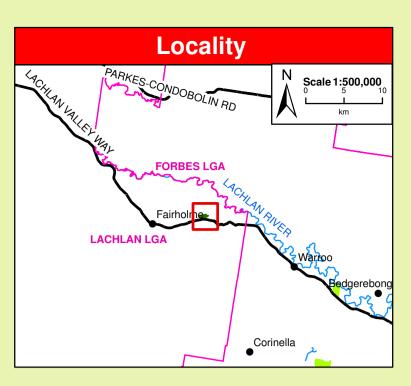
#### **South West Woodland Nature Reserve Cadow Precinct** Fire Management Strategy 2012 Office of Environment & Heritage NSW Mapsheet 1 of 1 ISW National Parks & Wildlife Service

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.

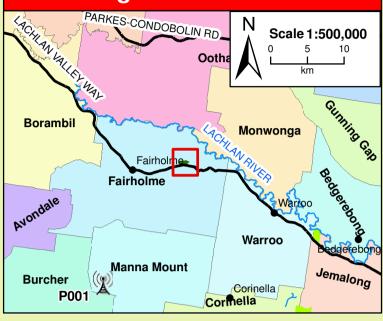
Contact: OEH PWG Regional Office: 200 Yambil St, Griffith NSW 2680 P.O. Box 1049 Griffith NSW 2680 ph. 02 6966 8100 ISBN 978 1 74293 756 4 OEH 2012/0622 Date Published: August 2012 Version: 1.0

	•		
Map Details			<b>Related Documents</b>
<b>Datum:</b> Geocentric Datum of Australia (GDA) 199 <b>Projection:</b> Map Grid of Australia (MGA) Zone 55 <b>Data:</b> Spot Satellite Imagery: 2005.	4 Topographic Maps 1:50k – Fairholme 8331S	(AGD 1966)	OEH Fire Management Manual 2011 - 2012.
Scale: Noted scales are true when printed on A1 size paper.			

Communications Information		
Service	Channel	Location and Comments
NPWS Forbes	23	<ul> <li>VHF Kadina (Poor)</li> </ul>
RFS Forbes	P001	<ul> <li>PMR Manna Mount</li> </ul>
Fairholme Brigade	22	<ul> <li>UHF Simplex</li> </ul>
Forests NSW	26	<ul> <li>VHF Mana Mountain</li> </ul>
NPWS VHF coverage patchy, use mobile repeater for fire-ground, VHF 13, 14 or 15		
Mobile phone coverage likely to be unreliable		
Fairholme Brigade Forests NSW NPWS VHF coverage pa	22 26 tchy, use mobile	<ul> <li>UHF Simplex</li> <li>VHF Mana Mountain</li> <li>repeater for fire-ground, VHF 13, 14 or 1</li> </ul>



## **RFS Brigade Areas & Towers**



**Incident Map** 



🚯 Threatened Fauna

	Fire Season Information
Wildfires	<ul> <li>The critical wildfire season generally occurs from November through to February.</li> <li>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.</li> <li>Particular care is required following periods of winter rain and after periods of negative Southern Oscillation Indices.</li> </ul>
Prescribed Burning	<ul> <li>Prescribed burning should generally be undertaken during Autumn, Winter or early Spring</li> <li>Care should be taken to ensure sufficient fuel is available to allow a low to moderate burn over most of the area identified.</li> </ul>

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
	23 Marsden St Condoblin	<b>02</b> 6895 4680
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
<u>eee</u>	State	13 2500
SES	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

	Threatened Sites Guidelines	
Site Guidelines		
	Aboriginal Cultural Heritage Site Management	
No known site at this time; contact Senior NPWS Officer or Cultural Heritage Officer before commencing works.		
Threatened Flora Management		
No recorded species within the reserve at this time		
Threatened Fauna Management		
No recorded species within the reserve at this time.		
FA3	<ul> <li>Utilise mosaic burning and protect hollow bearing trees.</li> </ul>	

