structural Fire Safety Strategies	<p>This strategy is designed to achieve an integrated approach to identifying, assessing and managing the risks within the built environment to:</p> <ol style="list-style-type: none"> <li>Apply a Risk Management process to identify and assess the level of risk to different types of buildings.</li> <li>Determine priority structural risks based on building classification and other relevant risk factors.</li> <li>By applying an integrated approach for the inspection and mitigation of priority structural risks.</li> <li>Having clearly defined roles regarding the inspection, auditing and management process for dealing with priority structure risks.</li> <li>Using the resources and time available effectively to implement a proactive approach to risk mitigation whilst maintaining a reactive capacity to community concerns to ensure compliance with legislative obligations and achieve quality customer</li> </ol>	<ul style="list-style-type: none"> <li>Business &amp; Community Activity Centres</li> <li>Educational Facilities</li> <li>Infrastructure</li> <li>Industry</li> <li>Health services</li> <li>Township &amp; Suburban Living</li> </ul>	✓	✓	✓	✓	CFA – Fire Safety Officer

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
		<p>service.</p> <p>6. By educating building owners and managers on their responsibilities and obligations pursuant to the Building Act, CFA Act and OH&amp;S Act (emergency management) by jointly conducting information and education workshops.</p>						
12	Caravan Parks	<p>This Emergency Management Manual has been developed by CFA to assist Caravan Park owner/operators to prepare an Emergency Management Plan that will:</p> <ol style="list-style-type: none"> <li>1. Provide clear guidance in the event of an emergency that may effect the health, safety or wellbeing of caravan park clients or residents or have long term effects on business continuity</li> <li>2. Satisfy the requirements of the Residential Tenancies (Caravan Parks &amp; Moveable Dwellings Registration and Standards) Regulations 1994</li> <li>3. Meet the requirements of the Occupational Health and Safety Act in respect to Emergency Management Planning for the safety of employees and other persons within a workplace, in this case, caravan parks.</li> </ol>	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> </ul>	✓	✓	✓	✓	CFA – Fire Safety Officer

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
13	Fire Investigation	DSE, CFA and Victoria Police working collaboratively to investigate and establish the cause and origin of all human caused fires, and seek to identify and as appropriate prosecute the offenders.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓			CFA, VicPol DSE - District Fire Manager
14	Traffic Management Strategies / Assistance	To assist response agencies in emergency events through road closures, diversions, etc. Pre planning of diversion routes and installation of DISPLAN boxes at agreed locations	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>		✓	✓	✓	Vic Roads
15	Powerlines Faults and Emergency Events including Fire	Powercor maintains a 24 hour fault and emergency response including call centre, faults dispatch and system control centres. Powercor invokes escalation to manage and respond to major events including Powercor ESLO's attending ICC's, MECC's and Community Briefings/Meetings when invited.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>			✓		Powercor

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
16	Regional HELPLINE Community Support Package	This Community Support Package contains information a list of regional services which are available to assist people following an incident	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>				✓	DHS
17	24 hour HELPLINE Card	This business size card has been distributed to all response and other support agencies in the Barwon Southern Western Region, this card is handed out to people who have either been involved in or have witnesses a traumatic incident, the free call telephone number on the card links people to information and or assistance they may require.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>				✓	DHS
18	Emergency Recovery Information Pack – After the Fires	This “After the Fires” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other support agencies, which can provide support services to people affected by the emergency incident.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>				✓	DHS

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
19	Emergency Recovery Information Pack – (Generic) Recovery from Emergencies	This “Generic” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other support agencies, which can provide support services to people affected by the emergency incident.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; SL</li> </ul>				✓	DHS
20	Community Information Flyer	This Flyer is designed to be handed to people who need to leave an area affected by an emergency incident, the flyer highlights the support services which are available at a Relief / Recovery Centre and list the contact details of the local government authority in their area. It also advises affected people to seek further information by listen to ABC radio 774AM or call the Emergency Information line.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>			✓	✓	DHS
21	Fire Safety at Community Events.	Conduct Inspection and other compliance with Building Act and Regulations & other applicable laws, i.e. OH&S Act, DG Regulations. CFA Act, Planning and Environment Act Programmed Inspections of community events with all relevant partner agencies.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Health Services</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓	✓	✓	Council Events Co-ordinator

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
22	Fire Safety in Commercial & Industrial Premises	Audits of high risk buildings re compliance with Building Regulations. Essential Services inspections	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓	✓	✓	Council Building Surveyor
23	Structure Fire Integrity Inspections	Identify buildings that have been damaged by fire and inspect for public safety.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓		✓	Council Building Surveyor
24	Fire Safety In Caravan Parks and Camping Grounds.	Programmed Inspections of Caravan Park and Camping Grounds with all partner agencies.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> </ul>	✓	✓	✓	✓	Environmental Health Officer Council Building Surveyor CFA - FSO
25	MEM Plan	Implements/activates the agreed arrangements to ensure a coordinated response.	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓	✓	✓	Council MERO Council Recovery Manager

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
26	Fire plug Installation and Maintenance	Ensure all sub divisions have fire plugs located as per Standard C29 of Clause 56	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>		✓	✓		Council Statutory Planner Infrastructure Manager MFPO
27	Building Permits	Planning Schemes/Overlays	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>		✓	✓		Council MBS / Statutory Planner
28	OH&S / Dangerous Goods Legislation	Dangerous Goods Act & Regulations Worksafe Licensing Inspections MSDS & Placarding	<ul style="list-style-type: none"> <li>• Industry</li> </ul>	✓	✓			Worksafe
29	Environment Protection Act	EPA Act & Regulations / Plume Modelling	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Infrastructure</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> </ul>			✓	✓	EPA / CFA

## Precinct Treatments

### **BUSINESS & COMMUNITY ACTIVITY CENTRES TREATMENTS**

Areas with significant community functions including accommodation such as hotels, motels and caravan parks. commercial/retail, entertainment and recreation. Examples of these are shopping complexes, significant shopping strips, central business districts of large regional centres and transport terminals.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	E	24	Annual	As per the Treatment List
		7,9,10,11,12,16,17,18,19,20,22,24,25,26,29	Ongoing	
		3,13,14,15,21,23,27	As Required	
Chemical	H			
		As above plus Treatment 28	Ongoing / As Required	

#### **Treatment Types Legend**

- 1 Fire Safe Kids / Fire Safe Youth (CFA)
- 2 Early Fire Safe (CFA)
- 3 Juvenile Fire Awareness & Intervention Program (CFA)
- 4 Isolated Elderly Program (CFA)
- 5 Reduce the Risk (CFA)
- 6 Mobile Education Unit (CFA)
- 7 Fire ready Victoria (CFA)
- 8 Community Fireguard (CFA)
- 9 Home, Street & Commercial bushfire advice service HBAS, SBAS, CBAS (CFA)
- 10 District Operational Management Plan (CFA)
- 11 CFA/Council Risk Based Structural Fire Safety Strategies (CFA / Council)
- 12 Caravan Parks (CFA)
- 13 Fire Investigation (VicPol / CFA)
- 14 Traffic Management Strategies / Assistance (VicRoads)
- 15 Powerline Faults & Emergency Events including Fire (Powercor)
- 16 Regional HELPLINE Community Support Package (DHS)
- 17 24 hour HELPLINE Card (DHS)
- 18 Emergency Recovery Information Pack – After the Fires (DHS)
- 19 Emergency Recovery Information Pack (Generic) (DHS)
- 20 Community Information Flyer (DHS)
- 21 Fire Safety at Community Events (Council)
- 22 Fire Safety in Commercial & Industrial Premises (Council)
- 23 Structure Fire Integrity Inspections (Council)
- 24 Fire Safety in Caravan Parks & Camping Grounds (CFA / Council)
- 25 Municipal Emergency Management Plan (Council)
- 26 Fire Plug Installation & Maintenance (Council)
- 27 Building Permits (Council)
- 28 OH&S / Dangerous Goods Legislation (Worksafe)
- 29 Environment Protection Act / Authority (EPA / CFA)

#### **PPRR Continuum**

	P	P	R	R
✓	✓	✓		
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## EDUCATIONAL FACILITIES

Educational facilities including pre-school, primary, secondary and tertiary buildings.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	H	1,2	Annual	As per the Treatment List
		5,6,9,10,11,16,17,18,19,20,25,26,29	Ongoing	
		3,4,7,8,13,14,15,21,27	As Required	
Chemical	H	As above plus Treatment 28	Ongoing / As Required	

### Treatment Types Legend

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- 8 Community Fireguard (CFA)
- 9 Home, Street & Commercial bushfire advice service HBAS, SBAS, CBAS (CFA)
- 10 Operational Management Plan (CFA) District
- 11 CFA/Council Risk Based Structural Fire Safety Strategies (CFA / Council)
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PPRR Continuum			
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## INFRASTRUCTURE

Infrastructure related to essential utilities in the municipality such as but not limited to communication towers, gas, electricity and water supply as well as road and rail networks.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	H		Annual	As per the Treatment List
		5,10,11,16,17,18,19,20,22,25,26,29	Ongoing	
		8,13,14,15,23,27	As Required	
Chemical	H			
		As above plus Treatment 28	Ongoing / As Required	

### Treatment Types Legend

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### PPRR Continuum

	P	P	R	R
✓	✓	✓	✓	
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✓	✓	✓	✓	
✓	✓	✓	✓	
✓	✓	✓	✓	

## INDUSTRIAL

Facilities used for any part of the manufacture, assembly or production of products or the processing of either a primary or natural resource. Sites within this precinct include but are not limited to industrial estates, factories, warehouses, petro-chemical depots, quarries, power stations and port facilities.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	H		Annual	As per the Treatment List
		5,9,10,11,16,17,18,19,20,22,25,26,28,29	Ongoing	
		7,8,13,14,15,23,27	As Required	
Chemical	E			
		As above plus Treatment 28	Ongoing / As Required	

### Treatment Types Legend

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### PPRR Continuum

	P	P	R	R
✓	✓	✓	✓	
✓	✓	✓	✓	
✓				
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	✓	✓	✓	
		✓		
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		✓	✓	
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	✓	✓		
✓	✓	✓	✓	
✓	✓	✓		

## HEALTH SERVICES

Structures related to health services such as but not limited to hospitals, medical centres , aged care facilities and disability services.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	H		Annual	As per the Treatment List
		5,9,10,11,16,17,18,19,20,25,26,29	Ongoing	
		4,7,8,13,14,15,21,23,27	As Required	
Chemical	L			
		As above plus Treatment 28	Ongoing / As Required	

### Treatment Types Legend

- 1 Fire Safe Kids / Fire Safe Youth (CFA)
- 2 Early Fire Safe (CFA)
- 3 Juvenile Fire Awareness & Intervention Program (CFA)
- 4 Isolated Elderly Program (CFA)
- 5 Reduce the Risk (CFA)
- 6 Mobile Education Unit (CFA)
- 7 Fire ready Victoria (CFA)
- 8 Community Fireguard
- 9 Home, Street & Commercial bushfire advice service HBAS, SBAS, CBAS (CFA)
- 10 District Operational Management Plan (CFA)
- 11 CFA/Council Risk Based Structural Fire Safety Strategies (CFA / Council)
- 12 Caravan Parks (CFA)
- 13 Fire Investigation (VicPol / CFA)
- 14 Traffic Management Strategies / Assistance (VicRoads)
- 15 Powerline Faults & Emergency Events including Fire (Powercor)
- 16 Regional HELPLINE Community Support Package (DHS)
- 17 24 hour HELPLINE Card (DHS)
- 18 Emergency Recovery Information Pack – After the Fires (DHS)
- 19 Emergency Recovery Information Pack (Generic) (DHS)
- 20 Community Information Flyer (DHS)
- 21 Fire Safety at Community Events (Council)
- 22 Fire Safety in Commercial & Industrial Premises (Council)
- 23 Structure Fire Integrity Inspections (Council)
- 24 Fire Safety in Caravan Parks & Camping Grounds (CFA / Council)
- 25 Municipal Emergency Management Plan (Council)
- 26 Fire Plug Installation & Maintenance (Council)
- 27 Building Permits (Council)
- 28 OH&S / Dangerous Goods Legislation (Worksafe)
- 29 Environment Protection Act / Authority (EPA / CFA)

### PPRR Continuum

	P	P	R	R
✓	✓	✓	✓	
✓	✓	✓	✓	
✓				
✓	✓			
✓	✓			
✓	✓	✓		
✓	✓	✓		
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✓	✓	✓	✓	
✓	✓	✓	✓	
✓	✓		✓	
✓	✓	✓	✓	
✓	✓	✓	✓	
	✓	✓		
	✓	✓		
✓	✓	✓	✓	
✓	✓	✓		

## TOWNSHIP & SUBURBAN LIVING TREATMENTS

Urban residential areas with dwellings that include freestanding homes, flats, units and high-rise apartments. The risk environment includes housing estates, and residential areas of provincial towns and cities. It also includes the infrastructure used to support the risk such as transport services, utilities/services and isolated commercial enterprises (eg. milk bars and service stations) where the concentration is not sufficient to create a separate risk environment.

