Murrumbidgee Valley National Park Jurambula & MIA 3 Precincts Fire Management Strategy 2012 Mapsheet 1 of 1

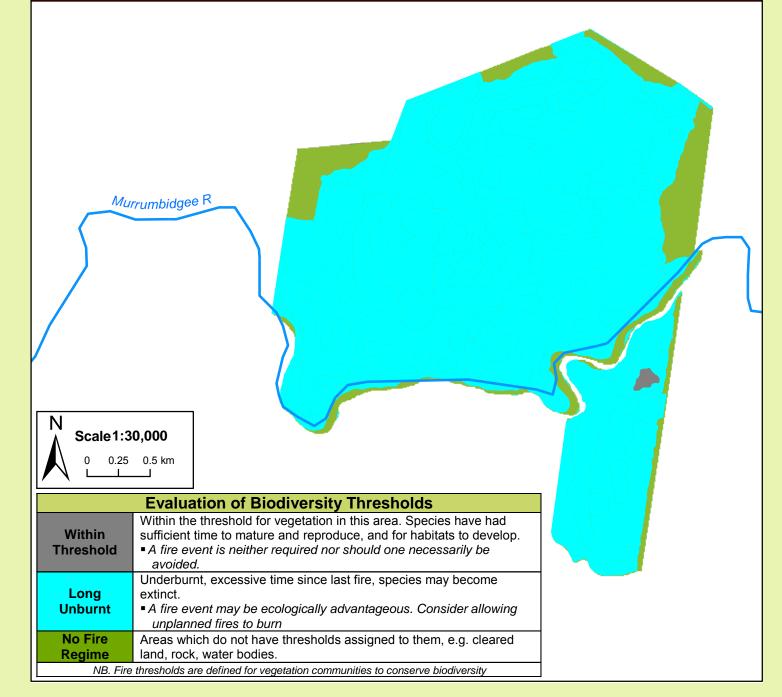
Office of Environment & Heritage NSW National Parks & Wildlife Servi SW National Parks & Wildlife Service This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident act ion plans. These data are not guaranteed to be free 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

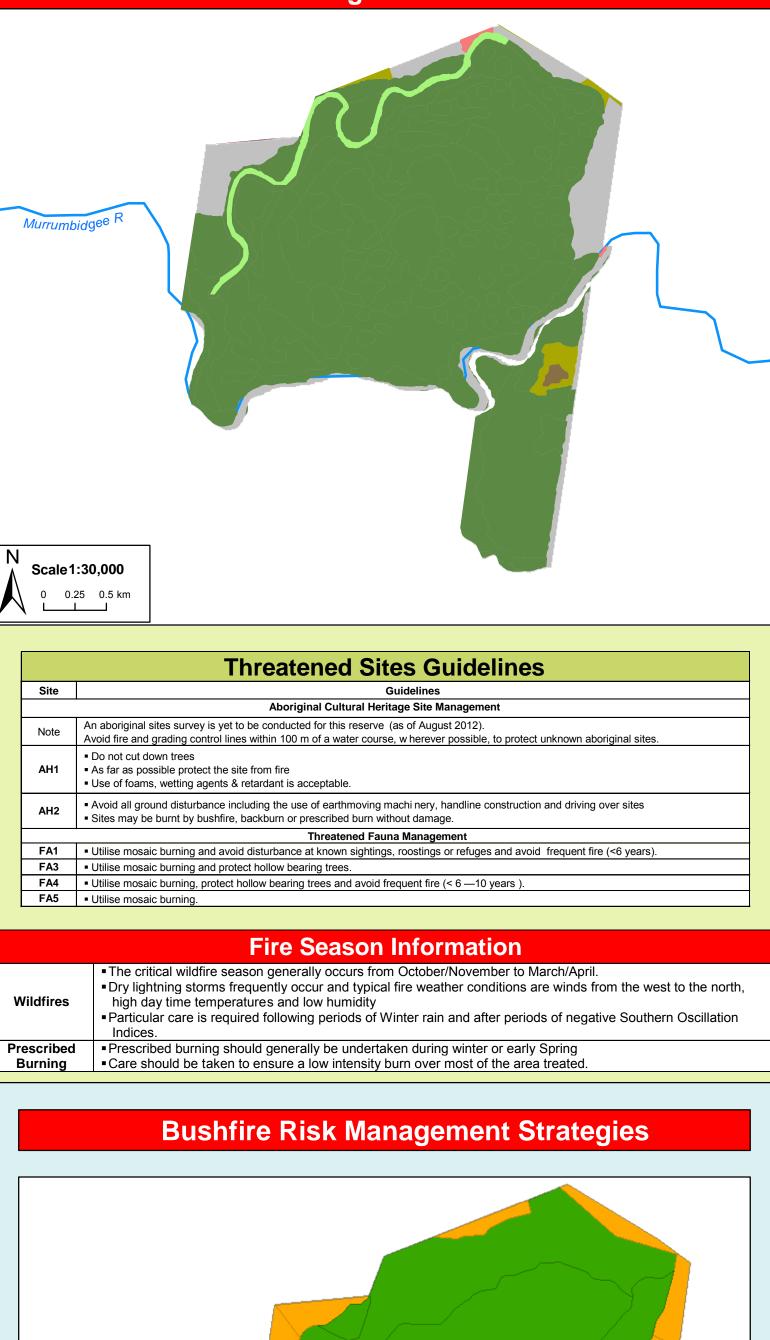
Map Details		Related Documents	
ISBN 978 1 74293 723 6 OEH 2012/0564	Date: August 2012	Version: 1	
Contact: OEH PW G Regional Office: 200 Yambil St, Griffith NSW 2680 P.O. Box 1049 Griffith NSW 2680 ph. 02 6966 8100			
Environment and Heritage (NSW), March 2011.			
Section 44 (3) of Rural Fires Act 1997. The NSW National Parks and Wildlife Service is part of the Office of Environment and Heritage. Published by the Office of			
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			

