PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL



Approval no: DEV2017/887

Date: 8/08/2023



Pebble Creek Plan of Development Stages 4-14

Orchard (Pebble Creek) Developments Pty Ltd 15 June 2023



Document Control

Document Issue

Issue	Date	Prepared By	Checked By
Revision A	3 November 2020	NC	-
Revision B	3 November 2020	NC	-
Revision C	24 November 2020	NC	-
Revision D	26 July 2022	NC	-
Revision E	15 June 2023	NC	-

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Accepted Uses

1.1. Uses exempt in accordance with this Plan of Development

Where within the Pebble Creek Plan of Development Area¹, uses listed below in Table 1 are approved exempt development, where within the Residential Precinct and complying with this Plan of Development.

Table 1 – Approved Exempt Development in accordance with Plan of Development

Display Home

Home Based Business

House

Park

Sales Office (<150m²)

- In accordance with the provisions of the Greater Flagstone Development Scheme, building work and operational work are exempt development where in accordance with this Plan of Development.
- To the extent there is any conflict between this Plan of Development and the Greater Flagstone Development Scheme, this Plan of Development prevails.
- Where development is not in accordance with this Plan of Development, the provisions of the Greater Flagstone Development Scheme will apply.

1.2. Uses subject to Compliance Assessment

Where within the Pebble Creek Plan of Development Area¹, uses listed below in Table 2 will be subject to Compliance Assessment, where complying with this Plan of Development.

Table 2 – Uses subject to Compliance Assessment

Sales Office (>150m²)

Utility Installation (where for supply of water, electricity, communications, gas, sewerage or drainage services)



¹ The Pebble Creek Plan of Development Area is shown in **Appendix A**.

References

This Plan of Development has been prepared in accordance with the following Economic Development Queensland Guidelines and Practice Notes:

- Guideline 1 Residential 30 (May 2015)
- Guideline 5 Neighbourhood Planning and Design (May 2015)
- Guideline 6 Street and Movement Network (April 2012)
- Guideline 7 Low Rise Buildings (May 2015)
- Guideline 12 Park Planning and Design (May 2015)
- Guideline 13 Engineering Standards (September 2017)
- Guideline 18 Development Interfaces (May 2015)
- Practice Note 07 Designing for Small Lots (March 2014)
- Practice Note 10 Plans of Development (March 2014)

Defined Uses and Terms

Display Home – Means the temporary use of premises for the promotion and/or sale of land and/or houses within an estate, where such premises are located within the estate which is proposed to be promoted or sold.

Home Based Business – Means the use of a House or Multiple residential for an occupation or business activity as a secondary use where:

- The floor area used specifically for the home business does not exceed 50m²;
- Any visitor accommodation does not exceed 4 visitors;
- There is no hiring out of materials, goods, appliances or vehicles;
- There is only one sign related to the Home business, located within the premises or on a fence facing the road;
- There is no repairing or servicing of vehicles not normally associated with a residential use;
- There is no industrial use of premises;
- The maximum height of a new building, structure or object does not exceed the height of the House or Multiple residential and the setback is the same as or greater than, building on adjoining properties;
- Car parking is in accordance with the planning scheme;
- There is no display of goods;
- Number of employees does not exceed 4.

House – Means a residential use of premises containing one primary single dwelling on a lot. The use includes out-buildings and works normally associated with a dwelling and may include a secondary dwelling. The secondary dwelling is subordinate to the primary dwelling, capable of being used as a self-contained residence and may be constructed under the primary dwelling, attached to it or free standing.



Park – Means the use of premises by the public for free recreation and enjoyment and may be used for community events. Facilities may include children's playground equipment, informal sports fields, ancillary vehicle parking and other public conveniences.

Utility Installation – Means the use of premises used to provide the public with the following services:

- Supply of water, hydraulic power, electricity or gas;
- Sewerage or drainage services;
- Transport services including road, rail or water;
- Waste management facilities;
- Network infrastructure.