Event Type Nature of risk	Risk rating	Treatment Types	Timeframe	Responsible Parties
Structure	E	1,2,6,7	Annual	As per the Treatment List
		5,9,10,11,16,17,18,19,20,22,25,26,29	Ongoing	
		3,4,8,13,14,15,21,23,27	As Required	
Chemical	M			
		As above plus Treatment 28	Ongoing / As Required	

### Treatment Types Legend

- 1 Fire Safe Kids / Fire Safe Youth (CFA)
- 2 Early Fire Safe (CFA)
- 3 Juvenile Fire Awareness & Intervention Program (CFA)
- 4 Isolated Elderly Program (CFA)
- 5 Reduce the Risk (CFA)
- 6 Mobile Education Unit (CFA)
- 7 Fire ready Victoria (CFA)
- 8 Community Fireguard (CFA)
- 9 Home, Street & Commercial bushfire advice service HBAS, SBAS, CBAS (CFA)
- 10 District Operational Management Plan (CFA)
- 11 CFA/Council Risk Based Structural Fire Safety Strategies (CFA / Council)
- 12 Caravan Parks (CFA)
- 13 Fire Investigation (VicPol / CFA)
- 14 Traffic Management Strategies / Assistance (VicRoads)
- 15 Powerline Faults & Emergency Events including Fire (Powercor)
- 16 Regional HELPLINE Community Support Package (DHS)
- 17 24 hour HELPLINE Card (DHS)
- 18 Emergency Recovery Information Pack – After the Fires (DHS)
- 19 Emergency Recovery Information Pack (Generic) (DHS)
- 20 Community Information Flyer (DHS)
- 21 Fire Safety at Community Events (Council)
- 22 Fire Safety in Commercial & Industrial Premises (Council)
- 23 Structure Fire Integrity Inspections (Council)
- 24 Fire Safety in Caravan Parks & Camping Grounds (CFA / Council)
- 25 Municipal Emergency Management Plan (Council)
- 26 Fire Plug Installation & Maintenance (Council)
- 27 Building Permits (Council)
- 28 OH&S / Dangerous Goods Legislation (Worksafe)
- 29 Environment Protection Act / Authority (EPA / CFA)

<b>PPRR Continuum</b>			
P	P	R	R
✓	✓	✓	
✓	✓	✓	
✓			
✓	✓		
✓	✓		
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	✓	✓	
✓	✓	✓	✓
✓	✓	✓	

## **Section 7 – Improvement, Plan Reporting and Review Processes**

### **Plan Endorsement and Adoption**

The Warrnambool City Municipality is the custodian of the Warrnambool City MFMP pursuant current legislative arrangement. All partnership agencies involved in the development and implementation of the plan are signatories. All signatories must sign off on their respective activities, responsibilities and components of the Plan.

The Plan must be endorsed by the MEMPC prior to submission to Council for their endorsement. This obligation may change in subsequent versions as MFMP processes evolve. Fire services must attest to the rigor of the planning processes.

### **Plan Amendment and Review**

The plan is reviewed and updated annually by the Municipal Fire Management Planning Committee to ensure it meets community needs and expectations. This review takes into account works completed, environmental changes and any additional risks. Significant changes, including planning mitigation works must be approved by MFMPC members and articulated through the MEMPC to Council for adoption. The plan will be reviewed and amended;

- Annually in association with the MEMP;
- Changes to the VFRR data will be updated in the plan,
- The MFMPC will review the implementation of the treatments applied to VFRR identified risks by each agency (as appropriate),
- Requirement for additional or alternative treatments to mitigate identified risks will be assessed,
- Following significant incident's if required,
- As directed by the State or Regional Fire Management Planning Committees,
- As required by legislation.

## **Section 8 Attachments**

Attachment 1	Risk Plans
Attachment 1.1	Warrnambool City VFRR Data against BSW RSFMPC Priorities
Attachment 2	WCC Municipal Fire Management Work Plan
Attachment 2.1	Risk Environment Treatments Strategies, Plans & Programs
Attachment 3	Statutory Obligations - Hazardous Trees
Attachment 3.1	Township Protection Plans & Neighbourhood Safer places
Attachment 4	WCC MFMPC Membership
Attachment 4.1	WCC Stakeholder & Engagement Matrix
Attachment 5	Maps
Attachment 6	Fire Management Planning Tools & Related Plans
Attachment 7	Glossary & Acronyms
Attachment 8	Bibliography

### **Attachment 1 - Risk Plans**

The following aggregation of risk plans are an outcome from the Environmental Risk Scan process incorporating the existing MFPP and MEMP, articulating existing programs, strategies and plans; assessing relevance and identifying new one's to be incorporated, using the Victorian Fire Risk Register tool. It includes a board range of treatment options, plus opportunities to share skills, knowledge and resources across agencies and with neighboring municipalities. The plans are based on the 6 risk environments to achieve consistency across municipalities and government agencies within the Barwon South West Region.

Warrnambool MFMPC recognises that private industry maintain Emergency management plans specific to there facilities and that the aggregation of these individually is beyond the scope of this document.

## **RISK ENVIRONMENT – BUSINESS & COMMUNITY**

<b><u>MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:</u></b>				
Area with significant community functions such as commercial/retail, entertainment & recreation. It is commonly made up of the public assembly, public accommodation & commercial risk environments. Examples include, but are not limited to, shopping complexes, significant shopping strips, central business districts of large regional centres & transport terminals. Business & community activity centre precincts provide employment mainly in retail, financial, government & non-government service sectors.				
<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>	<b><u>BUILDING REGULATIONS 2006</u></b>	<b><u>SPECIAL EVENT, EMERG. MANAGEMENT &amp; RISK ASSESSMENT.</u></b>
<b>Primary Agency</b>	WCC / MFPO	WCC	MUNICIPAL BUILDING SURVEYOR	WCC SPECIAL EVENTS COMMITTEE.
<b>Partner Agency</b>	CFA	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.		CFA
<b>Program / Plan Objective</b>	To identify actions, this will decrease the vulnerability of people and property in the City of Warrnambool.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.	Meet Australian standards 3959 – designated bushfire prone areas.	Council controlled events will have an emergency plan or risk assessment.
<b>Related plans</b>	As per the plan	As per the plan		As per the plan
<b>Prevention</b>	Yes	Yes	Yes	Yes
<b>Preparedness</b>	Yes	Yes	Yes	Yes
<b>Response</b>		Yes		
<b>Recovery</b>		Yes	Yes	
<b>Commence date</b>	Ongoing	Ongoing	11/3/2009	Ongoing
<b>Completion date</b>	Review every 2 years	Ongoing, revised every 3 yrs.	Ongoing	Ongoing
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes	Yes	Yes
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes	N/A	Yes



## RISK ENVIRONMENT – FARMING & RURAL LIVING

### MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:

This includes the agricultural risk environment & the natural risk environment where it interacts with farming or rural living areas. It covers property that is used for the primary production of plant & animal material such as crops, pasture, softwood hardwood & pulp plantations; plus associated structures such as hay, equipment; shearing, poultry & dairy sheds, low density housing & accommodation for live in transient workers. It also includes the infrastructure used to support the risk environment. The rural living component includes the farming community as well as those living in the rural environment and / or maintaining a farm for life style purposes rather than as a source of income.

<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>		
<b>Primary Agency</b>	WCC / MFPO	WCC		
<b>Partner Agency</b>	CFA, PROPERTY OWNER	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.		
<b>Program / Plan Objective</b>	To identify requirements of land used for primary production of plant and animal products, also low density housing.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.		
<b>Related plans</b>	As per the plan	As per the plan		
<b>Prevention</b>				
<b>Preparedness</b>				
<b>Response</b>				
<b>Recovery</b>				
<b>Commence date</b>	Ongoing	Ongoing		
<b>Completion date</b>	Review every 2 years	Ongoing, revised every 3 yrs.		
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes		
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes		

## **RISK ENVIRONMENT – INTERFACE LIVING**

<b><u>MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:</u></b>				
Areas where a predominantly urban population is situated directly adjacent to, or intermixed with, significant areas of forest & scrub. The predominant focus is on the residential risk environment where it intersects with the natural risk environment. However, it also includes the infrastructure to support the residential environment such as electricity transmission infrastructure & roads. Schools & commercial enterprises may also be included where their concentration is not sufficient to create a separate risk environment.				
<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>	<b><u>DSE FIRE MANAGEMENT PLAN</u></b>	<b><u>FAR SOUTHWEST DISTRICT FIRE OPERATIONS PLAN.</u></b>
<b>Primary Agency</b>	WCC / MFPO	WCC	DSE	DSE
<b>Partner Agency</b>	CFA	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.	PARKS VICTORIA	PARKS VICTORIA
<b>Program / Plan Objective</b>	To identify actions required in a semi rural areas surrounding the City including road, rail & residential.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.	Detail fire management goals, objectives & strategies. Includes a fire protection strategy, fire ecology strategy & links to private land.	Outline fire management strategy on private land. prevention & preparedness works including planned burning, mechanical works education & enforcement.
<b>Related plans</b>	Vicroads / Victrack slashing programs	As per the plan		
<b>Prevention</b>	Yes	Yes	Yes	Yes
<b>Preparedness</b>	Yes	Yes	Yes	Yes
<b>Response</b>		Yes	Yes	
<b>Recovery</b>		Yes	Yes	
<b>Commence date</b>	Ongoing	Ongoing	2010	2009
<b>Completion date</b>	Ongoing	Ongoing, revised every 3 yrs.	2020	2012
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes	Yes	Yes
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes	Yes	Yes

## RISK ENVIRONMENT – INDUSTRY & STATE INFRASTRUCTURE

<b>MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:</b>				
Areas used for any part of the manufacture, assembly or production of a product, or the processing of either a primary and/or a natural resource. A site within this risk environment include, but are not limited to, industrial estates, factories, sawmills, warehouses, petrochemical depots, mining, quarries, refineries & petrol stations. It also contains the infrastructure used to support the risk environment, along with associated commercial enterprises such as trade supply outlets, mail centres & wholesale outlets where they are contained within the industry & state infrastructure risk environment.				
<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>	<b><u>Building Regulations 2006</u></b>	
<b>Primary Agency</b>	WCC / MFPO	WCC	Municipal Building Surveyor	
<b>Partner Agency</b>	CFA	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.		
<b>Program / Plan Objective</b>	Land used for part or production cycle of a product or support of essential services to the community, a structure not necessarily a building.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.	Meet Australian standards 3959, designated bushfire prone areas	
<b>Related plans</b>		As per the plan		
<b>Prevention</b>	Yes	Yes	Yes	
<b>Preparedness</b>	Yes	Yes	Yes	
<b>Response</b>		Yes		
<b>Recovery</b>		Yes	Yes	
<b>Commence date</b>	Ongoing	Ongoing	11/3/2009	
<b>Completion date</b>	Review every 2 years	Ongoing, revised every 3 yrs.	ongoing	
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes	Yes	
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes	N/A	

