**Lachlan Valley National Park** Office of **Environment & Heritage Towyal Precinct** SW National Parks & Wildlife Service **Fire Management Strategy 2012** 

This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans. These data are not guaranteed to be free from error or omission. The NSW National Parks and Wildlife and its employees disclaim liability for any act done on the information in the data and any consequences of such acts or omissions. This document is copyright. Apart from any fair dealing for the purpose of study, research criticism or review, as permitted under the copyright Act, no part may be reproduced by any process without written permission. This strategy is a relevant Plan under Section 38 (4) and Section 44 (3) of Rural Fires Act 1997. The NSW National Parks and Wildlife Service is part of the Office of Environment and Heritage. Published by the Office of Environment and Heritage (NSW), August 2012.

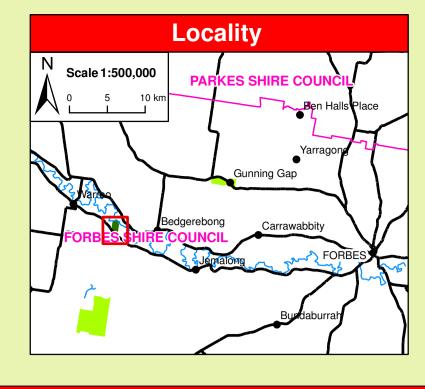
Contact: OEH PWG Regional Office: 200 Yambil St, Griffith NSW 2680 P.O. Box 1049 Griffith NSW 2680 ph. 02 6966 8100

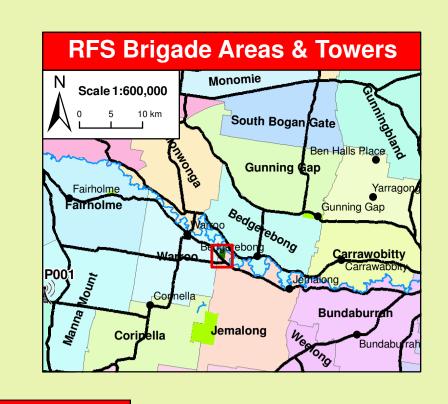
ISBN 978 1 74293 758 8 OEH 2012/0624 Published August 2012 Version 1.0

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Datum: Geocentric Datum of Australia (GDA) 1994	Topographic Maps
Projection: Map Grid of Australia (MGA) Zone 55	1:50k - Jemalong 8431S (AGD 1966)
Data: Spot Satellite Imagery: 2005.	
	Projection: Map Grid of Australia (MGA) Zone 55

Scale: Noted scales are true when printed on A1 size paper.

Mapsheet 1 of 1





Contact Information		
Agency	Position / Location	Phone
National Parks	Duty Officer (8am-10pm)	<b>02</b> 6332 6350
& Wildlife Service	Forbes Area Office 1 Camp St	<b>02</b> 6851 4429
NSW Rural Fire Service Mid Lachlan Valley Team	Fire Control Centre 26 Union St Forbes	<b>02</b> 6851 1541
Forests NSW	Forbes Office	<b>02</b> 6850 2927
Emergency		000
Fire and Rescue NSW	Forbes Fire Station	<b>02</b> 6851 1843
Police - Local Area Command	Forbes	<b>02</b> 6853 9999
SES	State	13 2500
323	Lachlan	<b>02</b> 6863 8100
Hospital	Forbes District	<b>02</b> 6850 2000
Council	Forbes Shire Council After Hours	<b>02</b> 6850 2300 1300 978 633

		Fire Season Information
Wildfires	• • •	The critical wildfire season generally occurs from November through to February.  Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the north, high day time temperatures and low humidity.  Particular care is required following periods of winter rain and after periods of negative Southern Oscillation Indices.
Prescribed Burning	• •	Prescribed burning should generally be undertaken during Autumn, Winter or early Spring Care should be taken to ensure sufficient fuel is available to allow a low to moderate burn over most of the area identified.

