

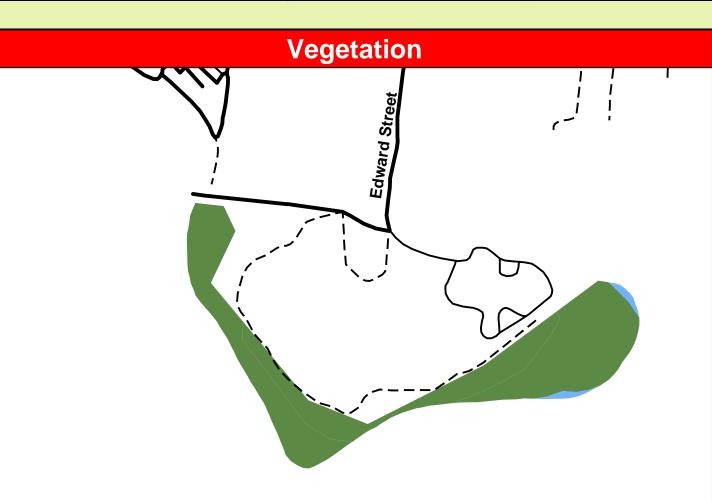
This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans. These data are not guaranteed to be free from error or omission. The NSW National Parks and Wildlife and its employees disclaim liability for any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

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 648 2 OEH 2012/0414 Date: August 2012

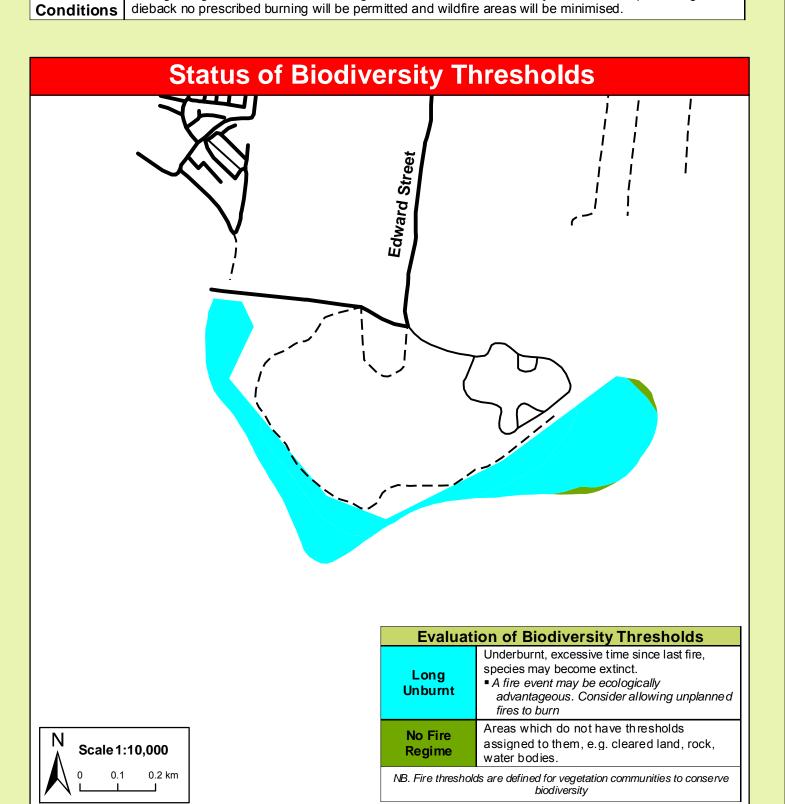
Datum: Geocentric Datum of Australia (GDA) 19941:50 k Topographic Map: Moama 7825-NOEH Fire Management Manual 2011 - 2012.Projection: Map Grid of Australia (MGA) Zone 55(AGD-1966)

Data: Spot Satellite Imagery: 2005.

Scale: Noted scales are true when printed



| 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. | This vegetation community will generally not carry fire unless there are high ephemeral fuel loads, which generally 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 Gums, which commonly form candles. | |
| Fire History | The fire history data for this area is incomplete. | | | |
| Ephemeral Conditions | | | | |
| Drought | During drought conditions and when vegetation communities are visibly stressed or experiencing | | | |



| | 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. | |
| | Standard Incident Management Systems are to be applied, | |
| Command & Control | 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, 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 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 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 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 | • All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the | |
| Recording 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. | |
| Visitors | • The reserve may be closed to the public during periods of extreme fire danger or during prescribed burning or wildfire suppression operations. | |
| WARNINGS | ■ Beware of overhead powerlines, | |

| | Bushfire Risk Manage | ement Strategies |
|---|--|---|
| | Edward Street | |
| │ | 1:10,000 0.1 0.2 km | Fire Management Zones The objective of LMZs is to conserve biodiversity and protect cultural and historic heritage. 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 | 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 |

A risk to life and/or property exists in the short

A broad area risk to biodiversity exists.