The use includes maintenance and storage depots and other facilities for the operation of the use.

Sales Office – Means the use of premises for the temporary promotion and/or sale of land and/or buildings within an estate, where such premises are located within the estate which is proposed to be promoted or sold.

The definitions above are in accordance with the Greater Flagstone Development Scheme. The defined terms above and the definitions contained within the Greater Flagstone Development Scheme prevail over all other planning instruments to the extent of any inconsistency.



Design Criteria

1.3. House

The following criteria apply to a House within the Pebble Creek Plan of Development Area², where within the Residential Precinct and where within Stages 4-14 of the Pebble Creek Estate. This design criteria are to be read in conjunction with the Plan of Development (Envelope Plans)³ for Stages 4-14.

1.3.1 Setbacks and Site Cover

- Setbacks are as per Table 3 below, dependent on the lot typology identified within Pebble Creek
 Plan of Development (Envelope Plans)³ unless specified otherwise within Section 1.3.1;
- Built-to-Boundary walls are nominated on the Pebble Creek Plan of Development (Envelope Plans)³;
- All setbacks are measured to the wall of the structure;
- Houses must be wholly located within the subject lot unless appropriate encroachment rights are secured;
- A lot can have only one primary frontage. Primary frontages are nominated on the Pebble Creek
 Plan of Development (Envelope Plans)³;
- For corner lots, a secondary frontage may be applicable, however a pedestrian pathway or road reserve that does not contain a road carriageway is not a secondary frontage;
- To avoid any doubt, where a lot has a side boundary to a road reserve nominated as a 'pedestrian link only' on the Envelope Plans, this should be taken to be a side boundary;
- For lots with a secondary frontage, no building or structure over 2 metres high is to be built within a
 6m x 6m truncation at the corner of two road frontages;
- The length of a Built-to Boundary wall is not to exceed 15m or 50% of the lot depth, whichever is the lesser;
- Notwithstanding the setbacks specified in Table 3 below, a 2.4 metre setback is permitted to unenclosed entry features such as porches, porticos, verandahs and balconies;
- Building envelope and setback requirements may be affected by provision of easements for services, which may alter the setback requirements in Table 3; and
- The maximum area covered by all buildings and structures roofed with impervious materials, does not exceed the site cover nominated within Table 3.



² The Pebble Creek Plan of Development Area is shown in **Appendix A**.

³ Pebble Creek Plan of Development (Envelope Plans) are included in **Appendix B**.

Table 3 – Design Criteria (setbacks and site cover)⁴

	Villa	Premium Villa	Courtyard	Premium Courtyard	Interface Lots
Front Setback					
To Wall (Ground Floor)	3m	3m	3m	4m	5m
To Wall (First Floor)	3m	3m	3m	4m	5m
Garage	5m	5m	5m	5m	5m
Secondary Frontage					
To Wall (Ground Floor)	1.5m	2m	2m	2m	3m
To Wall (First Floor)	2m	2m	2m	2m	3m
Garage	5m	5m	5m	5m	5m
Rear Setback					
Ground Floor	0.9m*	0.9m*	0.9m*	0.9m*	8.0m
First Floor	1m	1m	1m	1m	8.0m
Side Setback (BTB)					
Ground Floor	0 - 0.2m	0 - 0.2m	0 - 0.2m	0 - 0.2m	n/a
First Floor	0.9m	1.0m	1.0m	1.0m	n/a
Side Setback (non-BTB)					
Ground Floor	0.9m	1.0m	1.0m	1.0m	1.5m
First Floor	0.9m	1.0m	1.0m	1.5m	2.0m
Garage Location	Preference is for garages to be constructed as a built to boundary wall as shown				
Site Coverage (Maximum)	75%	75%	60%	60%	50%

^{*} Rear boundary setback for a lot including a stepped retaining wall (or wall exceeding 2.5m) is to be increased to 2.5m

Note – within the above table BTB means Built-to-Boundary wall. If a Built-to-Boundary wall is constructed then the indicated BTB side shown on the Envelope Plans is mandatory not optional.

