

Run Description: Central Precinct - South BAL-29

Vegetation Information

Vegetation Type:	Scrub/Tall Heath	Vegetation Group:	Shrub & Heath
Vegetation Slope:	1 Degrees	Vegetation Slope	Upslope
Surface Fuel	25	Overall Fuel	25

Site Information

Site	1 Degrees	Site Slope Type:	Upslope
Elevation of	Default	APZ/Separation(m):	19

Fire Inputs

Veg./Flame Width(m):	100	Flame Temp(K)	1090
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Calculation Parameters

Flame Emissivity:	95	Relative Humidity(%):	25
Heat of	18600	Ambient Temp(K):	308
Moisture Factor:	5		

Program Outputs

Category of Attack:	MODERATE	Peak Elevation of	5.66
Level of	BAL 19	Fire Intensity(kW/m):	50228
Radiant	18.72	Flame Angle (degrees):	71
Flame Length(m):	11.27	Maximum View Factor:	0.293
Rate Of Spread	3.89	Inner Protection Area(m):	19
Transmissivity:	0.84	Outer Protection Area(m):	0

Run Description: Central Precinct - South BAL-19

Vegetation Information

Vegetation Type:	Scrub/Tall Heath	Vegetation Group:	Shrub & Heath
Vegetation Slope:	1 Degrees	Vegetation Slope	Upslope
Surface Fuel	25	Overall Fuel	25

Site Information

Site	1 Degrees	Site Slope Type:	Upslope
Elevation of	Default	APZ/Separation(m):	27

Fire Inputs

Veg./Flame Width(m):	100	Flame Temp(K)	1090
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Calculation Parameters

Flame Emissivity:	95	Relative Humidity(%):	25
Heat of	18600	Ambient Temp(K):	308
Moisture Factor:	5		

Program Outputs

Category of Attack:	LOW	Peak Elevation of	5.94
Level of	BAL 12.5	Fire Intensity(kW/m):	50228
Radiant	12.41	Flame Angle (degrees):	76
Flame Length(m):	11.27	Maximum View Factor:	0.2
Rate Of Spread	3.89	Inner Protection Area(m):	27
Transmissivity:	0.816	Outer Protection Area(m):	0

Appendix 3 – PBP Fire Trail Specifications

Table 1: Performance criteria for fire trails*¹

Performance Criteria	Acceptable Solutions	Complies
<p>The intent may be achieved where:</p> <ul style="list-style-type: none"> ▪ the width and design of the fire trails enables safe and ready access for firefighting vehicles 	<ul style="list-style-type: none"> ▪ a minimum carriageway width of four metres with an additional one metre wide strip on each side of the trail (clear of bushes and long grass is provided) ▪ the trail is a maximum grade of 15 degrees if sealed and not more than 10 degrees if unsealed ▪ a minimum vertical clearance of four metres to any overhanging obstructions, including tree branches is provided ▪ the crossfall of the trail is not more than 10 degrees ▪ the trail has the capacity for passing by: <ul style="list-style-type: none"> - reversing bays using the access to properties to reverse fire tankers, which are six metres wide and eight metres deep to any gates, with an inner minimum turning radius of six metres and outer minimum radius of 12 metres; and / or - a passing bay every 200 metres, 20 metres long by three metres wide, making a minimum trafficable width of seven metres at the passing bay <p><i>Note: Some short construction in the access may be accepted where they are not less than the minimum (3.5m) and extend for no more than 30m and where obstruction cannot be reasonably avoided or removed</i></p>	<p>Complies</p> <p>Complies</p> <p>Complies</p> <p>Complies</p> <p>Complies</p>
<ul style="list-style-type: none"> ▪ fire trails are trafficable under all weather conditions. Where the fire trail joins a public road, access shall be controlled to prevent use by non authorised persons 	<ul style="list-style-type: none"> ▪ the fire service is accessible to firefighters and maintained in a serviceable condition by the owner of the land ▪ appropriate drainage and erosion controls are provided ▪ the fire trail system is connected to the property access road and / or to the through road system at frequent intervals of 200 metres or less ▪ fire trails do not traverse a wetlands or other land potentially subject to periodic inundation (other than a flood or storm surge) ▪ gates for fire trails are provided and locked with a key / lock system authorized by the local RFS 	<p>Complies</p> <p>Complies</p> <p>Complies</p> <p>Complies</p> <p>Complies</p>
<ul style="list-style-type: none"> ▪ fire trails designed to prevent ween infestation, soil erosion and other land degradation 	<ul style="list-style-type: none"> ▪ fire trail does not adversely impact on natural hydrological flows ▪ fire trail design acts as an effective barrier to the spread of weeds and nutrients ▪ fire trail construction does not expose acid-sulphate soils 	<p>Complies</p> <p>Complies</p> <p>Complies</p>

*¹ PBP page 25



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