



Southern Grampians Shire Council Municipal Fire Management Plan 2019-2022



Document Control

VERSION CONTROL

Version	Release Date	Author	Changes
1	21 June 2012	N McFarlane on behalf of the MFMP	Full version
2	March 2017	Chris Huggins behalf of the MFMP	Revision minor changes and update contact details
3	January 2019	Bruce Farquharson	Title correction, moderate update, contact and organisation details. Appendix A, B update. Add MFMP key action summary, roadside works.

AMENDMENT RECORD

Amendment No	Author	Pages Numbers Amended	Release Date
1	Wayne Evans	66-68	1/10/2012

Foreword by Mayor

It is with pleasure I present the Southern Grampians Municipal Fire Management Plan, a truly Integrated Fire Management Plan developed collaboratively by all the member agencies on the Southern Grampians Municipal Fire Management Planning Committee.

This Plan is an extremely important document especially in light of the events of Black Saturday. We all know the devastation, pain and grief caused on this day and other incidents since. We are all aware of the urgent need to ensure the Southern Grampians Shire Council has an effective Fire Management Plan.

The local Government area of Southern Grampians provides the municipal “footprint” for the geographical area covered by this Plan. However, the Plan articulates and collates fire management planning processes and activities across a range of agencies and provides strategic links to the Barwon South West Region. This second phase of integrated fire management planning demonstrates a partnership and commitment to cooperation from a wide range of agencies. The plan is not only integrated across agencies, but also across fire risk environments as it supports planning for bushfire as well as structural fire and hazardous substance incidents.

The Fire Management Plan is overseen by the Southern Grampians Municipal Fire Management Planning Committee, a sub-committee of the Southern Grampians Shire Council’s Emergency Management Planning Committee. All agencies involved in this plan are a part of the Emergency Management Planning Committee to ensure a coordinated approach across the planning continuum.

Fire knows no boundaries. While this is an obvious statement, it illustrates the need for an all agencies, all hazards approach to fire prevention and management. This Plan puts in place systems and processes that ensure the cooperation of all emergency, fire agencies and Southern Grampians Shire Council for a truly incorporated approach to fire management across the Local Government Area.

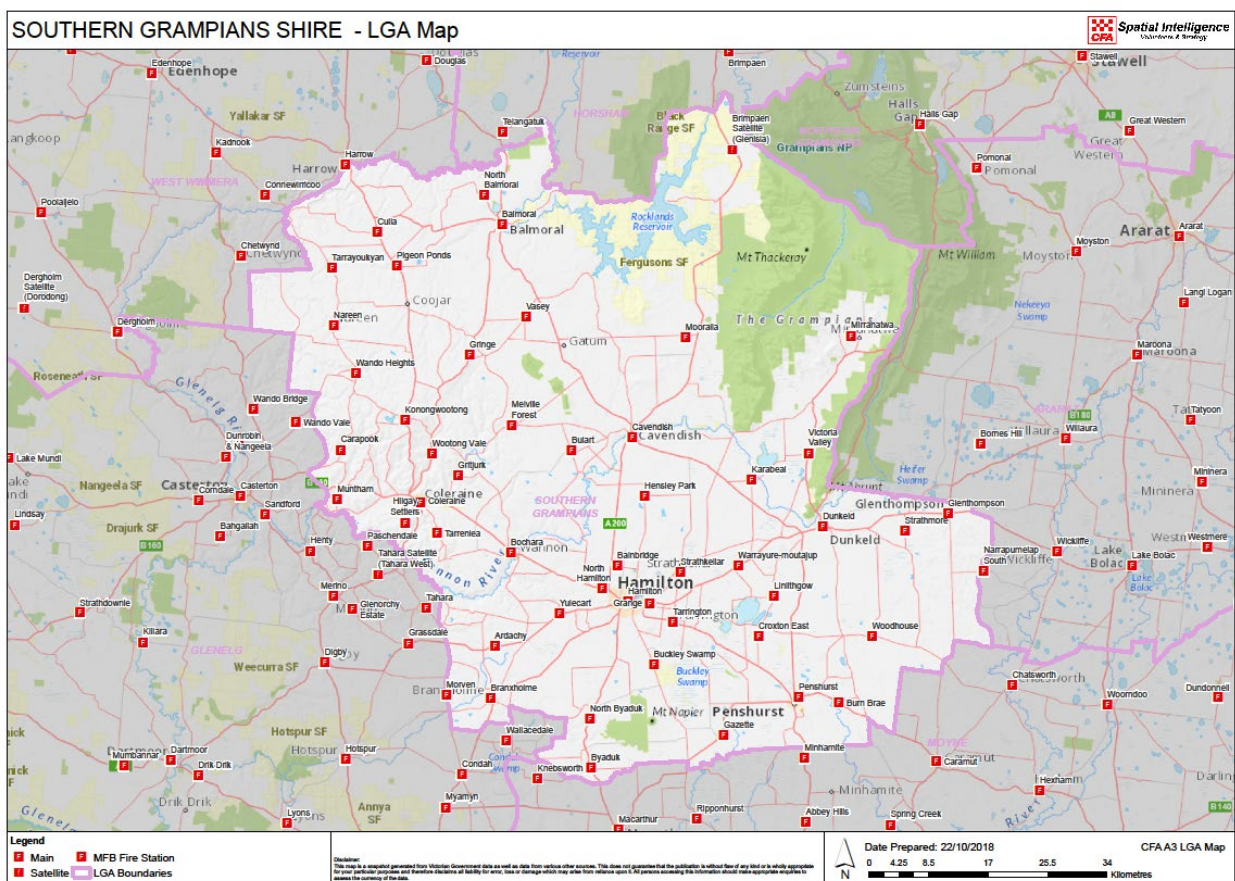
I commend this Plan and wish all Shire residents, fire management agencies and cooperating planning partners all the very best in their endeavours towards creating a resilient and fire safe community.

Cr Mary-Ann Brown.
Mayor Southern Grampians Shire Council 2019

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Authorisation and Endorsement

This Municipal Fire Management Plan was adopted by Southern Grampians Shire Council as the Southern Grampians Shire Fire Management Plan in partnership with the agencies listed below.

Southern Grampians Shire Council: CEO on behalf of Council

Michael Tudball

CFA Regional Manager:

Department of Environment, Land, Water and Planning:
(Forest Fire Management Victoria)

Parks Victoria: Chief Ranger

Regional Roads Victoria: Regional Director

Victoria Police: Regional Emergency Manager. Inspector
Michelle Henderson

Wannon Water: Managing Director

Department of Health and Human Services

Matt Chamberlain:

MEMPC Chairman:

MFMPCC Chairman:

Note: original signatures received as dated are on Southern Grampians Shire file copy

Section 1 Introduction

We live in a bush 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.

Reducing the likelihood and impact of bush, grass, structural and chemical incidents is a shared responsibility between Government, lead agencies, industry and the community.

Parties to this plan have a duty of care to the community they serve to identify risks. Identified risks need a response to be developed, adopted and implemented in a timely manner. To achieve this requires integrated fire management planning. This Municipal Fire Management Plan has been developed to assist stakeholders to meet their obligations together and support the development of safer environments at a local level.

This plan uses a ground up approach to guide agencies, municipalities, key stakeholders and the local community to understand and manage priority structural and chemical, bush and grass fire risks at a local level. Aggregation of the local information and activities from this and other local plans is considered paramount to manage contiguous risks that span across local areas, municipal boundaries and broader landscapes.

This approach follows the values based decision making process to identify and manage priority risks, consistent with the other sections of this MFMP. Each priority value, risk and action/treatment are identified and mapped to inform decision making processes and to represent changes in risk ratings over time. Desired outcomes and continual improvement processes are also provided to demonstrate how the implementation of this plan will reduce risks, continually improve and report residual risk levels.

Relevant Barwon South West Regional Strategic Fire Management Plan (BSW RSFMP) regional priorities, objectives, processes and activities used to manage large scale risks and events throughout the region are referenced to integrate Fire Management Planning (IFMP) information and implementation at regional and local level.

The MFMP, as a sub plan of the Southern Grampians Shire Municipal Emergency Management Plan, is risk based and has been developed using principles outlined in the 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 fires in the geographic area of Southern Grampians Shire, including 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 pathway to influence the fire management planning process. This ensures that the Southern Grampians Shire MFMP is able to understand and respond to the community's needs, values and perceived risks.

Multi agency Municipal Fire Management Planning Committee (MFMPC) members will cooperatively 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 organisation's 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

This Southern Grampians Shire MFMP needs to be considered as an evolutionary process. The MFMP incorporates the Municipal Fire Prevention Plan, required by S55A of the CFA Act, under the guidance and leadership of the Municipal Fire Management Planning Committee who have the responsibilities of the Municipal Fire Prevention Committee set out in S55 of the CFA Act. The MFMPC is a sub-committee of the Municipal Emergency Management Committee (MEMPC).

This MFMP replaces the MFMP 2013 – 2016. An operating draft has been in place from that time.

Authority for Plan

This Municipal Fire Management Plan (MFMP) has been produced by and with the authority of the Southern Grampians Shire Council pursuant to Section 20 of the Emergency Management Act 1986; and will be deemed to fulfil Section 55A of the CFA Act 1958. The MFMP is a sub plan of the Southern Grampians Shire 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 36 months commencing from the date of Council adoption of the plan (page 6), unless replaced earlier. New requirements are expected in 2020 and so will necessitate a change to the plan.

Planning Process

This MFMP has been prepared by the Municipal Fire Management Planning Committee within the Southern Grampians Shire in accordance with the IFMP process.



Figure 2. Integrated Fire Management Planning process

The plan addresses both public and private land across the prevention, preparedness, response and recovery continuum. The integrated MFMP is audited every three years and will be updated as required to ensure it incorporates any new strategies, programs and tools developed by the State Fire Management Planning Committee (SFMPC) and the Barwon South West Regional Fire Sub Committee (BSW FSC) in addition to ensuring it meets the Municipal Fire Management Planning Committee and community needs and expectations.

The planning process is based on the identification and assessment of risks within the geographic area encompassed by the Southern Grampians Shire. For Bushfire this was undertaken utilising the Victorian Fire Risk Register (VFRR) process. The Municipal Fire Management Planning Committee validated this work, and will complete an analysis to establish priorities and developed a range of measures to mitigate the risk. These measures, or treatments, will then be linked to the appropriate agency plans. The measures and treatments identified as a part of this plan are directly translocated from the superseded Municipal Fire Management Plan, and as such will already be incorporated in relevant agency plans.

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 Southern Grampians Shire that relate to fire. Linkage to agreed work plans at the regional level is achieved through the agreed local work plans.

Stakeholder Analysis

The Southern Grampians Shire MFMP stakeholders are grouped into three categories Primary, Secondary and Tertiary which describes the level of participation in the development of the MFMP. See Attachment D.2 for the Southern Grampians Shire Municipal Fire Management Planning Committee Stakeholder Identification & Engagement Matrix.

Community and Organisational Engagement Process

The ability of a community to respond to a fire situation and in turn recover from the effects of a fire will depend on the attitude of the people affected, and as such varies widely. Achieving the most

effective response from people during a fire will require community and organisational engagement, education and awareness programs to be implemented for this purpose.

With this context in mind the Municipal Fire Management Plan aims to collate and integrate agency and Council prevention and awareness programs within the Southern Grampians Shire Municipal Area.

Key agencies include (but are not limited to):

- Country Fire Authority
- Parks Victoria
- Department of Environment, Land, Water and Planning
- Regional Roads Victoria
- Victoria Police
- Local Government

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

Section 2 Engagement and Communications

MFMP Engagement and Communications

The plan was written with the support of the Southern Grampians Shire Council Municipal Fire Management Committee. The includes the following stakeholders Southern Grampians Shire Council, Country Fire Authority, Department of Environment, Land, Water and Planning, Regional Roads Victoria, Victoria Police, Parks Victoria, Wannon Water and community members.

The MFMP Committee reviewed and endorsed the MFMP on 4 March 2019.

The Southern Grampians MEMPC was presented this plan at the 4 March 2019 meeting and the committee endorsed the MFMP 2019- 2022. This committee has a broader organisational representation that includes VICSES, Department of Health and Human Services, Department of Jobs, Precincts and Regions (DJPR), Department of Environment, Land, Water and Planning (DELWP), Australian Red Cross, Ambulance Victoria, Wannon Water as well as the aforementioned Southern Grampians Shire, CFA, and Vic Police,.

The Barwon South West Regional Fire Sub Committee Chair reviewed on the current Southern Grampians MFMP. The plan is presented to the Committee for noting.

The Authorisation page of the MFMP (page 6) commits each organisation in the plan to implement and report on the actions detailed within the plan.

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

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

Engagement with stakeholders is to be carried out in a manner that increases collaboration, empowerment and the stakeholder and community impact on decision making. The principles of the IAP2 Spectrum have been adapted to apply to this plan.

Inform

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

Consult

Utilise stakeholder expertise and diversity to obtain appropriate and accurate input into analysis, solutions and key decisions. Obtain stakeholder and community representative feedback on risk analysis and plans.
Engagement: Continue to inform. Listen to and acknowledge concerns and aspirations. Provide feedback on how input has influenced the plan.

Involve

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

Engagement: Work with stakeholders to ensure that identified issues and intent are reflected in plan development.

Collaborate

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

Engagement: Obtain and use stakeholder expertise, local knowledge and recommendations to the maximum extent possible.

Empower

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

Engagement: Stakeholders decide what is incorporated in the plan.

The closer toward empowering, the greater the impact of the plan.

Organisations in the MFMPC have engagement in the involve / collaborate / empower range.

CFA brigades have engagement in the consult / involve range. The Brigade advisory committee is a key component of this engagement.

Communities have engagement that ranges from inform to collaborate. This includes community representatives on the MFMPC.

Section 3 Summary of the Environmental Scan

Location and land tenure

The Southern Grampians Shire Municipal Fire Management Planning Committee is located in South Western Victoria and is a part of the Barwon South West Region. The land area of the Southern Grampians Shire is 665,100 hectares. Estimates of the area ascribed to various land managers are outlined in Table below

Table: Southern Grampians Shire Land Managers

Land owner/manager	Hectares	% of total
Crown Land (comprising below)	147,440	22
(DEWLP COM)	(70,660)	(10.6)
(SGSC COM (on Crown land))	(670)	(0.1)
(Parks (state and national))	(67,790)	(10.1)
(other eg road reserves)	(8,320)	(1.2)
Southern Gramps Shire owned land	700	1
Private	515,060	77
Total shire	665,100	100

(Areas and percentages are estimates)

Natural environment

The Shire straddles the northern limit of the Otway Basin and is composed of portion of four physiographic units. Western Volcanic plains cover the area south of Hamilton, which being under the influence of the sea some 60kms away, tends to remain green longer than the northern region. Light red gum country to the north and west embraces significant areas of the Grampians and deeply dissected Dundas and Merino Tablelands.

Most of the area is drained by the Wannon and Glenelg river systems with some notable wetlands around the margin of the Grampians and lakes on the eastern side. Major natural features of the shire include Grampians National Park, Mount Napier State Park, Byaduk Caves, Nigretta Falls, Wannon Falls, Rocklands Reservoir, Lake Linlithgow, Wannon River and the Glenelg River.

Climate and bushfire season

The area enjoys a moderate climate with rainfall varying from 508mm to 890mm per year, occurring primarily from autumn to spring and the bushfire season generally runs from December to April. The area has a temperate climate with average minimum temperature being 7.5°C and maximum average being 19.1°C and average rainfall of 703mm.

Prevailing fire weather conditions associated with the bushfire season in the Southern Grampians Shire local government area are north westerly winds accompanied by high daytime temperatures and low relative humidity typically followed by south westerly wind changes. Furthermore dry lightning storms are also typical during this season.

Built Environment

Our community enjoys living here. Residents describe the Shire as very liveable. The notion of “liveability” has become prominent in recent years. Liveability is often used to describe and compare global cities in an international context and Australia’s entire State capital cities rate very highly (top 50) in this kind of analysis.

The major urban population of the shire footprint is located within the city of Hamilton and smaller regional centres of Dunkeld, Glenthompson, Peshurst, Coleraine, Balmoral, Cavendish, Branxholme and Tarrington.

Land use and Economy

The shire’s rich soils and reliable rainfall provides the basis for cattle and prime lamb grazing, cropping, wool production, thriving timber plantation/harvesting and viticulture. The region is responsible for the highest levels of agricultural production in dairy, wool and meat in Victoria.

The existing 550KV power line to Portland provides an opportunity for Great South Coast (GSC) wind energy facilities to contribute an additional 3000-4000MW of power to the national grid and this is increasing. The region has increasingly become a major contributor to the state’s electricity supply. It has been identified that most of Victoria’s wind power generation will occur in western and south western Victoria. South West Victoria currently accounts for a significant number of the total wind farms in Victoria.

Population and demographic information

The Southern Grampians Shire is located in south west Victoria. It covers over 6,652 square kilometres taking in the major urban city of Hamilton and smaller regional centres of Dunkeld, Glenthompson, Peshurst, Coleraine, Balmoral, Cavendish, Branxholme and Tarrington. The Southern Grampians Shire is a tourism hub with many natural attractions including the Grampians National Park, parkland and rivers. The shire has a population of 16,510.

Southern Grampians Shire is located about 290 kilometres west of Melbourne. It is bounded by Horsham Rural City and Northern Grampians Shire in the north, Ararat Rural City in the east, Moyne Shire in the south, and Glenelg and West Wimmera shires in the west. The original inhabitants of the Southern Grampians area were the Bunganditj, Gunditjmara and Tjapwurong Aboriginal people. European settlement dates from 1837, with land used mainly for grazing. Growth was minimal until the 1850s when several townships were established. Substantial expansion took place from the 1880s into the early 1900s, aided by the construction of the railway line and the opening up of land. The most significant development occurred in the immediate post-war years. The population slowly declined from the late 1970s. The population declined slightly during the 1990s, from nearly 18,000 in 1991 to about 16,500 in 2001. The population was then relatively stable between 2001 and 2006.

The Shire is predominantly rural in nature with supporting services in small towns. Farming industries have traditionally been sheep and cattle, but in recent years there has been diversification into cropping, plantation forestry and other primary industries. New industry has brought further

diversification to the area, including Mineral Sand Mining and Processing, and Alternative Energy (wind farming).

The age composition for the Southern Grampians LGA identifies that the shire has a greater percentage (5.1% higher) of persons aged 65 and over than the percentage of persons in this aged group for Victoria and (5.5% higher) for Australia. This composition impacts on the median age for the Shire which is 42 years, 5 years higher than the Victorian and National median.

Southern Grampians Shire population is predicted to marginally increase to 17,709 by the year 2026 (which equates to an increase of 522 persons over twenty years from 2006). The migration into the Western District Statistical Division is forecast to occur from natural increases i.e. births and deaths of 39%, overseas migration 50% and migration from Melbourne of 39% less migration out to other regions/interstate of (28%)².

Fire History

Fire history within the shire dates back as far as 1896 with a fire recorded as impacting on Byaduk. Major fires in the municipal district on several occasions, particularly 1940, 1944, 1977, 1983, and 2009 have caused hardship within the local communities.

The Table below summarises fires that have had a significant impact on the Municipal area.

Year	Date	Comment (indicates areas outside shire)
1896	Jan 6-10	Fires affected Byaduk, (Merino & Macarthur) considerable losses of stock, timber, fencing and homesteads
1900	Jan 17	Extensive fires at Coleraine, Hamilton
1920	Feb 16	Extensive fire at Dunkeld
1923	Jan 22-23	Penshurst fire burnt out 28,000ha
1940	March 13	Large grass fires including Dunkeld (Mortlake and Camperdown) 70,000 sheep were lost and a monetary cost estimated at £400,000
1942	Jan 7	Penshurst 4000ha burnt
1944	Jan 14	Three large fires originated near (Skipton, Lake Bolac and) Dunkeld, joined to become one large fire destroying 440,000ha. Damage was estimated at £3 million (\$18-20 million present day) 15 people lost their lives
1955	Jan 2-3	Fires burnt around Coleraine (and Casterton) resulting in 1 fatality, 40,000ha burnt and damage of £400,000
1960's		Structure fire in the CBD of Hamilton effecting the buildings occupying the corner of Brown and Gray Streets
1977	Feb 12	Byaduk Nth fire started from an electrical fault. 1000ha burnt, 200 sheep and 2 cattle destroyed along with hay, fencing, buildings and 1 house
1977	Feb 12	Penshurst fire travelled 10.8 km at 1.6km wide burning 4200ha. 1700 sheep, 113 cattle lost as well as hay, fencing, buildings and 5 houses
1983	Feb 16	Monivae fire started by power lines burnt 3181ha 1469 sheep, 203 cattle destroyed, fencing, buildings and 3 houses lost
1983	Feb 16	Branxholme Fire started by power lines burnt 200ha, one life was lost
2004	Oct	Major structure fire in the CBD of Hamilton destroyed the building housing the Target Store
2006	Jan 19	Mt Lubra (Grampians) started by lightning 130,231ha burnt, 2 lives lost, 40 homes, 1900km fencing and 50 sheds destroyed. 62,000 sheep and 500 cattle lost to the blaze Dunkeld under threat

2009	Feb 7	Coleraine fire burnt 776ha including threatening Coleraine township. Significant infrastructure, equipment and heritage losses including a home. One person sustained a burns injury
2013		Grampians – Victoria Valley Complex 35,891 Ha. Lightning cause.
2018	Mar 17	Grass fire started in Gazette area and burnt into Moyne Shire. 3467 Ha. 2 houses, fencing, stock.

Section 4 – Southern Grampians Shire Footprint Fire Management Objectives

The objectives of this plan are consistent with State Emergency Management Priorities.

- Protection and preservation of life is paramount
- Provide timely, relevant and tailored information to communities
- Protection of critical infrastructure and community assets that supports community resilience
- Protection of residential property as a place of primary residence
- Protection of assets supporting individual livelihoods and economic production that supports individual and community financial sustainability, particularly agriculture
- Environmental and cultural Values

Under the Country Fire Authority Act 1958 (section 55A), this Plan must contain provisions

- Identifying areas, buildings and land use in the Southern Grampians Shire Footprint that are at particular risk in case of fire;
- Specifying how each identified risk is to be treated and who is responsible for treating those risks
- Identifying all designated neighbourhood safer places in the Shire.

The Southern Grampians Shire is required under section 43 of the Country Fire Authority Act to take all practicable steps (including burning) to prevent the occurrence of fires on, and minimize the spread of fires on and from:

- Any land vested in the Shire or under its control and management; and
- Any road under its care and management.

To meet these objectives and requirements, this Plan has been developed as an operational and strategic document. The Plan identifies communities and assets at risk through an Environmental Risk Scan and the Victorian Fire Risk Register (VFRR). The VFRR is a risk prioritisation tool that identifies assets at risk, assesses the level of bushfire risk to assets and identifies a range of treatments to mitigate the risks. Treatments may include activities such as fuel reduction, community education, preparedness programs and property planning.