FDR of High or below,
Short – medium term forecast indicate a

• Only small area risk to biodiversity exists.

No risk to life or property exists in the short-

continuing FDR of High or below

medium term,

medium term,

Outside of the

critical fire

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

Evaluate the biodiversity thresholds and use direct attack

Develop a fire suppression plan to the maximum allowable

299,500 E

methods to extinguish if required.

perimeter based on Biodiversity thresholds.

Reserve prone to flooding and only some trails will be trafficable after flood events or rainfall.

| | Threatened Sites G | uidelines | | Locality |
|---|-----------------------------------|--------------|----------------------|---------------------------------|
| | Guidelin | es | | |
| | Aboriginal Cultural Heritage Site | Management | | To Mathoura Barmah Rd |
| ■Do not o | cut down trees | | | Murray LGA |
| ■ As far as possible protect the site from fire | | | | Multay EGA |
| ■ Use of foams, wetting agents & retardant is acceptable. | | | | Copp Hwy |
| Avoid all ground disturbance including the use of earthmoving machinery, handline construction and driving over sites | | | andline construction | Bama |
| As far as possible protect the site from fire | | | | |
| ■ Avoid water bombing which may cause ground disturbance | | | | Serrico |
| ■ Permission required from Aboriginal Heritage Environmental Officer and Aboriginal community. | | | ooriginal community. | |
| | | | | W (Sp) |
| | | | | |
| | | | | Moama Horseshoe Lagoon Precinct |
| | Contact Information | | | N. N. |
| псу | Position / Location | Phone | | N Scale 1:250,000 |
| Parks | Duty Officer (8am-10pm) | 02 6332 6350 | | 0 2.5 5 km |

Wildfires

Burning

| | Contact Information | |
|--------------------------------|---|--------------------------|
| Agency | Position / Location | Phone |
| National Parks | Duty Officer (8am-10pm) | 02 6332 6350 |
| & Wildlife | Regional Office – 200 Yambil St. Griffith | 02 6966 8100 |
| Service | Murray Area Office | 03 5483 9100 |
| Mid Murray Zone | Duty Officer | 03 5881 6297 (AH) |
| Service | Deniliquin FCC 305 Duncan St, Deniliquin | 03 5881 5351 |
| NSW Fire | Deniliquin Fire Station | 03 5881 7401 |
| Brigades | Moama Fire Station | 03 5482 1653 |
| State Forests | Deniliquin – Duty Mobile | 0408 675 211 |
| Emergency | | 000 |
| Services | | |
| SES | | 13 2500 |
| Police Station | Deniliquin | 03 5881 9499 |
| (not open 24 hrs) | Moama | 03 5482 0099 |
| (HOL OPEH 24 HIS) | Mathoura | 03 5884 3244 |
| Police - Local Area Command | Deniliquin | 03 5881 9437 |
| Heenitel | Deniliquin | 03 5882 2800 |
| Hospital | Echuca | 03 5485 5000 |
| Parks Victoria | Duty Officer Murray | 0417 351 668 |
| Council | Murray Shire Council | 03 5884 3302 |

AH3

| Horseshoe Lagoon Precinct N Scale 1:250,000 0 2.5 5 km | Horseshoe Lagoon Precinct N Scale 1:250,000 0 2.5 5 km |
|---|---|
| Fire Season Information | Communications Information |
| The critical wildfire season generally occurs from October/November to March/April. | Service Channel Location and Comments |
| 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 | NPWS 29 • Mathoura |
| ■ Particular care is required following periods of Winter rain and | RFS UHF 10 •All Brigades |
| after periods of negative Southern Oscillation Indices. | P019 Mathoura |

■ Prescribed burning should generally be undertaken during

higher intensity fire. Also the timing may occur in either

Autumn or late Spring to achieve a higher intensity result.

Care should be taken to ensure a low intensity burn over most

■ An exception to these guidelines is burns targeting the thinning of artificially created dense stands of trees, which may require a

Autumn, Winter or early Spring

Incident Map

Prescribed of the area treated.

| Communications Information | | | |
|-----------------------------------|--------------------------------------|---|--|
| Service | Channel | Location and Comments | |
| NPWS Repeater | 29 | ■ Mathoura | |
| RFS UHF | 10 | ■All Brigades | |
| RFS Murray | P019 P022 P039 P011 P028 | MathouraCalimoFinleyBunnalooMoama | |
| RFS Deniliquin | P053 | ■Deniliquin | |
| State Forests UHF - CB | 19 30 | ■Deniliquin/Mathoura ■Barooga | |
| State Forests | | | |

Mathoura

RFS Fire Brigade Areas & Towers



300,000

300,500

301,000