## RISK ENVIRONMENT – BUSH & PARKS

<b>MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:</b>				
Areas where the natural risk environment is predominant. In general these are large areas & most likely inaccessible, however infrastructure such as roads, power lines & dams may fall within the risk environment. The number of structures & community activity locations such as camping grounds are minimal, although isolated dwellings or small remote hamlets may exist within the precinct. If there is a significant population however it maybe better classified as an interface risk environment.				
<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>	<b><u>FAR SOUTHWEST DISTRICT FIRE MANAGEMENT PLAN</u></b>	<b><u>FAR SOUTHWEST DISTRICT FIRE OPERATIONS PLAN</u></b>
<b>Primary Agency</b>	WCC / MFPO	WCC	DSE	DSE
<b>Partner Agency</b>	CFA	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.	PARKS VICTORIA	PARKS VICTORIA
<b>Program / Plan Objective</b>	Identify actions which will decrease the vulnerability of people & property within the City of Warrnambool.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.	Details fire management goals, objectives & strategies. Includes a fire protection strategy, fire ecology strategy & links to private land.	Outlines fire management strategies on public land. Prevention & preparedness works including planned burning, mechanical works, education & enforcement.
<b>Related plans</b>	As per the plan	As per the plan		
<b>Prevention</b>	Yes	Yes	Yes	Yes
<b>Preparedness</b>	Yes	Yes	Yes	Yes
<b>Response</b>		Yes	Yes	
<b>Recovery</b>		Yes	Yes	
<b>Commence date</b>	Ongoing	Ongoing	2010	2009
<b>Completion date</b>	Review every 2 years	Ongoing, revised every 3 yrs.	2020	2012
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes	Yes	Yes
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes	Yes	Yes

## **RISK ENVIRONMENT – TOWNSHIP & SUBURBAN LIVING**

<b><u>MATRIX OF FIRE MANAGEMENT PLANNING FOR THE WARRNAMBOOL CITY GEOGRAPHIC AREA:</u></b>				
Urban residential areas. Dwellings may include free standing homes, flats, units & high rise apartments. The risk environment includes housing estates, & residential areas of provincial townships. It predominately consists of the residential risk environment, but also includes the infrastructure used to support the precinct such as transport services, utilities, schools and isolated commercial enterprises (e.g. milk bars & service stations) where their concentration is not sufficient to create a separate risk environment.				
<b>Program / Plan title</b>	<b><u>MFPP / MFMP</u></b>	<b><u>MEMP</u></b>		
<b>Primary Agency</b>	WCC / MFPO	WCC		
<b>Partner Agency</b>	CFA	CFA, SES, POLICE, VICROADS, AMBULANCE, C. GUARD, DSE DHS, POWER, GAS & PHONE.		
<b>Program / Plan Objective</b>	Residential / rural living and infrastructure requirements within the City of Warrnambool.	To identify & treat potential risks, link all community safety programs, manage emergency events & prepare the Emergency Management plan.		
<b>Related plans</b>	As per the plan	As per the plan		
<b>Prevention</b>	Yes	Yes		
<b>Preparedness</b>	Yes	Yes		
<b>Response</b>		Yes		
<b>Recovery</b>		Yes		
<b>Commence date</b>	Ongoing	Ongoing		
<b>Completion date</b>	Review every 2 years	Ongoing, revised every 3 yrs.		
<b>Listed in Primary business plan &amp; funded</b>	Yes	Yes		
<b>Listed in Partner business plan &amp; funded</b>	Yes	Yes		

## Attachment 1.1 - Warrnambool City VFRR Data against BSW RSF MPC Priorities

### Priority 1 Human Settlement

Asset ID	Asset Type	Asset Sub type	Asset Name	Asset Location	Likelihood	Consequence	Risk	Priority	Township Protection Plans	NSP identified	Treatments
77001	Human Settlement	Residential	Woodford	Woodford	Likely	Major	Very high	2A			100;201;207;413;420
77002	Human Settlement	Residential	Bushfield North	Bushfield	Likely	Catastrophic	Extreme	1B			100;201;207;413;420
77003	Human Settlement	Residential	Bushfield South	Bushfield	Likely	Catastrophic	Extreme	1B			100;207;420
77005	Human Settlement	Residential	Dennington North	Dennington Nth of railway	Likely	Minor	Medium	4			100;207
77007	Human Settlement	Residential	Dennington South	Dennington Sth of railway	Likely	Moderate	High	3A			100;207
77008	Human Settlement	Residential	Allansford	Allansford	Likely	Minor	Medium	4			107;207
77010	Human Settlement	Residential	Hopkins Point Rd Nth	Hopkins Point Road	Likely	Moderate	High	3A			100;207
77011	Human Settlement	Residential	Hopkins Point Rd Sth	Hopkins Point Road	Likely	Moderate	High	3A			100, 207
77012	Human Settlement	Residential	Merrivale South	Merrivale	Likely	Minor	Medium	4			100;207
77013	Human Settlement	Residential	Warrnambool South	Warrnambool	Likely	Minor	Medium	4			100;207

77014	Human Settlement	Residential	Gian Park Hopkins River	Dobson Way Warrnambool East	Likely	Minor	Medium	4				100;207
77015	Human Settlement	Residential	Warrnambool North East	Warrnambool	Likely	Minor	Medium	4				100;207;219
77016	Human Settlement	Residential	Wangoom Road Nth	Warrnambool North	Likely	Major	Very High	2A				100;207
77017	Human Settlement	Residential	Wollaston Road	Warrnambool	Likely	Moderate	High	3A				100;207;219
77018	Human Settlement	Residential	Carramut Road East	Warrnambool	Likely	Minor	Medium	4				100;207
77019	Human Settlement	Special fire protection	Warrnambool Foreshore Camping Area	Warrnambool	Almost Certain	Moderate	Very high	2C				107;111;207;303;413
77020	Human Settlement	Special Fire Protection	Deakin University	Warrnambool	Likely	Moderate	High	3A				203;212;409
77021	Human Settlement	Special Fire Protection	Hopkins River Caravan Park & Jubilee Park	Jubilee Park Rd	Likely	Moderate	High	3A				111;212;409
77022	Human Settlement	Special Fire protection	Woodford Primary School & OSHC	Woodford	Likely	Catastrophic	Extreme	1B				100;212;407
77023	Human Settlement	Special Fire Protection	Brauer College	Warrnambool	Likely	Moderate	High	3A				212;407
77024	Human Settlement	Special Fire Protection	St John's Primary School	Dennington	Likely	Major	Very High	2A				212;407
77026	Human Settlement	Special Fire Protection	Warrnambool Speedway	Warrnambool	Likely	Moderate	High	3A				203;409

77031	Human Settlement	Special Fire Protection	Flagstaff Hill	Warrnambool	likely	Moderate	High	3A			111;207
77034	Human Settlement	Special Fire Protection	Lyndoch Aged Care	Warrnambool	Likely	Moderate	High	3A			212;409
77035	Human Settlement	Special Fire Protection	Kings Collge	Warrnambool	Likely	Moderate	High	3A			212;407
77036	Human Settlement	Other	Hermitage Drive	Allansford	Likely	Major	Very High	2A			107
77037	Human Settlement	Other	Dennington northwest & southwest	Dennington	Likely	Moderate	High	3A			100;222
77038	Human Settlement	Residential	Hickford Pde	Warrnambool	Likely	Minor	Medium	4			207
77039	Human Settlement	Residential	Warrnambool North South Merri	Warrnambool	Likely	Moderate	High	3A			100;207
77040	Human Settlement	Residential	Nicholson st	Warrnambool	Likely	Minor	Medium	4			100;207;209
77041	Human Settlement	Special Fire Protection	Warrnambool East PS	Warrnambool	Likely	Moderate	High	3A			207;212
77042	Human Settlement	Other	Bushfield East	Bushfield	Likely	Major	Very High	2A			100;207
77043	Human Settlement	Other	Staffords rd	Warrnambool	Likely	Major	Very High	2A			100;222
7750745	Human Settlement	Special Fire Protection	Dennington & district pre school	Dennington	Likely	Major	Very High	2A			212;407
7750746	Human Settlement	Special Fire Protection	ABC learning centre West	Warrnambool	Likely	Moderate	High	3A			212;407



7750749	Human Settlement	Special Fire Protection	Merrivale school	Warrnambool	Likely	Moderate	High	3A				212;407
7751009	Human Settlement	Special Fire Protection	Warrnambool South Kindergarten	Warrnambool	Likely	Moderate	High	3A				212;407
7751010	Human Settlement	Special Fire Protection	Allansford school	Allansford	Likely	Moderate	High	3A				212;407
7751011	Human Settlement	Special Fire Protection	Allansford pre school	Allansford	Likely	Moderate	High	3A				212;407
7751012	Human Settlement	Special Fire Protection	ABC learning centre North	Warrnambool	Likely	Moderate	High	3A				212;407
7751013	Human Settlement	Special Fire Protection	Kings college pre school	Warrnambool	Likely	Moderate	High	3A				212;407
7751972	Human Settlement	Special Fire Protection	Allansford1st scouts	Allansford	Likely	Moderate	High	3A				212;407
7752176	Human Settlement	Residential	Riverside estate	Warrnambool	Likely	Moderate	High	3A				100
7752177	Human Settlement	Special Fire Protection	North edge childcare	Warrnambool	Likely	Major	Very High	2A				212;407

### Priority 2 Economic

Asset ID	Asset Type	Asset Sub type	Asset Name	Asset Location	Level of Impact	Cost of recovery	Consequence	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk Rating	Priority	Treatments
77201	Economic	Commercial	Warrnambool Industrial Area	Warrnambool	Regional	Low	Moderate	No	No	Unlikely	Low	NA	207;211;222

77202	Economic	Infrastructure	Warrnambool Sewage	Warrnambool	Regional	High	Major	No	Yes	Likely	Very High	2A	206;214;308;310;406;445;500;700
77203	Economic	Infrastructure	Warrnambool power sub station	Warrnambool	Local	Low	Minor	Yes	No	Possible	Low	2A	108;214;219;401
77206	Economic	Infrastructure	Deakin University	Warrnambool	Regional	Moderate	Major	No	Yes	Likely	Very High	2A	211;212;222
77207	Economic	Infrastructure	Warrnambool water treatment plant	Warrnambool	Regional	High	Major	No	Yes	Likely	Very High	2A	207;214;310;406
77208	Economic	Tourist and Recreational	Warrnambool Speedway	Allansford	Local	Low	Minor	No	Yes	Likely	Medium	4	203
77209	Economic	Infrastructure	Warrnambool Railway	Warrnambool	Local	Low	Minor	Yes	Yes	Almost Certain	High	3D	209
77211	Economic	Infrastructure	Warrnambool – Koroit 66kvline	Warrnambool – Koroit	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	108;219;401
77212	Economic	Infrastructure	Princes Hwy	Warrnambool	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	223;418
77213	Economic	Tourist and Recreational	Flagstaff Hill	Warrnambool	Local	Moderate	Moderate	No	Yes	Likely	High	3A	111;107;207
77214	Economic	Infrastructure	Terang-Warrnambool 66kvline 1	Terang – Warrnambool	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	108;219;401
77215	Economic	Infrastructure	Terang-Warrnambool 66kvline 2	Terang – Warrnambool	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	108;219;401
77216	Economic	Infrastructure	Terang-Koroit 66kvline 1	Terang-Koroit	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	108;219;401
77217	Economic	Infrastructure	Koroit zone sub station	Koroit	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	108;214;219;401

77218	Economic	Infrastructure	Hopkins Hwy	Warrnambool	Local	Low	Minor	Yes	Yes	Almost Certain	High	3D	223;418
77219	Economic	Commercial	Fonterra	Dennington	Local	Low	Minor	No	Yes	Likely	Medium	4	211;212;222;303
77220	Economic	Commercial	Warrnambool commercial estate	Warrnambool	Regional	Low	Moderate	No	Yes	Likely	High	3A	207
77221	Economic	Commercial	Livestock exchange & freight terminal	Warrnambool	Local	Low	Minor	No	No	Unlikely	Low	NA	109
77222	Economic	Commercial	Midfield Meat Group	Warrnambool	Local	Low	Minor	No	No	Unlikely	Low	NA	800

### Priority 3 Cultural Heritage

Asset ID	Asset Type	Asset Sub type	Asset Name	Asset Location	Level of Impact	Cost of recovery	Consequence	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk Rating	Priority	Treatments
77601	Cultural Heritage	Non-Indigenous	Dennington Railway Bridge	Dennington									800
77602	Cultural Heritage	Non-Indigenous	Warrnambool Breakwater	Warrnambool									800
77603	Cultural Heritage	Non-Indigenous	Warrnambool Breakwater	Warrnambool									800
77604	Cultural Heritage	Non-Indigenous	Hopkins river bridge	Warrnambool									800