The Plan also references treatments for the five regional risk priorities (listed below) identified by the Barwon South West Regional Strategic Fire Management Planning Committee. A copy of the VFRR Municipal Risk Register for the Southern Grampians Shire is attached (appendix A)

Priority regional risks

1. High risk townships
2. Critical essential services assets
3. Tourism/major events
4. Key rural industries
5. Major transport corridors

Alignment to Regional Objectives

Barwon South West strategic intent

This regional plan identifies regional assets and actions for priority bushfire risks, according to the Victorian Fire Risk Register and Environmental Scan.

Success in achieving the vision, mission and aim will be evidenced by examples of:

- Leadership at all levels
- Effective regional partnerships
- Strong community connectivity
- Agreed values and risk management priorities
- Goal setting and attainment
- Agreed strategic objectives and desired outcomes
- Innovation and adaptive management
- Effective review processes and continual improvement
- Published regional profiles and priorities
- Vertical and horizontal integration between State, regional and local levels
- Recorded levels of residual risk, and
- Cooperation in an all hazards, all agencies approach.

A regional committee workshop in 2012 developed the above five BSW fire priorities using VFRR data. A previous committee workshop in September 2011 had reviewed this information and identified the following priority regional values at risk from bushfire following the PIPE\$ model:

P - People

- Community assets. Including community houses, hospitals, schools caravan parks, accommodation facilities, and commercial outlets
- Townships. Including coastal, hinterland and urban (interface)
- Vulnerable communities. , such as tourists older people, disabled people, absentee homeowners, Aboriginal and Torres Strait Islanders (ATSI) and Culturally and Linguistically Diverse (CALD)

I - Infrastructure

- Essential services. Including water and energy supply, telecommunications and sewerage systems
- Hospitals and social infrastructure
- Regionally significant roads and bridges

P - Public Administration

- Capability and capacity for agencies, councils and service providers to be maintained before during and after bushfire events
- Health services
- Cross agency planning and response

E – Environment and Cultural Heritage

Natural environment:

- National Parks including indigenous flora, fauna and sites of significance
- Water Quality e.g. water catchments and environmental systems for ecological benefits and potable use
- Listed/significant environmental assets including RAMSAR wetlands, threatened species and communities, regionally significant wetlands etc...
- Cultural Heritage
- Indigenous heritage sites
- European heritage sites
- Historic townships

\$ - ECONOMIC

- Major industries
- Farming
- Forestry
- Road, rail, shipping ports and airports

Outcomes

The desired outcomes of this plan are:

- Human life and critical infrastructure are protected in the Shire;
- Plans are in place and activities undertaken to minimise the risk of fire and to suppress any fire that may occur within the Shire;
- Members of the Municipal Fire Management Planning Committee actively seek opportunities for agency collaboration to improve outcomes for communities and to reduce duplication;
- All agencies contribute to and are accountable for implementing agreed treatments; and
- Communities within the Southern Grampians Shire have an improved understanding of fire in their environment and their shared responsibility for action to reduce the risk of fire

Strategic Directions

The strategic direction of this Plan supports the Strategic Directions for Fire Planning in Victoria – Next steps, 2013.

Victoria's fire planning desired outcomes are:

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

In addition, the ongoing development of this Plan will also consider the following broad strategic documents:

- Expected new legislation and planning guidelines in 2020
- Bushfire Safety Policy Framework 2018
- Victorian Emergency Management Strategic Action Plan 2017-20
- Community Resilience Framework for Emergency Management 2017
- Victorian Preparedness Framework 2017
- State Bushfire Plan 2016
- Implementing the Government's Response to the 2009 Victorian Bushfires Royal Commission, (May 2011), State Government of Victoria;

Links to Other Business and Programs

www.cfa.vic.gov.au;

www.delwp.vic.gov.au

<http://www.ffm.vic.gov.au/>

www.sthgrampians.vic.gov.au

www.emv.vic.gov.au

www.mav.asn.au

<https://regionalroads.vic.gov.au/>

www.parkweb.vic.gov.au

www.victrack.com.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 fire services, government agencies, municipalities 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 Southern Grampians Shire 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 (e.g. as a consequence of a 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 a biennial review. The review process shall also ensure new strategies, programs and plans developed by the State and Regional Fire Management Committees are considered and incorporated where appropriate and meets community expectations. The Southern Grampians Shire Municipal Fire Management Planning Committee will also review this plan as necessary to account for any changes in context or risk. The Municipal Fire Management Planning Committee will also provide a Status Report (as determined by the Municipal Fire Management Planning Committee) on 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 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 Southern Grampians Shire Municipal Fire Management Planning Committee to enter risk reduction treatments and link these treatments to assets. The primary output of the VFRR is a Municipal Bushfire Risk Register table (Appendix A.1) 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.

The 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

Structure and Chemical Fire Risk

Risk assessment and prioritisation considerations:

The method of analysis to determine the chemical and structural risk within the local government area of Southern Grampians has revolved around an intense review of the historical incident data. Data from 1999 to the present have been collated and analysed with the assistance of the State Fire Management Planning Support Team (SFMPST) to produce a range of views to support decision making for the priority of these two risk areas.

The following hazard categories have been developed to consistently identify and describe structural and chemical areas of interest for the Southern Grampians Shire Local Government Area:

Category	Details	Planning Zone/s
Res	Residential development/buildings	Low density residential, Residential Zones
Trans	Transport corridor – Hazard subs	Road Zone
Industrial	Industrial areas	Industrial Zone
Business	Business and commercial areas	Business Zone
H/E/C	Health, education and community facilities	Public Park & Rec, Public Use, Special Use, Residential zone
MHF	Major Hazard Facility	None located in SGS LGA

Chemical Incidents data:

A number of analyses have been undertaken including the following:

- Heat map of incident occurrence relative to the region
- Heat map of the incident occurrence considering only the LGA (appendix E)
- Separation of incident data into fuel and non-fuel related incidents (appendix E)
- Rolling 3 year averaging of the incident data to look for trends

Within the Southern Grampians Local Government Area there is a low incident occurrence since 1999. The number of incidents annually was trending upwards until 2006/7 when the trend flattened and has been declining since 2008/9. Appendix E contains heat maps of chemical incidents over this period classified as either fuel related (likely to be associated with a motor vehicle accident) or non-fuel related. This supports the risk to townships as being low – negligible

for all towns except Hamilton. Future capability to assess the risks looking forward will be beneficial. Illegal practices of stockpiling chemicals have a potential to increase risks of chemical incidents.

Structure Incidents Data:

A number of analyses have been undertaken including the following:

- Heat map of incident occurrence relative to the region
- Heat map of the incident occurrence considering only the LGA (appendix E)
- Separation of incident data for structural and non-structural damage incidents (appendix E)
- Rolling 3 year averaging of the incident data to look for trends.

Within the Southern Grampians Local Government Area there has been a variable incident occurrence level since 1999. Appendix E contains heat maps of chemical incidents over this period classified as either likely to result in structural damage or likely to result in non-structural damage.

This data recognises that the varying response times and capability across the brigades of the Southern Grampians LGA can lead to varying levels of consequence and outcomes. Non-township fires are almost exclusively resulting in structural damage whilst incidents located within the township are indicated as achieving a 50:50 outcome for structural v's non-structural damage. Further analysis of the data is required to fully explore this phenomenon.

The priority ranking for townships needs to consider both the total incident count and the incidents relative to the number of addresses within the township (Appendix A2). Not surprisingly the most structure fire incidents occur where the most structures are located; however a low total incident count can result in a much higher proportionate consequence when the number of properties is small. Small numbers of buildings in small towns create a wide statistical variation in past events. Future capability to assess the risks looking forward will be beneficial. Illegal practices of stockpiling tyres, recycling or waste have a potential to increase risks of structural incidents.

Methodology

The Risk Assessment and management methodology used in the development of this plan is informed by and consistent with the following: AS/NZS ISO 31000:2009, and NERAG 2011:

Risk Management Process

1. Identify Risk
2. Analyse Risks
3. Evaluate Risk
4. Apply Risk Treatment
5. Monitor and Review

Included in this plan is a matrix of the priority fire risks in the municipality; Appendix A

Treatments and actions to achieve fire management strategy (including timelines and areas of responsibility) are contained within the Multi Agency Work Plans located in Appendix B.

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:

- Fuel Hazard Reduction e.g. DELWP/PV planned burn program, multi-agency slashing programs

- Ignition Management e.g. Electrical Safety Act (Electric Line Clearance) Regulations 2010
- Community Education e.g. CFA Community Fire Guard, Living with Fire
- Preparedness e.g. community Local Incident Management Plans, multi-agency Fire Management Plans
- Property planning e.g. private property inspections, planning and building legislation

Strategy	Treatments used in the Southern Grampians area
Community Education	Community Education/Engagement Agricultural Management Community Fire Guard Fire Ready Victoria Public Awareness Tourism Fire Awareness
Hazard Reduction	Burn Program Crown Land Slashing Fuel Hazard Management Routine Maintenance of Rail Line Routine Asset Site Maintenance Fire Management Zones Roadside Vegetation Management Building Inspections Hazardous substances placarding and manifests
Ignition Management	Operational Restrictions (fire danger periods, permit requirements etc) Patrol/ Inspection
Preparedness	Emergency Management Plan (Site specific) Fire Access Roads and Tracks Traffic Diversion Plans Township Protection Plans Fire plug and hydrant installation and maintenance
Property Planning	Building Codes Planning zones Traffic management planning
Other	Asset Specific Treatments To be identified

2009 Victorian Bushfires Royal Commission

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:

- **Community Information Guides**

(See Appendix C.2)

Provision of localised information continues to evolve.

Within the Southern Grampians Shire municipal area, Community Information Guides have been developed on the basis of the risk rating process associated with the VFRR for Balmoral, Cavendish, Dunkeld, Wannon and the Rocklands Precinct. Further evolution will not include CIGs but the Rocklands CIG will continue due to its specific benefits in tourism and education.

- **Neighbourhood Safer Places** (see Appendix C.3)

“A Neighbourhood Safer Place – Place of Last Resort is a space that:

- is a place of last resort for individuals to access and shelter in during the passage of fire through their neighbourhood – without the need to take a high risk journey beyond their neighbourhood;
- provides a level of protection from the immediate life threatening effects of a bushfire (direct flame contact and radiant heat);
- is intended to provide relative safety;
- does not guarantee the survival of those who assemble there; and
- should only be accessed when personal bushfire survival plans cannot be implemented or have failed”,

(Bushfire Neighbourhood Safer Places, Places of Last Resort – CFA Assessment Guidelines).

NSP's have been designated within the Southern Grampians Shire municipal area at Hamilton, Dunkeld, Coleraine, Balmoral (x2), Branxholme, Glenthompson, Penshurst and Cavendish.

- **Fire Refuges** (see Appendix C.4)

No Community Fire Refuges have been identified at this stage within the Southern Grampians Shire municipal area

- **Private Fire Bunkers**

Private fire bunkers are the responsibility of individuals and do not form a part of this plan.

Cross Boundary Arrangements

It is acknowledged that the Southern Grampians Shire and stakeholder agencies have existing planning relationships across the following boundaries:

Moyne Shire	Glenelg Shire
West Wimmera	Horsham Rural City
Northern Grampians Shire	Ararat Rural City

Monitor & Review

Ongoing monitoring and review is essential to ensure that the Southern Grampians Shire 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 a bi-annual review. The review process shall also ensure new strategies, programs and plans developed by the State and Regional Fire Management Committees are considered and incorporated where appropriate and meets Council and community expectations. The Southern Grampians Shire Municipal Fire Management Planning Committee will also review this plan as necessary to account for any changes in context or risk; it will provide a Status Report as determined by the Municipal Fire Management Committee on fire management across the Prevention Preparedness Response & Recovery (PPRR) continuum of the 5 priorities determined by the Barwon South West Regional Strategic Fire Management Committee.

Section 6 Improvement and plan reporting and review processes

Plan Endorsement and Adoption

The Southern Grampians Shire Municipality is the custodian of the Southern Grampians Shire MFMP pursuant current legislative arrangement. All partnership agencies involved in the development and implementation of the plan are signatories. All signatories 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 adoption. This obligation will change in subsequent versions as MFMP processes evolve. Fire services must attest to the rigour of the planning processes.

Plan Amendment and Review

The plan is reviewed and updated biennially 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 Municipal Fire Management Planning Committee members and articulated through the MEMPC to Council for adoption.

The plan will be reviewed and amended;

- Biennially in association with the MEMP;
- Changes to the VFRR data will be updated in the plan,
- The Municipal Fire Management Planning Committee 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 7 Attachments

Appendix A: Risk Management Register	
Appendix A.1: Bushfire Risk Management Register	
Appendix A.2: Structure Fire Risk Register (townships)	
Appendix A.3: Chemical Fire Risk Register (townships)	
Appendix A.4 Priority structural and chemical areas for assessment and program development*	
Appendix A.5 Priority structural and chemical assessments for completion*	
Appendix A.6: Risk Plans	
Appendix B: Multi Agency Work Plans	
Appendix B.1 Multi Agency Work plans supporting the local and regional objectives	
Appendix B.2– Multi agency list of treatment activities	
Appendix C: Statutory Audit Obligations	
Appendix C.1: Hazardous Trees Flow Diagram	
Appendix C.1.1 : Hazardous Trees Procedure	
Appendix C.2: Community Information Guides	
Appendix C.3 Neighbourhood Safer Places – Places of Last Resort	
Appendix C.4 Community Fire Refuges	
Appendix D Engagement and Communications	
Appendix D.1: Southern Grampians MFMP Committee Contact List	
Appendix D.2: Southern Grampians MFMPC Stakeholder & Engagement Matrix	
Appendix E: Maps	
Appendix E.1: CFA Groups located within the shire of Southern Grampians	
Appendix F: CFA Roadside works	
Appendix G: Terminology used in this Plan	
Appendix H: Acronyms used in this Plan	
Appendix I: MFMPC Key Action Summary	

Appendix A: Risk Management Register

Human Settlement	Residential
	Other
	Special Fire Protection
Economic	Agriculture
	Commercial
	Infrastructure
	Tourist and Recreational
	Mines
	Commercial Forests
	Drinking water catchments
Environmental	Locally Important
	Endangered
	Vulnerable
Cultural	Aboriginal Significance
	Non Indigenous
	Other

Appendix A.1: Bushfire Risk Management Register

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
Balmoral - 70001	L	M	H	3A								
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	x				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					106 Community Fire Guard	Community development program	CFA	X				
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn Program	Permits to Burn	SGSC	X				
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					Neighbourhood safer places – Places of last resort	Annual assessment x2, publish	SGSC CFA	X				
Balmoral Caravan Park 70028	L	Ma	V H	2A	303 Patrol / Inspect	Inspection to ensure compliance	SGSC					X
Balmoral Community College 70053	L	Mo	H	3A	212 Routine Site Asset Maintenance	Ongoing mowing/slashing/spraying of sites to reduce fuel loads for protection of assets or adjoining properties	Dept of Educ & Training	X				
Balmoral WTP 70239	UL	Mo	L	N/A	212 Routine Site Asset Maintenance	Ongoing mowing/slashing/spraying of sites to reduce fuel loads for protection of assets or adjoining properties	W Water	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
Rocklands WPS 70240	UL	Mo	L	N/A	212 Routine Site Asset Maintenance	Ongoing mowing/slashing/spraying of sites to reduce fuel loads for protection of assets or adjoining properties	W Water	X				
Glenelg River Rosemary 70259	L	Mo	H	3A	201 Burn Program	Permits to Burn	LGA					X

Coleraine 70002	L	Mo	H	3A	100;104;107;111;207;217;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort		SGSC CFA	X				
Cavendish 70003	L	Mo	H	3A	100;104;107;111;201;202;207;211;217;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn program	Removal of selected vegetation in large patches to protect townships.	SGSC					
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	DELWP CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
Dunkeld 70005	L	Mo	H	3A	100;104;107;111;201;202; 207;211;217;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
Dunkeld North 70045	L	C	E	1B	100;106;107;111;201;202; 207;211;217;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
Wannon 70010	L	Mo	H	3A	104;107;111;201;202;207;211; 217;307;413							
					101Community engagement	Community based bushfire management	SGSC					X
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					303 Patrol / Inspect	For compliance to regulations & safety requirements	SGSC	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
Branxholme 70011	L	Mo	H	3A	100;104;107;202;207;211;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
Glenthompson 70014	L	Mo	H	3A	100;104;107;201;202;207;211;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
Penshurst 70015	L	Mo	H	3A	104;107;111;201;202;207;211;307;413;420							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn Program	Permits to Burn	SGSC	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
Tarrington 70016	L	Mo	H	3A	100;104;107;201;202;207;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
Hamilton Interface 70009	AC	Mi	H	3D	100;104;107;201;202;207; 211;217;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
						Reduce the Risk - residential	CFA		X			
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
Hamilton 70042	P	Mi	L	NA	100;104;107;111;201;202;207;211;217;307;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA	X				
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA		X			
						Bush fire planning workshops	CFA		X			
						Reduce the Risk - residential	CFA		X			
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA		X			
					111 Tourism Fire Awareness	Information and education	CFA	X				
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					211 Routine maintenance of rail line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential and ensure adequate access and egress	CFA	X				
					217 Fire Management Zone	To provide areas of sufficient width to reduce the spread of fires.	DELWP	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					307 Patrol / Inspect	For compliance to regulations & safety requirements	PV	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
					Neighbourhood safer places – Places of last resort	Annual assessment, publish	SGSC CFA	X				
North Byaduk 70043	L	Mo	H	3A	100; 104;107;201;202;207;211;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA					X
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA					X
						Bush fire planning workshops	CFA					X
						Reduce the Risk - residential	CFA					X
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA					X
					201 Burn Program	Permits to Burn	SGSC	X				
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				
					413 Fire access roads and tracks	Establishment of constructed and maintained roads, tracks and bridges to allow safe passage for firefighting vehicles	SGSC					X
Byaduk 70044	L	Mo	H	3A	104;107;201;202;207;211;100;413							
					100 Community Education Programs	Fire Safe Kids	CFA					X
						Early Fire Prevention	CFA					X
						Juvenile Fire Awareness & Intervention Program	CFA					X
						Property Advice Visit Service	CFA					X
						Bush fire planning workshops	CFA					X
						Reduce the Risk - residential	CFA					X
					104 Agricultural Management	Information to assist in the preparation of property fire management plans	CFA					X
					107 Fire Ready Victoria	Perception and understanding bushfire risk	CFA					X
					201 Burn Program	Permits to Burn	SGSC	X				

Asset Name	Likelihood	Consequence	Risk Rating	Priority	Treatment	Treatment details	Agency Responsible	Annual	2 – 3 years	5 years	10 years	When Requested
					202 Burn program	Removal of selected vegetation in large patches to protect townships.	CFA					
					207 Fuel Hazard Management	Fuel reduction works on council owned land	SGSC	X				

*Hamilton contains one NSP servicing both the interface and town centre

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Level of Impact	Cost of Recovery	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70201	Economic	Infrastructure	Mt Dundas C/Tower	Mt Dundas	Regional	Moderate	Major	Yes	Yes	Almost Certain	Extreme	1C	202;413
70204	Economic	Infrastructure	Mt Bainbridge C/tower	Mt Bainbridge	Regional	Moderate	Major	Yes	Yes	Almost Certain	Extreme	1C	800
70205	Economic	Infrastructure	Mt Pierrepont C/Tower	Mt Pierrepont	Regional	Moderate	Major	Yes	Yes	Almost Certain	Extreme	1C	800
70223	Economic	Infrastructure	Hamilton Zone Sub Station	Hamilton	Regional	Moderate	Major	Yes	Yes	Almost Certain	Extreme	1C	800
70202	Economic	Infrastructure	Cherrymount C/Tower	Glenthompson	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	800
70203	Economic	Infrastructure	Mt Rouse C/Tower	Mt Rouse	Regional	Low	Moderate	Yes	Yes	Almost Certain	Very High	2C	413
70231	Economic	Infrastructure	Terang Hamilton 66kv 1 line	Terang - Hamilton	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	203;223;417
70232	Economic	Infrastructure	Terang Hamilton 66kv 2 line	Terang - Hamilton	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	203;223;417
70243	Economic	Infrastructure	Hartwicks Reservoir	Hamilton	Local	Moderate	Moderate	No	Yes	Likely	High	3A	212
70245	Economic	Infrastructure	Dunkeld CWS	Dunkeld	Local	Moderate	Moderate	No	Yes	Likely	High	3A	212

70247	Economic	Infrastructure	Glenthompson WTP	Glenthompson	Local	Moderate	Moderate	No	Yes	Likely	High	3A	212
70249	Economic	Infrastructure	Headworks Offtakes	Grampians NP	Local	Moderate	Moderate	No	Yes	Likely	High	3A	212
70257	Economic	Infrastructure	Oakland Hill Wind Farm	Glenthompson	Local	Moderate	Moderate	No	Yes	Likely	High	3A	800
70223	Economic	Infrastructure	Rocklands Pipeline WPS	Rocklands	Local	Low	Minor	Yes	Yes	Almost Certain	High	3D	800

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Level of Impact	Cost of Recovery	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70229	Economic	Infrastructure	Hamilton Tertiary WRP	Hamilton	Regional	High	Major	No	No	Unlikely	Medium	4	212
70238	Economic	Infrastructure	Cavendish DP	Cavendish	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70241	Economic	Infrastructure	Hayes Reservoir	Hamilton	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70244	Economic	Infrastructure	Hamilton WTP	Hamilton	Regional	High	Major	No	No	Unlikely	Medium	4	212
70246	Economic	Infrastructure	Dunkeld DP	Dunkeld	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70248	Economic	Infrastructure	Penshurst WTP	Penshurst	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70250	Economic	Infrastructure	Bullawin Bores	Grampians NP	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70251	Economic	Infrastructure	Coleraine WTP	Coleraine	Local	Low	Minor	No	Yes	Likely	Medium	4	212
70242	Economic	Infrastructure	Cruckoor Reservoir	Hamilton	Local	Low	Minor	No	No	Unlikely	Low	NA	212