Bushfire Risk Management Strategies		
	Suppression Stra	
Season	Typical Conditions	Indicative Suppression Strategies
Just prior to or during the critical fire season	<ul> <li>Current Fire Danger Rating (FDR) of Very High or Greater,</li> <li>Short and medium range forecasts suggest conditions typical to a FDR of Very High or Greater,</li> <li>A risk to life and/or property exists in the short – medium term,</li> <li>A broad area risk to biodiversity exists.</li> </ul>	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	<ul> <li>FDR of High or below,</li> <li>Short – medium term forecast indicate a continuing FDR of High or below</li> <li>No risk to life or property exists in the short-medium term,</li> <li>Only small area risk to biodiversity exists.</li> </ul>	<b>Direct</b> Evaluate the biodiversity thresholds and use direct attack methods to extinguish if required. <b>Indirect</b> Develop a fire suppression plan to the maximum allowable perimeter based on Biodiversity thresholds.

Fire Management Zones		
	The objective of <b>LMZ</b> s is to conserve biodiversity and protect cultural and historic heritage.	

Zones	Manage fire consistent with fire thresholds.
Scale1:15,000 0.25 L Km	0.5 J

	Brief all persor
General	
Aerial Water Bombing	<ul> <li>Very effective first attack where fire is still si</li> <li>Should support containment operations by a</li> <li>Without the support of ground based suppre</li> <li>Where practicable foams or gels should be</li> <li>Ground crews must be alerted to water bord</li> </ul>
Aerial Ignition	<ul> <li>Aerial ignition may be used where practical plan,</li> <li>Aerial ignition will only be undertaken by ac</li> <li>The pattern for aerial ignition will be specific</li> <li>Utilise incendiaries to rapidly burn out large</li> </ul>
Back-burning	<ul> <li>Temperature and humidity trends must be r greater, back-burning should commence wh undertaken during the day,</li> <li>Where practicable, clear a 1m radius aroun the back-burn ignition,</li> <li>Use parallel containment lines when application</li> </ul>
Command & Control	<ul> <li>Standard Incident Management Systems ar</li> <li>On the arrival of other combatant agencies, requirements as per the relevant BFMC Pla</li> <li>Where OEH is not the first responding findirect fire management activities until a</li> </ul>
Containment Lines	<ul> <li>Construction of new containment lines shoul</li> <li>New containment lines require the prior con</li> <li>Use parallel containment lines when applica</li> <li>All containment lines not required for other</li> <li>All personal involved in containment line co</li> <li>Containment line construction using earthmeter</li> </ul>
Earthmoving Equipment	<ul> <li>Earthmoving equipment must always be gu direct or parallel attack this vehicle must be</li> <li>Containment lines constructed by earthmov Heritage Operational Guidelines, and be su</li> <li>Earthmoving equipment must not leave trace</li> <li>Earthmoving equipment must be washed de</li> <li>Where multiple items of earthmoving equipment</li> </ul>
Fire Advantage Recording	<ul> <li>All fire advantages used or created during v</li> </ul>
Fire Suppression Chemicals	<ul> <li>Use of gels and foaming agents (surfactants</li> <li>The use of fire retardants are only permitted avoided where reasonable alternatives are</li> <li>Exclude the use of surfactants and retardar</li> <li>Areas where fire suppression chemicals are</li> <li>The Threatened Species Operational Guide</li> </ul>
Rehabilitation and Stabilisation	<ul> <li>Where practicable, containment lines should</li> </ul>
Smoke Management	<ul> <li>The potential impacts of smoke and possibl</li> <li>If smoke becomes a hazard on local roads</li> <li>Smoke management must be in accordance</li> </ul>
Visitor Management	<ul> <li>The reserve may be closed to the public du</li> <li>Areas of a reserve may be closed for presc</li> </ul>
WARNINGS	<ul> <li>Beware of overhead powerlines, and fences</li> <li>Areas prone to flooding, use caution after w</li> </ul>

