South West Woodland Nature Reserve **Booroorban Precinct** Fire Management Strategy 2012 Mapsheet 1 of 1

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Version No. 1

This strategy should be used in conjunction with aerial photography and field reconnaissance during incidents and the development of incident action plans.

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Date: August 2012

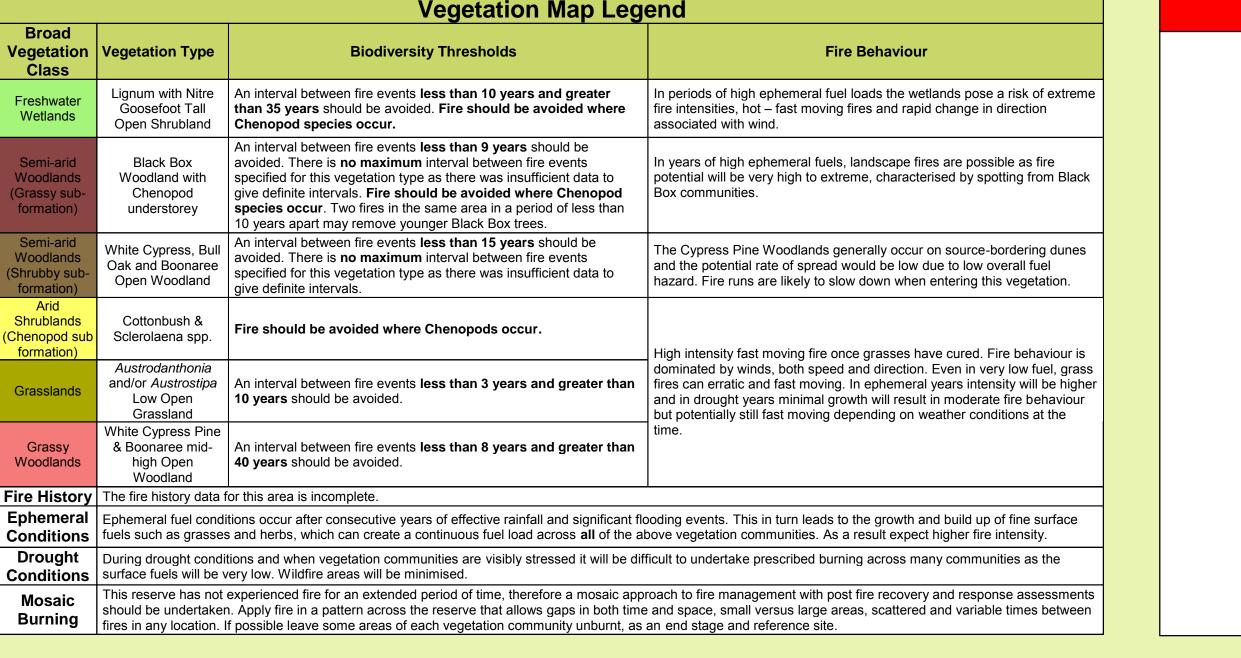
Map Details		Related Document	
Datum: Geocentric Datum of Australia (GDA) 1994	1:50k Topographic Map: Cudal 8631-S	OEH Fire Management	
Projection: Map Grid of Australia (MGA) Zone 55	(AGD-1966)	Manual 2011 - 2012.	
Data: Spot Satellite Imagery: 2005.	Scale: Noted scales are true when printed		
	on A1 size paper		