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Level of Impact	Cost of Recovery	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70225	Economic	Tourist & Recreational	Grampians national park	Southern Grampians	Regional	High	Major	Yes	Yes	Almost Certain	Extreme	1C	111;201;202;207;307;413
70226	Economic	Tourist & Recreational	Rocklands Reservoir	Rocklands	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	202;307;413
70228	Economic	Tourist & Recreational	Wannon & Nigretta Falls	Wannon & Nigretta	Local	Moderate	Moderate	No	Yes	Likely	High	3A	111;207
70256	Economic	Tourist & Recreational	Penshurst Races	Penshurst	Local	Moderate	Moderate	No	Yes	Likely	High	3A	212;409
70018	Human Settlement	Special Fire Protection	Rocklands Camp grounds	Rocklands			Catastrophic	Yes	Yes	Almost Certain	Extreme	1A	207;307;413
70019	Human Settlement	Special Fire Protection	Grampians Camp grounds	Southern Grampians			Catastrophic	Yes	Yes	Almost Certain	Extreme	1A	111;202;207;307;413
70020	Human Settlement	Special Fire Protection	Grampians Retreat, School Camp, MBC	Dunkeld			Catastrophic	No	Yes	Likely	Extreme	1B	100
70023	Human Settlement	Special Fire Protection	Mallengeeba Scout Camp	Wannon			Major	No	Yes	Likely	Very High	2A	100;307
70025	Human Settlement	Special Fire Protection	Dunkeld Caravan Park	Dunkeld			Major	No	Yes	Likely	Very High	2A	107;111;303
70026	Human Settlement	Special Fire Protection	Penshurst Caravan Park	Penshurst			Major	No	Yes	Likely	Very High	2A	303;307;413
70027	Human Settlement	Special Fire Protection	Cavendish Caravan Park	Cavendish			Major	No	Yes	Likely	Very High	2A	303;307;413
70046	Human Settlement	Special Fire Protection	Wannon River Holiday Park	Wannon			Major	No	Yes	Likely	Very High	2A	212
70021	Human Settlement	Special Fire Protection	Rocklands Wall Camp	Rocklands Wall			Moderate	Yes	Yes	Almost Certain	Very High	2C	202;413

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Level of Impact	Cost of Recovery	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70200	Economic	Agriculture	Grazing	Southern Grampians	Regional	High	Major	Yes	Yes	Almost Certain	Extreme	1C	104;201;211;207
70200	Economic	Agriculture	Cropping	Southern Grampians	Regional	High	Major	Yes	Yes	Almost Certain	Extreme	1C	104;201;211
70200	Economic	Agriculture	Apiary	Southern Grampians	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	104;207
70200	Economic	Agriculture	Wineries	Southern Grampians	Local	Moderate	Moderate	Yes	Yes	Almost Certain	Very High	2C	104;207
70213	Economic	Commercial	Illuka MSP	Hamilton	Regional	High	Major	No	Yes	Likely	Very High	2A	800
70253	Economic	Commercial	Department of Primary Industries	Hamilton	Regional	High	Major	No	Yes	Likely	Very High	2A	201;207
70258	Economic	Commercial	Vickery Brothers	Coleraine	Regional	High	Major	No	Yes	Likely	Very High	2A	212
70217	Economic	Commercial	Hensley Park Homes	Hensley Park	Local	Moderate	Moderate	No	Yes	Likely	High	3A	800
70219	Economic	Commercial	Glenthompson Brick Works	Glenthompson	Local	Moderate	Moderate	No	Yes	Likely	High	3A	800
70224	Economic	Commercial	Horse racing tracks	Southern Grampians	Local	Moderate	Moderate	No	Yes	Likely	High	3A	201
70252	Economic	Commercial	Prestonholme Nursery	Hamilton	Local	Moderate	Moderate	No	Yes	Likely	High	3A	800
70220	Economic	Commercial	Mt Napier Quarry	Mt Napier	Local	Low	Minor	No	Yes	Likely	Medium	4	800
70254	Economic	Commercial	Hamilton Sale Yard	Hamilton	Regional	High	Major	No	No	Unlikely	Medium	4	800
70255	Economic	Commercial	Grain Corp Facility	Hamilton	Local	Low	Minor	No	Yes	Likely	Medium	4	800
70212	Economic	Commercial Forest	Woohlpooer State Forest	Woohlpooer	Local	High	Major	Yes	Yes	Almost Certain	Extreme	1C	111;201;202;207;307;413
70216	Economic	Commercial Forest	Softwood Plantations	Southern Grampians	Regional	High	Major	Yes	Yes	Almost Certain	Extreme	1C	202;203;205;224;300
70230	Economic	Commercial Forest	Hardwood Plantations	Southern Grampians	Regional	Moderate	Major	Yes	Yes	Almost Certain	Extreme	1C	202;203;205224;300F

Priority 5 Major Transport Corridors

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Level of Impact	Cost of Recovery	Consequence rating	Do fires occur frequently	Expected to spread & reach	Likelihood	Risk rating	Priority rating	Treatments
70209	Economic	Infrastructure	Portland/Maroonia Rail line	Southern Grampians	National State	High	Catastrophic	Yes	Yes	Almost Certain	Extreme	1A	413;202;211 201
70218	Economic	Infrastructure	Hamilton Airport	Hensley Park	Local	Moderate	Moderate	No	Yes	Likely	High	3A	207
70206	Economic	Infrastructure	Henty Hwy Sth	Hamilton to Branxholme	Regional	Low	Moderate	No	Yes	Likely	High	3A	108;202;224
70208	Economic	Infrastructure	Natimuk to Hamilton Road	Balmoral to Cavendish	Local	Moderate	Moderate	No	Yes	Likely	High	3A	202;224;108
70235	Economic	Infrastructure	Glenelg Hwy	Southern Grampians	Regional	Low	Moderate	No	Yes	Likely	High	3A	202;224;108
70200	Economic	Infrastructure	Wooden Bridges	Southern Grampians	Local	Low	Minor	Yes	Yes	Almost Certain	High	3D	207;202;224; 108
70236	Economic	Infrastructure	Henty Hwy	Hamilton to Cherrypool	Local	Low	Minor	Yes	Yes	Almost Certain	High	3D	202;224;108
70207	Economic	Infrastructure	Hamilton Hwy	Hamilton to Caramut	Local	Low	Minor	No	Yes	Likely	Medium	4	202;108;224
70234	Economic	Infrastructure	Dartmoor to Hamilton Road	Hamilton to Digby	Local	Low	Minor	No	Yes	Likely	Medium	4	202;224;108

Other Assets not included in the 5 Priority List

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70007	Human Settlement	Special Fire Protection	Mt Bepcha Fire Tower	Mt Bepcha	Catastrophic	No	Yes	Likely	Extreme	1B	413;202
70008	Human Settlement	Special Fire Protection	Mt Rouse Fire Tower	Mt Rouse	Catastrophic	No	Yes	Likely	Extreme	1B	413;202
70039	Human Settlement	Special Fire Protection	Mt Dundas Fire Tower	Mt Dundas	Catastrophic	No	Yes	Likely	Extreme	1B	413;202
70048	Human Settlement	Special Fire Protection	North Hamilton Primary School	Hamilton	Moderate	Yes	Yes	Almost Certain	Very High	2C	212
70050	Human Settlement	Special Fire Protection	Monivae College & St Marys PS	Hamilton	Moderate	Yes	Yes	Almost Certain	Very High	2C	212
70051	Human Settlement	Special Fire Protection	The Hamilton & Alexandra College	Hamilton	Moderate	Yes	Yes	Almost Certain	Very High	2C	212
70040	Human Settlement	Special Fire Protection	Glenvale P12	Hamilton	Moderate	No	Yes	Likely	High	3A	100;407
70041	Human Settlement	Special Fire Protection	Good Shepherd SC	Hamilton	Moderate	No	Yes	Likely	High	3A	407
70047	Human Settlement	Special Fire Protection	Dunkeld Primary School	Dunkeld	Moderate	No	Yes	Likely	High	3A	212
70049	Human Settlement	Special Fire Protection	Tarrington Lutheran School	Tarrington	Moderate	No	Yes	Likely	High	3A	212
70052	Human Settlement	Special Fire Protection	Cavendish Primary School	Cavendish	Moderate	No	Yes	Likely	High	3A	212
70054	Human Settlement	Special Fire Protection	Coleraine Primary School	Coleraine	Moderate	No	Yes	Likely	High	3A	212
70055	Human Settlement	Special Fire Protection	Branxholme Primary School	Branxholme	Moderate	No	Yes	Likely	High	3A	212
70056	Human Settlement	Special Fire Protection	Penshurst Primary School	Penshurst	Moderate	No	Yes	Likely	High	3A	212

Other Assets not included in the 5 Priority List

Map Reference Number	Asset Type	Asset Sub Type	Asset name	Asset Location	Consequence rating	Do fires occur frequently	Expected to spread & reach assets	Likelihood	Risk rating	Priority rating	Treatments
70057	Human Settlement	Special Fire Protection	Penshurst Western District Health Service	Penshurst	Moderate	No	Yes	Likely	High	3A	212
70058	Human Settlement	Special Fire Protection	Glenthompson Primary School	Glenthompson	Moderate	No	Yes	Likely	High	3A	212
70060	Human Settlement	Special Fire Protection	Coleraine Western District Health Service	Coleraine	Moderate	No	Yes	Likely	High	3A	212
70600	Cultural	Aboriginal Significance	Grampians National park	Grampians National Park	Catastrophic	Yes	Yes	Almost Certain	Extreme	1A	111;201;202;207;307;413
70402	Environment	Vulnerable	Grampians NP South	Grampians National Park	Major	Yes	Yes	Almost Certain	Extreme	1C	201;202;307;413
70403	Environment	Endangered	Hamilton Bandicoot Reserve	Hamilton	Major	Yes	Yes	Almost Certain	Extreme	1C	201;202;211;413
70404	Environment	Endangered	Brush-tail Rock Wallaby Holding Enclosure	Dunkeld North	Major	No	Yes	Likely	Very High	2A	215;409
70401	Environment	Locally Important	Mt Napier State Park	Mt Napier	Moderate	Yes	Yes	Almost Certain	Very High	2C	413;231;415;416;423;424;444

Treatment Overview

TREATMENT NAME	TREATMENT DEFINITION	RESPONSIBLE AGENCY	TREATMENT NUMBER
COMMUNITY EDUCATION (100 SERIES)			
Community Education/Engagement	Bushfire education, engagement and training programs targetted at numerous community groups including school children, elderly, employees, and businesses.		
		CFA	100
		LGA	101
		DEECD	102
		Utility	103
		MFB	121
Agricultural Management	Agriculture bushfire management and safety issues for landowners/managers to assist in the preparation of property fire management plans.		
		CFA	104
		CFA; DPI	105
Community Fire Guard	A CFA key engagement strategy, community development program to help reduce the loss of lives and homes in bushfires.		
		CFA	106
Fire Ready Victoria	Assists in perception and understanding bushfire risk.		
		CFA	107
Public Awareness	Fire information through notice boards, brochures, signage etc to raise awareness of fire risk.		
		POWERCOR	108
		CFA	109
		LGA	110
		PV	118
		Other	120
		MFB	122
		DSE	124
Tourism Fire Awareness	Community education and information for tourists about Bushfire risk in the area.		
		CFA	111
		DSE; PV	112
		LGA	113
		PV	114
		Tourism Victoria	117
Multicultural/ Special Needs Engagement	Translations of campaigns to suite all multicultural and special needs persons.		
		LGA	115
		CFA	116
		MFB	123
HAZARD REDUCTION (200 SERIES)			
Burn Program	Removal of selected vegetation in large patches to protect townships.		
		LGA	201
		CFA; DSE; PV	202
		DSE; PV	231
Crown Land Fuel Reduction	Reducing fuel loads on crown land.		
		DSE	203
		PV	204
		DPCD	230
Fuel Hazard Management			
		Other	205
		Utility	206
		LGA	207
		CFA	208
		PV	232
Routine Maintenance of Rail Line	Removal of vegetation on and around rail lines to ensure protection of assets, minimise ignition potential, and ensure adequate access and egress.		
		Utility	209
		DOT	210
		CFA	211
Routine Asset Site Maintenance	Ongoing mowing/ slashing/ spraying of sites to reduce fuel loads for protection of assets or adjoining properties.		
		Other	212
		DEECD	213
		Utility	214
		DSE; PV	215
		LGA	216
Asset Protection Zones	Buffer zone between bushfire hazard and the asset.		
		DSE	227
Fire Management Zones	To provide areas of sufficient width to reduce the spread of Bushfire.		
		DSE	217
		Other	228
		LGA	229
Powerline Clearance	Vegetation management around powerlines.		
		LGA	218
		POWERCOR	219
		SPAusnet	220
		TELSTRA	221
Roadside Vegetation Management	Removal of vegetation along roadsides.		
		LGA	222
		VicRoads	223
		DSE; PV	224
		Other	225
		Private	226
IGNITION MANAGEMENT (300 SERIES)			
Operations Restrictions	On high fire weather days, operations of machinery in plantations is ceased.		
		HVP PLANTATIONS	300
Patrol/ Inspection	Inspections of assets to ensure compliance with regulations and safety requirements and to assess for fire hazards.		
		LGA	303
		CFA	304
		DSE	305

		MFB	306
		PV	307
		VIC POL	309
Pre Summer Inspections	Inspections of land holders according to Bushfire risk over the summer season including exit routes, locks, gates etc.		
		Water Authority	308
PREPAREDNESS (400 SERIES)			
Hazard Identification	Preparedness including risk ratings, inspections, maintenance and response arrangements.		
		Utility	401
		Water Authority	439
Fire Protection Plan	Fire Protection Plans are prepared to ensure that proper and sufficient works for Bushfire prevention and suppression activities are taking place.		
		Other	400
		CFA	402
		PV	403
		DHS	426
		SPAusnet	427
		GOULBURN MURRAY WATER	428
		DEPARTMENT OF DEFENCE	429
		MELBOURNE WATER	431
		HVP PLANTATIONS	437
		DSE	444
Fire Plug and Hydrant Installation and Maintenance	Works carried out to ensure that the system will operate correctly when required to do so.		
		LGA	404
Emergency Water Supply	Emergency water supply and maintenance for fire fighting purposes, including water catchments and policy		
		Government Agencies	405
		DSE	411
		LGA	412
		MELBOURNE WATER	430
		Other	440
Emergency Management Plan (Site)	Established framework for the effective handling of emergencies and/ or disaster.		
		Utility	406
		DEECD	407
		CFA	408
		Other	409
		LGA	410
		PV	442
Fire Access Roads and Tracks	Establishment of constructed and maintained roads, bridges and tracks to allow safe passage for firefighting vehicles.		
		LGA	413
		CFA	414
		PV	415
		DSE	416
		MELBOURNE WATER	443
Traffic Diversion Plans	Establishment of an appropriate traffic flow, through traffic management in the community and appropriate access and egress for property and business owners.		
		VIC POL	417
		VIC ROADS	418
		LGA	419
Township Protection Plans	Planned response (for both emergency services and the community) to a bushfire within close proximity to a township, which has the potential to impact on the local community.		
		CFA	420
Fire Operations Plan	Proposed fire prevention activities.		
		DSE	423
Public Land Management Plans	Each year a statewide program of activities is planned, completed and evaluated to continue progress towards achieving natural values objectives.		
		DSE; PV	424
		LGA	441
Community Activities/Planning	Local based planning/community groups who repair and manage natural resources for the event of a bushfire		
		DEECD	421
		LGA	422
		Community Groups	425
		CFA	433
Event Management Plan	Emergency management planning of events that occur in the Fire Danger Period (FDP)		
		LGA	432
Fire Refuge	A declared fire refuge for the use as a last resort under direct fire attack		
		Other	435
		LGA	436
Bushfire and Emergency Self Assessment	Develop a more detailed understanding of the bushfire risk to your school.		
		DEECD	438
PROPERTY PLANNING (500 SERIES)			
Wildfire Management Overlay	Planning referral for new subdivisions, buildings and works that increase population. Applies conditions for access, Water Supply, Buildings/ Works and Vegetation Management		
		LGA	500
Agreements	Acts and agreements for Rural Residential Areas		
		LGA	501
OTHER (700 SERIES)			
Asset Specific Treatments	Municipal Specific plan (details can be found in the VFRR Document)		
		All Agencies	700
TO BE IDENTIFIED (800 SERIES)			
To be identified	Treatments to be identified		
			800

This treatment list has been created from the input of mitigation works identified through the 'Implementation Stage'. The list has been modified to capture all works the VFRR Support Team are currently aware of. Due to agency identification the allocation of treatment numbers is set as per agency request and therefore if your agency has not been identified against a current mitigation treatment please contact the VFRR Support Team for input.

Appendix A.2: Structure Fire Risk Register (townships)

Population and Incidents for each township

Number and proportion of structural incidents for each suburb/location

(Population based on 2006 Census data ABS)

(# = addresses in the township includes Residential and Industrial)

(Ranking = Likelihood*Consequence = >16 extreme, >12High, >7 Medium, >3 Low)

Township	Pop	#	Heat map.	Incidents / yr	/yr/1000 structures	Likelihood	Consequence	Ranking
Hamilton	10170	5389	High	10.7	2.0	5	3	High
Coleraine	991	615	Med-High	2.1	3.4	5	4	Extreme
Penshurst	461	316	Low-Med	0.8	2.7	4	4	Extreme
Dunkeld	397	383	Low	0.0	0.0	2	1	Low
Balmoral	542	141	Low	0.4	2.7	4	4	Extreme
Cavendish	454	96	Low	0.1	0.8	3	2	Low
Branxholme	236	102	Low	0.2	1.5	3	2	Low
Glenthompson	274	128	Low-Med	0.3	2.4	3	3	Medium
Byaduk	<50	21	Low	0.1	3.7	3	4	High
Tarrington	193	99	Low-Med	0.2	2.3	3	3	Medium
Total urban	13575							

Appendix A.3: Chemical Fire Risk Register (townships)

Population and Incidents for each township

Number and proportion of chemical incidents for each suburb/location

(Population based on 2006 Census data ABS)

(# = addresses in the township includes Residential and Industrial)

(Ranking = Likelihood*Consequence = >16 extreme, >12High, >7 Medium, >3 Low)

Township	Pop	#	Chemical. Incidents (fuel)	Chemical Incidents (non-Fuel)	Incidents/yr/ 1000 population	Likelihood	Consequence	Ranking
TRANSPORT	N/a							
Hamilton	10170	5389	High	Low	0.5	4	3	High
Coleraine	991	615	Low	Nil	0.1	3	2	Low
Penshurst	461	316	Low	Nil	0.2	3	2	Low
Dunkeld	397	383	Low	Low	0.0	3	2	Low
Balmoral	542	141	Low	Nil	0.0	2	2	Low
Cavendish	454	96	Low	Nil	0.3	3	2	Low
Branxholme	236	102	Low	Nil	0.0	2	2	Low
Glenthompson	274	128	Low	Nil	0.0	2	2	Low
Byaduk	<50	21	Nil	Nil	0.0	2	2	Low
Tarrington	193	99	Nil	Nil	0.0	2	2	Low
Total urban	13575							

Appendix A.4 Priority structural and chemical areas for assessment and program development*

*To be completed as identified in Appendix B.1 Multi Agency Work Plans Item 1.1

Priority areas for program/inspection and assessment	Description	Lead	Support	Other stakeholders	Tools/ Program/Plans Appendix B	Comments
Residential areas	Hamilton					
	Coleraine					
	Penshurst					
	Glenthompson					
	Byaduk					
	Tarrington					
Industrial	Department of Primary Industries					
	Illuka Mineral Separation Plant					
	Hamilton Industrial Precincts					
Gas lines	Codrington - Hamilton					
	Port Campbell - Adelaide					
Fuel	Fuel Depot Port Fairy Rd					
	Fuel Depot Abbott St					
Communication	Hamilton Telephone Exchange					
Business	Performing Arts Centre / Gallery / SGSC offices					
	Hamilton Business Precinct					
	Hamilton CFA & SES					
	Hamilton Police Stn					
	Coleraine Police & CFA					

Priority areas for program/inspection and assessment	Description 	Lead	Support	Other stakeholders	Tools/ Program/Plans Appendix B	Comments
H/E/C	Baimbridge College					
	Hamilton & Alexandra College					
	Monivae College					
	Good Shepherd College					
	Good Shepherd Child care/kinder					
	Glenvale School					
	WDHS Hamilton					
	WDHS Penshurst					
	WDHS Coleraine					
	Balmoral BNC					
	Eventide					
	The Grange					
	Hamilton House					
	The Birches					
	Wannon Court Hostel					
	Roscoe Ave Children's Centre					
Transport	Hamilton Highway					
	Glenelg Highway					
	Henty Highway					
	Hamilton Aerodrome					
	Maroon Portland rail line					

Appendix A 5 Priority structural and chemical assessments for completion*

*To be completed as identified in Appendix B.1 Multi Agency Work Plans Item 1.1

P.I.P.E.\$ analysis table

Priority Local area (example listing)	People	Infrastructure	Public Admin	Environment	\$ Economy	Risk rating	Strategy	Lead	Support
Residential areas									
Hamilton									
Coleraine									
Penshurst									
Glenthompson									
Byaduk									
Tarrington									
Hospitals									
Aged care									
Schools									

Detailed analysis of priority areas aligning local values assessed through P.I.P.E.\$ relative to the PPRR continuum

Hamilton Central Business District:

PIPES values	P	P	R	R	location	Links to			
People									
I									
P									
E									
S									
\$									

Appendix A.6: 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 ones to be incorporated, using the Victorian Fire Risk Register tool. It includes a broad range of treatment options, plus opportunities to share skills, knowledge and resources across agencies and with neighbouring municipalities. The plans are applied across the 6 risk environments and 4 asset classes to achieve consistency across municipalities and government agencies within the Barwon South West Region.