map Details		Related Documents
Datum: Geocentric Datum of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA) Zone 55	1:25k Topographic Map: Whitton 81284- N, Tubbo 81284-S	OEH Fire Management Manual 2011 - 2012.
Data: Spot Satellite Imagery: 2005.	Scale: Noted scales are true when printed on A1 size paper	

	Operational Guidelines
	Brief all personnel involved in suppression operations on the following issues using the SMEACS format:
General	Guidelines
Aerial Water Bombing	 The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-overs, The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances, Where practicable foam should be used to increase the effectiveness of the water, Ground crews must be alerted to water bombing operations.
Aerial Ignition	 Aerial ignition may be used during back-burning or fuel reduction operations where practicable, but only with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn plan, Aerial ignition will only be undertaken by accredited navigators & bombardiers, The pattern for aerial ignition will be specified in the IAP during fire suppression, Utilise incendiaries to rapidly burn out large areas where required.
Back-burning	 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, 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, Use parallel containment lines when applicable, All personnel must be fully briefed before back-burning operations begin.
Command & Control	 Standard Incident Management Systems are to be applied, 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, 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).
Containment Lines	 Construction of new containment lines should be avoided, where practicable, except where they can be constructed with minimal environmental impact, New containment lines require the prior consent of a senior NPWS officer (AM or RM), Use parallel containment lines when applicable, All containment lines not required for other purposes should be closed at the cessation of the incident, All personal involved in containment line construction should be briefed on both natural and cultural heritage sites in the location, Containment line construction using earthmoving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.
Earthmoving Equipment	 Earthmoving equipment may only be used with the prior consent of a senior NPWS officer, and then only if the probability of its success is high, 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, 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 unk nown cultural heritage sites, Earthmoving equipment must not leave tracks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS, Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS est ate and again on exiting NPWS estate, Where multiple items of earthmoving equipment are being used, the IMT should consider the establishment of a Plant Operations Manager.
Fire Advantage Recording	 All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.
Fire Suppression Chemicals	 Use of wetting and foaming agents (surfactants) is permitted on the reserve, The use of fire retardants are only permitted with the prior consent of the senior NPWS officer and should be avoided where reasonable alternatives are available, Exclude the use of surfactants and retardants within 50m of watercourses, dams and swamps, Areas where fire suppression chemicals are used must be mapped and the used product's name recorded, The Threatened Species Operational Guidelines are to be observed.
Rehabilitation	• Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.
Smoke Management	 The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations, If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified, Smoke management must be in accordance with relevant RTA traffic management guidelines.
Structural Fire Fighting	 OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural fire fighting, Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the NPWS FMM, in order to protect a built asset.
Visitor Management	 The reserve may be closed to the public during periods of extreme fire danger or during wildfire sup pression operations.
WARNINGS	 Beware of overhead powerlines, Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall.