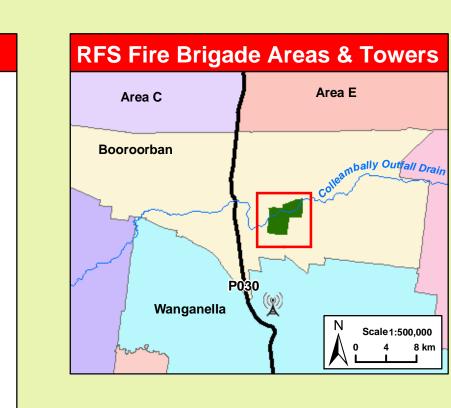
	Operational Guidelines
В	rief all personnel involved in suppression operations on the following issues using the SMEACS format:
General	Guidelines
	■ The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-
Aerial Water Bombing	 overs, The use of 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 pla 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 beging to rise in the late afternoon or early evening, with a lower FDI back-burning may be safely undertaken during the day.
Back-burning	 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 office 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 constructio 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 the content of the conten
	 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
Fire Advantage	Plant Operations Manager. • 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,
Structural Fire Fighting	 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 fighting, Fire suppression activities may be undertaken from outside a structure in accordance with the policies in the
Visitor	NPWS FMM, in order to protect a built asset. The reserve may be closed to the public during periods of extreme fire danger or during prescribed burning or
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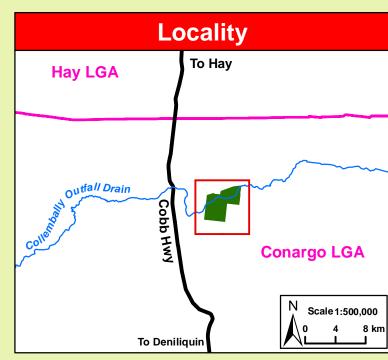
Status of Biodiversity Thresholds		
	Scale 1:35,000 0 0.5 1 km Evaluation of Biodiversity Thresholds	
	Within the threshold for vegetation in this area. Species have had sufficient time to mature and reproduce, and for habitats to develop. • A fire event is neither required nor should one necessarily be avoided.	
	Long Unburnt Fire frequency is below fire thresholds in the area. ■ A fire event may or may not be advantageous. Consider ecological effects of fires in these areas.	
	NB. Fire thresholds are defined for vegetation communities to conserve biodiversity	

■ The reserve may be closed to the public during periods of extreme fire danger or during prescribed burning or

	Vegetation Map Legend		
Broad Vegetation Class	Vegetation Type	Biodiversity Thresholds	Fire Behaviour
Freshwater Wetlands	Lignum with Nitre Goosefoot Tall Open Shrubland	An interval between fire events less than 10 years and greater than 35 years should be avoided. Fire should be avoided where Chenopod species occur.	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.
Semi-arid Woodlands (Grassy sub- formation)	Black Box Woodland with Chenopod understorey	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. Fire should be avoided where Chenopod species occur. Two fires in the same area in a period of less than 10 years apart may remove younger Black Box trees.	In years of high ephemeral fuels, landscape fires are possible as fire potential will be very high to extreme, characterised by spotting from Black Box communities.
Semi-arid Woodlands (Shrubby sub- formation)	White Cypress, Bull Oak and Boonaree Open Woodland	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.	The Cypress Pine Woodlands generally occur on source-bordering dunes and the potential rate of spread would be low due to low overall fuel hazard. Fire runs are likely to slow down when entering this vegetation.
Arid Shrublands (Chenopod sub formation)	Cottonbush & Sclerolaena spp.	Fire should be avoided where Chenopods occur.	High intensity fast moving fire once grasses have cured. Fire behaviour is
Grasslands	Austrodanthonia and/or Austrostipa Low Open Grassland	An interval between fire events less than 3 years and greater than 10 years should be avoided.	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
Grassy Woodlands	White Cypress Pine & Boonaree mid- high Open Woodland	An interval between fire events less than 8 years and greater than 40 years should be avoided.	time.
Fire History	The fire history data for this area is incomplete.		
Ephemeral Conditions			
Drought Conditions			