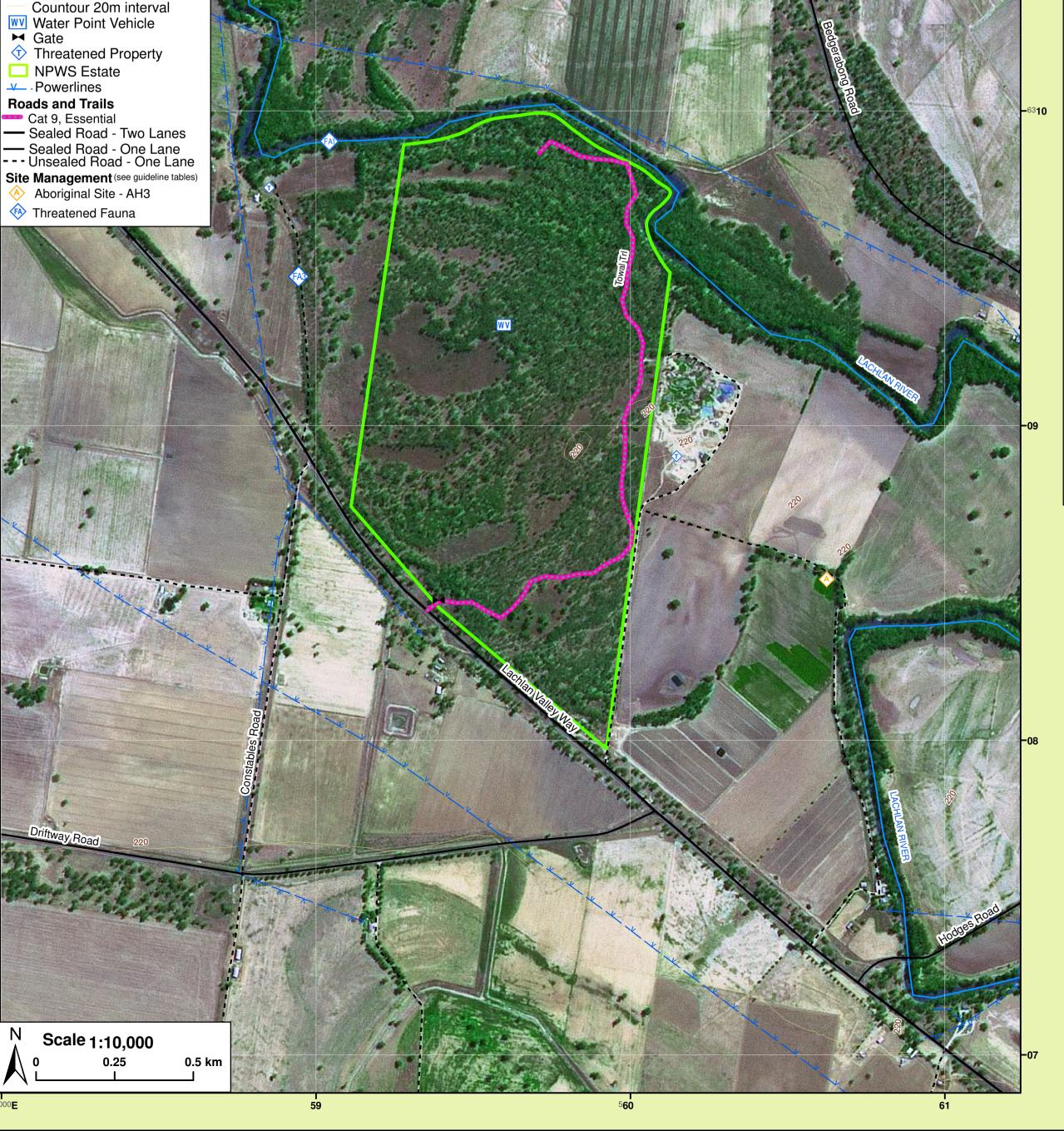
Communications Information			
Service	Channel	Location and Comments	
NPWS Forbes	25	<ul> <li>VHF Mt Warraderry</li> </ul>	
RFS Forbes	P001	PMR Manna Mount	
RFS Forbes	P046	PMR Mt Tallabung	
Bedgerebong Brigade	19	■ UHF Simplex	
Warroo Brigade	10	<ul> <li>UHF Simplex</li> </ul>	
Jemalong Brigade	17	<ul> <li>UHF Simplex</li> </ul>	
Forests NSW	26	VHF Mana Mountain	
NPWS VHF coverage	patchy, use mo	bile repeater for fire-ground, VHF 13, 14 or 15	
Mobile phone coverage likely to be unreliable.			

