Quanda Nature Reserve Fire Management Strategy 2014

prescribed burning operations,

order to protect a built asset.

Beware of overhead powerlines

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

Watering points WV and WHV are rainfall fed and are not guaranteed to have water. Possible watering points at dams on nearby properties, visible on incident map. Potentially bring water cart from village of Hermidale, 39km North.

Structural Fire

Fighting

Management

This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the develop ment 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).

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Environment & Heritage

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Map Details		Related Documents
Datum: Geocentric Datum of Australia (GDA) 1994	1:100k Topographic Map: Hermidale 8234	OEH Fire Management
Projection: Map Grid of Australia (MGA) Zone 55	(AGD-1966)	Manual 2013 - 2014.
Data: Spot Satellite Imagery: 2005.	Scale: Noted scales are true when printed	
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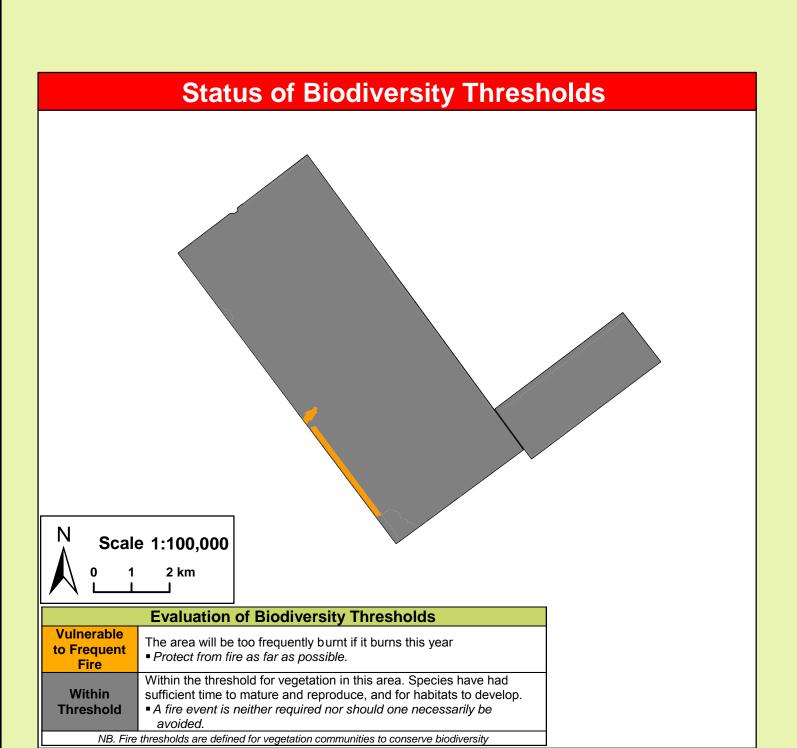
	Operational Guidelines
	Brief all personnel involved in suppression operations on the following issues using the SMEACS format:
General	Guidelines
Aerial Water Bombing	 The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-overs, The use of bombing 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 consert of NPWS Senior Officer, 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 aerial ignition 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-burni 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, The first combatant agency on site may assume control of the fire, but then must ensure the relevant land management ager is notified promptly. On the arrival of other combatant agencies, the Incident Controller will consult with regard to the ongoing command, control a incident management team requirements as per the relevant BFMC Plan of Operations.
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 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 is success is high, Earthmoving equipment must always be guided and supervised by an appropriately experienced person, and accompanied be 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 unknown cultural heritage sites, Earthmoving equipment must be washed down, where practicable, prior to it entering NPWS estate and again on exiting NPV 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	The potential impacts of smoke and possible mitigation tactics must be considered when planning for wildfire suppression a 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.