1.3.2 Interface Lots and Landscape Interface Buffer

- Interface lots are identified on the Pebble Creek Plan of Development (Envelope Plans)⁵;
- Interface lots are intended to provide a buffer between higher intensity residential uses within
 Pebble Creek to existing residential development along the southern boundary of interface lots;
- Fencing may be provided at the rear of interface lots in consultation with the adjoining land owner;
- If provided, fencing must be a minimum of 1.8m high and must be solid timber (no transparency);
- Interface lots must include a 4-metre-wide Landscape Interface Buffer as shown on the Pebble Creek
 Plan of Development (Envelope Plans), with the exception of Lots 835, 836 and part of lot 1256;



⁴ Please note that setbacks for interface lots 836 and 1256 will be as per the setback nominated on the Pebble Creek Plan of Development (Envelope Plans) - **Appendix B.**

⁵ Pebble Creek Plan of Development (Envelope Plans) are included in **Appendix B**.

- No buildings or structures are permitted within the Landscape Interface Buffer;
- No land disturbing activities (i.e. earthworks, retaining structures, vegetation clearing etc) are to be undertaken within the Landscape Interface Buffer;
- The Landscape Interface Buffer is to be maintained as a vegetated buffer and must be managed in order to control weeds and pests; and
- No vegetation clearing can be undertaken within the Landscape Interface Buffer except for declared weed removal.

1.3.3 Bushfire

- A separation of a minimum of 8 metres between unmanaged vegetation hazard to the west of Lot 836 and east of Lot 1256 and future dwellings must be provided in order to avoid BAL40 (in accordance with the Bushfire Management Plan dated 23 April 2018 and prepared by Bushfire Risk Reducers⁶);
- Lots may be subject to bushfire hazard Refer to the Envelope Plans⁶, which show BAL ratings for affected lots (derived from the Bushfire Management Plan prepared by Bushfire Risk Reducers) and also the Bushfire Management Plan⁶; and
- Lots may be affected by bushfire risk, requiring compliance with the relevant Australian Standard⁷.

1.3.4 Building Height

- Building height must not exceed 9 metres and 2 storeys;
- Building height is measured from natural ground level;
- To avoid any doubt, the natural ground level is taken to be the level of the land when the survey plan creating the subject lot was registered.

1.3.5 Streetscape Presentation

- Buildings must address each street frontage by utilising two or more of the following design elements in the primary frontage elevation:
 - Verandahs or porches; and/or
 - Awnings or shade structures; and/or
 - Variation to roof form; and/or
 - o Variation in building materials; and/or
 - Inclusion of windows to habitable rooms.
- Letterboxes must be clearly visible and identifiable from the street.

1.3.6 Building Design and Articulation

- All buildings with a width of more than 10 metres that are visible from a street or a park must be articulated to reduce the mass of the building by one or more of the following:
 - Windows recessed into the façade; and/or



⁶ Please refer to the Bushfire Management Plan prepared by Bushfire Risk Reducers dated 23 April 2018 (**Appendix C**) for further design requirements within the Pebble Creek Plan of Development Area.

- o Balconies, porches or verandah; and/or
- o Window Hoods/Screens; and/or
- Shadow lines are created on the building through minor changes in the facade (100 millimetres minimum).

1.3.7 Car Parking and Driveways

- Off-street car parking must be provided for in accordance with the following:
 - o Minimum of 2 spaces per dwelling (one of which must be within a garage).
- Car parking may be provided in tandem;
- Garages are to be located on the nominated Built-to-Boundary wall side (if applicable);
- Locations for driveways and garages are nominated on the Pebble Creek Plan of Development (Envelope Plans)⁸;
- If a Built-to-Boundary wall is constructed it must be constructed on the side nominated on the Pebble Creek Plan of Development (Envelope Plans)⁸;
- Garages are to be constructed in the location identified within the Pebble Creek Plan of Development (Envelope Plans)⁸ unless it can be demonstrated there is no conflict with existing services and does not materially affect the footpath/verge grade at or around the site frontage;
- There is a maximum of one driveway per dwelling unless a corner lot;
- Driveways must be a minimum of 6 metres from the intersection of a street; and
- The maximum width of a driveway at the lot boundary for a lot less than 12.5 metres wide is 3 metres.

