Murrumbidgee Valley Regional Park Willbriggie Precinct

Fire Management Strategy 2012
Mapsheet 1 of 1

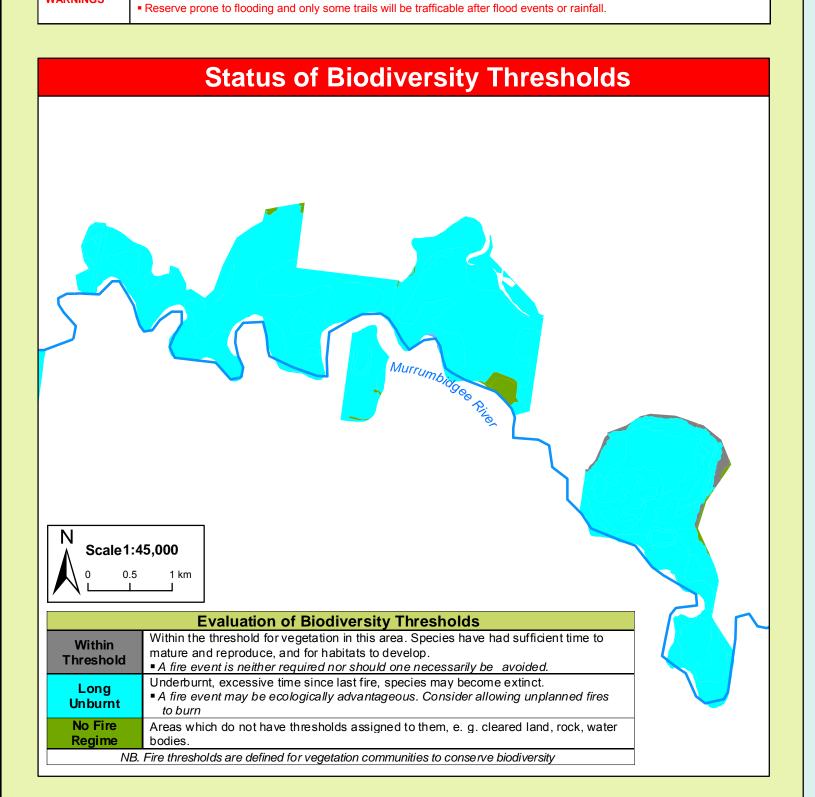


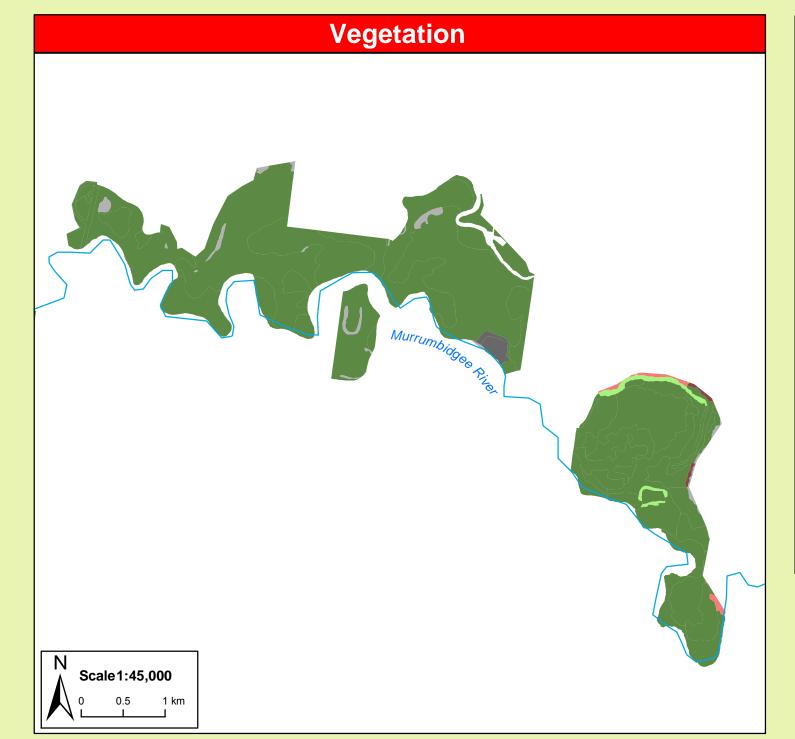
This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans. These data are not guaranteed to be free from error or omission. The NSW National Parks and Wildlife and its employees disclaim liability for any 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), March 2011.

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ISBN 978 1 74293 724 3 OEH 2012/0565	Date: August 2012	Version No: 1
Map Det	Related Document	
Datum: Geocentric Datum of Australia (GDA) 1994 Projection: Map Grid of Australia (MGA) Zone 55 Data: Spot Satellite Imagery: 2005.	1:50k Topographic Map: Darlington Point 8028-N, Gogeldrie Weir 8128-N, 1:25K – Whitton 81284-N Scale: Noted scales are true when printed on A1 size paper	OEH Fire Management Manual 2011 - 2012.