Status of Biodiversity Thresholds





	0.5 km	
Fire	e Management Zones	
Strategic Fire Advantage Zones	The objective of SFAZ s is to reduce fire intensity across larger areas. Maintain Overall Fuel Hazard at High or below, however adherence to guidelines for biodiversity will take precedence where practical.	
Land Management Zones	The objective of LMZ s is to conserve biodiversity and protect cultural and historic heritage. Manage fire consistent with fire thresholds.	
	Suppressi	ion Strategies
Season	Typical Conditions	Indicative Suppression Strategies
Just prior to or during the critical fire season	 Current Fire Danger Rating (FDR) of High or Greater, Short and medium range forecasts suggest conditions typical to a FDR Very High or Greater, A risk to life and/or property exists in short – medium term, 	of Indirect Develop a suppression plan using existing and/or potential containment lines. If possible take into
	A broad area risk to biodiversity exist	detriment of life and property.
Outside of the critical fire season	 FDR of High or below, Short – medium term forecast indicat continuing FDR of High or below No risk to life or property exists in the 	e Indirect
0000011	chart modium torm	Dovelop a fire suppression plan to the maximum

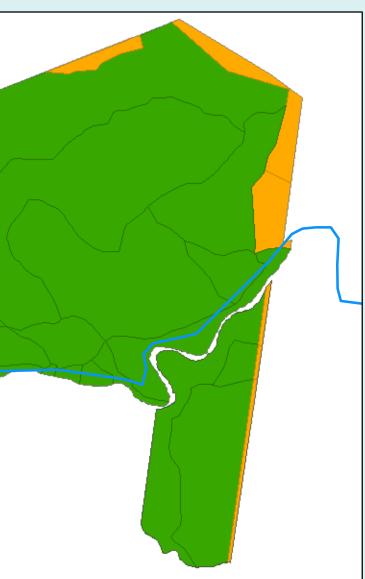
short-medium term,

• Only small area risk to biodiversity exists.