1.3.8 Private Open Space

- Each detached dwelling has at least one clearly defined outdoor living space which has a minimum area of 12m² and a minimum dimension of 3 metres;
- Private open space must provide visual privacy from another outdoor living space via window or balcony screen; and
- Private open spaces must be directly accessible from a living area.

1.3.9 Fencing

- Fences, screens, and retaining walls and other structures are not more than 1 metre high within a truncation made by 3 equal chords of a 6 metre radius curve at the corner of the two road frontages;
- Fencing allows for overlooking of the street and park to provide casual surveillance opportunity;
- Fencing has a maximum height of 1.2 metres (where solid) or 1.5 metres (where at least 50% transparent); and
- Fencing to pedestrian links (shown as 'pedestrian link only' on the Envelope Plans) can be a maximum height of 1.2 metres (where solid); or up to 1.8 metres (where the part of the fence above 1.2 metres in height is at least 50% transparent).



⁸ Pebble Creek Plan of Development (Envelope Plans) are included in **Appendix B**.

1.4. Sales Office

A Sales Office (>150m²) can be located within the Pebble Creek Plan of Development Area (Residential Precinct) where:

- The maximum gross floor area of the sales office does not exceed 500m²;
- Parking is provided at a rate of 1 space per 50m² of gross floor area;
- The hours of operation of the Sales Office are within the period from 7am to 6pm;
- The balance of the site comprising the Sales Office use is landscaped and turfed to present attractively to the street;
- The Sales Office (or part thereof) is not located within an interface lot;
- The Sales Office must cease use after the final lot within the Pebble Creek Plan of Development Area is sold by the developer;
- Only one Sales Office is located within the Pebble Creek Plan of Development Area (Residential Precinct); and
- The Sales Office does not obtain access solely from Rose Almond Street.

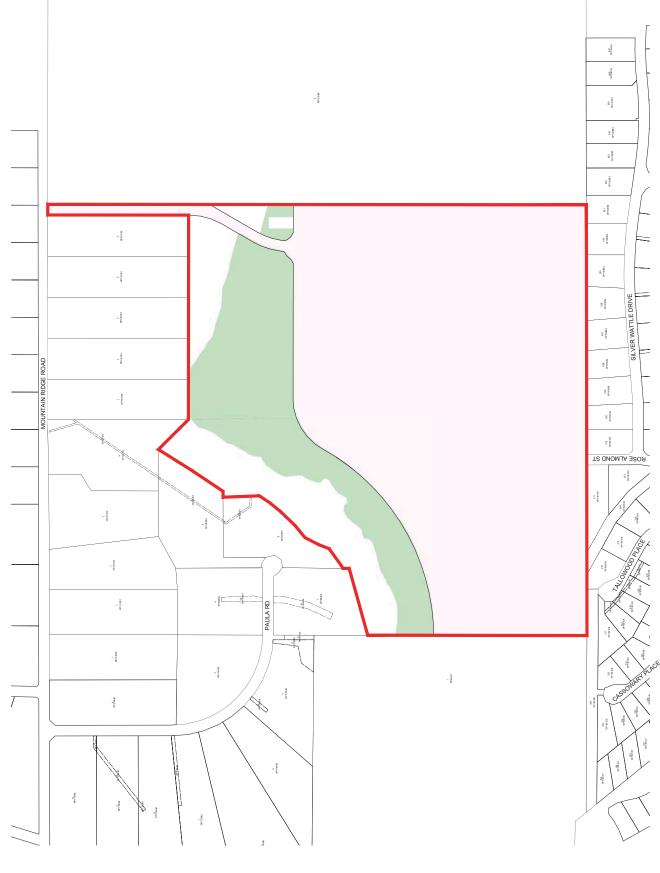


Appendix A

Pebble Creek Plan of Development Area



PEBBLE CREEK PLAN OF DEVELOPMENT AREA



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NOTES

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Pebble Creek Plan of Development Area
District Recreation Park