Barwon South West, G21 & Corangamite
Municipal Working Group IFMP Implementation Process
(Endorsed by BSW RSFMP)

ENVIRONMENTAL RISK SCAN

Program / Plan Title	Primary Agency	Partner Agency/s	Program / Plan Objective	How Does The Program / Plan Address PPRR & Fire Ecology					Program / Plan Commencement Date	Program / Plan Completion Date	Listed in Primary Agency Business Plan and Funded	Listed in Partner Agency Business Plan and Funded	Fire Hazard Risk	Asset Class
				Prevention	Preparedness	Response	Recovery	Fire Ecology						
MEMP	SCSC	SES, CFA Vic Pol DELWP DJPR DHHS VFF RRV Centrelink AV , Red Cross Powercor	Identify and treat potential risks. Develop & administer programs to reduce community's vulnerability	✓	✓	✓	✓		2011	2018 Reviewed annually - Audited every 3 yrs	Yes	Yes	All	Human Settlement, Economic, Environmental, Cultural
Fire Protection Plan – Wimmera District	DEWLP	Parks Vic	planning proper and sufficient works for the prevention and suppression of bushfire on public land.	✓	✓	✓	✓	✓	Ongoing (The plan is currently being revised as a Fire Management Plan, as described in the Code of Practice for Fire Management on	Applicable for 10 years, with provision for review after 5 years and periodic amendment as required.	Yes	Yes	Transport, Bushfire,	Environmental, Cultural

Program / Plan Title	Primary Agency	Partner Agency/s	Program / Plan Objective	How Does The Program / Plan Address PPRR & Fire Ecology					Program / Plan Commencement Date	Program / Plan Completion Date	Listed in Primary Agency Business Plan and Funded	Listed in Partner Agency Business Plan and Funded	Fire Hazard Risk	Asset Class
				Prevention	Preparedness	Response	Recovery	Fire Ecology						
									Public Land (Revision 1) 2006)					
Fire Protection Plan – Far South West District	DEWLP	Parks Vic	Planning of proper and sufficient works for the prevention and suppression of bushfire on public land.	✓	✓	✓	✓	✓	Ongoing (The plan is currently being revised as a Fire Management Plan, as described in the Code of Practice for Fire Management on Public Land (Revision 1) 2006)	Applicable for 10 years, with provision for review after 5 years and periodic amendment as required.	Yes	Yes	Transport, Bushfire,	Environmental, Cultural
Joint Fuel Management Plan - Wimmera District	DEWLP CFA	Parks Vic	Outlines fire management strategies on public land. Prevention & Preparedness works including education & enforcement	✓	✓			✓	2012 (3 year plan, reviewed annually)	2015	Yes	Yes	Transport, Bushfire,	Environmental, Cultural
Joint Fuel Management Plan - Far South West District	DEWLP CFA	Parks Vic	Outlines fire management strategies on public land. Prevention & Preparedness works	✓	✓			✓	2012 (3 year plan, reviewed annually)	2015	Yes	Yes	Transport, Bushfire,	Environmental, Cultural

Program / Plan Title	Primary Agency	Partner Agency/s	Program / Plan Objective	How Does The Program / Plan Address PPRR & Fire Ecology					Program / Plan Commencement Date	Program / Plan Completion Date	Listed in Primary Agency Business Plan and Funded	Listed in Partner Agency Business Plan and Funded	Fire Hazard Risk	Asset Class
				Prevention	Preparedness	Response	Recovery	Fire Ecology						
			including education & enforcement											
BCA	SGSC		Building Controls	✓	✓				Ongoing			Business, Industrial, Residential, H/E/C, Bushfire, Transport	Human Settlement, Economic	
Event Management	Event Organiser	SGSC VicPol CFA		✓	✓	✓						Business	Human Settlement	
Joint Fuel Management Program	DELWP, CFA	Parks Vic		✓	✓			✓	Annual plan	2018	Yes	Yes	Transport, Bushfire, Environmental, Cultural	
Joint Fuel Management Program	DELWP, CFA	Parks Vic		✓	✓			✓	Annual plan	2018	Yes	Yes	Transport, Bushfire, Environmental, Cultural	

Appendix B Multi Agency Work plans

Appendix B.1 Multi Agency Work plans supporting the local and regional objectives

Key Theme 1 Planning together

State, regional, municipal and local fire management plans will be linked with a common purpose and a consistent assessment of risk. These plans will be prepared in consultation with those most affected and will be available to the community.

Southern Grampians Local Government Area integrated planning principles:

- The Municipal Fire Management Plan to be integrated with the BSW regional plan, with consideration given to State priorities
- community values are to be considered and integrated into the planning and implementation processes
- Risk based treatments must identify and minimise negative impacts toward social, economic and environmental values
- Planning actions are to be completed at the lowest appropriate level with the support of the other levels
- Opportunities for effective engagement, appropriate participation and communication are to be maximised

No.	SGS LGA objective	Action	Output	Timeframe	Responsible Agency/ies	KPI/Measure	Complete	Comments/Feedback
1.1	Better informed fire management planning	Develop Environmental Scan	SGS LGA Environmental Scan	2020	MFMP Supported by SFMPST	Updated to include structure and chemical risks by end 2020		Notional annual review
		Municipal Bushfire risk assessment	VFRR data	2019	VFRR	Review of treatment application		Integration of VFRR based tools such as road and power line risk tools to be sought
		Municipal Chemical fire risk assessment	Urban risk assessment tool	2020	CFA	Completion of appendix A4 & A5 tables		To be translated to urban tool once developed
		Municipal Structure fire risk assessment	Urban risk assessment tool	2020	CFA	Completion of appendix A4 & A5 tables		To be translated to urban tool once developed
		Power line hazard risk mapping	Power line hazard maps	2015	Powercor CFA SGSC	Assessment completed and treatments mapped		
		Roadside bushfire mitigation treatments	Exemption sought from DEWLP for roadside works for	2020	SGSC Regional Roads Victoria	Assessments completed and		

			the purposes of bushfire mitigation		CFA	roadside treatments mapped		
1.2	SGS MFMP to be recognised by BSW RSFMP and the Community	Barwon South West Regional Strategic Fire Management Planning Committee to receive for comment SGS LGA plan	Regional endorsement of the SGS LGA fire plan	31 October 2012	BSW RSFMP; SGS MFMP	Plan complete and submitted by due date.	October 2012	Submission acknowledged by and comments received from regional committee Required 2019 & 2020
1.3	Integrate community values and input	Engage communities to participate and contribute to planning process	Community feedback report. Community representatives on MFMP	2020 Ongoing	MFMP (Supported by SFMP to link to regional outcomes)	Community consultation process completed		Support from SFMP to identify how effectively the feedback represents the community, in regard to planning process and outcomes
		Committees to consider and adopt recommendations as required	Revise municipal plan to include additional information and recommendations	2020	MFMP (Supported by SFMP to link to regional outcomes)	Revised draft plan ready to be considered for adoption	October 2012	Required 2020
1.4	Determine Annual priorities	Biennial VFRR review information to be prioritised for SGS LGA and the BSW region	Municipal VFRR priority documents supporting Regional VFRR priorities document.	2019 2021	VFRR team, MFMP, BSW RSFMP & SFMP	VFRR review complete. Data to be prioritised and included in plans.		Consideration given to other values based approaches and risk management processes applied to confirm/identify other local priorities and treatments
		Confirm annual priorities in all risk environments according to conditions and risk management process	Annual Priorities update	November	MFMP and SFMP	Annual regional priorities integrated into regional municipal and local implementation plans for action		Annual cycle
		Support implementation of annual priority risk treatments for all fire risk environments	Reports as required	November – March	All endorsing agencies	Actions implemented at appropriate levels		Annual cycle

		Improve planning by capturing key learning from work, incidents emergencies/events.	Report of key successes, failures and areas to improve	All year. Particularly bushfire season	MFMPC and SFMPST	Relevant information available to influence plan and environmental scan		Annual cycle
		Review regional annual priorities and process for next 12 month period	BSW Annual Priorities document	June – September	Regional Committee, SGS MFMPC and SFMPST	Annual regional priorities integrated into regional municipal and local implementation plans for action Residual risk		Annual cycle
		Develop stakeholder engagement and communication plan	Targeted plan for all stakeholders including the regional community	2020	Comm & Engagement Working group & SFMPST	Integrated: IAP2 process, and Municipal consultation processes		Ongoing
		Implement recommendations	Update plans and processes		SGS MFMPC, Regional Committee, and SFMPST	Evidenced in updated plans and organisational business/processes /policies and tested for effectiveness		
1.5	Integrate all risk environments	Support the development of a new version of the Regional Plan and Environmental Scan.	Revision for both documents	TBA	SGS MFMPC, Regional Committee, and SFMPST	Full integration of regional and municipal plans including community expectations, strategic objectives and desired outcomes		
		Implement Structural fire risk environment assessment processes	Appendix A4 & A5 completed	2020	MFMPC and lead agencies	Priorities for Structural fire risks identified, treatments reviewed		Support and input to development of state wide tools provided
		Develop Chemical fire risk environment	Appendix A4 & A5 completed	2020	MFMPC and lead agencies	Priorities for Structural fire risks identified, treatments reviewed		Support and input to development of state wide tools provided

Key Theme 2 Implementing Collaboratively

The fire management sector will implement the activities agreed to in the plans by preparing programs designed to include the common needs of those most vulnerable and affected by the adverse impacts of fires.

Integrated implementation principles:

- Actions of this plan and the Barwon South West Regional Strategic Fire management Plan are to be collaboratively implemented
- State priorities and regional community values are to be collaboratively considered and integrated into actions.
- Implementation of risk based treatments must identify and minimise negative impacts toward social, economic and environmental values
- Implementation actions are to be completed at the lowest appropriate level with the support of the other levels
- Residual risks are to be identified, recorded and measured for continual improvement planning and further implementation
- Opportunities for collaboration through effective engagement, appropriate participation and communication are to be maximised

No.	SGS LGA Objective	Action	Output	Timeframe	Responsible/ agency	KPI/Measure	Complete	Comments/Feedback
2.1	implementation targets measured across local and regional plans	Development of SMART goals to support the regional and local objectives	Updated objectives	Jun 2012 – Oct 2013	SGS MFMPC, BSW RSMFPC supported by SFMPST	SMART goals supporting the achievement of all objectives incorporated into planning		
2.2	Priorities for implementation integrated across State, regional and local	Develop and implement targeted Stakeholder Engagement and Communications	Targeted Stakeholder Engagement and Communications Plan Version 2	Jun 2012 – Oct 2013	SGS MFMPC, lead agencies, and SFMPST			Concurrent objective with 4.1
2.3	Effective collaboration to validate values and all fire risks	Confirm current values and level of risk with key stakeholders	Validated and updated values and risk profile produced	Jan 2012 – Oct 2013	SGS MFMPC, RSMFPC supported by SFMPST	qualitative and quantitative data to appropriately represent SGS Community		Initial capture of information to be used in later engagement processes to measure effectiveness & inform cont improvement
2.4	Effective collaboration to inform future planning	Consider scenarios for before during and after fire events	Individual documents as required	Jan 2012 – Oct 2013	All planning partners	Identify and record short medium and long term goals by Oct 2013		

		Support/treat risks at most appropriate level	Revised municipal plans	Jan 2012 – Oct 2013	Lead agencies			
		Review local priority risks and treatments using values based approach across all fire risk environments.	Integrated regional and municipal based plans	Jan 2012 – Oct 2013	SGS MFMP	TBA		see 1.4
2.4	Reduce the risk to communities and regional values with the least negative impact	Develop and implement local community based program	Updated Targeted Stakeholder Engagement and Communications Plan	2013 -2021	SGS MFMP	TBA		See 2.2

Key Theme 3 Building Knowledge

The fire management sector will share information and interact with academic and professional institutions, other jurisdictions and communities, in order to build knowledge.

Integrated knowledge management principles sought and applied:

- Knowledge is considered to be a management and community resource
- New information is to be received as an offer for consideration at the appropriate level.
- Stakeholder and community engagement is a priority to share knowledge and build capacity to develop resilience
- The most appropriate methods and technologies will be used to share and receive knowledge and information.
- Opportunities to enhance communities connectivity through effective engagement, participation and appropriate communication is to be maximised

No.	SGS LGA Objective	Action	Output	Timeframe	Responsible/ agency	KPI/Measure	Complete	Comments/Feedback
3.1	Improve regional and local decision making capabilities via access to quality information and data	Support SFMPST to Research Best Management Practice for integrated values based treatment of bushfire risks	Regional report	Jan - Dec 2012	Lead agencies and SFMPST	Include local regional state national and international research and examples		SFMPST lead project

		Support the development of interactive BSW regional knowledgebase	Web based interactive portal	Jan - Dec 2012	SGS MF MPC supporting SF MPC	Accessible to all stakeholders and the broader community.		SF MPC with Ballarat University reviewing models including IF MPC, regional CCMA. Opportunities exist to link with state, national and international networks
3.2	Continually improve these processes and information to include all fire risk environments	Support lead agencies and research partners in continual improvement processes	Updated BSW research priorities document	2015 - 2021	SGS MF MPC supporting the SF MPC & BSW RSF MPC	Complete research projects. Evidence of research benefits change		

Key Theme 4 Building Capacity

The capability of the fire management sector and the community will be built by applying knowledge and continual improvement principles in an environment that allows for innovation and change.

Principles for building capacity:

- Capacity is enhanced by connectivity, engagement and participation
- Opportunities to build organisational capacity through strengthened partnerships is paramount
- Decisions are to empower stakeholders and communities to build capacity and develop resilience

No.	SGS LGA Objective	Action	Output	Timeframe	Responsible/ agency	KPI/Measure	Complete	Comments/Feedback
4.1	Build local capacity and resilience	Develop and implement targeted Stakeholder Engagement and Communications	Stakeholder Engagement and Communications Plan Version 2	Jan 2012 –Oct 2013	SGS MF MPC, SGS MEMPC			
		Develop local resilience indicators aligned to the Regional profile and scorecard across all risk environments	Updated	2015	SGS MEMPC BSW Regional Committee, and SF MPC	Evidence of current capacity levels for agencies and communities across all fire		Further partner and community support and comment required

						risk environments		
		Continually improve integrated agency and community capacity building programs as required	TBA	2015 -2021	All	TBA		

Key Theme 5 Using Fire

Fire will be used to support the health of our natural, economic, social and cultural environments.

Principles for using fire:

- Fire has been part of the landscape for thousands of years*.
- Well researched and planned burning poses less risk to values than not burning at all
- Decisions regarding burning objectives and outcomes will be collaborative to support a values and risk management approach
- Use of fire is to be considered in combination with other appropriate risk mitigation activities, to develop integrated risk management programs that optimise outcomes for the regional social, economic and environmental values
- The effectiveness of the integrated risk management programs and residual risks are to be identified, recorded and measured for continual improvement planning and further implementation
- Opportunities for effective engagement, appropriate participation and communication about the use of fire are to be maximised

No.	SGSLGA Objective	Action	Output	Timeframe	Responsible/ agency	KPI/Measure	Complete	Comments/Feedback
5.1	Use fire to protect and enhance values whilst minimising the risk to priority assets	Support the development and commencement of comprehensive monitoring and evaluation program	BSW report on current burning programs	2012 - 2013	SGS MFMPC Regional committee DEWLP Future Fire team Research institutions, SFMPST	Include landscape and local burning programs		Program to be ongoing
		Support landscape e.g. Grampians NP and local burning programs to improve short term outcomes	TBA	2012 – 2013	SGS MFMPC Regional committee DEWLP Future Fire team			

					Research institutions, SFMPST			
		Undertake comprehensive assessment of stakeholder and community perceptions toward impacts of burning on other regional values	To be included in targeted stakeholder engagement and communication plan	2015	Lead agencies and the community	Include social economic and environmental assessment		
		Identify conflicts and opportunities to improve		2015 – 2021	Lead agencies and the community			
		Work with regional and local stakeholders to continually improve to optimise outcomes for burning programs and other regional values	BSW regional burning information/program	2015 -2021	Lead agencies and the community	Include business, events tourism etc...		
		Communicate outcomes to stakeholders and the community	To be included in targeted stakeholder engagement and communication plan	ongoing	SGS MFMP Regional committee DEWLP Future Fire team Research institutions, SFMPST			
		Continue to engage with stakeholders and the community to maximise participation, improve knowledge and reduce risks to all values	To be included in targeted stakeholder engagement and communication plan and knowledgebase	ongoing	SGS MFMP Regional committee DEWLP Future Fire team Research institutions, SFMPST	Integrate key learning into knowledgebase and planning processes to continually improve use of fire		

Appendix B.2– Multi agency list of treatment activities

Bushfire Risks			Structure Fire Risks					Chemical Fire Risks					VFRR	Organisation / Expert
No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport		
1	Fire Safe Kids	Fire safety education for primary school aged children. Lessons on range of fire safety topics including home safety, outdoor fire safety, personal safety and CFA in the community – Pre School and Primary School only, Kinder – Grade 6	✓	✓	✓		✓	✓			✓		100	CFA – Community Education Co-Ordinator
2	Early Fire Safe	Fire prevention, burn and scald education program for parents of children under 5 years of age - Parents of pre-school aged children (5 and under)	✓	✓	✓		✓	✓			✓		100	CFA – Community Education Co-Ordinator
3	Juvenile Fire Awareness and Intervention Program (JFAIP)	Intervention and education program for child fire lighters and their family. Facilitators visit the home for several sessions with the child. Referrals to this program come from a variety of sources including families, welfare agencies schools and fire brigades. Juvenile fire lighters aged 5-16. Parents receive incidental advice on fire safety	✓				✓	✓			✓		100	CFA – Community Education Co-Ordinator
4	No longer delivered Isolated Elderly Program	Education and training program on fire safety for carers and service providers of elderly citizens. Carers are then able to provide advice to elderly on enhancing their fire safety Carers and service providers working with the isolated elderly and people with disabilities	✓	✓	✓		✓	✓			✓		100	CFA – Community Education Co-Ordinator
5	Property Advice Visit Service	Offers personalized, tailored advice delivered at your property by trained Fire Safety Officers. Assessment of: level of bushfire risk, Fire hazards on the property and how to manage those hazards, how to develop a Bushfire Survival Plan so the household knows what to do on high risk fire days. Receive one-on-one individual advice about: Property maintenance to help lower your	✓				✓	✓		✓	✓		100	CFA – Fire Safety Officer

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
		bushfire risk, Property access, Improving defensible space, Vegetation management Water supply requirements, and personal capacity to cope with fire.												
6	Bush Fire Planning Workshops	2 – 3 hour workshop which allows residents who have some knowledge of bushfire safety to assess their local risk factors and make informed bushfire survival plans based on that knowledge.	✓	✓	✓	✓	✓	✓			✓		100	CFA – Community Education Co-Ordinator
7	Reduce the Risk - residential	Information and activities relating to home fire safety. - General audience or high risk community groups, including Culturally and Linguistically Diverse (CALD), and the disabled and their carers	✓	✓	✓			✓			✓	✓		CFA – Community Education Co-Ordinator
8	Fire Ready Victoria	Information and education activities and program relating to bushfire/bushfire and grass fire risks - Risk assessments determine targeting of this information	✓	✓	✓	✓	✓	✓		✓	✓	✓	100	CFA – Community Education Co-Ordinator
9	No longer available Mobile Education Unit	Mobile truck that visits areas usually annually. Provides a focus for home fire safety education in primary schools. - Primary School Aged children particularly grades 3 and 4 and bush fire education in primary and secondary schools	✓	✓	✓		✓	✓			✓		100	CFA – Community Education Co-Ordinator
10	Advance & VCAL	Programs that aims to provide opportunities for personal development of secondary school students	✓	✓	✓			✓			✓		100	CFA – Community Education Co-Ordinator
11	Multicultural Programs	Raise CFA's profile in ethnic communities by raising awareness about the role of CFA in the community, 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.	✓	✓	✓			✓			✓		115	CFA – Community Education Co-Ordinator

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
12	Community Fire Guard	To develop self-reliant and resilient communities in bushfire by working with small groups of community members to enable them to develop locally relevant and personally appropriate bushfire survival plans.	✓	✓	✓	✓	✓					✓	106	CFA – Community Education Co-Ordinator
13	Tourism	Bushfire Tourism Engagement Project is designed to develop a self-reliant and resilient Tourism Industry in bushfire 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.	✓	✓	✓	✓	✓			✓			111	CFA – Community Education Co-Ordinator
14	District Operational Management Plan	Each district has an individual operational management plan for response activities.			✓		✓		✓	✓		✓		CFA – Operations Manager
15	Barwon South West Mutual Aid Plan	Is an agreed plan between DEWLP & CFA of designated areas of response		✓	✓		✓	✓	✓	✓	✓	✓		DEWLP Regional Mgr CFA – Regional Director
16	Safer Together	This project will develop a multi-agency approach to emergency management by working collaboratively to engage community to improve community safety and inclusion.	✓	✓	✓	✓		✓	✓	✓	✓	✓	100	CFA – Community Education Co-Ordinator
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: <ol style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓	✓	✓	✓			CFA – Fire Safety Officer SGSC -

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
		<ol style="list-style-type: none"> 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. 												
18	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"> 1. Provide clear guidance in the event of an emergency that may affect the health, safety or wellbeing of caravan park clients or residents or have long term effects on business continuity 2. Satisfy the requirements of the Residential Tenancies (Caravan Parks & Moveable Dwellings Registration and Standards) Regulations 2010 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. 	✓	✓	✓	✓		✓		✓			101, 303	CFA – Fire Safety Officer SGSC – Environmental Health

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
19	Community Event	Community Event Bushfire Risk management guidelines is designed to assist Event Organisers identify vulnerability of their community event to bushfire 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 bushfires. A vulnerable community event is defined as any organised group activity that could be directly and indirectly impacted on from. The extent of the impact is dependent on the size of the event and numbers attending, fuel type, fuel moisture, fuel loads within and surrounding the event, topography and weather conditions during the Fire Danger Period.	✓	✓	✓		✓			✓			101	CFA – Fire Safety Officer
20	Fire Access Roads	Fire Access Road Subsidy Scheme assist's Municipalities in enhancing community safety where bushfire is considered a potential threat. The scheme provides funding for the following categories of fire management work: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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.		✓	✓		✓					✓	414	CFA – Vegetation Management Officer SGSC - MFPO

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
21	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.	✓	✓			✓			✓		✓	104, 105	CFA – Vegetation Management Officer
22	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	✓	✓	✓		✓					✓	225	CFA – Vegetation Management Officer Refer to items 57, 59, & 64
23	Campfire Prevention	Provide information to increase awareness of the risks associated with campfires to reduce the incidence of preventable bushfires. Undertake patrols and enforcement activities to ensure compliance with fire regulations.	✓				✓				✓		112	DEWLP – District Fire Manager Parks Vic - Ranger In Charge
24	Fire Investigation	DEWLP, 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.	✓	✓			✓	✓	✓	✓	✓	✓		Vic Pol – Divisional crime coordinator CFA- Operations Manager DEWLP – District Fire Manager
25	Daily Readiness	Set up and establishment of Incident Control Centres, Staging, Communications, Aircraft, Plant and People in readiness for bushfire incidents based on trigger levels.		✓	✓		✓							DEWLP – District Fire Manager CFA- Operations Manager
26	Asset Protection Zones	Modification of vegetation by removal of the shrub and understorey by mulching and/or slashing to reduce fuels	✓	✓	✓	✓	✓	✓	✓	✓		✓	227	DEWLP – District Fire Manager

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
		adjacent to reduce the risk of fire to built assets in townships and critical infrastructure including water, power, telecommunications and other assets.												
27	Planned Burn Program	Planned burning 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.	✓	✓	✓		✓	✓	✓	✓		✓	202	DEWLP – District Fire Manager
28	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.		✓	✓		✓					✓	224	DEWLP – District Fire Manager
29	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.	✓	✓	✓		✓					✓	224	DEWLP – District Fire Manager
30	Vegetation Monitoring	Fuel hazard assessment, mapping of burn outcomes and monitoring of vegetation on public land to support decision making in scheduling of planned burn program.	✓	✓	✓		✓	✓				✓	203	DEWLP – District Fire Manager
31	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		✓	✓	✓	✓	✓	✓	✓	✓	✓	418	Regional Roads Victoria
32	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	✓	✓			✓					✓	223	Regional Roads Victoria
33	Arterial Roadside Maintenance	Maintenance standards regarding vegetation encroaching the road envelope and management of roadsides to reduce fuel loads prior to the fire season i.e., programming maintenance slashing in November	✓	✓			✓					✓	225	Regional Roads Victoria