**Related Documents** 

OEH Fire Management Manual 2011 - 2012.

**Incident Map** 

	Threatened Sites Guidelines
Site	Guidelines
	Aboriginal Cultural Heritage Site Management
АН3	<ul> <li>Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites,</li> <li>Avoid water bombing which may cause ground disturbance,</li> <li>Permission required from Aboriginal Heritage Environment Officer and Aboriginal community.</li> </ul>
	Threatened Flora Management
Currently no known sites.	
Threatened Fauna Management	
FA1	<ul> <li>Utilise mosaic burning and avoid disturbance at known sites, roosts or refuges and avoid frequent fire (&lt;6 years).</li> </ul>
FA3 • Utilise mosaic burning and protect hollow bearing trees.	



Vegetation	Earthmoving Equipment	drainage featu Guidelines, an Earthmoving e areas as mark Earthmoving e estate and aga Where multiple establishment
	Fire Advantage Recording	<ul> <li>All fire advanta and where rele</li> </ul>
	Fire Suppression Chemicals	<ul> <li>Use of gels ar</li> <li>The use of fire delegate or NI reasonable alt</li> <li>Exclude the us</li> <li>Areas where finame recorde</li> <li>The Threatene locations.</li> </ul>
	Rehabilitation and Stabilisation	<ul> <li>Where practic wildfire suppre</li> </ul>
	Smoke Management	<ul> <li>The potential in planning for plann</li></ul>
	Visitor Management	<ul><li>The reserve m wildfire suppre</li><li>Areas of a res</li></ul>
N Scale 1:15,000 0 0.25 0.5 km	WARNINGS	Beware of over
Veae	tation Ma	p Legend

**Vegetation Type** 

River Red Gum tall woodlands on floodplains and

Mid-high to tall closed Tussock Grassland on

Mid-high to tall closed Tussock Grassland on

swamps, lakes and wetter areas

Grassy Woodlands Orey Box (+/- White Cypress Pine) tall woodlands on level alluvial plains

alluvial plains and floodplains

**Fire History** No recorded fire history exists for this location.

alluvial plains

Vegetation

Drought

Conditions

Burning

**Biodiversity Thresholds** 

River Red Gum tall woodlands on floodplains and alluvial

plains. An interval between fire events less than 10 years

and greater than 35 years should be avoided. River Red

Gums will only tolerate lower intensity fires. Individual trees

moderate to high intensity fires. Two fires occurring in the

are in older age classes. Younger trees will not survive

same area in a period of less than 20 years apart may

Minimum interval of 10 years and a maximum of 35 **years**. As flooding events in this location can be infrequent;

fire should be limited, and applied in a mosaic pattern

An interval between fire events less than 8 years and

An interval between fire events less than 3 years and

greater than 10 years should be avoided. Caution should

be used in extended periods of drought, as this will mimic

During drought conditions and when vegetation communities are visibly stressed it will be very difficult to undertake prescribed burning across many communities as the surface

As this reserve has not experienced fire over an extended timeframe, a mosaic approach with post fire recovery and response assessments should be taken. Mosaic burning

has two parts, spatial and temporal. Apply fire in a pattern across the reserve that allows gaps in time and space, small areas, scattered, variable times between fires in any

fuels will be very low. Wildfires are likely to be difficult to control due to extreme conditions during the day and areas of low fuel that are difficult to back-burn in under night

greater than 40 years should be avoided.

the type of disturbance provide by fires.