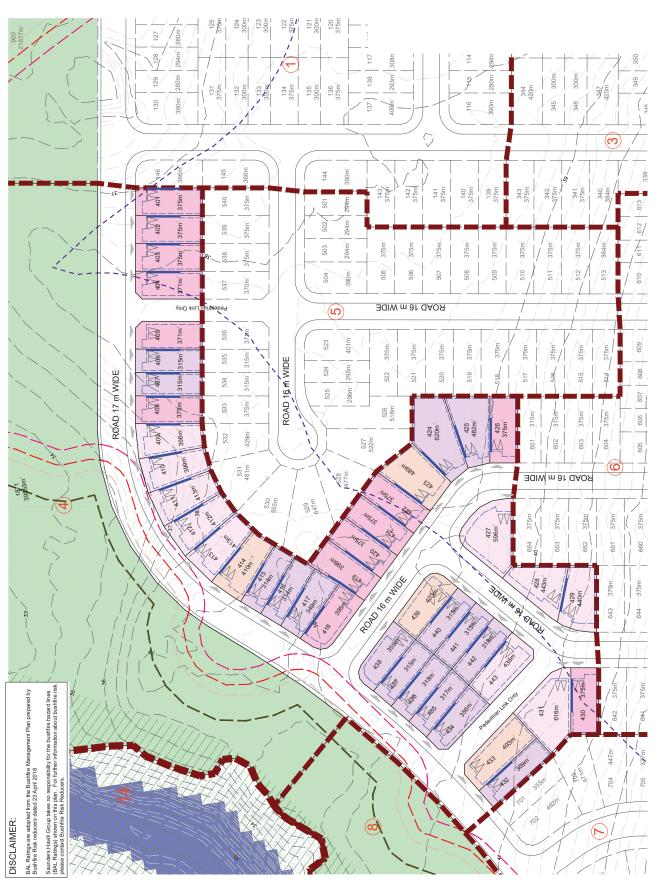
RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507

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Appendix B

Pebble Creek Plan of Development (Envelope Plans) Stages 4-14





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--- Indicative Building Envelope Built to Boundary Wall Site Boundary

---- Edge of Classified Vegetation Indicative Driveway Location Staging Boundary

Building Envelope Exclusion Zone Reach of BAL 19 Reach of BAL 29

— — Reach of BAL 12.5

All setbacks are measured to the wall of the structure. Houses must be wholly located within the subject lot A lot can have only one primary frontage.

For comer lots, a secondary frontage may be applicable, however a

For lots with a secondary frontage, no building or structure over 2m s to be built within a 6m x 6m truncation at the iageway is not a secondary frontage

The length of a Built-to Boundary wall is not to exceed 15m or 50% of

A 2.4m setback permitted to unenclosed entry features such as porche Building envelope and setback requirements may be affected by porticos, verandahs and balconies.

isions for easements for services, which may alter the setback

cover is the maximum area covered by all buildings and structure

oofed with impervious materials.

Lots may be affected by bushfire risk, requiring compliance with the

vant Australian Standard. refer to the Bushfire Manage

dated 23 April 2018 prepared by Bushfire Risk Reducers.