### Priority 4 Environmental (not identified at this stage)

## Attachment 2 - Warrnambool City Council Municipal Fire Management Work Plan

### (1) Wildfire Risk Environment

Task	Primary Agency	Support Agency	Current Status	Completion Date	Comments
Township Protection Plans	CFA	DSE, Council	On Track	October 2010	Townships identified include <b>Bushfield/Woodford?</b>
Pre Fire Season Inspections	Council	CFA	On Track	On going	Notices issued as required. Works carried out by council if necessary.
10/30 Rule	DSE	All	On Track	On going	This has cross agency responsibility with individual agency priorities determined by legislation and Government Policy.
Roadside Slashing	Council / Vic Roads	CFA	Planning commenced	Before FDP	Annual program
Neighbourhood Safer Place - Places of Last Resort.	Council	DSE, Council places	Planning commenced	End Oct 2010	Task will be completed in conjunction with the TPP
Bushfire Action Week	All	All	Complete	Mid Oct	
Review Relief Centres	Council	CFA/DSE	Not commenced	Before FDP	Involves review of MEMP to verify facilities, location and policy.
Community Education and Engagement	CFA/DSE	Council	On track	End Feb '11	Annual program
Communication Plan	Council	All	Commenced	Mid Sept	
Self Assessment Property Inspections	CFA/ Council	DSE	On Track	On-going	
Other outcomes from Royal Commission	All	All	Not commenced	On going	
Relocation Planning	CFA / DSE	All	commenced	On Going	Policy to be developed corporately Articulated in incident plan
Road Management Planning (Response Recovery)	VicPol	All	commenced	On Going	Policy to be developed corporately
Emergency Alert /State Emergency Warning System/	OESC	Council	Completed	Before FDP	Policy to be developed corporately (under review)

**(2) Other Fire Risk Environments**

<b>Task</b>	<b>Primary Agency</b>	<b>Support Agency</b>	<b>Current Status</b>	<b>Completion Date</b>	<b>Comments</b>

**Legend:**

<b>On track</b>
<b>Not on track but redeemable</b>
<b>???</b>

## Attachment 2.1 - Risk Environment Treatment Strategies, Programs & Plans

No.	Tools/Program/Plans	Tools/Programs Detail	Risk Environment	PPRR Continuum				Expert
				P	P	R	R	
1.	Fire Safe Kids / Fire Safe Youth	Bushfire and residential fire safety education for primary and secondary school students, provided by trained and accredited CFA volunteers	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	✓		CFA – Community Education Coordinator
2.	Early Fire Safe	Fire prevention, burn and scald education program for parents of children under 6 years of age	Educational Facilities Township & Suburban Living	✓	✓	✓		CFA – Community Education Co-ordinator
3.	JFAIP	Intervention and education program for child fire lighters and their family. Trained practitioners visit the home for several visits with the child and parent / guardian. Referrals to this program come from a variety of sources including family, welfare agencies, schools, emergency services.	Business & Community Activity Centres Educational Facilities Township & Suburban Living	✓				CFA – JFAIP Co-ordinator
4.	Isolated Elderly Program	Education and training program on fire safety for carers and service providers of elderly citizens and people with disabilities. Carers are then able to provide advice to elderly on enhancing their fire safety.	Health Services Township & Suburban Living Educational Facilities	✓	✓			CFA – Community Education Co-ordinator
5.	Reduce the Risk	Residential fire safety education provided to community groups and not-for-profit organisations. Covers causes and prevention of house fires, how to respond in event of a fire, and preparing a fire escape plan. Can target diverse populations eg. Cultural & Linguistic backgrounds, elderly, residential care. Includes events and displays, media releases	Health services Township & Suburban Living Industry	✓	✓			CFA – Community Education Co-ordinator
6.	Mobile Education Unit	Mobile truck or bus providing a focus for residential (primary) or bushfire (primary and secondary) education in schools. Also available for roadshows and public events	<ul style="list-style-type: none"> <li>Township &amp; Suburban Living</li> <li>Educational Facilities</li> <li>Tourism</li> </ul>	✓	✓	✓		CFA – Community Education Co-ordinator

7.	Fire Ready Victoria	Bushfire education programs provided to community groups, businesses, tourism, media outlets. Includes Fire Ready Victoria, Bushfire Planning Workshops, door knocking during emergencies, events, displays, targeted campaigns, media releases	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Industry</li> <li>• Health Services</li> <li>• Township &amp; Suburban Living</li> <li>• Tourism</li> <li>• Agricultural</li> </ul>	✓	✓	✓	CFA – Community Education Co-ordinator
8.	Community Fireguard	Comprehensive bushfire education program for community members, either living in same locality or sharing 'like' interest eg. horses, family day care providers. After a series of initial meetings usually held in host home, community fireguard groups hold annual maintenance meetings to refresh their knowledge and skills. Program is for the highly motivated / engaged community members.	<ul style="list-style-type: none"> <li>• Agricultural</li> <li>• Township &amp; Suburban Living</li> </ul>	✓	✓	✓	CFA – Community Education Co-ordinator
9.	Home Bushfire Advice Service (HBAS) Street Bushfire Advice Service (SBAS) Commercial Bushfire Advice Service (CBAS)	Tailored bushfire information to individual householders, local communities, and business / educational / health facilities. A detailed report is provided on observations and recommended actions to reduce bushfire risk to identified properties. Targeted to extreme and very high risk locations	<ul style="list-style-type: none"> <li>• Business &amp; Community Activity Centres</li> <li>• Educational Facilities</li> <li>• Industry</li> <li>• Health services</li> <li>• Township &amp; Suburban Living</li> <li>• Tourism</li> <li>• Agricultural</li> </ul>	✓	✓		Fire Safety Officer – Bushfire
10.	Advanced/VCAL	A government funded program that aims to provide opportunities for personal development of secondary school students - Secondary schools - (Years 9 and 10)	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	✓	CFA – Community Education Coordinator
11.	Multicultural Programs	Raise CFA's profile in ethnic communities by raising awareness about the role of CFA in the community,	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	✓	CFA – Community Education Coordinator

provide access to fire safety messages for all members of the community and raise awareness among CFA personnel of the special needs of people from diverse cultural and linguistic backgrounds - General audience of people from cultural and linguistically diverse backgrounds.

<b>12.</b> Community Fire Guard	To develop self-reliant and resilient communities in wildfire by working over time with small groups of community members to enable them to develop locally relevant and personally appropriate wildfire survival plans.	Farming & Rural Living Interface Living Bush & Parks	✓	✓	✓	✓	CFA – Community Education Coordinator
<b>13.</b> Tourism	Wildfire Tourism Engagement Project is designed to develop a self-reliant and resilient Tourism Industry in wildfire by identifying each tourism sector and developing or accessing resources and education opportunities appropriate to each. Members of the tourism industry are supported in developing appropriate personal and business survival and recovery plans to enable them to plan for themselves and their clients. Important safety information is also delivered directly to visitors to the area.	Business & Community Activity Centres Bush & Parks	✓	✓	✓	✓	CFA – Community Education Coordinator
<b>14.</b> Regional Operational Management Plan	Each region has an individual operational management Plan for response activities.	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks	✓	✓	✓	✓	CFA – Operations Manager
<b>15.</b> Local mutual aid plan	Is an agreed plan between DSE &CFA of designated areas of response	Farming & Rural Living Interface Living Bush & Parks		✓	✓	✓	DSE &CFA – Operations Manager
<b>16.</b> Community Safety and Inclusion Partnership Project	This project will develop and multi-agency approach to emergency management by working collaborative to engage community to improve community safety and inclusion.	Interface Living Township & Suburban Living	✓	✓	✓	✓	CFA – Community Education Coordinator



**17.** CFA/Council Risk Based Structural Fire Safety Strategies

This strategy is designed to achieve an integrated approach to identifying, assessing and managing the risks within the built environment to:

Business & Community Activity Centres  
Farming & Rural Living  
Interface Living



CFA – Fire Safety Officer

1. Apply a Risk Management process to identify and assess the level of risk to different types of buildings.
2. Determine priority structural risks based on building classification and other relevant risk factors.
3. By applying an integrated approach for the inspection and mitigation of priority structural risks.
4. Having clearly defined roles regarding the inspection, auditing and management process for dealing with priority structure risks.
5. Using the resources and time available effectively to implement a proactive approach to risk mitigation whilst maintaining a reactive capacity to community concerns to ensure compliance with legislative obligations and achieve quality customer service.
6. By educating building owners and managers on their responsibilities and obligations pursuant to the Building Act, CFA Act and OH&S Act (emergency management) by jointly conducting information and education workshops.

Township & Suburban Living  
Industry & State Infrastructure

<p><b>18</b> Caravan Parks</p>	<p>This Emergency Management Manual has been developed by CFA to assist Caravan Park owner/operators to prepare an Emergency Management Plan that will:</p> <ol style="list-style-type: none"> <li>1. Provide clear guidance in the event of an emergency that may effect the health, safety or wellbeing of caravan park clients or residents or have long term effects on business continuity</li> <li>2. Satisfy the requirements of the Residential Tenancies (Caravan Parks &amp; Moveable Dwellings Registration and Standards) Regulations 1994</li> <li>3. Meet the requirements of the Occupational Health and Safety Act in respect to Emergency Management Planning for the safety of employees and other persons within a workplace, in this case, caravan parks.</li> </ol>	<p>Business &amp; Community Activity Centres</p>	<p>✓ ✓ ✓ ✓</p>	<p>CFA – Fire Safety Officer</p>
<p><b>19.</b> Community Event</p>	<p>Community Event Wildfire Risk management Guidelines is designed to assist Event Organisers identify vulnerability of their community event to wildfire and to apply a risk management approach to mitigate or reduce the level of risk. It provides a logical decision making process to identify, analyse and determine the appropriate mix of fire management strategies to mitigate the likelihood and consequences from wildfires.</p> <p>A vulnerable community event is defined as any organised group activity that could be directly and indirectly impacted on from wildfire. The extent of the impact is dependent on the size of the event and numbers attending, fuel</p>	<p>Business &amp; Community Activity Centres</p>	<p>✓ ✓ ✓</p>	<p>CFA – Fire Safety Officer</p>

type, fuel moisture, fuel loads within and surrounding the event, topography and weather conditions during the Fire Danger Period

**20.** Home Fire Safety

The home fire safety strategy is a partnership between CFA, DHS (Neighbourhood Renewal & Office of Housing) and the Victorian Police and interested municipalities to work with local communities (urban areas) to ensure residents are well-informed about fire safety within and around their homes and are able to play an active role in mitigating home fire risks. By targeting specific at risk residential areas (both public and private residences) with accurate and appropriate information, we seek to achieve shared Community/Government understanding of local fire risks/issues and develop a culture of shared responsibility for addressing those issues.