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

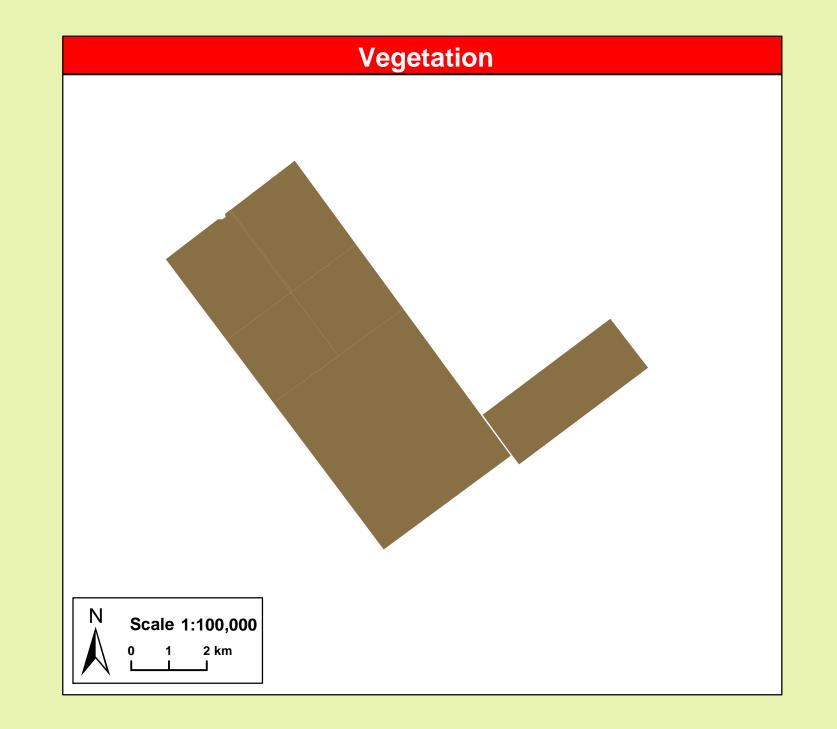
The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.

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



Vegetation Map Legend				
Broad /egetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour	
Semi-arid Woodlands Shrubby sub- formation)	Mallee & Red Bo x, Poplar Box, Mallee Shrubland with Spinifex.	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.	Mallee woodlands fire intensity ranges from moderate to high and is largely influenced by ephemeral growth. Backburning may be difficult in years with low ephemeral fuels. Crown fires are likely in high to very high and above fire danger periods in the Mallee areas.	
ire History	History One Wildfire in March 2003, unknown cause, 8.6Ha burnt; One HR burn in March 2010, 53Ha burnt.			
Ephemeral Conditions				
Drought During drought conditions and when vegetation communities are visibly stressed it will be very difficult to undertake prescribed burning 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 backburn in under night-conditions.				
Mosaic	This reserve may not have experienced fire over an extended period of time, therefore a mosaic approach to fire management with post fire recovery and response assessments should be undertaken. Apply fire in a pattern across the reserve that allows gaps in both time and space, small verses			

Burning large areas, scattered and variable times between fires in any location. If possible leave some areas of each vegetation community unburnt, as an end



Threatened Sites Guidelines Guidelines **Aboriginal Cultural Heritage Site Management** A formal aboriginal sites survey is yet to be

Burning

the area identified.

conducted for this reserve (as of January 2014). Aboriginal sites are present and consideration in engaging a Senior NPWS Officer, Aboriginal Sites Officer or LALC contact prior to hazard reduction and wildfire suppression activities is required. Please see note on the Incident map. Threatened Fauna Management

Although not shown on the incident map there are a number of Vulnerable species that have been seen on the reserve including, Major Mitchell's Cockatoo, Superb Parrot, Greycrowned Babbler, Varied Sitella, Gilbert's Whistler, Yellowbellied Sheath-tailed Bat, Little-pied Bat, Inland Forest Bat. Endangered species include Kultarr and the Bristle-faced

Fire Season	Infori	mat	ic

Land Council

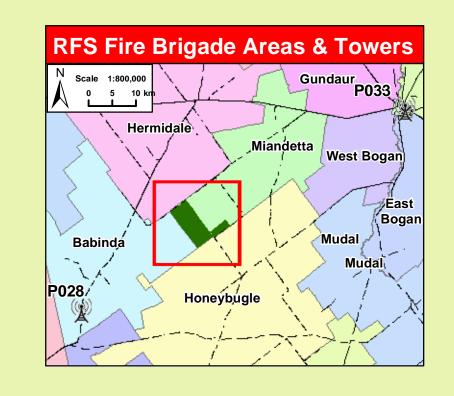
The critical wildfire season generally occurs from October/November to March/April. Dry lightning storms frequently occur and typical fire weather conditions are winds from the west to the north, high day time temperatures and low humidity