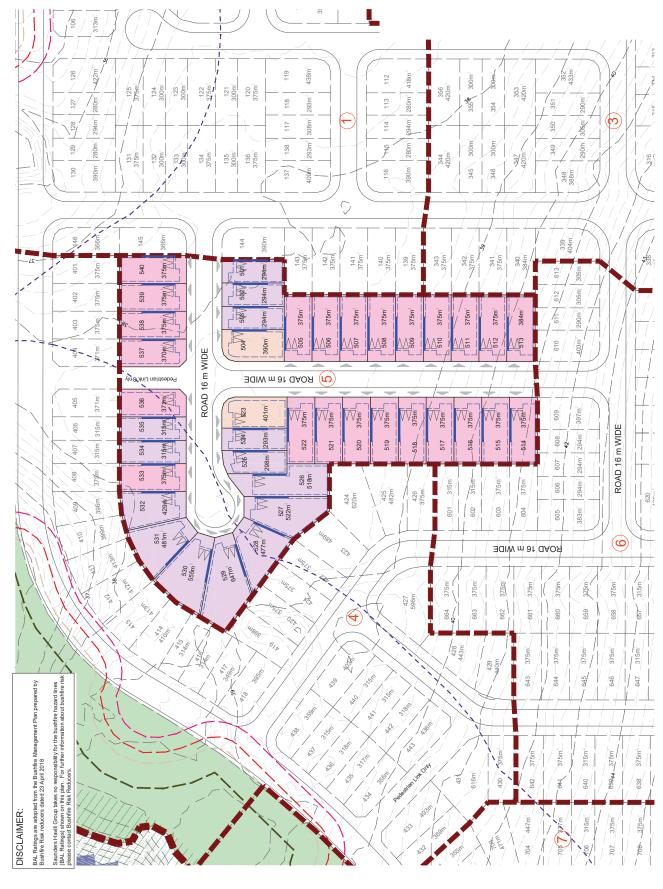
Building Height must not exceed 9 metres or 2 storeys. Refer to Section 1.3 of the Plan of Development for specific design

criteria for Houses

strian pathway is not considered to be a secondary frontage taken to be a side bou

5m 5m Premium Ir Courtyard Courtyard 0 - 0.2m 0 - 0.2m 0 - 0.2m 0 - 0.2m 75% Site Coverage (Maximum) To Wall (Ground Floor) To Wall (First Floor) Side Setback (BTB) secondary Frontage Garage Location Ground Floor Ground Floor Ground Floor First Floor First Floor Garage Garage

RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507



NOT TO BE USED FOR ENGINEERING DESIGN OR CONSTRUCTION

LEGEND

--- Indicative Building Envelope Built to Boundary Wall Site Boundary

——— Edge of Classified Vegetation Indicative Driveway Location Staging Boundary

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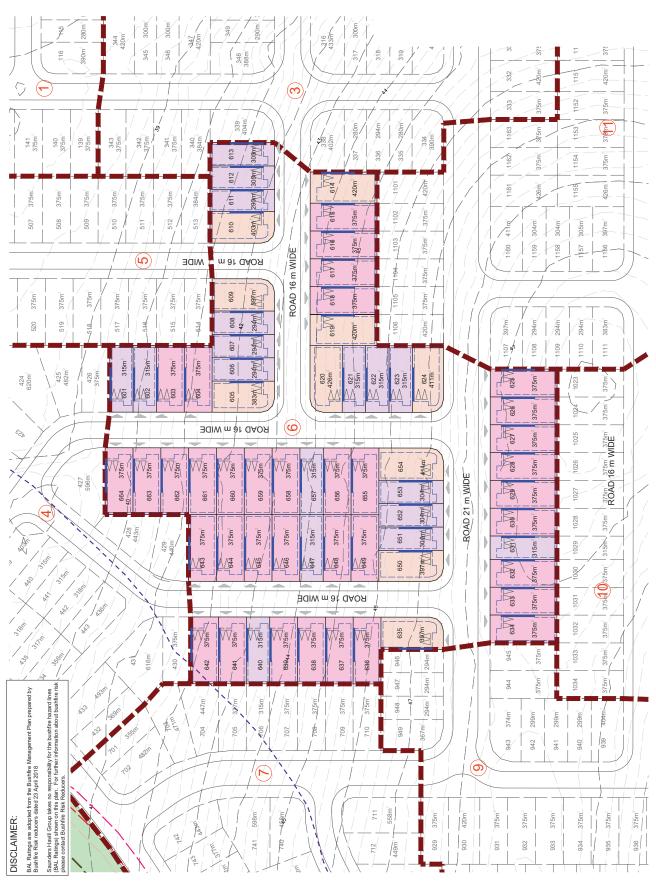
strian pathway is not considered to be a secondary frontage taken to be a side bou criteria for Houses