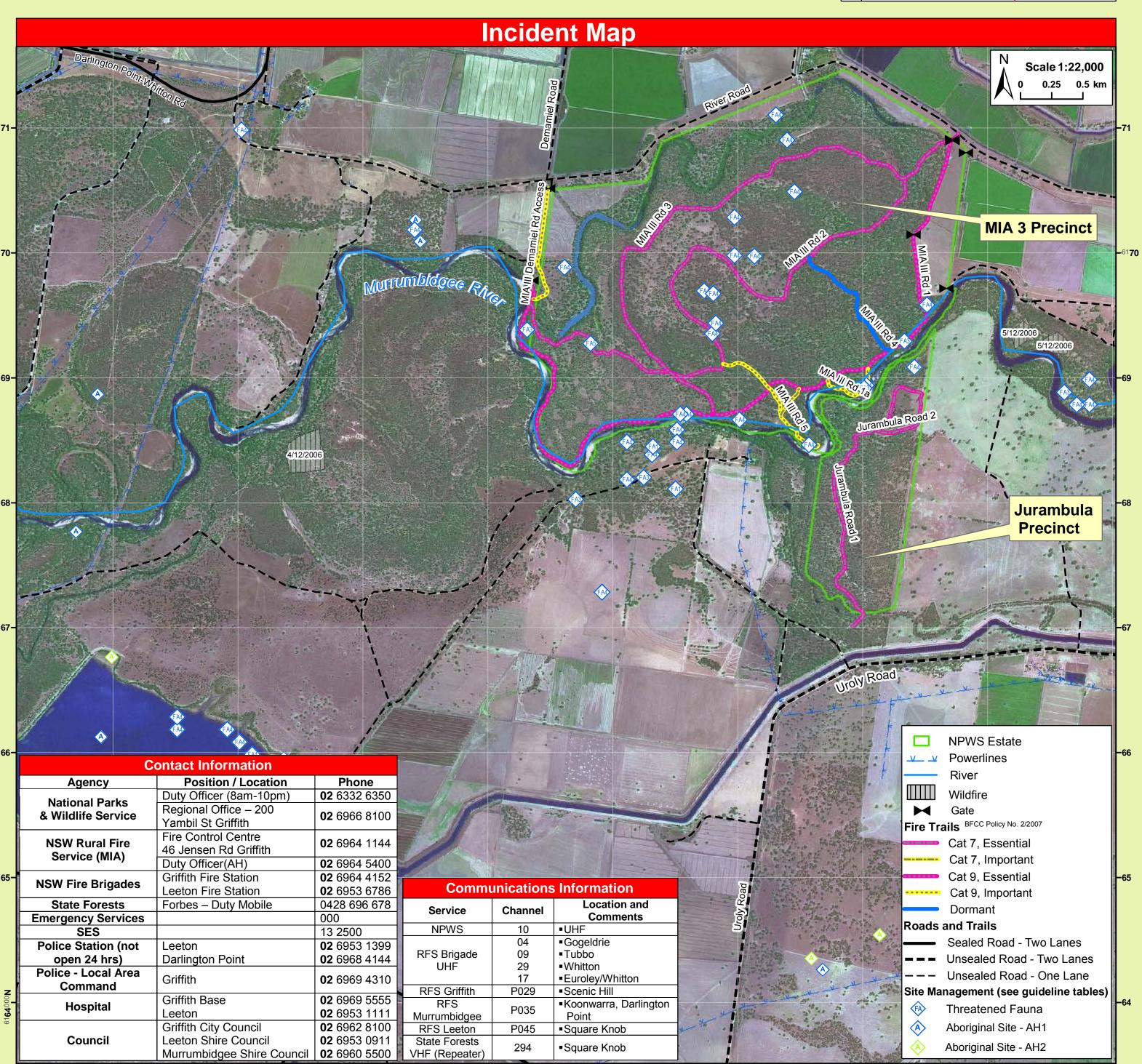
Vegetation

Vegetation Map Legend			
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	
Forested Wetlands	River Red Gum Forests & Black Box Woodlands	An interval between fire events less than 10 years and greater than 35 years should be avoided. River Red Gums will only tolerate low intensity fires. Individual trees may survive canopy scorch if they are not under stress and are in older age classes. Younger trees will not survive moderate to high intensity fires. Two fires occurring in the same area in a period of less than 20 years apart may reduce the extent of River Red Gum Forests.	These veg there are I flooding e be scatter areas of v ephemera
Freshwater Wetlands	Cumbungi Rushland Wetland	An interval between fire events less than 10 years and greater than 35 years should be avoided.	be very hig and River communiti
Semi-arid Woodlands (Shrubby sub- formation)	Yellow Box and White Cypress Pine Woodland of source-bordering dunes	An interval between fire events less than 15 years should be avoided. There is no maximum interval between fire events specified for this vegetation type as there was insufficient data to give definite intervals.	The Cypre dunes and overall fue this vegeta In periods extreme fi direction a
Grassy Woodlands	Yellow Box – River Red Gum Tall Grassy Woodlands	An interval between fire events less than 8 years and greater than 40 years should be avoided.	High inten behaviour
Grassland	Native Grassland Complex	An interval between fire events less than 3 years and greater than 10 years should be avoided.	in very low ephemera minimal gr
Other	Non Native Vegetation & River Path	N/A	still fast me Potential s
Fire History	The fire history data f	for this area is incomplete.	
Ephemeral Conditions		itions occur after consecutive years of effective rainfall and significant flooding e s and herbs, which can create a continuous fuel load across all of the above veg	
Drought Conditions	During drought condi be minimised.	tions and when vegetation communities are visibly stressed or experie ncing die	back no pre

tes Guidelines
Guidelines
ritage Site Management
e (as of August 2012). se, w herever possible, to protect unknown aboriginal sites.
machi nery, handline construction and driving over sites
vithout damage.
una Management
gs, roostings or refuges and avoid frequent fire (<6 years).
frequent fire (< 6 —10 years).



