Murray Valley Regional Park Bama Precinct

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. Apa rt 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

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Datum: Geocentric Datum of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA)Zone 55 Data: Spot Satellite Imagery: 2005.

Map Details **Related Documents** OEH Fire Management Manual 2011 - 2012. 1:50k Topographic Map: Moama 7825-N (AGD-1966) 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 at tacking 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 pres cribed 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 t 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, For new containment lines IMT to liaise with and receive consent from a Senior NPWS officer prior to construction, 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 h eritage 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 vehic 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, 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 estate and again on exiti 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.

Areas of the reserve may be closed for prescribed burning operations.

suppression and prescribed burning operations,

Management

Structural Fire Fighting

Management

Rehabilitation • Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.

If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified,

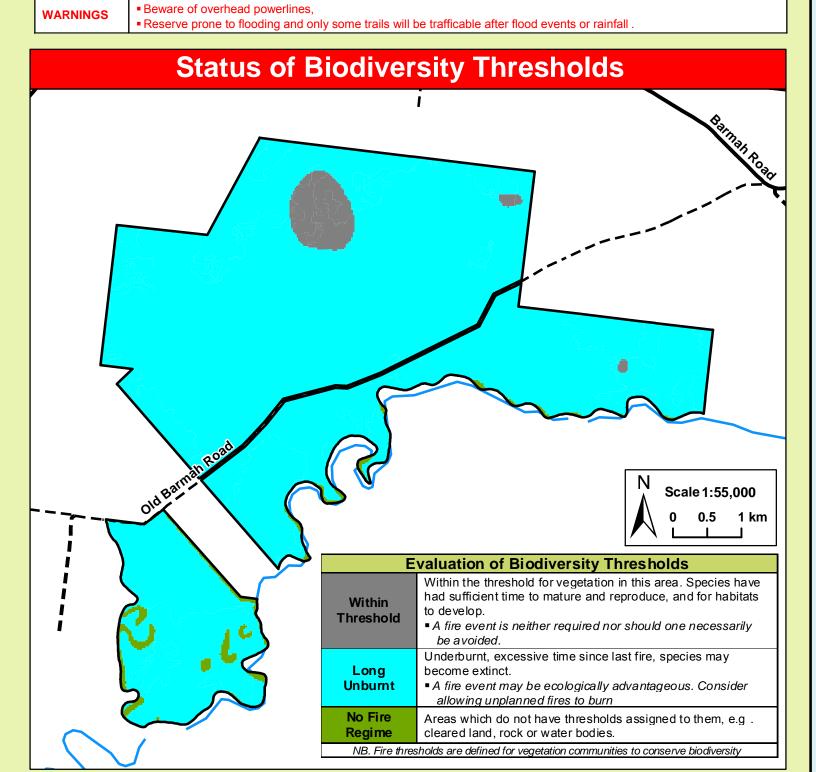
• Smoke management must be in accordance with relevant RTA traffic management guidelines.

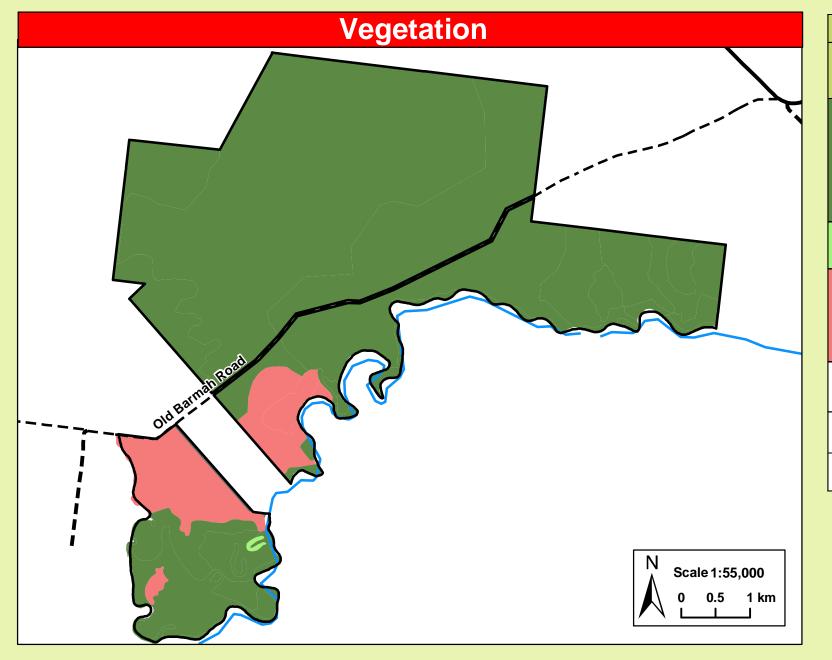
The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire

OEH personnel are not trained in structural fire fighting and must not enter a structure in order to undertake structural

• The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.

• Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the NPWS





Fire Season Information

Wildfires	

■The critical wildfire season generally occurs from October/November to March/April. ■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 late Autumn, Winter or early •Care should be taken to ensure a low intensity burn over most of the area treated.

	Communications Information		
	Service	Channel	Location and Comments
	NPWS Repeater	29	■ Mathoura
	RFS UHF	10	■All Brigades
		P019	■Mathoura
		P022	Calimo
	RFS Murray	P039	■Finley
		P011	■Bunnaloo
		P028	■Moama
	RFS Deniliquin	P053	■Deniliquin
	State Forests UHF - CB	19	■Deniliquin/Mathoura
		30	■Barooga
	State Forests VHF (Repeater)	223	■Mathoura

Bushfire Risk Management Strategies Fire Management Zones The objective of **LMZ**s is to conserve biodiversity Scale 1:55,000 and protect cultural and historic heritage. 0 0.5 1 km Manage fire consistent with fire thresholds.

	Suppression Strategies		
Season	Typical Conditions	Indicative Suppression Strategies	
Just prior to or during the critical fire season	 Current Fire Danger Rating (FDR) of Very High or Greater, Short and medium range forecasts suggest conditions typical to a FDR of Very High or Greater, A risk to life and/or property exists in the short – medium term, A broad area risk to biodiversity exists. 	Direct Initial attacks should be to try to extinguish or to contain to the smallest possible area. Indirect 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.	
Outside of the critical fire season	 FDR of High or below, Short – medium term forecast indicate a continuing FDR of High or below No risk to life or property exists in the short-medium term, 	Direct Evaluate the biodiversity thresholds and use direct attack methods to extinguish if required. Indirect Develop a fire suppression plan to the maximum	

allowable perimeter based on Biodiversity thresholds.

Only small area risk to biodiversity exists.

	Vegetation Map Legend		
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Forested Wetlands	River Red Gum Forests	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 vegetation communities will generally not carry fire unless there are high ephemeral fuel loads, which commonly occur after flooding events. In years of high ephemeral fuels, landscape fires are possible as fire potential will be very high to extreme, characterised by spotting from River Red Gum communities. High ephemeral fuel loads in wetlands pose a risk of extreme fire intensities, hot – fast moving fires and rapid change in direction associated with wind. Red Gum trees commonly form
Freshwater Wetlands	Rush – Sedge – Common Reed Wetlands	An interval between fire events less than 10 years and greater than 35 years should be avoided.	candles
Grassy Woodlands	Riverine Inland Grey Box	An interval between fire events less than 8 years and greater than 40 years should be avoided.	High intensity fast moving fire once grasses have cured. Fire behaviour is dominated by winds, both speed and direction. Even in very low fuel, grass fires can erratic and fast moving. In ephemeral years intensity will be higher and in drought years minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time. Potential spotting from trees.
Fire History	Wildfires are generally attributed to humans, either from escaped campfires, discarded cigarettes or matches or deliberate ignitions. A lower number of fires can be attributed to lightning strikes. Most wildfires (of those that have been documented – only 4) in the last 45 years were less than 5 Ha with one large fire in 1988 that was 85 Ha in extent.		
Ephemeral Conditions	Ephemeral fuel conditions occur after consecutive years of effective rainfall and significant flooding events. This in turn leads to the growth and build up of fine surface fuels such as grasses and herbs, which can create a continuous fuel load across all of the above vegetation communities.		
Drought Conditions	During drought conditions and when vegetation communities are visibly stressed or experiencing dieback no prescribed burning will be permitted and wildfire areas will be minimised.		

	Threatened Sites Guidelines
Site	Guidelines
	Aboriginal Cultural Heritage Site Management
Note	An aboriginal sites survey is yet to be conducted for this reserve (as of August 2012). Avoid fire and grading control lines within 100 m of a water course, wh erever possible, to protect unknown aboriginal sites.
	Threatened Fauna Management
FA1	■ Utilise mosaic burning and avoid disturbance at known sightings, roostings or refuges and avoid frequent fire (<6 years).
FA3	■ Utilise mosaic burning and protect hollow bearing trees.
FA5	■ Utilise mosaic burning.
FA6	■ Exclude fire from habitat.