5m 5m Premium Ir Courtyard Courtyard Premium Villa Villa To Wall (Ground Floor) To Wall (First Floor) Garage

3m 5m 0 - 0.2m 0 - 0.2m 0 - 0.2m 0 - 0.2m %09 75% 75% 0.9m* 0.9m 1.5m 2m 5m Site Coverage (Maximum) To Wall (Ground Floor) To Wall (First Floor) Side Setback (non-BTB) Side Setback (BTB) Secondary Frontage Garage Location Ground Floor Ground Floor Ground Floor First Floor First Floor Garage

RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507

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LEGEND

--- Indicative Building Envelope Built to Boundary Wall Site Boundary

——— Edge of Classified Vegetation Indicative Driveway Location

Staging Boundary

Building Envelope Exclusion Zone Reach of BAL 29 Reach of BAL 19

— — Reach of BAL 12.5

All setbacks are measured to the wall of the structure Houses must be wholly located within the subject lot

For comer lots, a secondary frontage may be applicable, however A lot can have only one primary frontage.

carriageway is not a secondary frontage

For lots with a secondary frontage, no building or structure over 2m s to be built within a 6m x 6m truncation at the

The length of a Built-to Boundary wall is not to exceed 15m or 50% of

A 2.4m setback permitted to unenclosed entry features such as porche Building envelope and setback requirements may be affected by porticos, verandahs and balconies.

provisions for easements for services, which

cover is the maximum area covered by all buildings and structure oofed with impervious materials.

Lots may be affected by bushfire risk, requiring compliance with the dary walls are optional,

elevant Australian Standard. refer to the Bushfire Manager dated 23 April 2018 prepared by Bushfire Risk Reducers

Building Height must not exceed 9 metres or 2 storeys. Refer to Section 1.3 of the Plan of Development for specific design

A pedestrian pathway is not considered to be a secondary frontage taken to be a side bou criteria for Houses

5m 5m 3m 5m n/a n/a Courtyard Courtyard 0 - 0.2m 0 - 0.2m 0 - 0.2m 0 - 0.2m %09 Premium Villa 75% 75% 0.9m* 0.9m 1.5m 2m 5m Ę Site Coverage (Maximum) To Wall (Ground Floor) To Wall (First Floor) To Wall (Ground Floor) Side Setback (non-BTB) Ground Floor To Wall (First Floor) Side Setback (BTB) Secondary Frontage Garage Location Ground Floor Ground Floor First Floor First Floor Garage Garage

Rear boundary setback for a lot including a stepped retaining wall (or exceeding 2.5m) is to be increased to 2.5m

RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507



NOT TO BE USED FOR ENGINEERING DESIGN OR CONSTRUCTION



--- Indicative Building Envelope Built to Boundary Wall Site Boundary

——— Edge of Classified Vegetation Indicative Driveway Location Staging Boundary

Building Envelope Exclusion Zone Reach of BAL 19 Reach of BAL 29

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A 2.4m setback permitted to unenclosed entry features such as porce

Building envelope and setback require isions for easem

cover is the maximum area covered by all buildings and structure

fed with imper-

Lots may be affected by bushfire risk, requiring compliance with the

vant Australian Standard, refer to the Bushfire Manage

Building Height must not exceed 9 metres or 2 storeys. Refer to Section 1.3 of the Plan of Development for specific design dated 23 April 2018 prepared by Bushfire Risk Reducers.