	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 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 prinagreements 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 accompanie 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 unknow 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 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 prescribed burn or wildfire suppression operations.			
WARNINGS	Beware of overhead powerlines, Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall.			

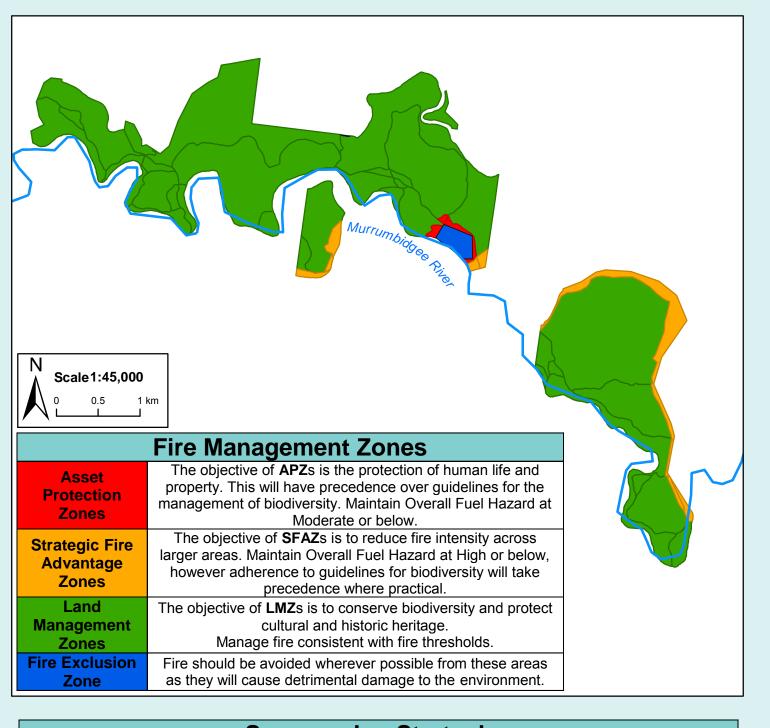




Ephemeral Conditions
Drought Conditions

	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). Therefore more aboriginal sites may be present other than those shown on the Incident Map of this document. Avoid fire and grading control lines within 100 m of a water course, wherever possible, to protect unknown aboriginal sites. 		
AH1	 Do not cut down trees As far as possible protect the site from fire Use of foams, wetting agents & retardant is acceptable. 		
	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.		
FA4	■ Utilise mosaic burning, protect hollow bearing trees and avoid frequent fire (< 6 —10 years).		
FA7	■ Exclude fire from habitat and avoid the use of machinery and chemicals.		

Bushfire Risk Management Strategies



Zones	precedence where pr	ractical.
Land Management Zones	The objective of LMZ s is to conserve cultural and historic h Manage fire consistent with	eritage.
Fire Exclusion Zone	Fire should be avoided wherever pos as they will cause detrimental dama	
Season	Suppression Suppre	Strategies 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, Only small area risk to biodiversity exists. 	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.

Vegetation Map Legend				
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour	
Forested Wetlands	River Red Gum Forests & Black Box Woodland	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 generally occur after flooding events. In favourable years the River Red Gum forests can be scattered with 2m high reed beds, which can result in isolated areas of very high to extreme fire behaviour. In years of high ephemeral fuels, landscape fires are possible as fire	
Freshwater Wetlands	Shallow Swamp	An interval between fire events less than 10 years and greater than 35 years should be avoided.		
Semi-arid Woodlands (Grassy sub- formation)	Black Box Grassy open woodland	An interval between fire events less than 9 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. Two fires in the same area in a period of less than 10 years apart may remove younger Black Box trees.	potential will be very high to extreme, characterised by spotting from Black Box and River Red Gum communities and fast moving fires in other communities Red Gum trees commonly form candles. In periods of high ephemeral fuel loads the wetlands pose a risk of extreme fire intensities, hot – fast moving fires and rapid change in direction associated with wind.	
Grassy Woodlands	Yellow Box – River Red Gum Tall Grassy Riverine Woodlands	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. In drought years minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time.	
Grassland	Native Grassland Complex	An interval between fire events less than 3 years and greater than 10 years should be avoided.		
Other	Cleared Land	No fire Regime		
Unknown	Sawmill	Fire is to be excluded	Fire is to be excluded	
Fire History		ists for this precinct, however fires are generally attributed to humans via either escaped camp nber of fires can be attributed to lightning strikes.	•	

A prescribed burn has been recorded in 2007 along the southern ri ver bank in the APZ that borders the township of Darlington Point.
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 su rface fuels such as grasses and herbs, which can create a continuous fuel load across all of the above vegetation communities. As a result expect higher fire intensity.
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.

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 temperature s and low humidity

Particular care is required following periods of Winter rain and after periods of negative Southern Oscillation Indices.

Prescribed

Prescribed burning should generally be undertaken during Autumn, Winter or early Spring.

Care should be taken to ensure a low intensity burn over most of the area treated.

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RFS Brigade Areas & Towers