Farming & Rural Living  
Interface Living  
Township & Suburban Living

✓ ✓ ✓

CFA – Community Education  
Coordinator

**21.** Fire Access Roads

Fire Access Road Subsidy Scheme assist's Municipalities in enhancing community safety where wildfire is considered a potential threat. The scheme provides funding for the following categories of fire management work:

Farming & Rural Living  
Interface Living  
Bush & Parks

✓ ✓

CFA – Road & Rail Fire  
Management Co-ordinator

1. Construction of fire access roads
2. Maintenance of fire access roads
3. Establishment of strategic static water supplies

To meet the criteria, it must also fulfil one of the following requirements:

1. Reduce the travel time of Brigades in responding to areas containing settlement, sub-divisions or individual properties.
2. Provide an alternate means of egress for the public should the circumstances require evacuation

	to occur. Provide strategic water supply to assist fire suppression in isolated areas						
<b>22.</b> Agricultural Fire Management	Agricultural fire management guidelines provides practical fire management advice for people living and working on cropping, grazing, plantation, timber and rural lifestyle properties, particularly those who are undertaking property planning or are new to farming.	Farming & Rural Living Interface Living Bush & Parks	✓	✓	✓	✓	CFA – Road & Rail Fire Management Co-ordinator
<b>23.</b> Roadside Fire Management	Roadside fire management is important for safety, the provision of services (such as electricity) and the environment. Careful fire management works on the roadsides and private and public land can reduce the risk. The Roadside fire management guidelines will assist: 1. Identification of management objectives; 2. Identification and assessment of treatment options; and 3. development of roadside management programs	Farming & Rural Living Interface Living	✓	✓	✓		CFA – Road & Rail Fire Management Co-ordinator
<b>24.</b> Campfire Prevention	Provide information to increase awareness of the risks associated with campfires to reduce the incidence of preventable wildfires. Undertake patrols and enforcement activities to ensure compliance with fire regulations.	Interface Living Bush & Parks	✓				DSE – Fire Manager PV – Ranger in Charge
<b>25.</b> Fire Investigation	DSE, CFA and Victoria Police working collaboratively to investigate and establish the cause and origin of all human caused fires, and seek to identify and as appropriate prosecute the offenders.	Interface Living Bush & Parks	✓	✓		✓	DSE – Fire Manager CFA – VIC POL
<b>26.</b> Daily Readiness	Set up and establishment of Incident Control Centres, Staging, Communications, Aircraft, Plant and People in readiness for wildfire incidents based on trigger levels.	Interface Living Bush & Parks		✓	✓		DSE – District Duty Officer CFA

<b>27.</b> Asset Protection Zones	Modification of vegetation by removal of the shrub and understorey by mulching and/or slashing to reduce fuels adjacent to reduce the risk of fire to built assets in townships and critical infrastructure including water, power, telecommunications and other assets.	Interface Living Bush & Parks	✓	✓		DSE – Fire Manager	
<b>28.</b> Fire Operations Planning	Planned burns and works to reduce fuels on public lands based on ecological and risk management objectives. Aim to reduce the bushfire risk to communities and sustain ecosystem health and resilience.	Interface Living Bush & Parks	✓	✓		DSE – Fire Manager	
<b>29.</b> Road Management Program	Roads and tracks on public land maintained in accordance with Road Management Act to provide for fire access for rapid first attack response.	Interface Living Bush & Parks		✓	✓	DSE – Planning Manager	
<b>30.</b> Strategic Fuel breaks	The establishment and maintenance of a network of strategic fuel breaks along roads and tracks that provide extra support for protection of significant assets and facilitate the delivery of planned burns.	Interface Living Bush & Parks	✓	✓	✓	DSE – Fire Manager	
<b>31.</b> Fire Ecology and Monitoring	Fuel hazard assessment, mapping of burn outcomes and monitoring of flora and fauna on public land to support decision making in scheduling of planned burn program.	Interface Living Bush & Parks	✓	✓	✓	DSE – Fire Ecologist	
<b>32.</b> Traffic Management Strategies / Assistance	To assist response agencies in emergency events through road closures, diversions, etc. Pre planning of diversion routes and installation of DISPLAN boxes at agreed locations	Farming & Rural Living Interface Living Bush & Parks Township & Suburban Living		✓	✓	✓	Vic Roads – VIC POL
<b>33.</b> Strategic Fire Fuse Breaks	Fuel reduction on arterial roads in accordance with municipal fire prevention plans by spraying, slashing of roadsides or grading fuse breaks prior to burning off activities by the CFA	Farming & Rural Living Interface Living Bush & Parks	✓	✓			Vic Roads – VIC POL
<b>34.</b> Arterial Roadside Maintenance	Maintenance standards regarding vegetation encroaching the road	Farming & Rural Living Interface Living	✓	✓			Vic Roads – VIC POL
	envelope and management of roadsides to reduce fuel loads prior to	Bush & Parks					

<b>35.</b> Power line Bushfire Mitigation Strategy/Plan	the fire season i.e., programming maintenance slashing in November Powercor's Bushfire Mitigation Strategy/Plan is prepared in accordance with the Electricity Safety (Bushfire Mitigation) Regulations 2003. The strategy/plan details Powercor's policies, procedures and programs for the inspection, maintenance and operation of the electricity network.	Farming & Rural Living Interface Living Industry & State Infrastructure Township & Suburban Living	✓	Powercor
<b>36.</b> Vegetation Management around Powerlines	Powercor's Vegetation Management Plan is prepared in accordance with the Electricity Safety (Electric Line Clearance) Regulations 2005. The plan details Powercor's policies, procedures and programs to manage vegetation around power lines.	Farming & Rural Living Interface Living Industry & State Infrastructure Township & Suburban Living	✓	Powercor
<b>37.</b> Fire Hazard Mapping Project (Powerlines)	Fire Hazard Mapping project to review low bushfire risk areas and make a determination on any changes to the risk level. The project is managed and undertaken by the CFA in rural Victoria over a four year cycle.	Farming & Rural Living Interface Living Industry & State Infrastructure Township & Suburban Living	✓	CFA
<b>38.</b> Private Overhead Electric Lines (POELs)	Inspection of POELs and any associated defect process management. Annual letter to all customers with POELs and Registered Electrical Contractors detailing their responsibilities to maintain their POELs including vegetation clearances.	Farming & Rural Living Interface Living	✓	Powercor
<b>39.</b> Vegetation Management around Powerlines in Declared Areas	Maintain vegetation clearance around powerlines in Declared areas in accordance with the Electricity Safety (Electric Lines Clearance) Regulations 2005.	Interface Living Township & Suburban Living	✓	Councils
<b>40.</b> Power line Easement Management.	Review easements, in conjunction with Municipal Fire Prevention Officers, CFA and/or DSE, to determine treatment		✓ ✓	Councils

<b>41.</b> Powerlines Faults and Emergency Events including Fire	works for power line easements that form agreed Strategic Fire Break, Breaks for Controlled Burns or required for Asset Access and Protection.  Powercor maintains a 24 hour fault and emergency response including call centre, faults dispatch and system control centres. Powercor invokes escalation to manage and respond to major events including Powercor ESLO's attending ICC's, MECC's and Community Briefings/Meetings when invited.	Farming & Rural Living Interface Living Township & Suburban Living	✓	Powercor	
<b>42.</b> Public Awareness	Media communications campaign.	Farming & Rural Living Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	Powercor
<b>43.</b> Vegetation Management Plan and Procedures 2008 – 09	The Vegetation Management Plan and Procedures (the Plan) is produced annually to provide  guidance for transmission line and easement vegetation management practices in  compliance with the Electricity Safety (Electric Line Clearance) Regulations 2005 and its  Schedule – Code of Practice For Electric Line Clearance)	Business & Community Activity Centres Farming & Rural Living Interface Living Township & Suburban Living Industry & State Infrastructure	✓	✓	SP Ausnet
<b>44.</b> Regional HELPLINE Community Support Package	This Community Support Package contains information a list of regional services which are available to assist people following an incident	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks Township & Suburban Living			DHS
<b>45.</b> 24 hour HELPLINE Card	This business size card has been distributed to all response and other support agencies in the Barwon Southern Western Region, this card is	Business & Community Activity Centres Farming & Rural Living Interface Living			DHS

	handed out to people who have either been involved in or have witnesses a traumatic incident, the free call telephone number on the card links people to information and or assistance they may require.	Industry & State Infrastructure Bush & Parks Township & Suburban Living	
<b>46.</b> Emergency Recovery Information Pack – After the Fires	This “After the Fires” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other support agencies, which can provide support services to people affected by the emergency incident.	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks Township & Suburban Living	DHS
<b>47.</b> Emergency Recovery Information Pack – After the Floods	This “After the Floods” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other support agencies, which can provide support services to people affected by the emergency incident.	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks Township & Suburban Living	DHS
<b>48.</b> Emergency Recovery Information Pack – (Generic) Recovery from Emergencies	This “Generic” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other support agencies, which can provide support services to people affected by the emergency incident.	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks Township & Suburban Living	DHS
<b>49.</b> Drought Information Package	This “Drought Information Pack” pack is designed to be used a single deployment of information, FACT sheets and contact details of various State and Local Government and other	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure	DHS



<b>50.</b> Community Information Flyer	<p>support agencies, which can provide support services to people affected by the drought.</p> <p>This Flyer is designed to be handed to people who need to leave an area affected by an emergency incident, the flyer highlights the support services which are available at a Relief / Recovery Centre and list the contact details of the local government authority in their area. It also advises affected people to seek further information by listen to ABC radio 774AM or call the Emergency Information line.</p>	<p>Bush &amp; Parks Township &amp; Suburban Living</p>					DHS
<b>51.</b> Lifesaving Victoria Medical Kits	<p>Lifesaving Victoria Clubs along the Barwon South Western Region coast have been provided with kits containing medical supplies and bottles of water to assist in the event of a bushfire. It is envisaged that they can be used for minor burns, eye irritations etc. These kits are a regional initiative and at this point only within the Barwon South Western region.</p>						DHS
<b>52.</b> Fire Safety at Community Events. (all)	<p>Conduct Inspection and other compliance with Building Act and Regulations &amp; other applicable laws, i.e. OH&amp;S Act, DG Regulations. CFA Act, Planning and Environment Act Programmed Inspections of community events with all relevant partner agencies.</p>	<p>Business &amp; Community Activity Centres Farming &amp; Rural Living Interface Living Bush &amp; Parks Township &amp; Suburban Living</p>	✓	✓	✓	✓	Council Events Co ordinator
<b>53.</b> Fire Safety in Commercial & Industrial Premises	<p>Audits of high risk buildings re compliance with Building Regulations. Essential Services inspections</p>	<p>Business &amp; Community Activity Centres Township &amp; Suburban Living</p>	✓	✓	✓	✓	Council Building Surveyor
<b>54.</b> Structure Fire Integrity Inspections	<p>Identify buildings that have been damaged by fire and inspect for public safety.</p>	<p>Business &amp; Community Activity Centres Farming &amp; Rural Living</p>	✓	✓			Council Building Surveyor

<b>55.</b> Fire Safety In Caravan Parks and Camping Grounds.	Programmed Inspections of Caravan Park and Camping Grounds with all partner agencies.	Interface Living Bush & Parks Township & Suburban Living  Business & Community Activity Centres Farming & Rural Living Interface Living Bush & Parks Township & Suburban Living	✓	✓	✓	✓	Environmental Health Officer Council Building Surveyor
<b>56.</b> Pre Season Community Awareness Campaign	Pre season advertising, courtesy letters and other information programs.	Business & Community Activity Centres Farming & Rural Living Interface Living Industry & State Infrastructure Bush & Parks Township & Suburban Living	✓	✓			MFPO
<b>57.</b> Fire Hazard Management on Council Owned or Managed Land	Management of fire hazards on Council land through fuel reduction works. (Excluding roadsides)	Business & Community Activity Centres Farming & Rural Living Interface Living Bush & Parks Township & Suburban Living	✓	✓			Various Council Units
<b>58.</b> Permit to Burn	Issue Schedule 12,13 & 14 permits to burn upon directions from relevant CFA Region. Issue local law permits with conditions for safe removal of fuel loads outside FDP.	Farming & Rural Living Interface Living Industry & State Infrastructure Township & Suburban Living	✓	✓			Council MFPO - CFA
<b>59.</b> Wildfire Management Overlay & Land Use Planning Controls	Maintain and implement the provisions of WMO and other land use controls.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	✓		Council Statutory Planning
<b>60.</b> Powerline Clearance	Maintain tree clearances to Energy Safe Regulations within declared areas.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓			Council MO Tree Management Unit
<b>61.</b> Roadside Vegetation Management	Slash/Spray Council managed roads within the municipality to reduce fuel loads over fire season. Maintain clear path for vehicle access	Business & Community Activity Centres Farming & Rural Living Interface Living	✓	✓			Council MO Tree Management Unit