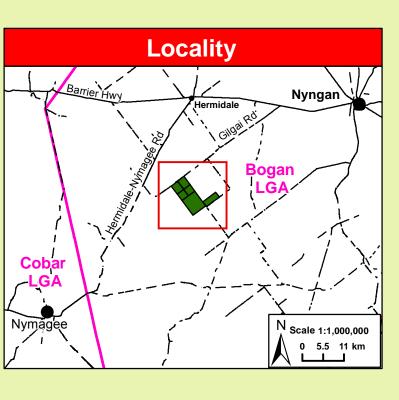
Particular care is required following periods of Winter rain and after periods of negative Southern Prescribed burning should be undertaken before decreases in Autumn temperatures occur. Burning

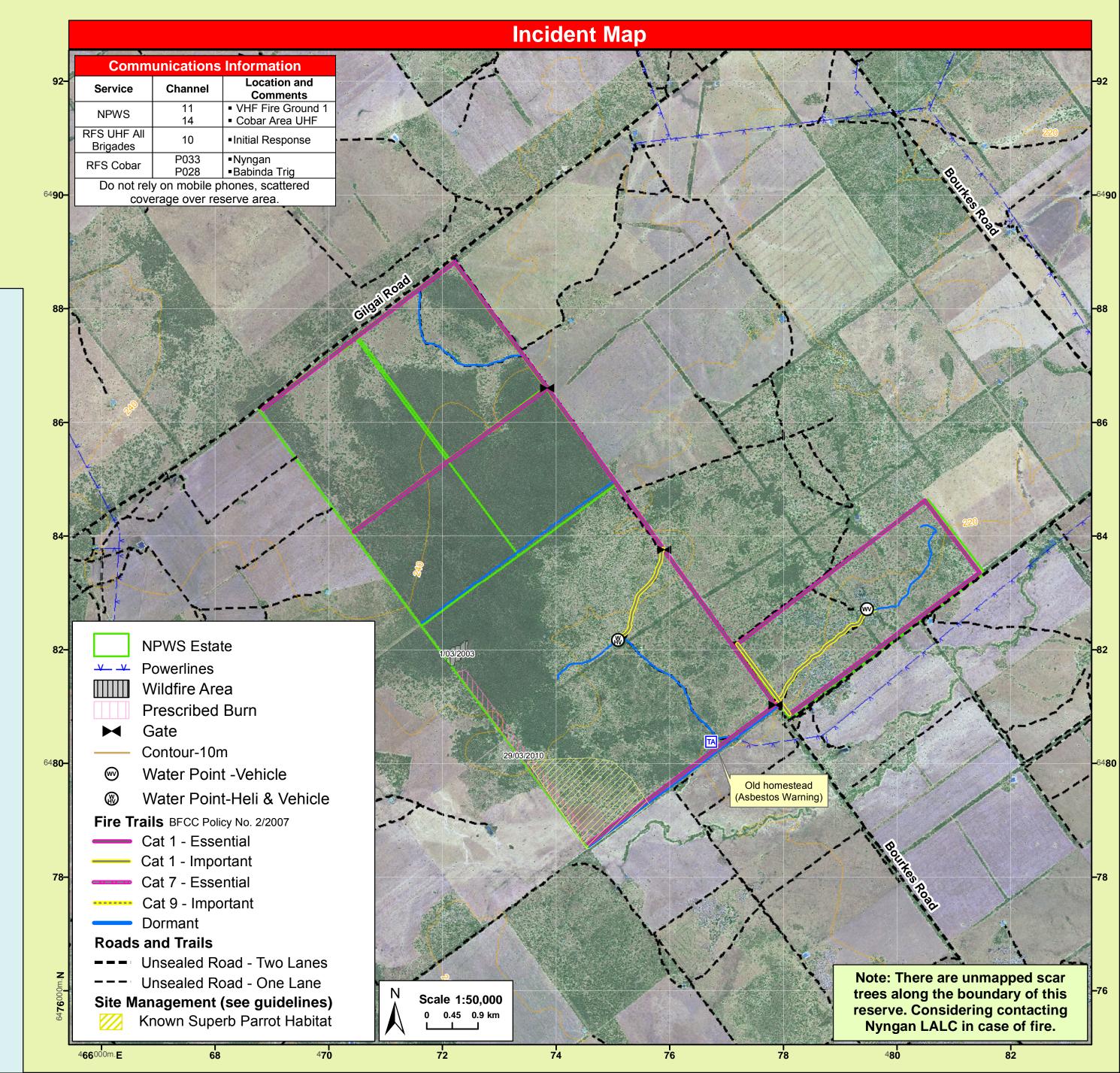
may also be undertaken during late Winter and early Spring and when ephemeral fuels pose a potential high fire threat. •Care should be taken to ensure sufficient fuel is available to allow a low to moderate burn over most of