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
34	Power line Bushfire Mitigation Strategy/Plan	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.	✓				✓	✓	✓	✓	✓	✓	401	Powercor
35	Vegetation Management around Power lines	Powercor's Vegetation Management Plan is prepared in accordance with the Electricity Safety (Electric Line Clearance) Regulations 20010. The plan details Powercor's policies, procedures and programs to manage vegetation around power lines.	✓				✓	✓	✓		✓	✓	219	Powercor
36	Fire Hazard Mapping Project (Power lines)	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.	✓				✓	✓	✓	✓	✓	✓	402	CFA
37	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.	✓				✓	✓				✓	219	Powercor
38	Vegetation Management around Power lines in Declared Areas	Maintain vegetation clearance around powerlines in Declared areas in accordance with the Electricity Safety (Electric Lines Clearance) Regulations 2010.	✓				✓	✓	✓	✓	✓		218	SGSC
39	Power line Easement Management.	Review easements, in conjunction with Municipal Fire Prevention Officers, CFA and/or DEWLP, to determine treatment works for power line easements that form agreed Strategic Fire Break, Breaks for Controlled Burns or required for Asset Access and Protection.	✓	✓			✓	✓	✓	✓			218	SGSC
40	Power lines Faults and Emergency	Powercor maintains a 24 hour fault and emergency response including call centre, faults dispatch and			✓		✓	✓	✓	✓	✓		401	Powercor

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
	Events including Fire	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.												
41	Public Awareness	Media communications campaign.	✓			✓	✓	✓	✓	✓	✓		108	Powercor
42	Vegetation Management Plan and Procedures 2011 – 12	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)	✓	✓			✓					✓	427	Powercor
43	Grampians Bushfire Response Plan		✓	✓	✓		✓						406	Wannon Water
44	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				✓	✓	✓	✓	✓	✓	✓		DHHS
45	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.			✓	✓	✓	✓	✓	✓	✓	✓		DHHS
46	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.				✓	✓	✓	✓	✓	✓			DHHS
47	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			✓	✓	✓	✓	✓	✓	✓	✓		DHHS

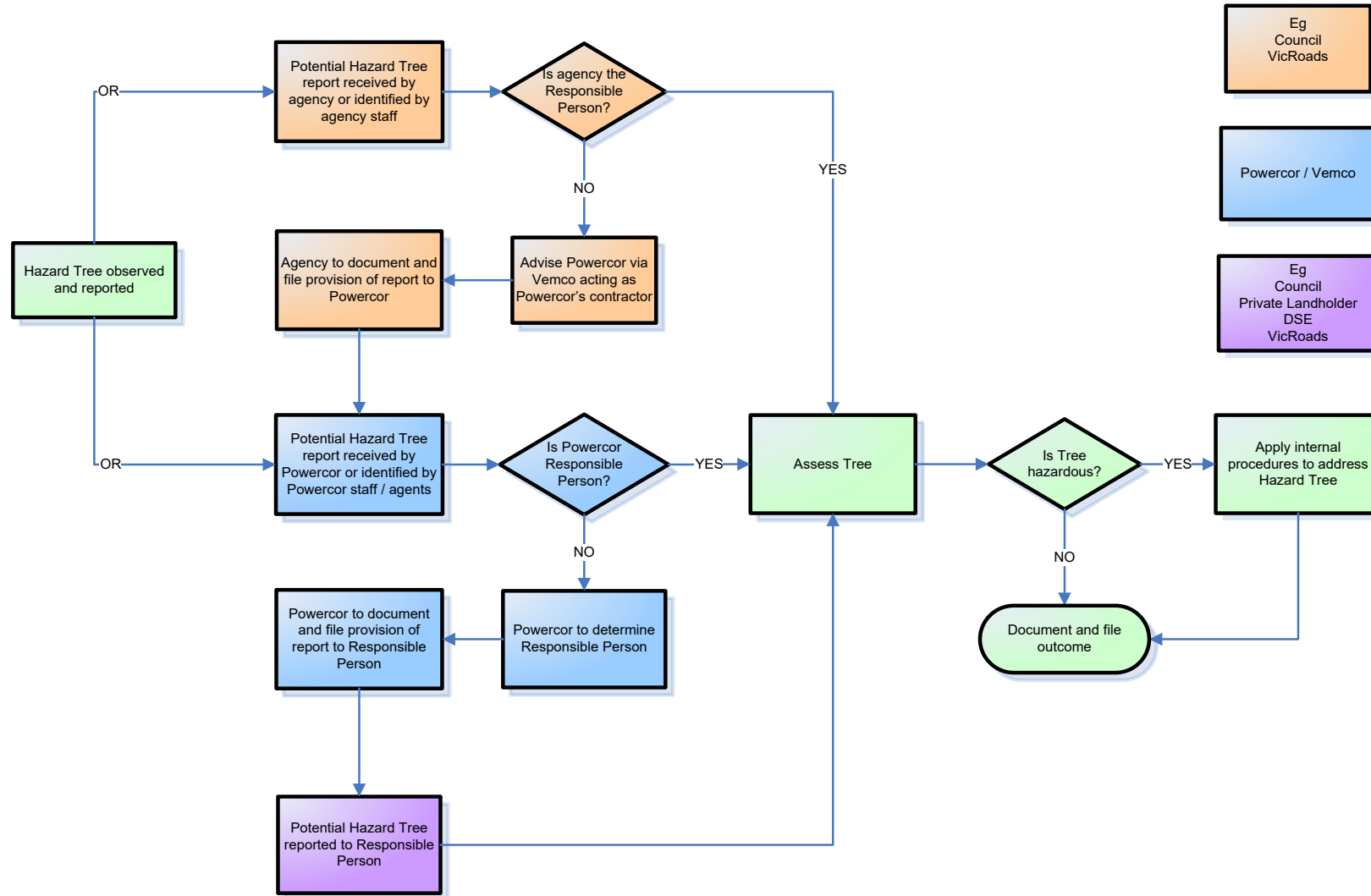
No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
		at a Relief / Recovery Centre and list the contact details of the local government authority in their area. It also advises affected people to seek further information by listen to ABC radio 774AM or call the Emergency Information line.												
48	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.	✓	✓	✓	✓	✓			✓		✓	432	CFA Fire Safety Officer SGSC Events Coordinator
49	Fire Safety in Commercial & Industrial Premises	Audits of high risk buildings re compliance with Building Regulations. Essential Services inspections	✓	✓	✓	✓			✓	✓	✓			SGSC - Building Surveyor
50	Structure Fire Integrity Inspections	Identify buildings that have been damaged by fire and inspect for public safety.	✓	✓		✓	✓	✓	✓	✓	✓			SGSC - Building Surveyor
51	Fire Safety In Caravan Parks and Camping Grounds.	Programmed Inspections of Caravan Park and Camping Grounds with all partner agencies.	✓	✓	✓	✓	✓	✓					303	SGSC Environmental Health Officer SGSC Building Surveyor
52	Pre-Season Community Awareness Campaign	Pre-season advertising, courtesy letters and other information programs.	✓	✓			✓	✓					101	SGSC - MFPO
53	Fire Hazard Management on Council Owned or Managed Land	Management of fire hazards on Council land through fuel reduction works. (Excluding roadsides)	✓	✓		✓	✓						207	Various SGSC Departments
54	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. SGSC	✓	✓			✓						303	SGSC / MFPO CFA

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
55	Bushfire Management Overlay & Land Use Planning Controls	Maintain and implement the provisions of BMO and other land use controls.	✓	✓	✓		✓	✓	✓	✓	✓		500	SGSC Statutory Planning
56	Power line Clearance	Maintain tree clearances to Energy Safe Regulations within declared areas.	✓	✓		✓	✓	✓	✓	✓	✓		218	SGSC Roadside Management Plan
57	Roadside Vegetation Management	Council managed roads within the municipality are managed for appropriate fuel loads over fire season. Roads assessed and treatments selected in accordance with the DEWLP exemption for Roadside Works for the Purposes of Bushfire Mitigation Maintain clear path for vehicle access and maintenance of council trees on all Council managed roads.	✓	✓		✓	✓					✓	222	SGSC Roadside Management Plan
58	Annual Fire Hazard Inspection	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.	✓	✓			✓	✓	✓	✓			303	SGSC - MFPO
59	Fire Access Track	Annual inspection and maintenance of all designated Fire Access Tracks.	✓	✓	✓	✓	✓					✓	413	SGSC Works Management Plan
60	MEM Plan	Implements/activates the agreed arrangements to ensure a coordinated response.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	410	SGSC - MERO MRM
61	Building in BPA areas	Check all new building applications to ensure they comply with Australian Standard AS3959/2009 prior to issue of a building permit.	✓	✓			✓	✓	✓	✓	✓		500	SGSC Building Surveyor
62	Non Fire Season Inspection Program	Conduct random inspections for overgrown properties or investigate complaints with view to removing fire hazard outside FDP.	✓	✓				✓	✓	✓	✓		303	SGSC - MFPO
63	Fire plug Installation and Maintenance	Ensure all sub divisions have fire plugs located as per Standard C29 of Clause 56		✓	✓			✓	✓	✓	✓		404	SGSC Statutory Planner
64	Annual Maintenance of Fire Management Roads/Breaks	Roads assessed and treatments selected in accordance with the DEWLP exemption for Roadside Works for the Purposes of Bushfire Mitigation	✓	✓			✓					✓	225 222 223	CFA DEWLP SGSC

No.	Tools/ Program/Plans	Tools/Programs Detail	Prevention	Preparedness	Response	Recovery	Bushfire	Residential	Industrial	Business	Health Ed & Community	Transport	VFRR	Organisation / Expert
		Fire management treatments listed in Municipal Fire Prevention Works Program, are reviewed and maintained throughout the municipality. See Appendix F												Regional Roads Victoria
65	Fire Prevention & Mitigation on Public & Private Forested Land.	Liaise with owners of forested land in relation to ongoing fire prevention works.	✓	✓			✓						700	MFPO
66	FARSS & BMP	Identify Fire Access Road Subsidy Scheme and Bushfire Mitigation projects and apply for funding.	✓	✓			✓	✓					413	MFPO
67	Recovery Plans	DJPR Response/REC Plans			✓	✓	✓						410	Southern Grampians Shire Council
68	Building Permits	Planning Schemes/Overlays		✓	✓		✓	✓	✓	✓	✓		500	Southern Grampians Shire Council
69	Vegetation management	Landcare Vegetation Management Programs/Council weed management program		✓		✓	✓						422	Southern Grampians Shire Council
70	Infrastructure Risks	Infrastructure Partnership options – veg management, water		✓	✓	✓	✓		✓	✓			228	Southern Grampians Shire Council
71	Consequence Mapping	Victorian Fire Risk Register, Fire Hazard Rating for the Electrical Safety Act 1998 Regional Roadside Bushfire Risk Assessment Urban Fire Risk Register (once developed)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	VFRR	CFA, Southern Grampians Shire Council
			P	P	R	R								

Appendix C: Statutory Audit Obligations

Appendix C.1: Hazardous Trees Flow Diagram



Appendix C.1.1 : Hazardous Trees Procedure

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

- (a) Procedures and criteria for the identification of trees that are likely to fall onto, or come into contact with, an electric line (**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.

Under the ES Act, the person responsible for maintaining vegetation and clearance space around power lines is referred to as the 'responsible person'.

The procedures outlined in this section of the Municipal Fire Management Plan 2016 - 2019, seek to address the requirement detailed above.

Each responsible person should have its own internal procedure regarding the steps that will be taken when it receives notification of a potentially hazardous tree.

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 a suitably qualified arborist; 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.

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.

Responsible Persons within Southern Grampians Shire

There are a number of organisations that have responsibility for line clearance in Southern Grampians Shire, including:

- Powercor - for trees that effect all sub transmission and distribution power lines operating at 66,000 volts, 22,000 volts and low voltage with the exception of trees covered by Other Responsible Authorities. This includes the Hamilton Zone Substation.
- The Southern Grampians Shire: for trees on public lands which are managed by the Shire and where road reserves are located within the Declared Area (for the purposes of the ES Act);

Other relevant information

Responsible persons, other than private persons, must have an electric line clearance management plan in place for areas for which they have responsibility (*refer Electricity Safety (Electric Line Clearance) Regulations 2010*).

Powercor employ a sub-contractor, to do a lot of the vegetation work on their behalf.

Procedures and criteria for identifying hazard trees

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 (**the Committee**), staff of the distribution business(es) or other persons, including members of the public.

There are a range of factors which may indicate that a tree is a hazard tree. That is, a tree which is likely to fall onto, or come into contact with, an electric line. Some of these factors will be obvious when looking at the tree but many may only be apparent when the tree is assessed by a person with specific expertise and training, such as an arborist.

The following criteria may be used to assist in identifying a hazard tree:

- The size of the tree suggests that it is likely to come into contact with the electric line, for example because it appears to be encroaching or growing into the line clearance space.
- There is an excessive lean on the tree, or branches are hanging off the tree, and the tree is in proximity to an electric (power) line.
- The size or appearance of the tree suggests it could come into contact with the line including other foreseeable local conditions.

If a potentially hazardous tree is identified, the notification procedure outlined below should be followed. Where a responsible person becomes aware of a potentially hazardous tree for which they have responsibility, they must follow their own applicable internal procedure and the notification procedure described below does not apply.

Procedures and criteria for notifying hazard trees

To ensure that information regarding potentially hazardous trees is captured in an efficient manner and, as appropriate, referred to the responsible person for action, the following procedure for the notification of hazardous trees should be followed:

The person with responsibility for the highest percentage of lines within the municipality (**the primary responsible person**) is the person to whom potentially hazardous trees should be reported.

The primary responsible person (or their representative) is referred to in these Procedures as the primary responsible person representative (**PRPR**).

Where any person becomes aware of, or receives a report of, a potentially hazardous tree within the municipality, this should be referred to the PRPR. Where the Committee becomes aware of, or receives a report of, a potentially hazardous tree within the municipality, this must be referred to the PRPR.

Reports of potentially hazardous trees must be provided to the PRPR for action as soon as practicable. Reports must include, at a minimum:

- The name and contact details and any relevant qualifications where known of the person making the report
- As much detail as possible about the location of the tree (including, where known, GPS coordinates, details of numerical/name plate on nearest pole, name of nearest road or crossroads, closest landmark, whether tree is on private land or road reserve etc.)
- A description of the tree (including, if known, the genus and species of tree)
- The primary reasons given for the tree being identified as potentially hazardous (eg. tree is in proximity to an electric line AND there is evidence of structural weakness and/or excessive lean and/or appears to be encroaching into line clearance space etc.)
- An indication of whether or not urgent action is required.

The PRPR must take all necessary steps to advise the person responsible for the tree that it may be hazardous.

Primary Responsible Person Representative (PRPR)

For the purposes of this part of the Plan, the primary responsible person is Powercor.

Contact details for the PRPR, are as follows:

After Hours contact Powercor – Ph 13 24 12

Procedures for Notification of Responsible Persons

Where a potentially hazardous tree has been reported to the PRPR, the PRPR should follow the procedure outlined below.

Step 1	Report provided to PRPR.	
Step 2	PRPR to determine who the responsible person is in relation to the reported tree. (If necessary, the PRPR can seek assistance from ESV for this step.)	
Step 3	Is the responsible person the primary responsible person?	Yes => applicable internal procedure for referral and assessment of potentially hazardous tree to be followed.
		No => proceed to Step 4.
Step 4	Did the report indicate that urgent action is required?	Yes => the responsible person should be notified as soon as possible, and by COB of day on which the tree was reported to Shire
		No => the PRPR must advise the responsible person of the existence and location of a potentially hazardous tree in accordance with the timelines below.*

* The PRPR should put in place mutually agreed arrangements for the manner in which it passes on reports of potentially hazardous trees to responsible persons.

Reporting Timelines

The PRPR should provide reports to the relevant responsible person as soon as practicable.

In circumstances where:

- The potentially hazardous tree is located within a high bushfire risk area (as per s.80 of the ES Act) and the potentially hazardous tree is reported during the fire danger period declared under the Country Fire Authority Act 1958 (Vic); or
- The report indicates that there is an imminent danger that the tree will contact or fall onto lines as a result of minor environmental changes;
- The potentially hazardous tree must be referred to the relevant responsible person for action as soon as possible, and by the COB of day of tree reported to Shire.

Each responsible person (other than the primary responsible person) must provide the PRPR with contact details of the person (position title) to whom reports should be provided. It is the responsibility of each responsible person to ensure that the PRPR is provided with up-to-date contact details.

Register

It is recommended that the PRPR maintain a register in which all notifications are recorded together with the date of receipt of the notification and the date the notification was reported to the responsible person.

It is recommended that responsible persons also maintain a register of notifications received of hazardous trees for which they are the responsible person.

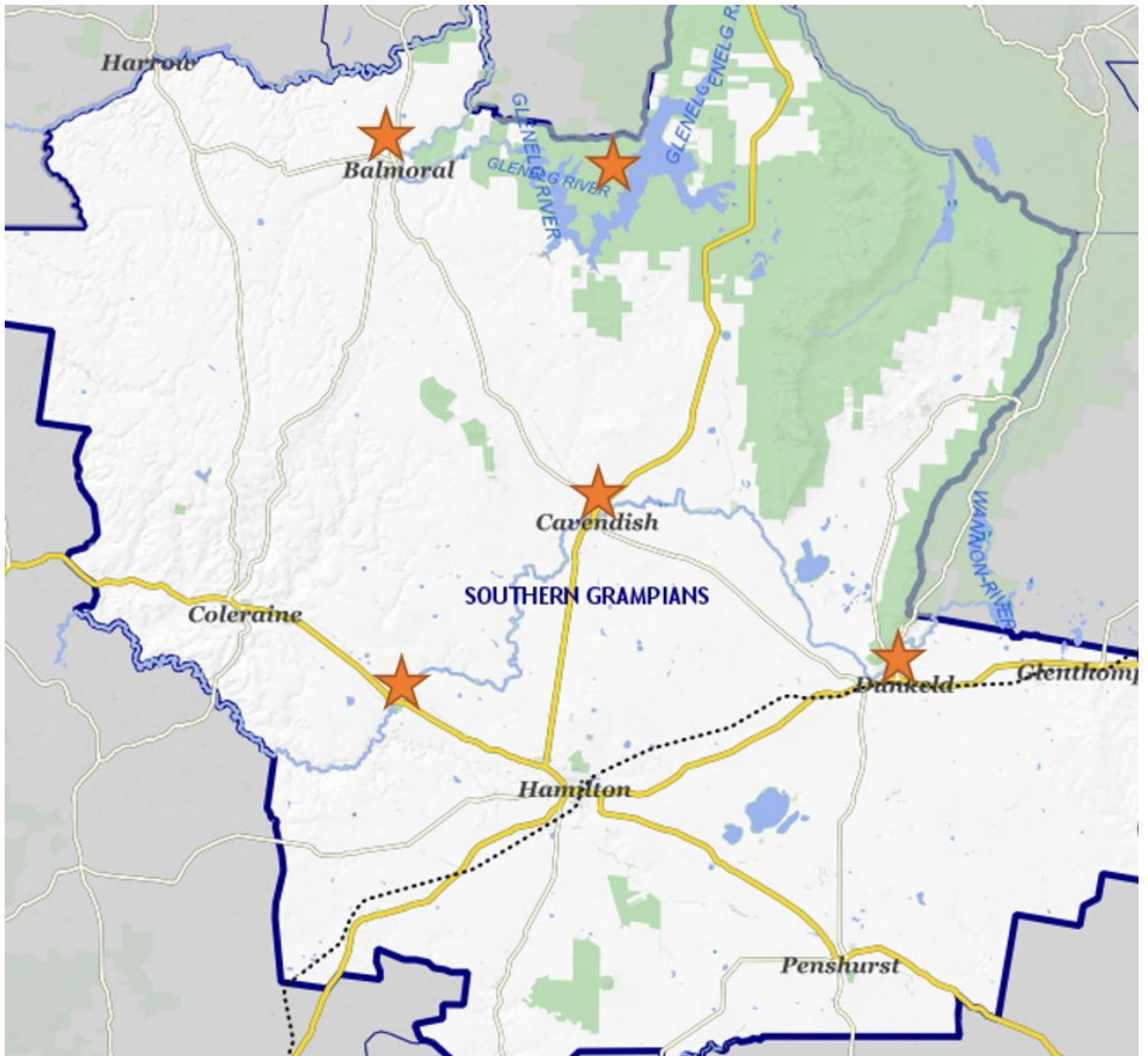
PRPR Consultation

The Committee notes that the Primary Responsible Person was consulted in relation to the development of these procedures.