<b>62.</b> Annual Fire Hazard Inspection	and maintenance of council trees on all Council managed roads. Conduct inspections of municipality to identify potential and actual fire hazards on private land and direct removal of same through service of Fire Prevention Notices.	Township & Suburban Living Business & Community Activity Centres Farming & Rural Living Interface Living Bush & Parks Township & Suburban Living	✓	✓			Council MFPO
<b>63.</b> Fire Access Track	Annual inspection and maintenance of all designated Fire Access Tracks.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓	✓	✓	Council MO Works & MO Tree Management Unit
<b>64.</b> MEM Plan	Implements/activates the agreed arrangements to ensure a coordinated response.	Business & Community Activity Centres Farming & Rural Living Interface Living Bush & Parks Township & Suburban Living	✓	✓	✓	✓	Council MERO Council Recovery Manager
<b>65.</b>							
<b>66.</b> Non Fire Season Inspection Program	Conduct random inspections for overgrown properties or investigate complaints with view to removing fire hazard outside FDP.	Business & Community Activity Centres Interface Living Industry & State Infrastructure Township & Suburban Living	✓	✓			Council MFPO
<b>67.</b> Fire plug Installation and Maintenance	Ensure all sub divisions have fire plugs located as per Standard C29 of Clause 56	Township & Suburban Living		✓	✓		Council Statutory Planner
<b>68.</b> Annual Maintenance of Fire Management Roads/Breaks	Fire management roads/breaks (Strategic, Primary, Secondary) listed in MFPP ( <i>under Council management</i> ) are reviewed and maintained throughout the municipality.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓			Council MFPO
<b>69.</b> Fire Prevention & Mitigation on Public & Private Forested Land.	Liaise with owners of forested land in relation to ongoing fire prevention works.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓			MFPO
<b>70.</b> FARSS & BMP	Identify Fire Access Road Subsidy Scheme and Bushfire Mitigation projects and apply for funding.	Farming & Rural Living Interface Living Township & Suburban Living	✓	✓			MFPO

<b>71.</b> Recovery Plans	DPI Response/REC Plans	Business & Community Activity Centres Interface Living	✓	✓		Warrnambool City Council	
<b>72.</b> Building Permits	Planning Schemes/Overlays	Business & Community Activity Centres Interface Living	✓	✓		Warrnambool City Council	
<b>73.</b> Vegetation management	Land care Vegetation Management Programs/Council weed management program	Business & Community Activity Centres Interface Living	✓		✓	Warrnambool City Council	
<b>74.</b> Infrastructure Risks	Infrastructure Partnership options – veg management, water	Business & Community Activity Centres Interface Living	✓	✓	✓	Warrnambool City Council	
<b>75.</b> Consequence Mapping	OESC Wildfire Infrastructure Risk Mapping	Industry & State Infrastructure All	✓	✓	✓	✓	Warrnambool City Council

## Attachment 3 – Statutory Obligations – Hazardous Trees

### Hazard Trees

The Electricity Safety Act 1998 (Vic) (**ES Act**) provides that a municipal council must specify, within its Municipal Fire Management Plan:

- (a) procedures and criteria for the identification of hazard trees; and
- (b) procedures for the notification of responsible persons of trees that are hazard trees in relation to electric lines for which they are responsible.

#### What is a hazard tree?

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

The Electricity Safety (Electric Line Clearance) Regulations 2010 (**the Regulations**) further provide that a responsible person may cut or remove such a tree 'provided that the tree has been assessed by an experienced horticulturist; and that assessment confirms the likelihood of contact with an electric line having regard to foreseeable local conditions.'

Due to legal requirements which require a clearance space be maintained around an electric line, hazard trees are usually located outside the regulated clearance space. Despite being outside the clearance space, the tree may still have the potential to contact the line due to its size or because of a structural fault or weakness which renders part, or all, of the tree likely to contact or fall onto the line.

#### Who is responsible for a hazard tree?

Under the ES Act, the person responsible for maintaining vegetation and clearance space around power lines is referred to as the 'responsible person'. This includes responsibility for keeping the whole or any part of a tree clear of the line.

Under the ES Act, responsibility is allocated between distribution businesses and other owners of electricity infrastructure, land owners and occupiers, public land managers such as municipal councils and VicRoads.

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

## **Notification of a Hazard Tree:**

In the course of everyday duties, potentially hazardous trees may come to the attention of staff or volunteer members of the entities with representation on the Municipal Fire Management Planning Committee, staff of the distribution business(es) or other persons, including members of the public.

All notifications, from the public, business or WCC staff are logged on the Customer Request System stating

- **name and contact details of the person lodging the request**
- **the location of the tree**
- **description of the tree**
- **the concern and proximity to the power line**
- **indication of urgency**

### **Primary Responsible Person Representative (1):**

Terry O'Sullivan Parks and Recreation Officer  
Tel: 555 94 970 Fax: 555 94 900

Email: [tosullivan@warrnambool.vic.gov.au](mailto:tosullivan@warrnambool.vic.gov.au)

### **Responsible Person (2):**

Mark Mirtschin Service Manager Parks and Gardens  
Tel: 555 94 678 Fax: 555 94 900

Email: [mmirtschin@warrnambool.vic.gov.au](mailto:mmirtschin@warrnambool.vic.gov.au)

## **Distribution Business Contact Details For Hazard Tree Notifications**

Powercor supply a hazard tree notification form on the webpage. Follow the steps below to access:

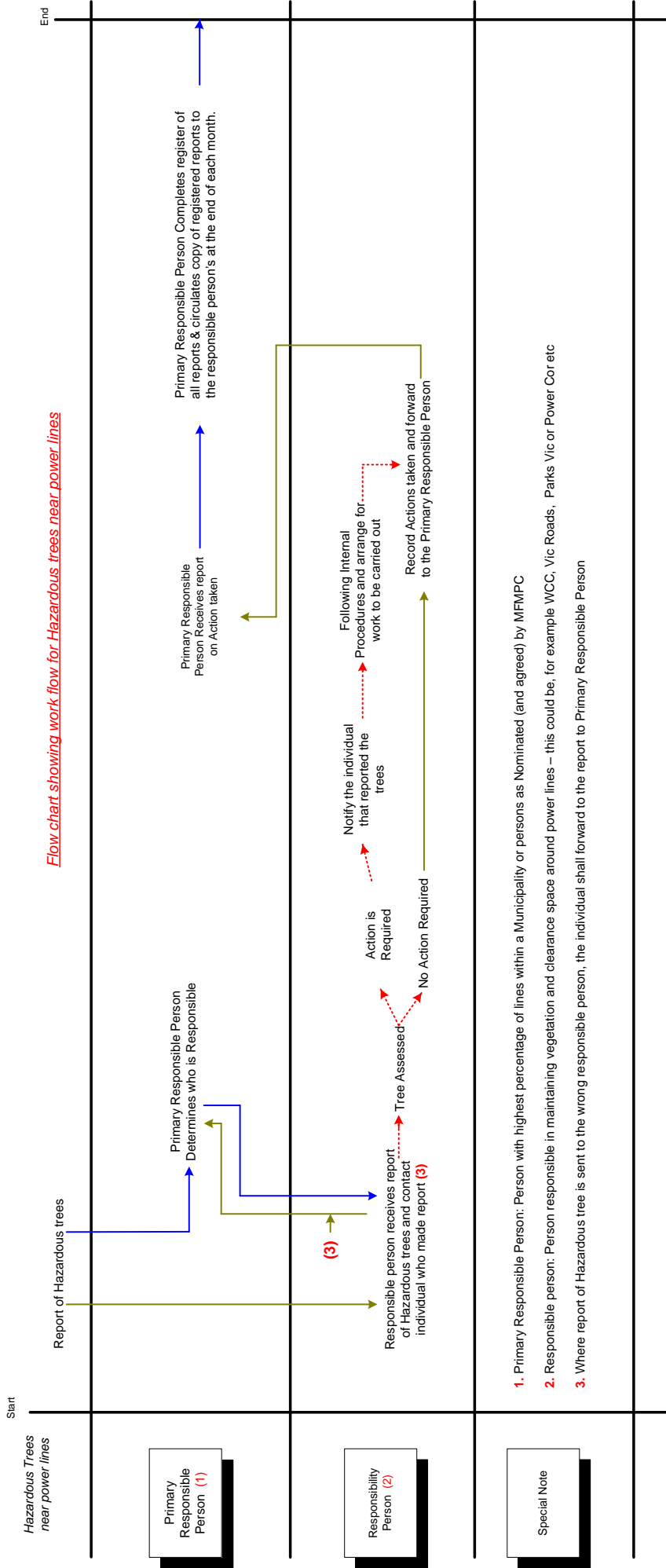
**Log onto:** [www.powercor.com.au](http://www.powercor.com.au) and click on the powercor page

**Type (power lines) into the search box**

**Click on powercor vegetation management**

**Click on related links – municipal tree hazard notification form**

Vemco  
Tel: B/H 5338 3300 A/H Powercor 13 24 12  
Email: [bavemco@vemco.com.au](mailto:bavemco@vemco.com.au)



## Attachment 3.1 – Township Protection Plans & NSP's

### Township Protection Plans

Township protection plans are currently being developed for 2011/2012 fire season for:

- Woodford/Bushfield
- Allansford

### Neighbourhood Safer Places / Place of Last Resort

There are 8 neighbourhood safer places – places of last resort within Warrnambool City and are at the following locations:

- East Warrnambool football club Cramer St
- Mack Oval Grafton Rd
- Reid Oval entrance Coulstock St
- Walter Oval Coulstock St
- EJ King Reserve Simpson St
- Merrivale Recreation Reserve Merrivale Dr
- Davidson Oval Caramut Rd
- Lake Pertobe Play Ground Pertobe Rd



Audit completed with all sites meeting compliance August 2013



## Attachment 4- Warrnambool MFMP Committee Membership

Name	Agency	Contact Details
Peter McArdle Municipal Fire Prevention Officer (MFPO) (Chair person)	Warrnambool City Council	<a href="mailto:pmcardle@warrnambool.vic.gov.au">pmcardle@warrnambool.vic.gov.au</a> 0419 109 408
Peter Robertson Municipal Emergency Resource Officer (MERO)	Warrnambool City Council	<a href="mailto:probertson@warrnambool.vic.gov.au">probertson@warrnambool.vic.gov.au</a>
Jacinta Ermacora Councilor	Warrnambool City Council	<a href="mailto:jermacora@warrnambool.vic.gov.au">jermacora@warrnambool.vic.gov.au</a> 0400 155 180
Terry O' Sullivan	Warrnambool City Council	<a href="mailto:tosullivan@warrnambool.vic.gov.au">tosullivan@warrnambool.vic.gov.au</a> 555 94 970
Henry Barton Operations Officer / OIC Warrnambool	Country Fire Authority	<a href="mailto:h.barton@cfa.vic.gov.au">h.barton@cfa.vic.gov.au</a> 0428 129 292
Max Smart	Brigade Representative Warrnambool	126 Skene St Warrnambool 03 5561 6539
Stephen O'Keefe	Brigade Representative Warrnambool	<a href="mailto:okeefebuilder@bigpond.com">okeefebuilder@bigpond.com</a> 0427 621 909
Peter Logan	Brigade Representative Allansford	141 Tooram Rd Allansford 3277 5565 1314 / 0448 651 331
Graeme Crothers	Brigade Representative Woodford	<a href="mailto:gicrothers@westvic.com.au">gicrothers@westvic.com.au</a> 0418 659 472
Ben Hammond	Ranger in Charge Parks Victoria	<a href="mailto:bhammond@parks.vic.gov.au">bhammond@parks.vic.gov.au</a> 0488 312 300
Jarrod Hayse District Fire Manager FSW	DSE	<a href="mailto:jarrod.hayse@dse.vic.gov.au">jarrod.hayse@dse.vic.gov.au</a> 0438 059 244
Sally Obst	Wannon Water	<a href="mailto:Sally.obst@wannonwater.com.au">Sally.obst@wannonwater.com.au</a> 0400994578
<b>State Fire Management Planning Support Team</b>		