**Ephemeral** Occur after consecutive years of effective rainfall events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herbs, which can create

across this vegetation community. In cases where a flood

event is expected it may be worth considering patch burning

prior to the flood event, to stimulate regeneration by obligate conditions. Use indirect fire control methods.

reduce the extent of River Red Gum Forests.

seeders after flooding.

**Conditions** continuous fuel loads in communities that would not usually have much ground fuel. As a result expect higher fire intensity.

location. If possible leave some areas of each vegetation community unburnt, as an end stage and reference site.

may survive canopy scorch if they are not under stress and

		Operational Guidelines
L		Brief all personnel involved in suppression operations on the following issues:
L	General	Guidelines
	Aerial Water Bombing	<ul> <li>Very effective first attack where fire is still small and crews are some distance away.</li> <li>Should support containment operations by aggressively attacking hotspots and spot-overs,</li> <li>Without the support of ground based suppression crews should be limited to very specific circumstances,</li> </ul>
		<ul> <li>Where practicable foams or gels should be considered to increase the effectiveness of water,</li> <li>Ground crews must be alerted to water bombing operations.</li> <li>Aerial ignition may be used where practicable, with the prior consent of NPWS Regional</li> </ul>
	Aerial Ignition	<ul> <li>Manager, OEH Section 44 delegate or as prescribed in an operational burn plan,</li> <li>Aerial ignition will only be undertaken by accredited bombardiers,</li> <li>The pattern for aerial ignition will be specified in the IAP during fire suppression,</li> <li>Utilise incendiaries to rapidly burn out large areas where required.</li> </ul>
	Back-burning	<ul> <li>Temperature and humidity trends must be monitored carefully to determine the safest times to implement back-burns. Generally, when the FDI is Very High or greater, back-burning should commence when the humidity begins to rise in the late afternoon or early evening, with a lower FDI back-burning may be safely undertaken during the day,</li> <li>Where practicable, clear a 1m radius around dead and hollow bearing trees adjacent to containment lines prior to back-burning, or wet down these trees as part of the back-burn ignition,</li> <li>Use parallel containment lines when applicable,</li> <li>CAUTION: in areas dominated by Cypress back-burning may be very difficult or ineffective under normal back-burning conditions.</li> </ul>
	Command & Control	<ul> <li>Standard Incident Management Systems are to be applied,</li> <li>On the arrival of other combatant agencies, the initial incident controller will consult with regard to the ongoing command, control and incident management team requirements as per the relevant BFMC Plan of Operations,</li> <li>Where OEH is not the first responding fire authority to arrive at a fire on OEH-managed lands, a competent officer of the first arriving fire authority will direct fire management activities until a competent OEH officer assumes control (unless prior agreements have been made).</li> </ul>
	Containment Lines	<ul> <li>Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact,</li> <li>New containment lines require the prior consent of a OEH Section 44 delegate or NPWS Area Manager or Regional Manager,</li> <li>Use parallel containment lines when applicable,</li> <li>All containment lines not required for other purposes should be closed at the cessation of the incident,</li> <li>All personal involved in containment line construction should be briefed on both natural and cultural heritage sites in the location refer to incident map,</li> <li>Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.</li> </ul>
	Earthmoving Equipment	<ul> <li>Earthmoving equipment must always be guided and supervised by an appropriately experienced person, and accompanied by a support vehicle. When engaged in direct or parallel attack this vehicle must be a fire fighting vehicle,</li> <li>Containment lines constructed by earthmoving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural Heritage Operational Guidelines, and be surveyed, where possible, to identify unknown cultural heritage sites,</li> <li>Earthmoving equipment must not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS,</li> <li>Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate,</li> <li>Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager.</li> </ul>
	Fire Advantage Recording	<ul> <li>All fire advantages used or created during wildfire suppression operations must be mapped and where relevant added to the database.</li> </ul>
	Fire Suppression Chemicals	<ul> <li>Use of gels and foaming agents (surfactants) is permitted on the reserve,</li> <li>The use of fire retardants are only permitted with the prior consent of the OEH Section 44 delegate or NPWS Area Manager or Regional Manager and should be avoided where reasonable alternatives are available,</li> <li>Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps.</li> <li>Areas where fire suppression chemicals are used must be mapped and the used product's name recorded,</li> <li>The Threatened Species Operational Guidelines are to be observed. Refer to incident map for locations.</li> </ul>
	Rehabilitation and Stabilisation	<ul> <li>Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.</li> </ul>
	Smoke Management	<ul> <li>The potential impacts of smoke and possible mitigation tactics must be considered when planning for prescribed burning operations,</li> <li>If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified,</li> <li>Smoke management must be in accordance with relevant RTA traffic management guidelines.</li> </ul>
Į		
	Visitor Management	<ul> <li>The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.</li> <li>Areas of a reserve may be closed for prescribed burning operations.</li> </ul>