		Vegetation Map Legend	
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Forested Wetlands	River Red Gum tell	River Red Gum tall woodlands on floodplains and alluvial plains. An interval between fire events <b>less than 10 years</b> and <b>greater than 35 years</b> should be avoided. River Red Gums will only tolerate lower 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.	This vegetation community will generally not carry fire under Prescribed burning conditions 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 areas of very high to extreme fire behaviour. The community is characterised by spotting from River Red Gums, which commonly form candles.
Grassland	Mid-high to tall closed Tussock Grassland on alluvial plains and floodplains previously cropped	An interval between fire events <b>less than 3 years</b> and <b>greater than</b> <b>10 years</b> should be avoided. Caution should be used in extended periods of drought, as this will mimic the type of disturbance provide by fires.	Fire behaviour is dominated by winds, both speed and direction. Even in very low fuel grass fires can be erratic and fast moving. In ephemeral years intensity will be higher while in years affected by drought minimal growth will result in moderate fire behaviour but potentially still fast moving depending on weather conditions at the time In wooded areas higher potential for spotting.
Fire History	No recorded fire history e	xists for this location.	
Ephemeral Conditions	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 continuous fuel loads in communities that would not usually have much ground fuel. As a result expect higher fire intensity.		
Drought Conditions	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 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 conditions.		
Mosaic Burning	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 location. If possible leave some areas of each vegetation community unburnt, as an end stage and reference site.		

# **Status of Biodiversity Thresholds**

e1:15,000 0.25 C L km	).5 J
Eval	uation of Biodiversity Thresholds
Long	Underburnt, excessive time since last fire, sp may become extinct.
Unburnt	• A fire event may be ecologically advantage
NB. Fire thresh	Consider allowing unplanned fires to burn olds are defined for vegetation communities to co
	biodiversity

### **Operational Guidelines**

onnel involved in suppression operations on the following issues:

Guidelines small and crews are some distance away.

aggressively attacking hotspots and spot-overs,

pression crews should be limited to very specific circumstances, e considered to increase the effectiveness of water,

mbing operations.

able, with the prior consent of NPWS Regional Manager, OEH Section 44 delegate or as prescribed in an operational burn

ccredited bombardiers,

ified in the IAP during fire suppression, ge areas where required.

e monitored carefully to determine the safest times to implement back-burns. Generally, when the FDI is Very High or when the humidity begins to rise in the late afternoon or early evening, with a lower FDI back-burning may be safely

und dead and hollow bearing trees adjacent to containment lines prior to back-burning, or wet down these trees as part of

cable

are to be applied, s, the initial incident controller will consult with regard to the ongoing command, control and incident management team lan of Operations,

fire authority to arrive at a fire on OEH-managed lands, a competent officer of the first arriving fire authority will a competent OEH officer assumes control (unless prior agreements have been made). ould be avoided, where practicable, except where they can be constructed with minimal environmental impact, onsent of a OEH Section 44 delegate or NPWS Area Manager or Regional Manager,

icable, r purposes should be closed at the cessation of the incident,

onstruction should be briefed on both natural and cultural heritage sites in the location refer to incident map,

moving equipment must be in accordance with the earthmoving guidelines contained within the RFMS.

guided and supervised by an appropriately experienced person, and accompanied by a support vehicle. When engaged in be a fire fighting vehicle,

oving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural surveyed, where possible, to identify unknown cultural heritage sites,

acks or create new tracks in Machinery Exclusion areas as marked on the Incident Map of a RFMS,

down, where practicable, prior to it entering NPWS estate and again on exiting NPWS estate,

ipment are being used, the IMT should consider the establishment of a Plant Operations Manager.

wildfire suppression operations must be mapped and where relevant added to the database.

#### nts) is permitted on the reserve,

ed with the prior consent of the OEH Section 44 delegate or NPWS Area Manager or Regional Manager and should be e available,

ants within 50m of watercourses, dams and swamps,

are used must be mapped and the used product's name recorded, delines are to be observed. Refer to incident map for locations.

uld be stabilised and rehabilitated as part of the wildfire suppression operation.

ible mitigation tactics must be considered when planning for prescribed burning operations,

s or highways, the police and relevant media must be notified, nce with relevant RTA traffic management guidelines.

during periods of extreme fire danger or during wildfire suppression operations.

scribed burning operations.

es crossed by powerlines. • Areas prone to flooding, use caution after wet seasons as subsoils may be waterlogged.