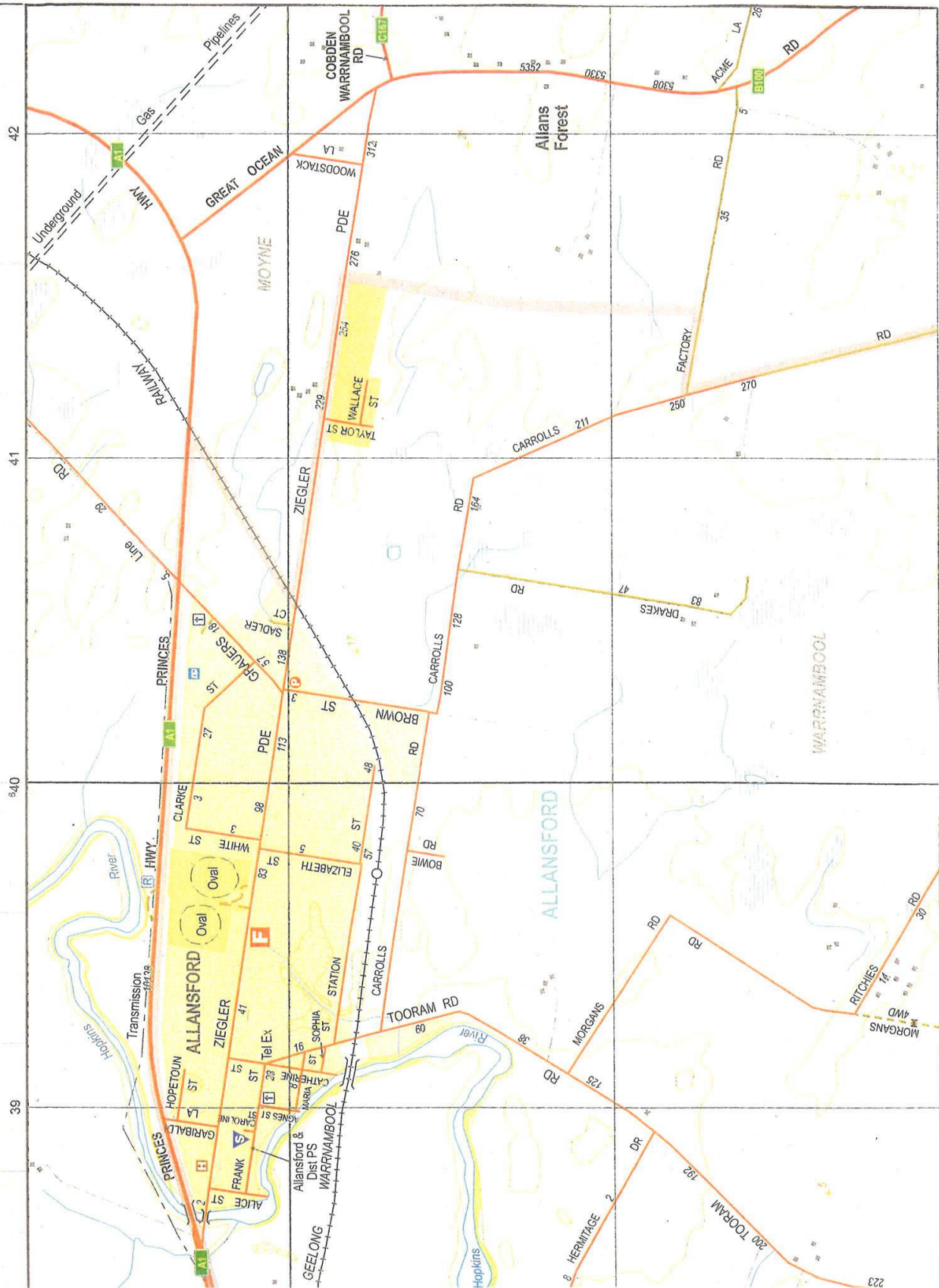
**Attachment 4.1 - WCC MFMPC Stakeholder & Engagement Matrix**  
(Endorsed 14-4-11)

<b>Level of Engagement</b>				
<b>Primary Stakeholders</b>	<b>Attend all MFMPC Meetings</b>	<b>Participation in all MFMPC projects</b>	<b>Receive Minutes</b>	<b>Receive Regional Communiqué</b>
City of Warrnambool	✓	✓	✓	✓
CFA	✓	✓	✓	✓
CFA Group Delegates	✓	✓	✓	✓
DSE	✓	✓	✓	✓
Parks Victoria	✓	✓	✓	✓
<b>Secondary Stakeholders</b>	<b>Attend MFMPC meetings as required</b>	<b>Participation in MFMPC Projects as required</b>	<b>Receive Minutes</b>	<b>Receive Regional Communiqué</b>
Ambulance Vic	✓	✓		✓
DHS	✓	✓		✓
VICPOL	✓	✓		✓
SES	✓	✓		✓
DPI	✓	✓		✓
Water Authorities	✓	✓		✓
CMA	✓	✓		✓
Powercor	✓	✓		✓
DEECD	✓	✓		✓
Gas Authorities/Providers	✓	✓		✓
Dept of Transport	✓	✓		✓
Telecommunication Providers	✓	✓		✓
Vic Roads	✓	✓		✓
V Line	✓	✓		✓
Rail Authorities	✓	✓		✓
RDV	✓	✓		✓
Committees of Management	✓	✓		✓
VFF	✓	✓		✓
DPCD	✓	✓		✓
<b>Tertiary Stakeholders</b>	<b>Chair/Delegate &amp; Executive Officer Meet as required</b>	<b>Involved/informed regarding MFMPC Projects as required</b>	<b>Receive Minutes</b>	<b>Receive Regional Communiqué</b>
Tourism Providers	✓	✓		✓
Industry Groups	✓	✓		✓
Public Interest Groups	✓	✓		✓
Media	✓	✓		✓
AAV	✓	✓		✓
Indigenous Groups / Traditional Owners	✓	✓		✓