Contact Information			
Agency	Position / Location	Phone	
National Parks	Duty Officer	02 6332 6350	
National Parks & Wildlife Service	Mid West Area & Regional Office – 200 Yambil St Griffith	02 6966 8100	
NSW Rural Fire Service North West Team	Fire Control Centre (Nyngan) Diverted After Hours	02 6832 2400	
Fire and Rescue NSW	Nyngan Fire Station	02 6832 1014	
Emergency Services		000	
SES		13 2500	
Police Station (not open 24 hrs)	Nyngan	02 6831 1399	
Police - Local Area Command	Darling River (Bourke)	02 6870 0899	
Hospital	Nyngan	02 6835 1700	
Council	Bogan Shire Council	02 6835 9000	
Local Aboriginal	Nyngan	02 6832 2639	

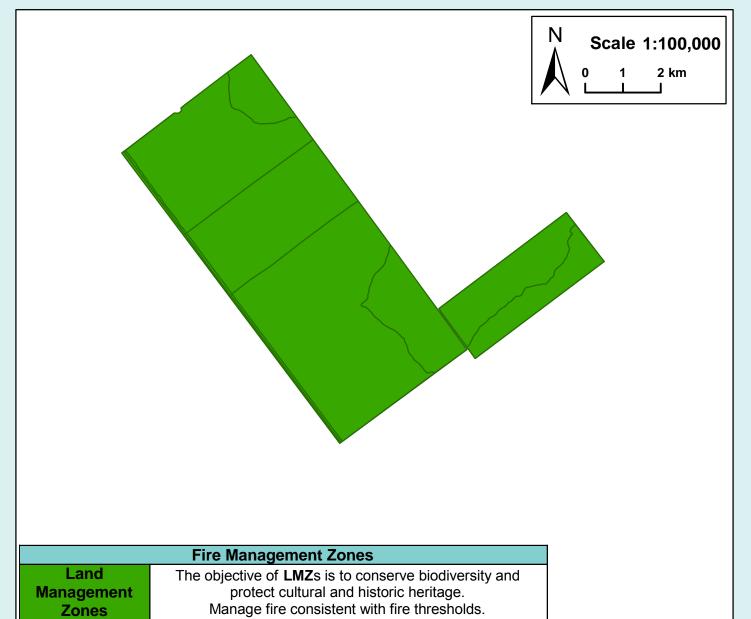
02 6832 2639







Bushfire Risk Management Strategies



Zones	Manage fire consist	ent with life thresholds.	
Suppression Strategies			
Турі	Typical Conditions Indicative Suppression Strategies		ion Strategies
or Greater, Short and medium conditions typical Greater, A risk to life and/or medium term,	er Rating (FDR) of Very High range forecasts suggest to a FDR of Very High or r property exists in the short – o biodiversity exists.	Direct Initial attacks should be to try to exist smallest possible area. Indirect Develop a suppression plan using containment lines. If possible take in requirements but never to the detriit	existing and/or potential into account biodiversity
continuing FDR of No risk to life or promedium term,	rm forecast indicate a	Direct Evaluate the biodiversity thresholds methods to extinguish if required. Indirect Develop a fire suppression plan to perimeter based on Biodiversity thresholds	the maximum allowable