Appendix C.2: Community Information Guides - Bushfire

Community Information Guides – Bushfire (previously Township Protection Plans) have been produced by CFA for **Dunkeld, Balmoral, the Rocklands Precinct, Cavendish and Wannon**. These guides will cease production soon. They can be found at the following link:

<https://www.cfa.vic.gov.au/plan-prepare/community-information-guides>



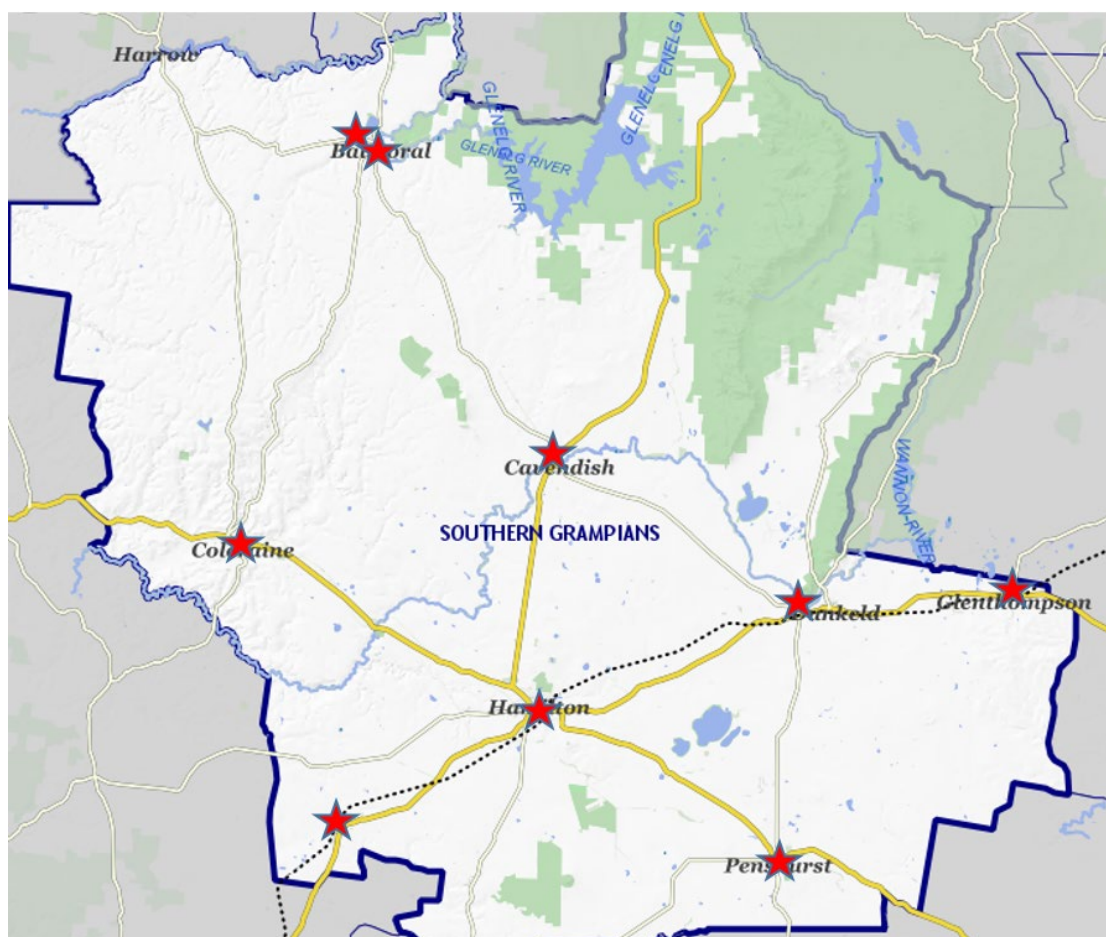
Appendix C.3 Neighbourhood Safer Places – Places of Last Resort

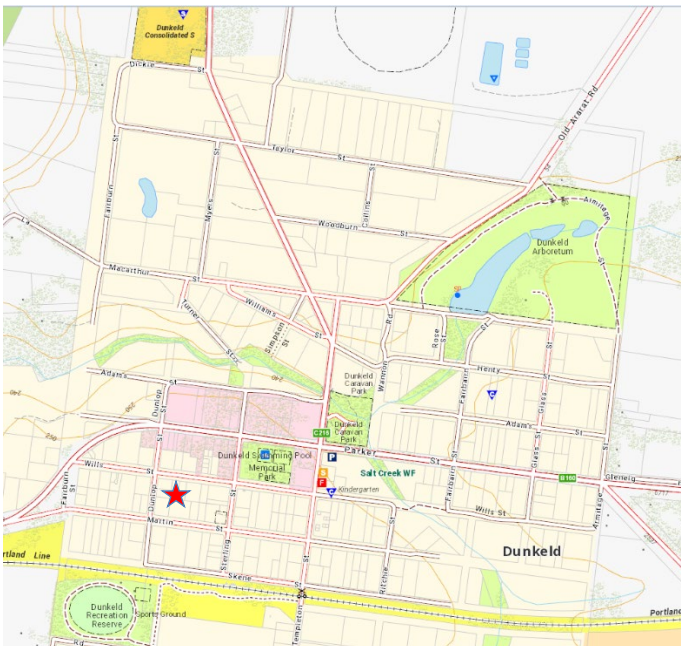
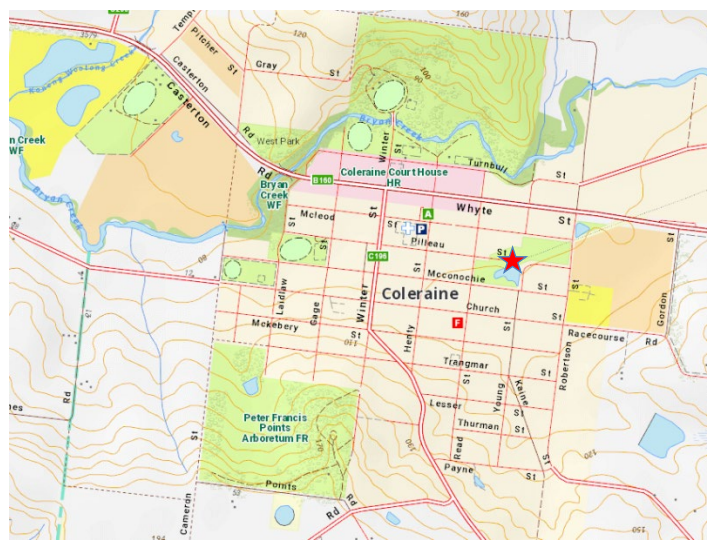
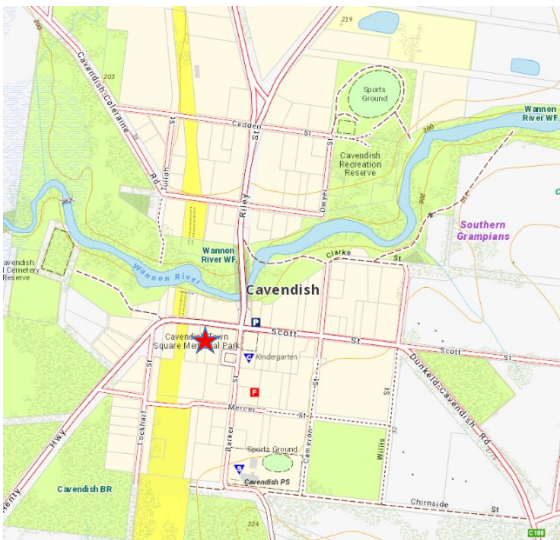
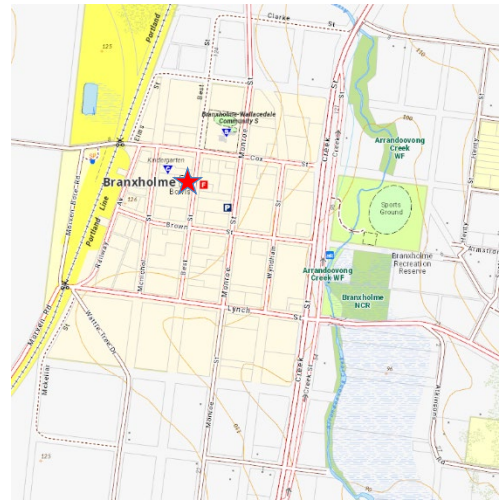
Neighbourhood Safer places – places of last resort have been designated at the following locations:

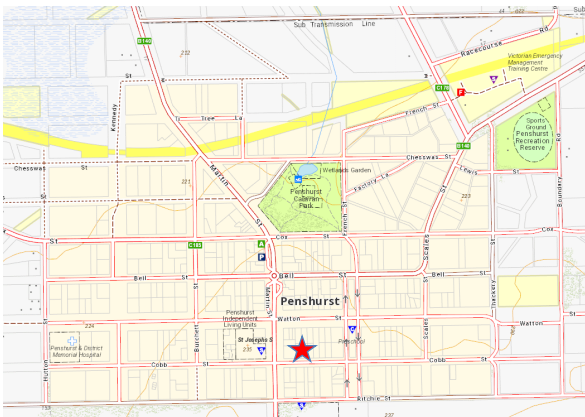
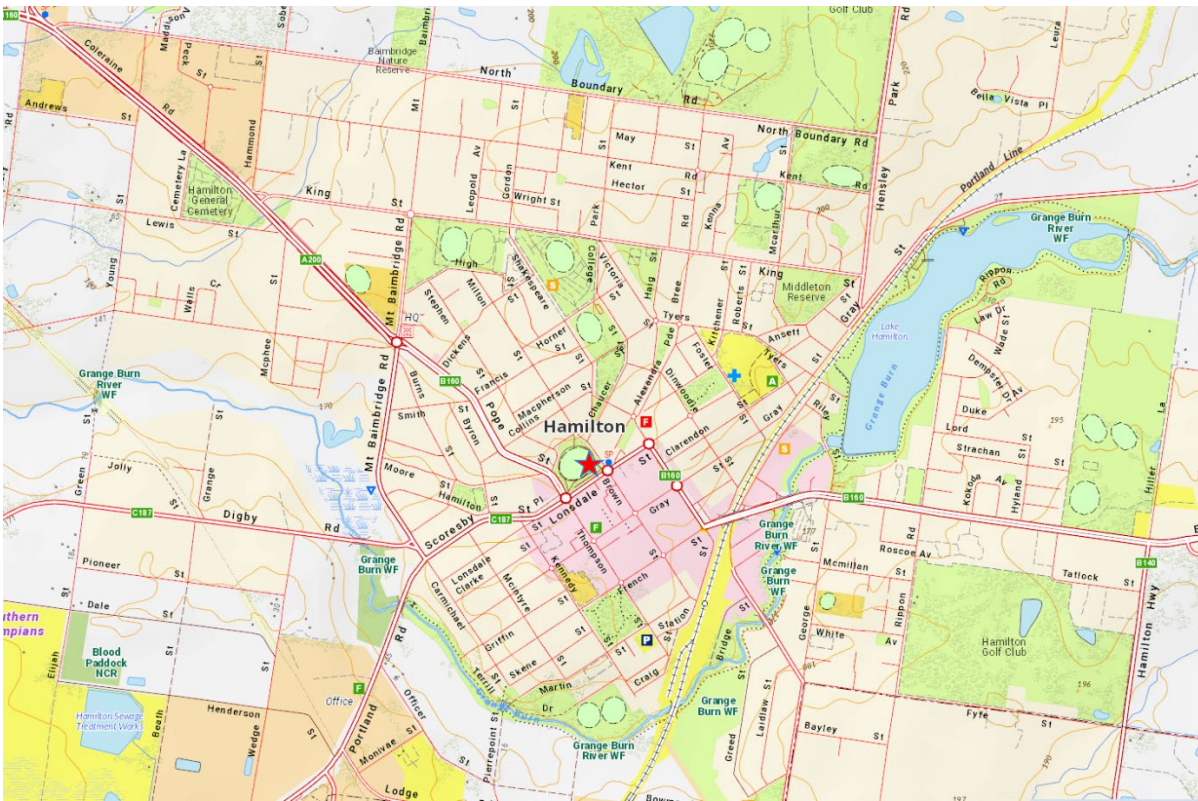
- Hamilton (Melville Oval corner Lonsdale and Brown Streets),
- Dunkeld (Anglican Church Grounds, corner Wills and Sterling Streets)
- Coleraine (Old Railway Reserve, corner Pilleau and Read Streets)
- Cavendish (Town Square Memorial Park corner Scott and Barker Streets)
- Balmoral (Memorial Hall and Bowls Club Grounds Glendinning St)
- Balmoral (Community College Car Park – adjacent to tennis courts, Harrow – Balmoral Rd)
- Branxholme (Unused Bowling Green opposite Fire Station, Best Street)
- Peshurst (Grassed road reserve at rear of Peshurst Senior Citizens Centre, French Street)
- Glenthompson (Vacant land adjacent to Glenthompson War Memorial Swimming Pool, Corner Henry Street and Cameron Street)

The map below indicates the location of the townships (red stars) with NSP's designated. The subsequent maps indicate the location of the individual NSP's within each township.

A full listing of designated NSP's can be found at: <http://www.saferplaces.cfa.vic.gov.au/cfa/search/default.htm>







Appendix C.4 Community Fire Refuges

There are no community Fire Refuges established within the Southern Grampians Shire Municipality.

Appendix D Engagement and Communications

Appendix D.1: Southern Grampians MFMP Committee Contact List

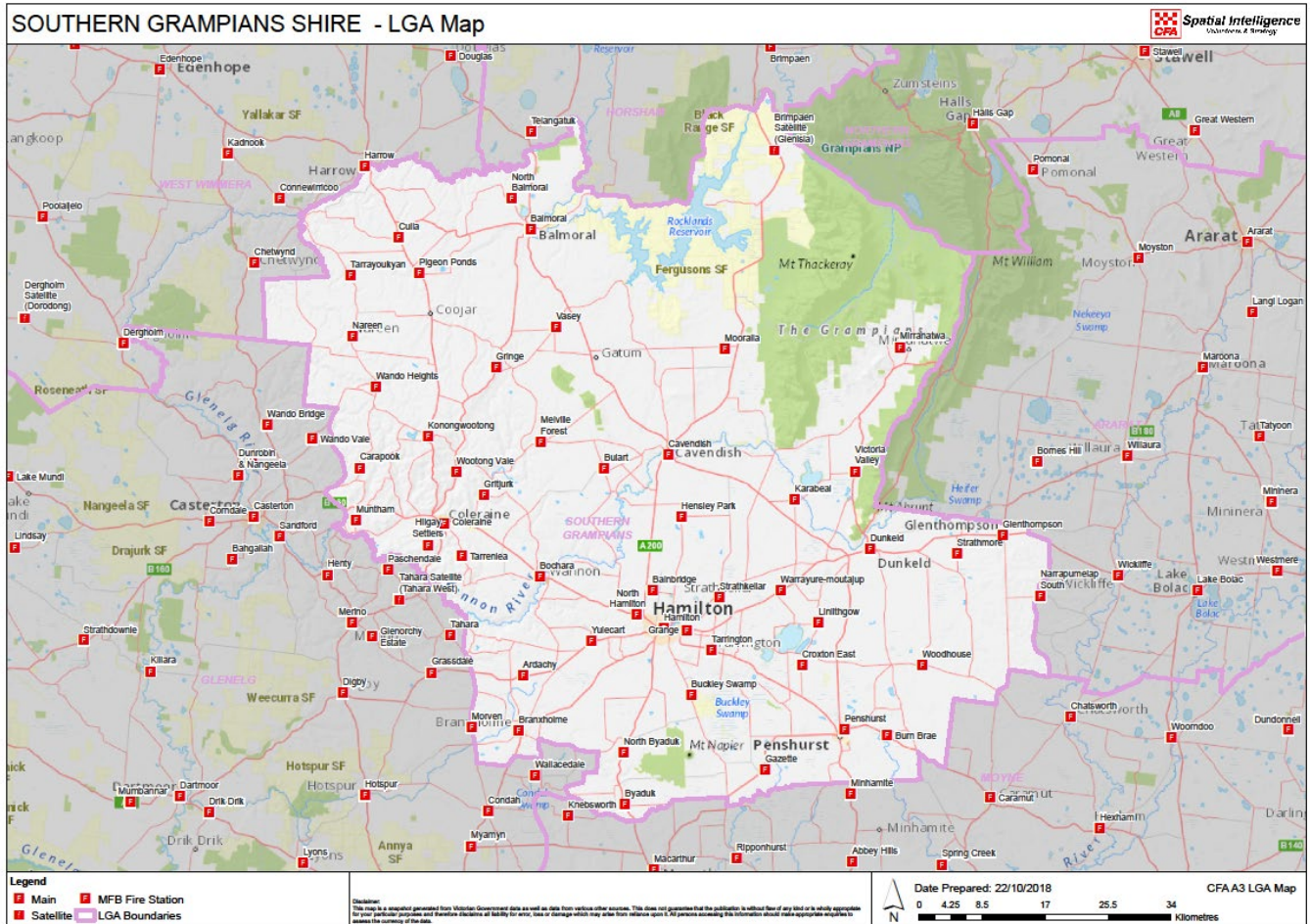
Name	Agency	Contact Details
Bruce Farquharson Emergency Management Officer (MERO)	Southern Grampians Shire	bfarquharson@sthgrampians.vic.gov.au 5573 0272 or 0419 272 640
Rhassel Mhasho (MFPO)	Southern Grampians Shire	mfpo@sthgrampians.vic.gov.au 5573 0441 or 0417 534 915
Susannah Milne (MRM)	Southern Grampians Shire	smilne@sthgrampians.vic.gov.au 5573 0422 or 0417 109 457
Don Robertson	Southern Grampians resident representative	
Chris Phillips	Southern Grampians resident representative	
Senior Sergeant Gerard Kelly	Victoria Police	gerard.kelly@police.vic.gov.au 0467761841
	CFA	
A Barry District 5 Group Delegate	CFA	A.Barry@cfa.vic.gov.au 0407850217
Philip O'Keefe District 5 Group Delegate	CFA	philip.okeefe@cfa.vic.gov.au 55 75 8225 or 0407758630
Chris Clugston District 5 Brigade Support	CFA	c.clugston@cfa.vic.gov.au 0419 009 544
M Davies District Fire Manager	DELWP	
Glenn Rudolph District fire manager	DELWP	glenn.rudolph@dewlp.vic.gov.au 5362 0718
David Roberts Ranger in Charge	Parks Victoria	d.roberts@parks.vic.gov.au 0429 387 537
Richard Curwell Regional Emergency Management Coordinator	Regional Roads Victoria	richard.curwell@roads.vic.gov.au 0429 017730

Appendix D.2: Southern Grampians MFMPC Stakeholder & Engagement Matrix

Level of Engagement				
Primary Stakeholders	Attend all MFMPC Meetings	Participation in MFMPC projects	Receive Minutes	Receive Regional Communiqué
Southern Grampians Shire	✓	✓	✓	✓
CFA	✓	✓	✓	✓
CFA RPC Reps	✓	✓	✓	✓
DELWP (FFMV)	✓	✓	✓	✓
Parks Victoria	✓	✓	✓	✓
Victoria Police	✓	✓	✓	✓
Secondary Stakeholders	Attend MFMPC meetings as required	Participation in MFMPC Projects as required	Receive Minutes	Receive Regional Communiqué
CFA Brigades & Groups	✓	✓ Brigade advisory committee		✓
Ambulance Vic	✓	✓		✓
DHHS	✓	✓		✓
SES	✓	✓		✓
DJPR (incl Ag Vic, RDV)	✓	✓		✓
Wannon Water	✓	✓		✓
Glenelg Hopkins CMA	✓	✓		✓
Powercor	✓	✓		✓
Dept of Education and Training	✓	✓		✓
Dept of Transport	✓	✓		✓
Telecommunication Providers	✓	✓		✓
Regional Roads Victoria	✓	✓		✓
VLine	✓	✓		✓
Rail Authorities (incl ARTC)	✓	✓		✓
Committees of Management	✓	✓		✓
VFF	✓	✓		✓
DELWP (Planning)	✓	✓		✓
Tertiary Stakeholders	Chair/Delegate & Executive Officer Meet as required	Involved/informed regarding MFMPC Projects as required	Receive Minutes	Receive Regional Communiqué
Tourism Providers	✓	✓		✓
Industry Groups	✓	✓		✓
Public Interest Groups	✓	✓		✓
Hamilton Regional Business Association	✓	✓		✓
Media	✓	✓		✓
AAV	✓	✓		✓
Indigenous Groups / Traditional Owners	✓	✓		✓

Appendix E Maps

Appendix E.1: CFA Fire Stations located within the Shire of Southern Grampians




Appendix F: CFA Roadside and Reserve Treatments

From year to year achievable treatments vary. Future consideration of purpose and value has been identified. Greater treatment detail exists within data held at CFA.

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Ardachy	Roadside	Branxholme Murndal Rd	Municipality	From Plantation - Murndal Rd	West	Burn, Spray, Plough
Ardachy	Roadside	Chrome Rd	Municipality	From Dartmoor Hamilton Rd - Donaghues Rd	Alternating	Plough, Spray, Burn
Ardachy	Roadside	Coleraine Rd	Municipality	From Dartmoor Hamilton Rd - Disused Railway line	Both	Burn, Plough, Spray
Ardachy	Roadside	Dartmoor Hamilton Rd	VicRoads	From Ardachy Fire Station - Chrome Rd	North	Spray, Plough, Burn
Bainbridge	Roadside	Beveridges Rd	Municipality	From Mt Bainbridge Rd - Henty Hwy	North	Burn
Bainbridge	Roadside	Cleary's Rd	Municipality	From Mt Bainbridge Rd - unused railway line	Both	Burn
Bainbridge	Roadside	Forts Rd	Municipality	From Hensley Park Rd - Dolings Rd	Both	Burn
Bainbridge	Roadside	Hartwicks Rd	Municipality	From Mt Bainbridge Rd - Henty Hwy	Alternate	Burn
Bainbridge	Roadside	Henty Hwy	VicRoads	From property 1151 - 1km South	West	Spray
Bainbridge	Roadside	Mt Bainbridge Rd	Municipality	From Clearys Rd - roads end	Both	Slash
Balmoral	Landscape	Balmoral Recreation Reserve	Municipality	Harrow Balmoral Rd		Burn, Spray
Balmoral	Roadside	Coleraine Balmoral Rd	VicRoads	From East side of township - Perns Ln	East	Burn, Spray, Plough
Balmoral	Roadside	Englefield railway siding	VicTrack	Disused railway siding south of township		Plough, Burn
Balmoral	Roadside	Englefield Rd	Municipality	From Coleraine Balmoral Rd - Natimuk Hamilton Rd	Both	Burn, Spray
Balmoral	Roadside	Gashs Ln	Municipality	From Coleraine Rd - roads end	Both	Spray, Burn
Balmoral	Roadside	Mathers Creek Rd	Municipality	From Coleraine Balmoral Rd - west for 6km	Both	Slash
Balmoral	Roadside	Natimuk Hamilton Rd	Municipality	From town boundary - Yarramylyup Rd	West	Spray, Plough, Burn
Balmoral	Roadside	Perns Ln	Municipality	From Coleraine Rd - roads end	Both	Slash
Balmoral	Roadside	Rocklands Rd	Municipality	From township - Balmoral Golf Club	North	Spray
Balmoral	Roadside	Township streets and reserves, Simpson St/Fairburn St	Municipality	All reserves in township		Slash, Burn, Graze
Bochara	Roadside	Claytons Rd	Municipality	From property 249 - Glenelg Hwy	North	Burn, Spray, Plough

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Bochara	Roadside	Glenelg Hwy	VicRoads	From property 1614 - McDonalds Rd	Both	Plough, Spray, Burn
Bochara	Roadside	L Powells Rd	Municipality	From property 40 200m in an east and south direction 30m wide	East and South	Burn, Spray
Bochara	Roadside	Morris Rd	Municipality	From creek crossing - Glenelg Hwy	Both	Spray, Plough, Burn
Bochara	Roadside	S Reeds Rd	Municipality	From Glenelg Hwy - property 124	Both	Burn, Plough, Spray
Bochara	Roadside	Corner of Tarranlea Rd & McGregors Rd	Municipality	Safe area within township		Burn
Branxholme	Roadside	Branxholme township	Municipality	Streets and lanes within township		Burn, Slash
Branxholme	Landscape	Railway Reserve	Victrack	railway reserve grassland	South	Burn
Brimpaen	Roadside	Andersons Rd	Municipality	From Henty Hwy - 3.5km	Both	Burn, Spray
Brimpaen	Roadside	Brooks Rd	Municipality	From Henty Hwy - G. Miller Rd	Both	Spray, Plough
Brimpaen	Roadside	Brooks Rd Extension	Municipality	From School Paddock - Glenelg Hwy	Both	Plough
Brimpaen	Roadside	Henty Hwy	VicRoads	From Hynes Rd - south for 150m	West	Slash
Brimpaen	Roadside	Hynes Rd	Municipality	From Bore access - Henty Hwy	South	Burn, Plough
Brimpaen	Roadside	Hynes Rd	Municipality	From caravan Park - Henty Hwy	Both	Slash
Brimpaen	Landscape	Hynes Rd	Municipality	Inspection by brigade at property 389 A3 to identify any works required	North/South	Inspection, slash
Brimpaen	Roadside	Hynes Rd	Municipality	Tree line in low conservation areas	Both	Slash
Brimpaen	Landscape	Hynes Reserve Camping Area	Municipality	Public camping area		Spray, Plough, Slash
Buckley Swamp	Roadside	Beesons Rd	Municipality	Madins Rd - Port Fairy Rd	Both	Spray
Buckley Swamp	Roadside	Burgins Rd	Municipality	Corner of Henty Hwy to Monivae Sub Division rd	West	Burn, Spray
Buckley Swamp	Roadside	Hamilton Port Fairy Rd	VicRoads	Corner of Langs rd to Murroa Ln	Both	Spray, Burn
Buckley Swamp	Roadside	Mt Napier Rd	VicRoads	Research Station Yatchaw rd to Kannenbergs rd	West	Burn
Buckley Swamp	Roadside	Mt Napier Rd	VicRoads	Research Station Yatchaw rd to Kannenbergs rd	West	Spray
Buckley Swamp	Roadside	Mt Napier Rd	VicRoads	From Mt Napier Access Rd - Elsoms rd	Both	Burn, Slash
Buckley Swamp	Roadside	Murroa - Buckley Swamp Rd	Municipality	Corner of Murroa-Buckley Swamp Rd to Mt Napier rd	Both	Burn, Spray
Bulart	Roadside	Diproses rd	Municipality	From Bridge on Bulart Bridge Rd - Cavendish Bulart Rd	Both	Burn, Spray, Plough