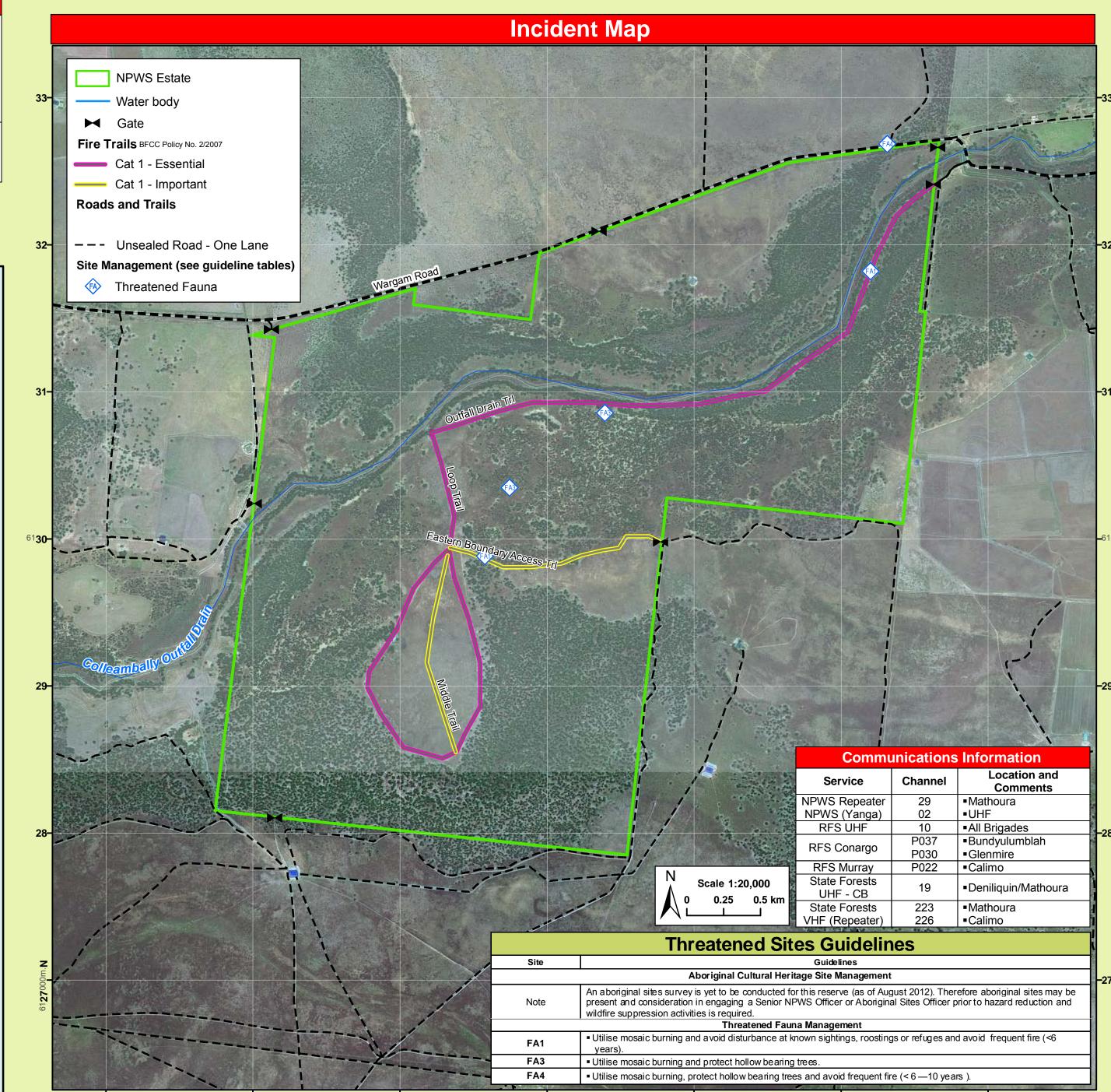
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Co	Contact Information		
Agency	Position / Location	Phone	
	Duty Officer (8am-10pm)	02 6332 6350	
National Parks	Regional Office – 200	02 6966 8100	
& Wildlife Service	Yambil St. Griffith	02 0900 0 100	
	Murray Area Office	03 5483 9100	
Mid Murray Zone	Duty Officer (AH)	03 5881 6297	
NSW Rural Fire	Deniliquin FCC 305	03 5881 5351	
Service	Duncan St, Deniliquin	03 3661 3331	
NSW Fire Brigades	Deniliquin Fire Station	03 5881 7401	
State Forests	Deniliquin – Duty Mobile	0408 675 211	
Emergency Services		000	
SES		13 2500	
Police Station (not	Deniliquin	03 5881 9499	
open 24 hrs)	Hay (Not 24 hours)	02 6993 1100	
Police - Local Area	Deniliquin	03 5881 9437	
Command	·	•••••	
Hospital	Deniliquin	03 5882 2800	
Hoopital	Hay	02 6990 8700	
Parks Victoria	Duty Officer Murray	0417 351 668	
Council	Conargo Shire Council	03 5880 1200	

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

Bushfire Risk Management Strategies	
Fire Management Zones The objective of LMZs is to conserve biodiversity and prote cultural and historic heritage. Manage fire consistent with fire thresholds.	1 km

	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, 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