Fire Behaviour

his vegetation community will generally not carry fire under

events. In favourable years the River Red Gum forests can be

scattered with 2m high reed beds, which can result in areas of

rescribed burning conditions unless there are high

ephemeral fuel loads, which generally occur after flooding

very high to extreme fire behaviour. The community is

characterised by spotting from River Red Gums, which

In periods of high fuel loads the wetlands pose a risk of

extreme fire intensities, hot – fast moving fires and rapid

change in direction driven by wind. **Do not enter** in these

Fire behaviour is dominated by winds, both speed and

n ephemeral years intensity will be higher while in years

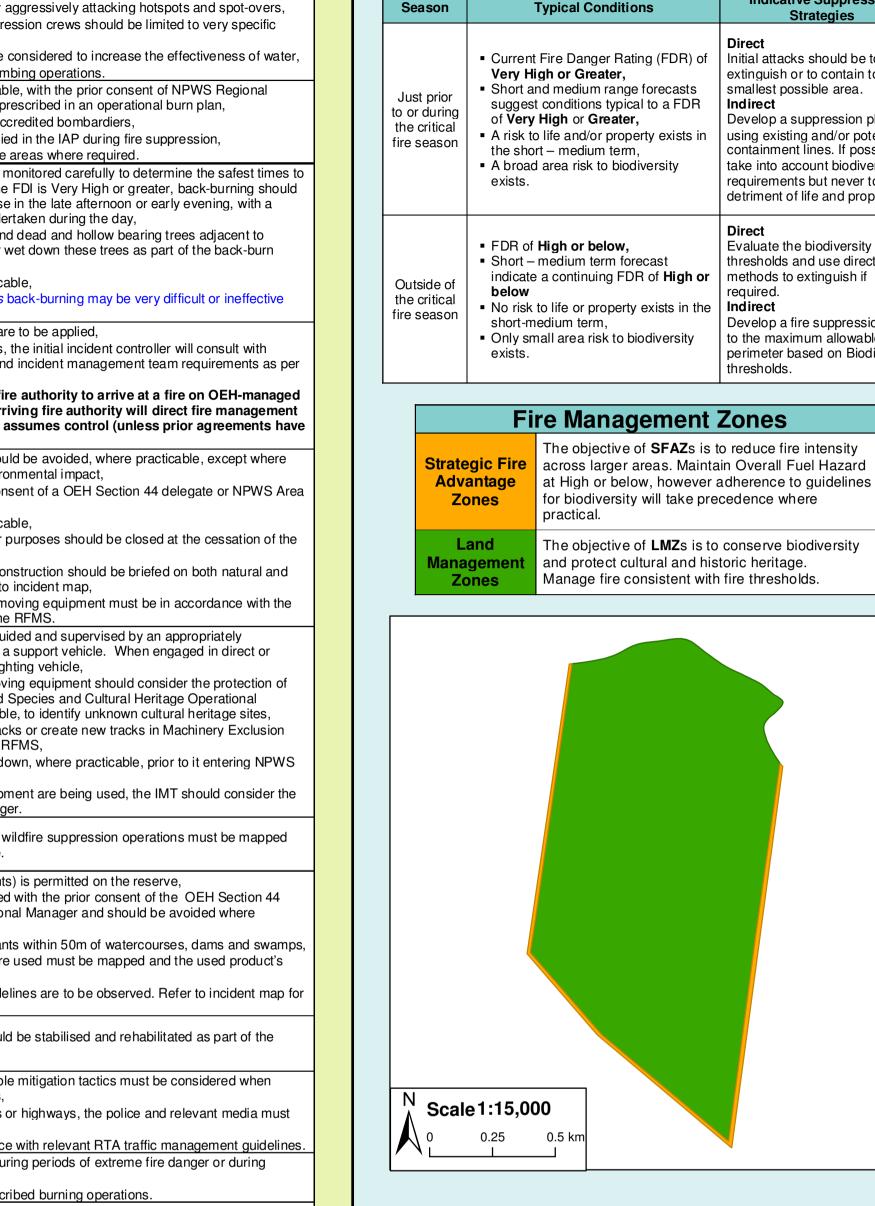
behaviour but potentially still fast moving depending on