# Attachment 5 - Mapping

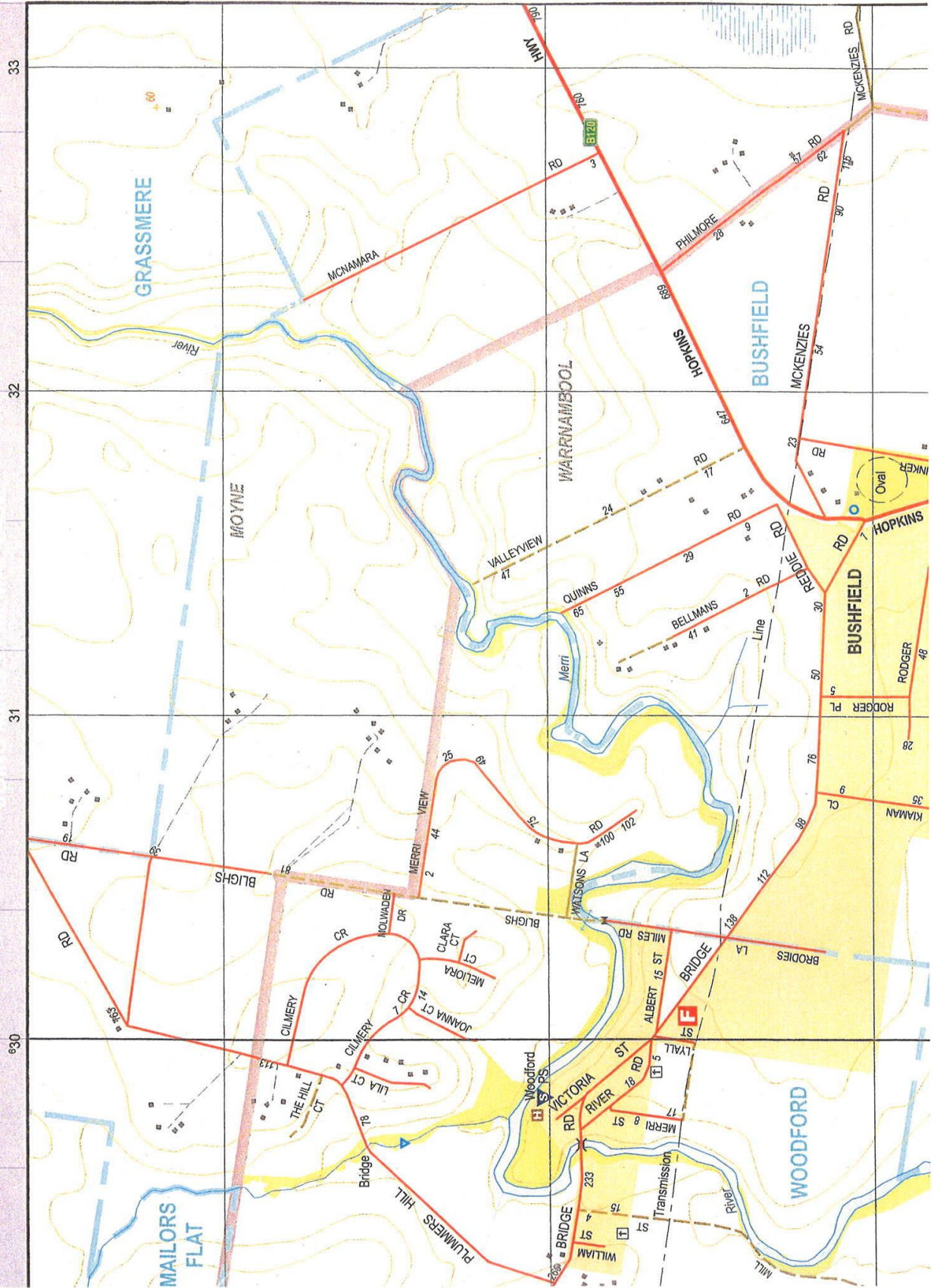
## Allanston

(UTM Zone 54) Map 538, 6848, 6849



# Woodford - Bushfield

[UTM Zone 54] Map 537, 538, 6847, 6848

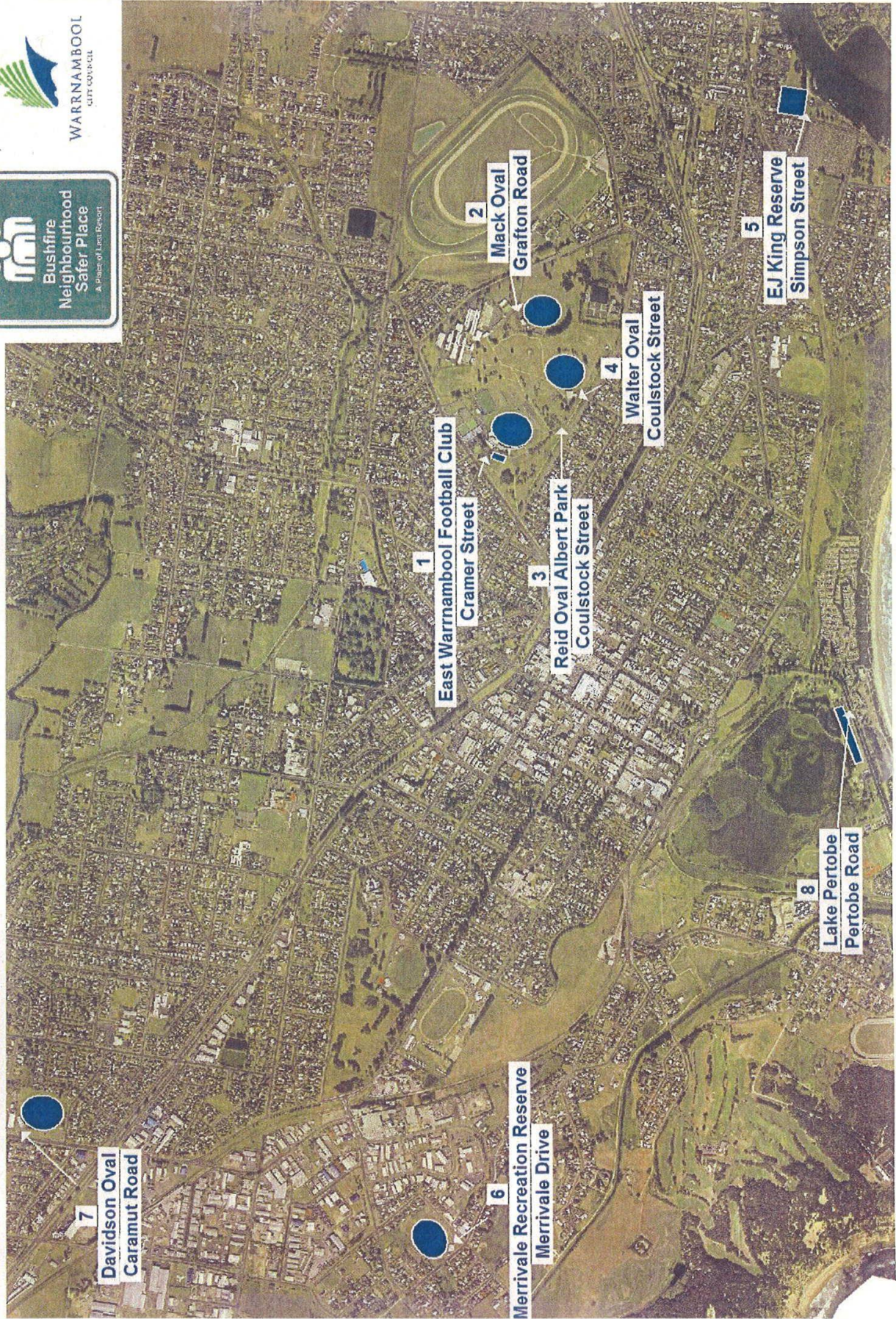








# Bushfire Neighbourhood Safer Places - Warrnambool City





## Attachment 6 - Fire Management Planning Tools & Related Plans

	Owner:	Responsible Person:
<b>Prevention:</b>		
<ul style="list-style-type: none"> <li>Municipal Fire Prevention Plan Warrnambool City Council</li> </ul>	WCC	MFPO
<b>Preparedness</b>		
<ul style="list-style-type: none"> <li>Township Protection Plan- Woodford/Bushfield Township</li> <li>Primary, Secondary &amp; Tertiary Strategic Fuel Breaks</li> <li>Victorian Fire Risk Register &amp; wildfire document.</li> <li>Neighbourhood Safer Place – Places of Last Resort Plan</li> <li>Fire Prevention Works Program</li> <li>Fire Operations Plan</li> <li>Fire Management Plan</li> <li>DSE-CFA Resources Manual</li> <li>CFA-DSE Local Mutual Aid Plan</li> </ul>	CFA CFA CFA WCC WCC DSE DSE DSE CFA	OM Region 5 MCS MCS MFPO MFPO Fire Manager Fire Manager Fire Manager Operations Manager
<b>Response</b>		
<ul style="list-style-type: none"> <li>Brigade Response Boundaries Map</li> <li>Wildfire Response Plans</li> <li>Infrastructure Response Plan A eg. A Manufacturing Plan <i>(to be included when structural and Hazmat risk environments are fully considered)</i></li> </ul>	CFA CFA CFA	OM Region 5 OM Region 5 OM Region 5
<b>Recovery</b>		
<ul style="list-style-type: none"> <li>R2D5 Recovery Plan</li> <li>Relief Centre</li> <li>Recovery Centres</li> </ul>	DHS WCC WCC	EM Coordinator MRM MRM

## Attachment 7 - Glossary & Acronyms

<b>Acceptable risk</b>	The level of potential losses that a society or community considers acceptable, given existing social, economic, political, cultural, technical and environmental conditions.
<b>Assets and values<sup>1</sup></b>	Recognised features of the built, natural and cultural environments. Built assets may include buildings, roads and bridges; structures managed by utility and service providers; or recognised features of private land, such as houses, property, stock and crops and associated buildings and equipment. Natural assets may include forest produce, forest regeneration, conservation values including vegetation types, fauna, air and water catchments*. Cultural values may include recreational, Indigenous, historical, archaeological and landscape values.
<b>Assumption</b>	A conclusion that is reached based on the information available at the time.
<b>Community</b>	A group of people with a commonality of association and generally defined by location, shared experience or function.
<b>Community based disaster risk management<sup>3</sup></b>	A process that seeks to develop and implement strategies and activities for disaster preparedness (and often risk reduction) that is locally appropriate and locally 'owned'.
<b>Consequence</b>	Outcome or impact of an event.
<b>Critical infrastructure</b>	<p>Critical infrastructure includes those services, physical facilities, supply chains, information technologies and communication networks that, if destroyed, degraded or rendered unavailable for an extended period, would significantly impact on the social or economic well-being of the community.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>• telecommunications</li> <li>• electrical power systems</li> <li>• gas and oil storage and transportation</li> <li>• banking and finance</li> <li>• transportation</li> <li>• water supply systems (and sewerage).</li> </ul> <p>Adapted from Critical Infrastructure Advisory Council (CIAC).</p>
<b>Elements at risk</b>	The population, buildings and civil engineering works, economic activities, public services and infrastructure etc. exposed to sources of risk.
<b>Emergency</b>	An event, actual, or imminent that endangers or threatens to endanger life, property or the environment, and that requires a significant and coordinated response.

<sup>1</sup> Code of Practice for Emergency Management on Public Land

<b>Essential service (Essential Services Commission Act 2001)</b>	A service (including the supply of goods) provided by: <ul style="list-style-type: none"> <li>• the electricity industry</li> <li>• the gas industry</li> <li>• the ports industry</li> <li>• the grain handling industry</li> <li>• the rail industry</li> <li>• the water industry</li> <li>• (g) any other industry prescribed for the purpose of this definition.</li> </ul>
<b>Event</b>	Occurrence of a particular set of circumstances. An incident or situation that occurs in a particular place during a particular interval of time.
<b>Frequency</b>	A measure of the number of occurrences per unit of time.
<b>Fire</b>	Comes under the definition of an Emergency. The Emergency Management Act 1986 defines 'emergency' as: "... the actual or imminent occurrence of an event which in any way endangers or threatens to endanger the safety or health of any person in Victoria or which destroys or damages, or threatens to destroy or damage, any property in Victoria or in any way endangers or threatens to endanger the environment or an element of the environment in Victoria, including, without limiting the generality of the foregoing and specific to integrated fire management and therefore includes: <ul style="list-style-type: none"> <li>• A fire; and</li> <li>• An explosion,</li> <li>• A road accident or any other accident,</li> <li>• A disruption</li> </ul>
<b>Hazard</b>	A source of potential harm or situation with a potential to cause loss. A potentially damaging physical event that may cause loss of life or injury, property damage, social and economic disruption or environmental degradation. <sup>2</sup>
<b>Impact</b>	See consequence.
<b>Leadership group</b>	A subgroup of the broader committee comprising the risk category, technical knowledge and experience.
<b>Likelihood</b>	Used as a general description of probability or frequency – can be expressed qualitatively or quantitatively.
<b>Loss</b>	Any negative consequence or adverse effect – financial or otherwise.
<b>Mitigation</b>	Measures taken in advance of a disaster, aimed at decreasing or eliminating its impact on society and environment.
<b>Monitor</b>	To check, supervise, critically observe or measure the progress of an activity, action or system on a regular basis in order to identify change from the performance level required or expected.

<sup>2</sup> ISDR, 2008. Climate Resilient Cities

<b>Organisation</b>	Group of people and facilities with an arrangement of responsibilities, authorities and relationships.
<b>Practicable<sup>3</sup></b>	What is realistic to achieve in the context of: <ul style="list-style-type: none"> <li>▪ the severity of the hazard or risk in question</li> <li>▪ the state of knowledge about that hazard or risk and any ways of</li> <li>▪ removing or mitigating that hazard or risk</li> <li>▪ the availability and suitability of ways to remove or mitigate that hazard or risk</li> <li>▪ the cost of removing or mitigating that hazard or risk.</li> </ul>
<b>Preparedness</b>	Arrangements to ensure that in the event of an emergency occur all those resources and services that are needed to cope with the effects can be efficiently mobilised and deployed.
<b>Prevention</b>	Regulatory and physical measures to ensure that emergencies are prevented, or their effects mitigated.
<b>Probability</b>	A measure of the chance of occurrence expressed as a number between 0 and 1. 'Frequency' or 'likelihood' rather than 'probability' may be used in describing risk. The likelihood of a specific outcome, as measured by the ratio of specific outcomes to the total number of possible outcomes. Probability is expressed as a number between zero and unity – zero indicating an impossible outcome and unity indicating an outcome that is certain. Probabilities are commonly expressed in terms of percentage e.g. the probability of throwing a six on a single roll of a die is 1 in 6, or 0.167, or 16.7 per cent.
<b>Recovery</b>	The coordinated process of supporting emergency affected communities in the reconstruction of the physical infrastructure and restoration of emotional, social, economic and physical wellbeing.
<b>Residual risk</b>	Risk remaining after implementation of risk treatment.
<b>Resilience</b>	The capacity of a system, community or society potentially exposed to hazards to adapt, by resisting or changing in order to reach and maintain an acceptable level of functioning and structure. This is determined by the degree to which the social system is capable of organizing itself to increase its capacity for learning from past disasters for better future protection and to improve risk reduction measures <sup>4</sup>
<b>Response</b>	Actions taken in anticipation of, during and immediately after an emergency, to ensure its effects are minimised and that people affected are given immediate relief and support.
<b>Risk</b>	The chance of something happening that will have an impact on objectives.  The probability of harmful consequences resulting from interaction between natural or human-induced hazards and vulnerable conditions <sup>6</sup> .
<b>Risk analysis</b>	Systematic process to understand the nature of, and deduce, the level of risk.

<sup>3</sup> Dangerous Goods (Storage and Handling) Regulations 2000  
S.R. No. 127/2000

<sup>4</sup> UN/ISDR, Geneva 2004

<b>Risk assessment</b>	The overall process of risk identification, analysis and evaluation
<b>Risk criteria</b>	Terms of reference by which the significance of risk is assessed.
<b>Risk evaluation</b>	Process of comparing the level of risk against risk criteria.
<b>Risk identification</b>	The process of determining what, where, when, why and how something could happen.
<b>Risk management</b>	The culture, process and structures that are directed towards realising potential opportunities whilst managing adverse effects.
<b>Risk management process</b>	The systematic application of management of policies, procedures and practices to the tasks of communicating, establishing the context, identifying, analysing, evaluating, treating, monitoring and reviewing risk.
<b>Risk reduction</b>	Actions taken to lessen the likelihood, negative consequences, or both, associated with a risk.
<b>Risk register</b>	A listing of risk statements describing sources of risk and elements at risk, with assigned consequences, likelihoods and levels of risk.
<b>Risk treatment</b>	Process of selection and implementation of measures to modify risk. The term 'risk treatment' is sometimes used for the measures themselves.
<b>Source of risk</b>	Source of potential harm.
<b>Stakeholders</b>	Those people and organisations who may affect, be affected by, or perceive themselves to be affected by a decision, activity or risk.
<b>Susceptibility</b>	The potential to be affected by loss.
<b>Tolerable Risk</b>	A risk within a range that society can live with so as to secure certain net benefits. It is the range of risk regarded as non-negligible and needing to be kept under review and reduced further if possible.
<b>Treatment</b>	An existing process, policy, device, practice or other action that acts to minimise negative risk or enhance positive opportunities. The word control may also be applied to a process designed to provide reasonable assurance regarding the achievement of objectives.
<b>Treatment (adequacy) assessment</b>	Systematic review of processes to ensure that controls are still effective and appropriate.
<b>Vulnerability</b>	The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards. <sup>5</sup>
<b>Vulnerable people (DHS definition)</b>	Those living in high bushfire risk areas and who are unable to make an independent decision, including due to cognitive impairment; physically dependant and totally reliant on in home personal care and support; and people who live alone and are geographically and socially isolated with no co-resident carer or family.

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<sup>5</sup> UN/ISDR, Geneva 2004

## Acronyms

<b>BSW</b>	Barwon South West
<b>CFA</b>	Country Fire Authority
<b>IAP2</b>	International Association of Public Participation
<b>IFMP</b>	Integrated Fire Management Planning
<b>MEMP</b>	Municipal Emergency Management Plan
<b>MEMPC</b>	Municipal Emergency Management Planning Committee
<b>MFMC</b>	Municipal Fire Management Consultative Committee
<b>MFMP</b>	Municipal Fire Management Plan
<b>MFMP</b>	Municipal Fire Management Planning Committee
<b>MFPC</b>	Municipal Fire Prevention Committee
<b>MFPO</b>	Municipal Fire Prevention Officer
<b>MFPP</b>	Municipal Fire Prevention Plan
<b>MWG</b>	Municipal Working Group
<b>NSP</b>	Neighbourhood Safer Place
<b>RSFMPC</b>	Regional Strategic Fire Management Planning Committee
<b>SFMP</b>	State Fire Management Planning Committee
<b>TPP</b>	Township Protection Plan
<b>VFRR</b>	Victorian Fire Risk Register
<b>WCC</b>	Warrnambool City Council

## Attachment 8 - Bibliography