Indirec Develop a fire suppression plan to the maximum allowable perimeter based on Biodiversity thresholds.



-			
Agency	Position / Location	Phone	15
ional Parks Idlife Service	Duty Officer (8am-10pm)	02 6332 6350	- Miller
	Regional Office – 200 Yambil St Griffith	02 6966 8100	
V Rural Fire rvice (MIA)	Fire Control Centre 46 Jensen Rd Griffith	02 6964 1144	
	Duty Officer(AH)	02 6964 5400	1010
Fire Brigades	Griffith Fire Station	02 6964 4152	and the state
	Leeton Fire Station	02 6953 6786	Со
ate Forests	Forbes – Duty Mobile	0428 696 678	Service
ency Services		000	
SES		13 2500	NPWS
e Station (not	Leeton	02 6953 1399	
en 24 hrs)	Darlington Point	02 6968 4144	RFS Briga
e - Local Area command	Griffith	02 6969 4310	RFS Griffi
Hospital	Griffith Base	02 6969 5555	RFS GIIII
	Leeton	02 6953 1111	Murrumbidg
Council	Griffith City Council	02 6962 8100	RFS Leeto
	Leeton Shire Council	02 6953 0911	State Fore
	Murrumbidgee Shire Council	02 6960 5500	VHF (Repea

23

24

4**22**000E

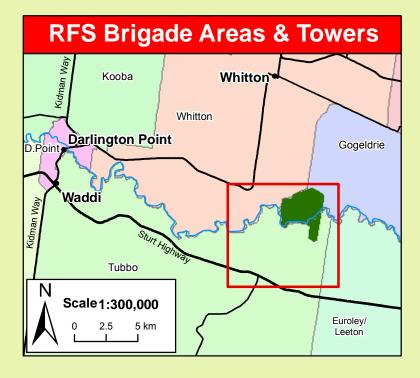
Fire Behaviour

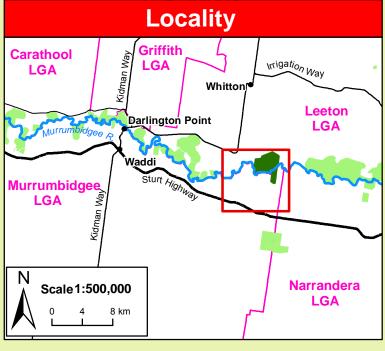
getation communities will generally not carry fire unless high ephemeral fuel loads, which generally occur after events. In favourable years the River Red Gum forests can ered with 2m high reed beds, which can result in isolated very high to extreme fire behaviour. In years of high eral fuels, landscape fires are possible as fire potential will high to extreme, characterised by spotting from Black Box Red Gum communities and fast moving fires in other ities. Red Gum trees also commonly form candles. ress Pine Woodlands generally occur on source-bordering ind the potential rate of spread would be low due to low uel hazard. Fire runs are likely to slow down when entering tation.

ls of high ephemeral fuel loads the wetlands pose a risk of e fire intensities, hot – fast moving fires and rapid change in associated with wind.

ensity fast moving fire once grasses have cured. Fire ur is dominated by winds, both speed and direction. Even ow fuel, grass fires can erratic and fast moving. In ral years intensity will be higher and in drought years growth will result in moderate fire behaviour but potentially moving depending on weather conditions at the time. spotting from trees.

s in turn leads to the growth and build up of fine surface mmunities. As a result expect higher fire intensity. escribed burning will be permitted and wildfire areas will





29