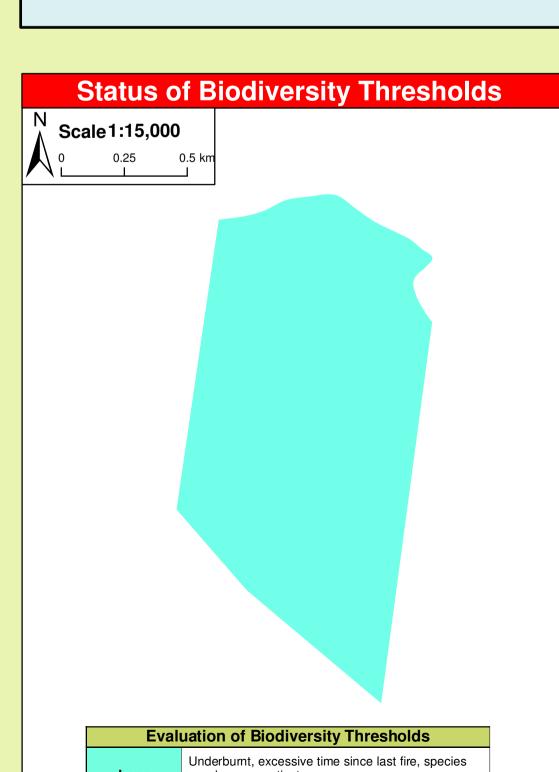
weather conditions at the time. In wooded areas higher

direction. Even in very low fuel, grass fires can be erratic and

affected by drought minimal growth will result in moderate fire

ommonly form candles.





**Bushfire Risk Management Strategies** 

Indicative Suppression

Initial attacks should be to try to

extinguish or to contain to the

Develop a suppression plan

using existing and/or potential

containment lines. If possible

take into account biodiversity requirements but never to the

detriment of life and property.

thresholds and use direct attack

Develop a fire suppression plan

to the maximum allowable perimeter based on Biodiversity

Evaluate the biodiversity

methods to extinguish if

smallest possible area.

Indirect

required.

Indirect

**Suppression Strategies** 

**Typical Conditions** 

suggest conditions typical to a FDR

indicate a continuing FDR of **High or** 

**Fire Management Zones** 

The objective of **SFAZ**s is to reduce fire intensity

at High or below, however adherence to guidelines

The objective of **LMZ**s is to conserve biodiversity

for biodiversity will take precedence where

and protect cultural and historic heritage. Manage fire consistent with fire thresholds.

Very High or Greater,

of Very High or Greater,

the short - medium term,

short-medium term,

practical.

exists.

exists.

may become extinct. A fire event may be ecologically advantageous. Consider allowing unplanned fires to burn

NB. Fire thresholds are defined for vegetation communities to conserve biodiversity