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Bulart	Roadside	Haeuslers Rd & Bulart Cavendish Rd	Municipality	From Waldrons Rd - Diproses rd	Both	Burn, Spray
Bulart	Roadside	Kearneys Rd	Municipality	From Clarkes Rd - Bulart Bridge rd	East	Spray, Burn
Bulart	Roadside	Meins Rd	Municipality	From Sharrocks Rd - Haeuslers Rd	North	Spray, Burn
Bulart	Roadside	Melville Forest Rd	Municipality	From Cavendish Coleraine Rd - Bulart Bridge, Bulart Bridge rd	South	Spray, Burn
Bulart	Roadside	Sharrocks & Crawleys Rd	Municipality	From Meins Rd - Kellys rd	South	Burn, Spray
Burn Brae	Roadside	Blackwood Dunkeld Rd	Municipality	From Hamilton Hwy - Woolsthorpe Rd	North	Spray, Burn
Burn Brae	Roadside	Hamilton Highway	VicRoads	From Depot Rd - North Gums Rd	South	Burn, Spray
Burn Brae	Roadside	Hamilton Highway	VicRoads	From North Gums rd - Purdeet Rd	South	Burn, Spray
Burn Brae	Roadside	North Gums Rd	Municipality	From Hamilton Hwy - 400m east on North Gums Rd	North	Burn, Spray
Burn Brae	Roadside	Woolsthorpe Road	Municipality	From Hamilton Hwy - Hamilton Chatsworth Rd	Both	Spray, Burn
Byaduk	Roadside	Byaduk Caves Rd	Municipality	From the end of Byaduk Caves Rd - Hannah's Rd	East	Spray, Burn
Byaduk	Roadside	Byaduk Penshurst Rd	Municipality	From Hamilton Port Fairy Rd - Warrabkook McArthur Rd	South	Burn, Spray
Byaduk	Roadside	Golf Course Byaduk Rifle Butts Rd	Municipality	From Harpers Rd - Chamberlains Rd	South	Burn, Spray
Byaduk	Roadside	Hamilton Port Fairy Rd	Municipality	From Knights Rd - 200 South of Byaduk Rifle Butts Rd	Both	Spray, Burn
Byaduk	Roadside	Hamilton Port Fairy Rd	Municipality	From Langs Rd - Byaduk Penshurst Rd	Both	Spray, Burn
Byaduk	Roadside	Harmans Rd	Municipality	From Chamberlains Rd - Hamilton Port Fairy Rd	South	Burn, Spray
Byaduk	Roadside	Harpers Rd	Municipality	From Byaduk Penshurst Rd - Byaduk Golf Course Rd	East	Spray
Byaduk	Roadside	Kinghorns Rd	Municipality	From P Christies Rd - R Christies Rd	East	Burn, Spray
Byaduk	Roadside	Sutties Rd	Municipality	From Homes Rd - Hamilton Port Fairy Rd	South	Spray, Burn
Cavendish	Roadside	Baker St	Municipality	Fire Station only		Spray, Burn
Cavendish	Roadside	Bunbury St	Municipality	Along property lines		Spray, Burn
Cavendish	Roadside	Cadden St	Municipality	From Tulloch St - Dwyer St		Spray, Burn
Cavendish	Roadside	Cameron St	Municipality	Along property lines		Spray, Burn
Cavendish	Roadside	Cavendish Dunkeld Rd	Municipality	From Gardners Rd - Victoria Point Rd	North	Plough, Spray
Cavendish	Roadside	Cavendish Dunkeld Rd	Municipality	From Mt Cavendish Rd - Property number 2350	North	Spray, Burn

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Cavendish	Roadside	Cavendish Dunkeld Rd	Municipality	From Property number 2350 - Victoria Point Rd	North	Spray, Burn
Cavendish	Roadside	Churnside St	Municipality	Along property lines		Spray, Burn
Cavendish	Roadside	Coleraine Cavendish Rd	Municipality	From Coates Rd - Dundas Creek Bridge	South	Spray
Cavendish	Roadside	Coleraine Cavendish Rd	Municipality	From Coates Rd - Henty Hwy	South	Spray, Burn
Cavendish	Roadside	Disused Railway	VicTrack	From Bunburry St - going north along rail way line for 600m	South	Spray, Burn
Cavendish	Roadside	Dwyer St	Municipality	Recreation Reserve		Spray, Burn
Cavendish	Roadside	Lockart St	Municipality	Along property lines		Spray, Burn
Cavendish	Roadside	Mokanger Rd	Municipality	From Gardeners Rd - Victoria Point Rd	South	Plough
Cavendish	Roadside	Tannery Rd	Municipality	Cemetery only		Spray, Burn
Cavendish	Roadside	Victoria Point Rd	Municipality	From Cavendish Dunkeld Rd - Mokanger Rd	West	Plough
Cavendish	Roadside	Wills St	Municipality	Along property lines		Spray, Burn
Chatsworth	Roadside	Caramut Glenthompson rd	Municipality	From Astons Rd - 1.6km North	West	Spray, Burn
Chatsworth	Roadside	Hamilton Chatsworth Rd	Municipality	From O'Connors Rd - Caramut Rd	North	Burn, Spray, Plough
Coleraine	Roadside	Cavendish Rd	Municipality	From Glenelg Hwy - Heffernans Rd	North	Burn
Coleraine	Roadside	Extension of Cameron St	Municipality	From Gray St - Cavendish Coleraine Rd	North	Burn
Coleraine	Roadside	Glenelg Hwy	Municipality	From Duck Pools Ln - Balochile	North	Burn
Coleraine	Roadside	Robertson St Stock Route	Municipality	From Payne St via Lesser St and Trangmar St	North	Burn
Condah	Roadside	Dartmoor Hamilton Rd	Vicroads	Mundal Rd - Condah Coleraine Rd		Slashed
Croxtan East	Roadside	Hamilton Chatsworth Rd	Municipality	From Lehmanns Rd - 5km South of Blackwood Dunkeld Rd	Both	Burn, Spray
Croxtan East	Roadside	Hamilton Highway	VicRoads	From Pierrepoint Rd - Alberts Rd	Both	Burn, Spray
Croxtan East	Roadside	Penshurst Dunkeld Rd	VicRoads	From Police Paddock Rd - Hamilton Chatsworth Rd	Both	Spray, Burn
Culla	Roadside	Coleraine Edenhope Rd	VicRoads	From Mooree Culla Rd - .5km North	West	Plough
Culla	Roadside	Fitzgeralds Rd	Municipality	From 103 Glenferrie Rd - 2.5km west on Mooree Culla Rd	Both	Slash
Culla	Roadside	Fitzgeralds Rd	Municipality	From Glenferrie Rd - Moree Culla Rd	Both	Graze, Burn
Culla	Roadside	Moree Culla Rd	Municipality	From 89 Moree Culla rd - Coleraine Edenhope Rd	South	Plough
Culla	Roadside	Moree Culla Rd	Municipality	From Driveway at 502797-508790 6m wide	Both	Spray

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Culla	Roadside	Scholfield Ln	Municipality	From Moree Culla Rd - 1km South of intersection	West	Spray, Slash
Dunkeld	Roadside	Blackwood Dunkeld Rd	Municipality	From 3.5 North of Hamilton Chatsworth rd - 3km North	Both	Burn, Spray
Dunkeld	Roadside	Blackwood Dunkeld Rd	Municipality	From 3.5 North of Hamilton Chatsworth rd - Glenelg Hwy	East	Burn, Spray
Dunkeld	Roadside	Dunkeld Cavendish Rd	Vicroads	Glenelg Highway - Cavendish		Slashed
Dunkeld	Roadside	Fairburn St	Municipality	From Southern end of Fairburn St - Taylor St	West	Burn, Spray
Dunkeld	Roadside	Glenelg Hwy	VicRoads	From Bundoool Rd - Bundooran Ln	South	Grading
Dunkeld	Roadside	Glenelg Hwy	VicRoads	From Bundooran Ln - Les Burgers Ln	South	Grading , Burn
Dunkeld	Roadside	Les Burgers Ln	Municipality	From Glenelg Hwy - 3.5km on Les Burgers Ln - North Boundary Rd	Both	Burn, Spray
Dunkeld	Roadside	Old Ararat Rd	Municipality	From Les Burgers Ln - McArthur St	Both	Spray, Burn
Dunkeld	Roadside	Penshurst Dunkeld Rd	VicRoads	From Glenelg Hwy - South for 6.5km	Both	Burn, Spray, Slash
Dunkeld	Roadside	Railway Easement, Skene St	Municipality	From Dunlop St - Ritchie St	Both	Burn
Gazette	Roadside	Byaduk Penshurst Rd	Municipality	from Linkes Rd - Ripponhurst Rd	South	Burn, Spray
Gazette	Roadside	Gazette Woolshed Rd	Municipality	From McArthur Penshurst Rd - for 3km to bend in road	Both	Spray, Burn
Gazette	Roadside	Krugers Rd	Municipality	From Yatchaw Rd - Banemore Ln	Both	Burn, Spray
Gazette	Roadside	Macarthur Penshurst Rd	VicRoads	From Gerrigerrup Rd - Days Ln	Both	Burn, Spray
Gazette	Roadside	Mt Napier Rd	Municipality	From McArthur Penshurst Rd - Harmans Rd	Both	Spray, Burn
Glenthompson	Roadside	Bushy Creek Rd	Municipality	From Yarrack Rd - going North for 2.5km on the East side	East	Burn, Spray
Glenthompson	Roadside	Caramut Glenthompson Rd	Municipality	From 800m South of Yarrack Rd 75 m towards Bushy Creek Rd on the West side of the Rd	West	Spray, Burn
Glenthompson	Roadside	Cherrymount Rd	Municipality	From the end of Cherrymount Rd - Caramut Glenthompson Rd	North	Spray
Glenthompson	Roadside	Donald Forbes St	Municipality	From Glenelg Hwy - Cameron St	Both	Burn
Glenthompson	Roadside	Glenelg Hwy	VicRoads	From Railway Crossing - Phillips Ln	South	Spray, Burn
Glenthompson	Roadside	Henry St	Municipality	From Wyselaskie St - Donald Forbes St	Both	Burn
Glenthompson	Roadside	McLeod St	Municipality	From Glenelg Hwy to end of street	Both	Burn
Glenthompson	Roadside	Mitchell St	Municipality	From Cameron St - end of street	Both	Burn
Glenthompson	Roadside	Phillips Ln	Municipality	From Glenelg Hwy heading South for 2.5km	West	Spray, Burn

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Glenthompson	Roadside	Phillips Ln	Municipality	From Williams Rd heading north for 1.5km	East	Spray, Burn
Glenthompson	Roadside	Railway Reserve	VicTrack/Vline		Both	Burn
Glenthompson	Roadside	Station St	Municipality	From Hanson St - McLennan St	Both	Burn
Glenthompson	Roadside	Vanrenens Ln	Municipality	From Caramut Glenthompson Rd for 800m	South	Spray
Glenthompson	Roadside	Williamsons Rd	Municipality	From Christies Ln for 3km on the South side	South	Spray
Glenthompson	Roadside	Yarrack Rd	Municipality	From Bushy Creek Rd - end of Yarrack Rd	South	Spray, Burn
Grange	Roadside	Dennerts Rd	Municipality	From Robson Rd - Caldows Rd	Both	Burn, Spray
Grange	Roadside	Glenelg Hwy	VicRoads	from Robson Rd - Thompsons Rd	Both	Spray, Burn, Slash
Grange	Roadside	Hamilton Chatsworth Rd	Municipality	From Glenelg hwy - Caldows Rd	Both	Slash
Grange	Roadside	Strathkeller Rd	Municipality	From Robson Rd going West for 3kms	Both	Spray, Burn
Gringe	Roadside	Coleraine Balmoral Rd	VicRoads	From 3178 Coleraine Balmoral rd - Gringe Dip Rd	West	Spray
Gringe	Roadside	Coleraine Balmoral Rd	VicRoads	From Gringe Dip Rd - Connells Ln	East	Spray
Gringe	Roadside	Coojar Brit-Brit Hillview rd	VicRoads	From Gilberts Rd - Robertsons Creek	North	Spray
Gringe	Roadside	Greys Rd	Municipality	From 578 Greys Rd - Mellville Forest Rd	Both	Spray, Burn
Gringe	Roadside	Hodgons Ln	Municipality	From Coleraine Balmoral Rd - Coojar Brit-Brit Hillview Road	Both	Burn, Spray
Gringe	Roadside	Mellville Forest Vasey Rd	Municipality	From 500m South of Watts Rd - Greys Rd	East	Spray, Burn
Gringe	Roadside	Public Hall Balmoral Coleraine Rd	Municipality	From boundary of Fire Station land to boundary of Public Hall land	Both	Slash, Burn
Gringe	Roadside	Schmidts Ln	Municipality	From Coleraine Balmoral Rd - 4kms to property 179	Both	Burn, Spray
Gritjurk	Roadside	Calton Hill Rd	Municipality	From Cavendish Rd - Carrolls Rd	Both	Graze, Spray, Burn
Gritjurk	Roadside	Cavendish Coleraine Rd	Municipality	From Property 3526 - Douglas Rd	East	Burn, Spray, Slash
Gritjurk	Roadside	Langleys Rd	Municipality	From Wilderness Rd - 219 Langleys Rd	Both	Slash, Spray, Burn
Gritjurk	Roadside	Parkwood Rd	Municipality	From Wilderness Rd - 433 Parkwood Rd	South	Burn, Spray
Gritjurk	Roadside	Roulstons Rd	Municipality	From Wilderness Rd - Cavendish Coleraine Rd	East	Spray, Burn
Gritjurk	Roadside	Toolang Rd	Municipality	From Glenelg Hwy - Wilderness Rd	East	Burn, Spray
Gritjurk	Roadside	Wilderness Rd	Municipality	From Cavendish Coleraine Rd - Toolang Rd	North	Spray, Burn
Hamilton	Roadside	Grange Burn Reserve	Municipality	DELWP managed paddocks	Both	Slash

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Hamilton	Roadside	Hamilton Coleraine Railway Reserve Lodge Rd	Committee of Management	From Portland Rd - 1.2kms south on Lodge Rd		Slash
Hamilton	Roadside	Hamilton Highway	Vicroads	Hamilton town boundary - West Boundary Rd		Slashed
Hamilton	Roadside	Hamilton Police Paddocks	DELWP	From Kennedy St - Greed St		Slash
Hamilton	Roadside	Hamilton Port Fairy Rd	Vicroads	Monivae Subdivision Rd - Weerangourt Ck		Slashed
Hamilton	Landscape	Hamilton Tip	Municipality	Elijha St	Tip boundaries	Slash/Burn
Hamilton	Landscape	Lakes Edge	Municipality	Rear of Monivae School at the end of Hyland St	Behind houses adjacent to Monivae School grounds	Burn
Hamilton	Roadside	Martin St	Municipality	Grass area at bottom of walk way, from Terril Way		Burn
Hamilton	Landscape	Palmer St/Victoria Park	Municipality	Grassland from bottom of walk area to Palmer St Victoria Park	Rear of Hamilton Auto Wreckers adjacent to grain pits	Burn
Hamilton	Roadside	Snake Island (upstream end of Lake Hamilton)	Municipality			Burn
Hensley Park	Roadside	J Bromells Rd	Municipality	From Hensley park Rd - end of J Bromwells Rd	Both	Spray, Burn
Hensley Park	Roadside	Noskes Subdivision Rd	Municipality	From Hensley Park Rd - Skene Woolshed Rd	South	Burn, Spray
Hensley Park	Roadside	Old Adelaide Rd	Municipality	From Sken Woolshed Rd - Warburton Rd	South	Spray, Burn
Hilgay Settlers	Roadside	Lower Hilgay Rd	Municipality	From Hilgay Ln - Coleraine Cemetry on Lower Hilgay Rd	South	Burn, Slash
Hilgay Settlers	Roadside	Top Hilgay Rd	Municipality	From Middle Rd - end of Top Hilgay Rd	Both	Slash
Karabeal	Roadside	Bundol Rd	Municipality	From Dunkeld Cavendish Rd - Glenelg Hwy	Both	Burn, Spray
Karabeal	Roadside	Dunkeld Cavendish Rd	VicRoads	From Bundol Rd - Victoria point Rd	Both/Alternate	Spray, Burn
Karabeal	Roadside	Mayfields Rd	Municipality	From Victoria - R Walters Rd	Both	Slash
Karabeal	Roadside	Victoria Point Rd	Municipality	From property 1391 - Seymours Rd	Both	Spray, Burn
Konongwootong	Roadside	Coleraine Balmoral Rd	VicRoads	From property 1633 - going south for 1km	West	Slash
Konongwootong	Roadside	Coleraine Edenhope Rd	VicRoads	From property 1618A - going south for 1km	one side of road	Plough
Konongwootong	Roadside	Public Hall	Municipality	Around the Public Hall Grounds		Burn

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Linlithgow	Roadside	S Rentschs Ln	Municipality	From Chatsworth Rd - east to Forbes Rd and North to Penshurst Dunkeld Rd	Both	Plough, Spray
Linlithgow	Roadside	Boundary Rd	Municipality	From Hufs Back Ln - Lake Linlithgow Rd	Both	Spray
Linlithgow	Roadside	Finkemeyers Ln	Municipality	From North lake Rd - Rudolphs Rd	Both	Spray
Linlithgow	Roadside	Lake Bullrush	Municipality	From perimeter of lake bed within break		Burn, Slash, Spray, Plough
Linlithgow	Landscape	Lake Linlithgow	Parks Victoria	East bank camping area		Slash
Linlithgow	Landscape	Lake Linlithgow	Parks Victoria	North bank		Slash
Linlithgow	Landscape	Lake Linlithgow	Parks Victoria	North Lake Rd, North bank boat ramp		Burn
Linlithgow	Roadside	Penshurst Dunkeld Rd	Municipality	From Chatsworth Hamilton Rd - north		Plough over sprayed break, Spray
Linlithgow	Roadside	Penshurst Dunkeld Rd	Municipality	From Chatsworth Hamilton Rd - north for 8km		Burn
Linlithgow	Roadside	Rentschs Ln	Municipality	From Lake Linlithgow Rd - Finkemeyers Ln	Both	Spray
Melville Forest	Roadside	Coleraine Rd	Municipality	From Melville Forest Vasey Rd - property at 2369	South	Plough, Burn
Melville Forest	Landscape	Coleraine Rd	Municipality	Telephone Exchange		Burn
Melville Forest	Landscape	Dundas Gap Rd	Municipality	Community Centre and School House	South	Burn
Melville Forest	Roadside	Dundas Gap Rd	Municipality	From Melville Forest Vasey Rd - property at 668	North	Burn, Spray, Slash
Melville Forest	Roadside	Melville Forest Vasey Rd	Municipality	From Armstrongs Rd - property at 1482	Both	Plough
Melville Forest	Roadside	Melville Forest Vasey Rd	Municipality	From Coleraine Rd - Armstrongs Rd	West	Plough
Minhamite	Roadside	Warrnambool Penshurst Rd	VicRoads	From Kolor Ln - going north to property 4836	Both	Burn, Spray, control elm suckers on west side of the road as required
Mirranatwa	Roadside	Back Rd	Municipality	From Jensons Ln - Mirranatwa School Rd	Both	Burn, Spray
Mirranatwa	Roadside	Grampians Tourist Rd TBC	Municipality	From Victoria Valley Rd - Dwyer Creek Bridge	North	Spray, Burn
Mirranatwa	Roadside	Mirranatwa School Rd	Municipality	From Back Rd - Mirranatwa Rd	Both	Burn, Spray
Mirranatwa	Roadside	Victoria Valley Rd	VicRoads	From Beveridges Rd - junction at Grampians Tourist Rd TBC	West	Burn, Spray
Mirranatwa	Roadside	Victoria Valley Rd	VicRoads	From Victoria Point Rd - Dwyer Creek Bridge	Both	Burn, Spray
Mooralla	Roadside	Craigs Rd	Municipality	From Gartons Rd - East West Rd	Both	Burn, Slash in lieu of burning

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Mooralla	Roadside	East West Rd	Municipality	From Hallams Rd - Henty Hwy	Both	Burn, Spray, Slash in lieu of burning
Mooralla	Roadside	Henty Hwy	VicRoads	From Old Henty Hwy - Montana Rd	Both	Spray, Burn, Slash in lieu of burning
Mooralla	Roadside	Kesall Soldier Settlement Rd/Snells Rd	Municipality	From Montana Rd - Tea Tree creek	Both	Spray, Burn, Slash in lieu of burning
Mooralla	Roadside	Luhrs Rd	Municipality	From Montana Rd - for 3km	Both	Slash in lieu of burning, Spray, Burn
Mooralla	Roadside	McCutcheons Rd	Municipality	From Henty Hwy - property 522	Both	Burn, Spray, Slash in lieu of burning
Mooralla	Roadside	Montana Rd	Municipality	From East West Rd - going south for 13km	Both	Slash in lieu of burning, Spray, Burn
Muntham	Roadside	Dochanassie Rd	Municipality	From Sandford Rd - Glenelg Hwy	Both	Burn
Muntham	Roadside	Glenelg Hwy	VicRoads	From Muntham Rd - Den Hills Rd	Both	Burn
Nareen	Roadside	Chetwynd River Council Reserve	Municipality	6 HA reserve		Burn
Nareen	Roadside	Coleraine Nareen Moree Rd	Municipality	From Steep Gully Rd - property 1616	West	Slash, Plough
Nareen	Roadside	Coleraine Nareen Moree Rd	Municipality	McDougalls Ln	Both	Slash
Nareen	Roadside	Nareen Public Hall	Municipality	Area around the hall		Graze, Slash
Nareen	Roadside	Steep Gully Rd	Municipality	From Knapdale Ln - Nareen Rd		Slash
North Balmoral	Landscape	Balmoral Education Centre	Government	Reserves around the school site		Slash
North Balmoral	Roadside	Balmoral Railway siding and reserve	VicTrack/DELWP	From Harrow Balmoral Rd - Five Ways Rd, along Station St siding	Both	Burn
North Balmoral	Landscape	Balmoral Recreation Reserve	DELWP	As mapped by VMO. Crown Land, under committee of management		Burn/Grade
North Balmoral	Landscape	Balmoral Wetlands	DELWP	Grassed areas around Wetlands		Graze
North Balmoral	Roadside	Burdetts Rd	Municipality	From Harrow Balmoral Rd - Five Ways Rd	West	Burn, Spray
North Balmoral	Roadside	Edgewood Rd	Municipality	From Natimuk Hamilton Rd - property 746A	South	Spray, Burn
North Balmoral	Roadside	Five Ways Rd	Municipality	From Natimuk-Hamilton Rd - Kearns Rd	Both	Burn, Spray
North Balmoral	Roadside	Harrow Balmoral Rd	Municipality	From Balmoral High School - property 989	South	Plough
North Balmoral	Roadside	Hobbs Rd	Municipality	From Harrow Balmoral Rd - Camerons Rd	Both	Spray, Burn, Plough

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
North Balmoral	Roadside	Kearns Rd	Municipality	From Five Ways Rd - Natimuk Hamilton Rd	North	Burn, Spray
North Balmoral	Roadside	Natimuk Hamilton Rd	VicRoads	Unused Railway Reserve which runs adjacent on the West side of the road from the township going north to the Glenelg River	West	Spray, Plough , Burn
North Balmoral	Roadside	Yat Nat Rd	Municipality	From Natimuk Hamilton Rd - property at 216A	Both	Burn, Spray, Plough
North Byaduk	Roadside	Hamilton Port Fairy Rd	VicRoads	From 1km north of property 7039 - Byaduk Hannahs Rd	East	Slash, Burn
North Byaduk	Roadside	Murroa Buckley Swamp Rd	Municipality	From 5km East - Hamilton Port Fairy Rd	South	Spray, Plough, Burn
North Hamilton	Roadside	Balkins Rd	Municipality	From Chaddertons Rd - Fairburns Rd	Both	Burn, Spray
North Hamilton	Roadside	Beveridges Rd	Municipality	From Henty Hwy - Hensley Park Rd	Both	Spray, Burn
North Hamilton	Roadside	Bullocks Rd	Municipality	From Glenelg Hwy - Murrays Rd	Both	Burn, Spray
North Hamilton	Roadside	Chaddertons Rd	Municipality	From Balkins Rd - Glenelg Hwy	Both	Spray, Plough, Burn
North Hamilton	Roadside	Clifton Rd	Municipality	From property 427 - Jackson Rd	South	Burn, Spray
North Hamilton	Roadside	Fairburns Rd	Municipality	From Balkins Rd - Cliftons Rd	Both	Burn, Spray
North Hamilton	Roadside	Glenelg Hwy	VicRoads	From Chaddertons Rd - Fairburns Rd	Both	Burn, Plough
North Hamilton	Landscape	Hamilton Community Parklands	DELWP	Bandicoot enclosure on the north side of North Boundary Rd		Slash, Burn
North Hamilton	Roadside	Henty Hwy	VicRoads	From Glenelg Hwy - Murrays Rd	East	Burn, Slash
North Hamilton	Roadside	Jacksons Rd	Municipality	From Pelchens Rd - Cliftons Rd	Both	Spray, Burn
North Hamilton	Roadside	Kennys Rd	Municipality	From Sobey's Ln - Mt Bainbridge Rd	Both	Burn, Spray
North Hamilton	Roadside	Kinnanes Rd	Municipality	From Gibbons Rd - Beveridges Rd	North	Spray, Burn
North Hamilton	Roadside	Lovetts Rd	Municipality	From Balkins Rd - end of Lovetts Rd	Both	Burn, Slash, Spray
North Hamilton	Roadside	Marhsalls Rd	Municipality	From Mt Bainbridge Rd - Beveridge Rd	Both	Spray, Burn
North Hamilton	Roadside	Marhsalls Rd/Hamilton motorcycle and 4wd club	Municipality	Brigade to assist clubs with fuel management and reduction at their site to		Burn

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
				minimise risk to adjoining reserve		
North Hamilton	Roadside	Mt Bainbridge Rd	Municipality	From North Boundary Rd - Beveridges Rd	Both	Burn, Spray
North Hamilton	Roadside	Murrays Rd	Municipality	From Bullocks Rd - Henty Hwy	Both	Spray, Burn, Slash
North Hamilton	Roadside	North Boundary Rd	Municipality	From Bree Rd (Scout Hall) - Hensley Park Rd (Golf Club)	North	Slash, Burn
North Hamilton	Roadside	North Boundary Rd	Municipality	From Sobeyes Ln - Mt Bainbridge Rd	Both	Burn, Spray
North Hamilton	Roadside	North Boundary Rd	Municipality	From Speedway entrance to property 73 North Boundary Rd	North	Burn, Spray
North Hamilton	Roadside	Sobeyes Ln	Municipality	From North Boundary Rd - Ackerleys Rd	Both	Burn, Spray
North Hamilton	Roadside	West Boundary Rd	Municipality	Adjacent to North Hamilton Primary School		Slash
Penshurst	Roadside	Hamilton Highway	Vicroads	From Alberts Rd - Underwood Ln	Both	Slash, Burn, Spray
Penshurst	Roadside	Hamilton Highway	Vicroads	From Dunkeld Penshurst Rd - Depot rd	Both	Slash, Burn, Spray
Penshurst	Roadside	Penshurst Dunkeld Rd	Vicroads	From Police paddock Rd - Hamilton Hwy	Both	Spray, Burn
Pigeon Ponds	Roadside	Public Hall & Church	Municipality	Edenhope Coleraine Rd		Burn
Pigeon Ponds	Roadside	Telephone Exchange	Telstra	Coojar Telephone Exchange		Burn
Strathkellar	Roadside	Campbell Rd	Municipality	From Strathkellar Rd - Railway Crossing	Both	Plough
Strathkellar	Roadside	Doling Rd	Municipality	From Forts Rd - Beveridge Rd	Both	Burn, Spray, Plough
Strathkellar	Roadside	Forts Rd	Municipality	From Doling Rd - Skene Woolshed Rd	Both	Plough, Burn, Spray
Strathkellar	Roadside	Hamilton Ararat Railway Line	Victrack	From property 14 Strachans Rd - Campbell Rd and along the railway reserve	North	Plough, Burn, Spray
Strathkellar	Roadside	Schneiders Rd	Municipality	From Doling Rd - property 96 Schneidners Rd	North	Plough, Spray
Strathkellar	Roadside	Seymours Rd	Municipality	From Skene Woolshed Rd - Warburtons Rd	Both	Spray, Burn, Plough
Strathkellar	Roadside	Skene Woolshed Rd	Municipality	From Seymours Rd - Forts Rd	West	Spray, Burn, Plough
Strathkellar	Roadside	Skene Woolshed Rd	Municipality	From Strathkellar Rd - property 1528 Skene Woolshed Rd	West	Spray, Burn, Plough
Strathkellar	Roadside	Strathkellar Rd	Municipality	From Victoria Point Rd - 1.5km West to creek	South	Burn, Spray, Slash
Strathkellar	Roadside	Victoria Point Rd	Municipality	From Strathkellar Rd - property 2914	Both	Spray, Slash

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Strathkellar		Warburtons Rd	Municipality	From Seymours Rd - Strathkellar Rd	West	Slash, Spray, Plough
Strathmore	Roadside	Bundoran Ln	Municipality	From Glenelg Hwy - Church Ln	North	Plough, Spray, Burn
Strathmore	Roadside	Burnside Ln	Municipality	From Old Ararat Rd - Glenelg Hwy	West	Burn, Spray, Plough
Strathmore	Roadside	Glenelg Hwy	VicRoads	From property 5053 Glenelg Hwy - Les Burgers Ln	South	Plough, Spray, Burn
Strathmore	Roadside	Lovadale Ln	Municipality	From Glenelg Hwy - Bundoran Ln	East	Burn, Plough, Spray
Strathmore	Roadside	Old Arart Rd	Municipality	From Les Burgers Ln - Burnside Ln	South	Spray, Burn, Plough
Strathmore	Roadside	Simpsons Ln	Municipality	From Blackwood Dunkeld Rd - Corea Ln	South	Plough, Spray, Burn
Strathmore	Roadside	Vanrenens Ln	Municipality	From Lovatdale Rd - Dingwalls Ln	Both	Burn, Spray, Plough
Tahara	Roadside	Murndal rd	Municipality	From property 1549 - Shire boundary	South	Burn, Slash, Spray
Tarrayoukyan	Roadside	Nareen Rd	Municipality	From Moree Rd - going south east for ??km where practical	Both	Plough
Tarrayoukyan	Roadside	Careys Rd	Municipality	From Gartlans Rd to Koolomurt West Rd	Both	Plough
Tarrayoukyan	Roadside	Coojar Ln	Municipality	From Nareen Rd - Blackwood La	Both	Plough
Tarrayoukyan	Roadside	Gibsons Rd	Municipality	From Nareen Rd - 200A Gibsons Rd	Both	Plough
Tarrayoukyan	Roadside	Koolomurt Rd	Municipality	Nareen Rd to Pigeon Ponds Creek	Both	Plough
Tarrayoukyan	Roadside	Mulloys Rd	Municipality	Nareen Rd to Tarrayoukyan Rd	Both	Slash
Tarrayoukyan	Roadside	Nareen Rd	Municipality	Telephone Exchange	Both	Slash, Spray
Tarrayoukyan	Roadside	Portland Ln	Municipality	From Schofields Rd - Nareen Rd	Both	Plough
Tarrenlea	Roadside	Coleraine Racecourse	Municipality	Inside of track grassed area		Burn
Tarrenlea	Roadside	Four Mile Rd	Municipality	From Austral Park Rd - Rows Rd	East	Burn
Tarrenlea	Roadside	Gores Rd	Municipality	From Tarrenlea Wannoo Rd - to road intersection	Both	Burn
Tarrenlea	Roadside	Tarrenlea Rd	Municipality	Adjacent to Fire Station	East	Burn
Tarrington	Roadside	Glenelg Hwy	VicRoads	From the Grange Burn - Caldows Rd	Both	Burn, Slash, Spray
Tarrington	Roadside	Hamilton Highway	VicRoads	From Kurtzes Rd - West Boundary Rd, excluding township	Both	Spray, Slash, Burn
Tarrington	Roadside	Kurtzes Rd	Municipality	From Hamilton Hwy - Hamilton Chatsworth Rd	Both	Burn, Spray, Slash
Tarrington	Roadside	Mt Napier Rd	Municipality	From Kannenbergs Rd - South Boundary Rd	Both	Slash, Spray, Burn

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Tarrington	Roadside	W Schultzs Rd	Municipality	From Tarrington Strathkellar Rd - Kurtzes Rd	Both	Burn, Spray, Slash
Various	Roadside	Glenelg Hwy	Vicroads	Coleraine Balmoral Rd - Casterton		Slashed
Various	Roadside	Glenelg Hwy	Vicroads	Fairburns Rd - Roberts Rd		Slashed
Various	Roadside	Glenelg Hwy	Vicroads	Robsons Rd - Christies Lane		Slashed
Various	Roadside	Hamilton Highway	Vicroads	West Boundary Rd - Penshurst		Slashed
Various	Roadside	Hamilton Highway	Vicroads	Penshurst - Caramut		Slashed
Various	Roadside	Penshurst Dunkeld Rd	Vicroads	Penshurst - Glenelg Highway		Slashed
Vasey	Roadside	Bells Rd	Municipality	From Natimuk Hamilton Rd - Vasey Gatum Rd	South	Slash, Burn
Vasey	Roadside	East West Rd	Municipality	From Natimuk Hamilton Rd - Waters Rd	Both	Burn, Slash
Vasey	Roadside	Glendinning Caddens Flat Rd	Municipality	From Natimuk Hamilton Rd - Yarramyjup Rd	Both	Slash, Spray, Burn
Vasey	Roadside	Glendinning Cavendish Rd	Municipality	From Glendinning Rd - East West Rd	Both	Burn, Spray, Slash
Vasey	Roadside	Lyons Rd	Municipality	From Bells Ln - Masons Rd	Both	Graze
Vasey	Roadside	Melville Forest Vasey Rd	Municipality	From Natimuk Hamilton Rd - Bodens Rd	Both	Spray
Vasey	Roadside	Melville Forest Vasey Rd	Municipality	Public Hall and Fire Station site		Slash, Burn
Vasey	Roadside	Natimuk Hamilton Rd	VicRoads	From Englefield Rd - Masons Rd	West	Spray, Burn, Plough
Vasey	Roadside	Yarramyjup Rd	Municipality	From Natimuk Hamilton Rd - Glendinning Rd	North	Plough, Spray
Wando Heights	Landscape	Fire Station	Municipality	Fire Station grounds		Burn, Spray, Slash
Wando Heights	Roadside	Kochs Rd	Municipality	From Nareen Rd - property 160A	one side of road	Burn, Plough, Spray
Wando Heights	Roadside	Satimer Rd	Municipality	From property 1039 - Coleraine Moree Rd	one side of road	Spray, Burn
Wando Heights	Roadside	Tiemeys Rd	Municipality	From property 250A - Haydens Rd	Both	Burn
Wando Heights	Roadside	Tulse Hill Carapook Rd	Municipality	From property 1249 - Tulse Hill Settlement Rd	Both	Burn, Slash
Wurrayure-Moutajup	Roadside	Glenelg Hwy	VicRoads	From Grange Burn - Mill Rd	Both	Slash, Spray, Plough, Burn
Wurrayure-Moutajup	Roadside	Lehmanns's Rd	Municipality	From Chatsworth Rd - Montrose Ln	Both	Spray, Burn
Wurrayure-Moutajup	Roadside	Lehmanns's Rd	Municipality	From Chatsworth Rd - Rudolphs Ln	North	Burn, Slash, Spray, Plough

Brigade	Program	Road/ Address	Road Manager	Location (From - To)	Road side or both	Treatments
Warrayure-Moutajup	Roadside	N Mibus Rd	Municipality	From Lehmans Rd - Glenelg Hwy	Both	Burn, Slash, Spray, Plough
Warrayure-Moutajup	Roadside	North Lakes Rd	Municipality	From Lehmans Rd 1.6kms east of Hufs back Rd	South	Burn, Slash
Warrayure-Moutajup	Roadside	Seymours Rd	Municipality	From Mcintyres Crossing Rd - Warburtons Rd	Both	Spray, Plough
Warrayure-Moutajup	Roadside	Warburtons Rd/ S Forsythe Rd	Municipality	From Glenelg Hwy - Ararat Railway Line	Both	Plough, Spray, Burn
Warrayure-Moutajup	Roadside	West Lakes Rd	Municipality	From Montrose Ln - Lehmanns Rd	Both	Burn, Plough, Spray
Woodhouse	Roadside	Arnolds Rd	Municipality	From west end of road - east end	Both	Spray
Woodhouse	Roadside	Blackwood Dunkeld Rd	Municipality	From Chatsworth Hamilton Rd - Church Ln	Both	Spray, Burn
Woodhouse	Roadside	Bulls Ln	Municipality	From Hamilton Chatsworth Rd - Arnolds Ln	Both	Spray
Woodhouse	Roadside	Bundoran Ln	Municipality	From property 1558 - Gravel Pit Ln	Both	Spray, Burn
Woodhouse	Roadside	Bundoran Ln	Municipality	Gravel Pit Ln - Public Hall	East	Spray, Burn
Woodhouse	Roadside	Bundoran Ln	Municipality	Public Hall - Hamilton Chatsworth Rd	West	Spray, Burn
Woodhouse	Roadside	Hamilton Chatsworth Rd	Municipality	From Blackwood Dunkeld Rd - O'Connors Ln	Both	Spray, Burn
Woodhouse	Roadside	Simpson's Ln	Municipality	From Blackwood Dunkeld Rd - Corea Ln	South	Burn, Spray, Plough
Wootong Vale	Roadside	Coleraine Balmoral Rd	VicRoads	From Zig Zag Rd - Coleraine Edenhope rd	East	Slash, Spray
Wootong Vale	Roadside	Douglas Rd	Municipality	From Coleraine Balmoral Rd - property 369	North	Spray, Slash
Yulecart	Roadside	Church Rd	Municipality	From Ormandy's Rd - Hamilton Dartmoor Rd	West	Spray, Plough, Burn
Yulecart	Roadside	Digby Rd	Municipality	From Cliftons Rd - Morgiana Rd	South	Burn, Spray, Plough
Yulecart	Roadside	Henty Hwy	VicRoads	From Beesons Rd - Williams Rd	Both	Plough, Spray, Burn
Yulecart	Roadside	McKellars Rd	Municipality	From property 280 - Digby Rd	Both	Burn, Plough, Spray
Yulecart	Roadside	Morgiana Rd	Municipality	From property 593 - Digby Rd	Both	Spray, Plough, Burn
Yulecart	Roadside	Ormandy Rd	Municipality	From Williams Rd - Church Rd	South	Burn, Spray, Slash

Appendix G: Terminology used in this Plan

Acceptable risk	The level of potential losses that a society or community considers acceptable, given existing social, economic, political, cultural, technical and environmental conditions.
Assets and values¹	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.
Assumption	A conclusion that is reached based on the information available at the time.
Community	A group of people with a commonality of association and generally defined by location, shared experience or function.
Community based disaster risk management³	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'.
Consequence	Outcome or impact of an event.
Critical infrastructure	<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"> • telecommunications • electrical power systems • gas and oil storage and transportation • banking and finance • transportation • water supply systems (and sewerage). <p>Adapted from Critical Infrastructure Advisory Council (CIAC).</p>
Elements at risk	The population, buildings and civil engineering works, economic activities, public services and infrastructure etc. exposed to sources of risk.
Emergency	An event, actual, or imminent that endangers or threatens to endanger life, property or the environment, and that requires a significant and coordinated response.

¹ Code of Practice for Emergency Management on Public Land
 Southern Grampians Municipal Fire Management Plan D/19/5641
 Uncontrolled document once printed

Essential service (Essential Services Commission Act 2001)	A service (including the supply of goods) provided by: <ul style="list-style-type: none"> • the electricity industry • the gas industry • the ports industry • the grain handling industry • the rail industry • the water industry • (g) any other industry prescribed for the purpose of this definition.
Event	Occurrence of a particular set of circumstances. An incident or situation that occurs in a particular place during a particular interval of time.
Frequency	A measure of the number of occurrences per unit of time.
Fire	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"> • A fire; and • An explosion, • A road accident or any other accident, • A disruption
Hazard	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.
Impact	See consequence.
Leadership group	A subgroup of the broader committee comprising the risk category, technical knowledge and experience.
Likelihood	Used as a general description of probability or frequency – can be expressed qualitatively or quantitatively.
Loss	Any negative consequence or adverse effect – financial or otherwise.
Mitigation	Measures taken in advance of a disaster, aimed at decreasing or eliminating its impact on society and environment.
Monitor	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.
Organisation	Group of people and facilities with an arrangement of responsibilities, authorities and relationships.
Practicable	What is realistic to achieve in the context of: <ul style="list-style-type: none"> ▪ the severity of the hazard or risk in question ▪ the state of knowledge about that hazard or risk and any ways of removing or mitigating that hazard or risk ▪ the availability and suitability of ways to remove or mitigate that hazard or risk ▪ the cost of removing or mitigating that hazard or risk.

Preparedness	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.
Prevention	Regulatory and physical measures to ensure that emergencies are prevented, or their effects mitigated.
Probability	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.
Recovery	The coordinated process of supporting emergency affected communities in the reconstruction of the physical infrastructure and restoration of emotional, social, economic and physical wellbeing.
Residual risk	Risk remaining after implementation of risk treatment.
Resilience	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
Response	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.
Risk	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 ⁶ .
Risk analysis	Systematic process to understand the nature of, and deduce, the level of risk.
Risk assessment	The overall process of risk identification, analysis and evaluation
Risk criteria	Terms of reference by which the significance of risk is assessed.
Risk evaluation	Process of comparing the level of risk against risk criteria.
Risk identification	The process of determining what, where, when, why and how something could happen.
Risk management	The culture, process and structures that are directed towards realising potential opportunities whilst managing adverse effects.
Risk management process	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.
Risk reduction	Actions taken to lessen the likelihood, negative consequences, or both, associated with a risk.
Risk register	A listing of risk statements describing sources of risk and elements at risk, with assigned consequences, likelihoods and levels of risk.

Risk treatment	Process of selection and implementation of measures to modify risk. The term 'risk treatment' is sometimes used for the measures themselves.
Source of risk	Source of potential harm.
Stakeholders	Those people and organisations who may affect, be affected by, or perceive themselves to be affected by a decision, activity or risk.
Susceptibility	The potential to be affected by loss.
Tolerable Risk	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.
Treatment	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.
Treatment (adequacy) assessment	Systematic review of processes to ensure that controls are still effective and appropriate.
Vulnerability	The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards.
Vulnerable people (DHHS definition)	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.

Appendix H Acronyms used in this Plan

BSW	Barwon South West
CFA	Country Fire Authority
IAP2	International Association of Public Participation
IFMP	Integrated Fire Management Planning
MEMP	Municipal Emergency Management Plan
MEMPC	Municipal Emergency Management Planning Committee
MFMC	Municipal Fire Management Consultative Committee
MFMP	Municipal Fire Management Plan (This document)
MFMPCC	Municipal Fire Management Planning Committee
MFPC	Municipal Fire Prevention Committee
MFPO	Municipal Fire Prevention Officer
MFPP	Municipal Fire Prevention Plan
MWG	Municipal Working Group
NERAG	National Emergency Risk Assessment Guidelines
NSP	Bushfire Neighbourhood Safer Place – Place of Last Resort
PPRR	Planning Preparedness Response Recovery
RSFMPC	Regional Strategic Fire Management Planning Committee
SFMPC	State Fire Management Planning Committee
SFMPS	State Fire Management Planning Support Team
SGSC	Southern Grampians Shire Council
SGS LGA	Southern Grampians Shire Local Government Area
TPP	Township Protection Plan
VFRR	Victorian Fire Risk Register

Appendix I MFMP Key Action Summary

Action	Timeline	Plan reference	
Review and adopt MFMP	March 2019	Section 6	
Update Terms of Reference	March 2019		
MFMP audit	June 2019		
Review VFRR-B (2 yearly)	2019		
Development of structural fire component	2019/20		
Development of hazardous materials fire component	2019/20		
Review MFMP - major	TBA 2020		
NSP-PLR checks	Annual timeline		
Update fire prevention activities	Ongoing		
Fire Access Road Subsidy submissions – annually	To SGSC May MFMP approval October To CFA mid November		
Engagement – Brigade Advisory Committee. 2 per year.	May – incl FARSS proposals Nov – before FARSS submissions		
Receive agency reports of achievement of plans	Annual cycle	Section 6	