criteria for Houses

trian pathway is not considered to be a secondary frontage taken to be a side bou

5m 5m Premium Ir Courtyard Courtyard 0 - 0.2m 0 - 0.2m 0 - 0.2m 0 - 0.2m 75% Site Coverage (Maximum) To Wall (Ground Floor) To Wall (First Floor) Side Setback (non-BTB) Ground Floor To Wall (Ground Floor) To Wall (First Floor) Side Setback (BTB) secondary Frontage Garage Location Ground Floor Ground Floor First Floor First Floor Garage Garage

RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507



NOT TO BE USED FOR ENGINEERING DESIGN OR CONSTRUCTION

LEGEND

--- Indicative Building Envelope Built to Boundary Wall Staging Boundary Site Boundary

Building Envelope Exclusion Zone --- Edge of Classified Vegetation Reach of BAL 29

Reach of BAL 19

Indicative Driveway Location

Landscape Interface Buffer (Refer to Pebble Creek Plan of Develops Reach of BAL 12.5

All setbacks are measured to the wall of the structure ises must be wholly located within the subject lot

A lot can have only one primary frontage.

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Built-to-boundary walls are optional, however if a Built -to-boundary proposed it must be constructed on the side indicated.

Lots may be affected by bushfire risk, requiring compliance with the vant Australian Standard. refer to the Bushfire Manage

dated 23 April 2018 prepared by Bushfire Risk Reducers

Building Height must not exceed 9 metres or 2 storeys. Refer to Section 1.3 of the Plan of Development for specific design

criteria for Houses

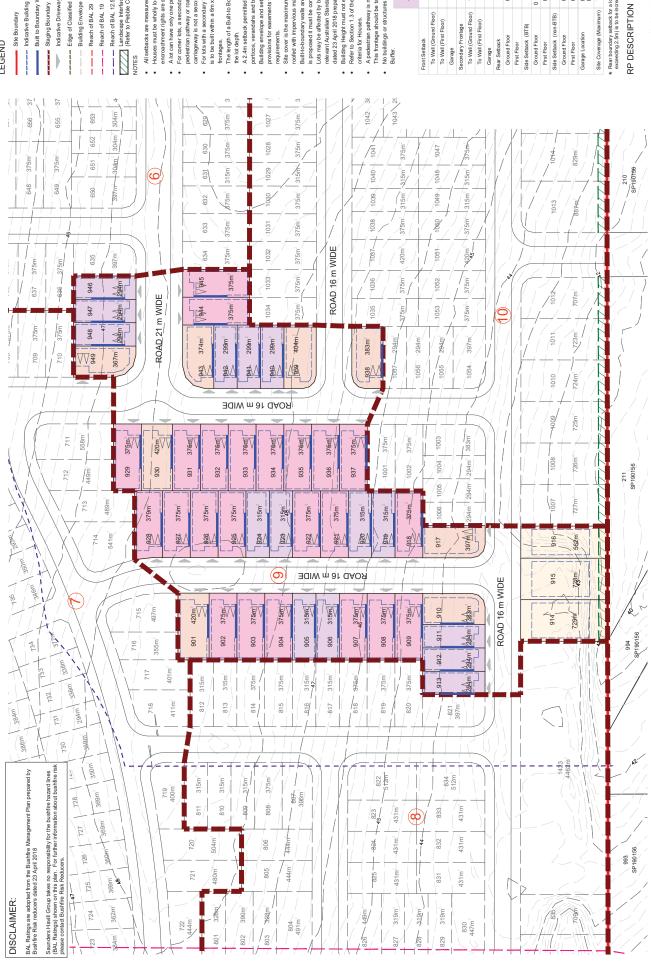
A pedestrian pathway is not considered to be a secondary frontage. This frontage should be taken to be a side boundary.

No buildings or structures are permitted in the Landscape Interface

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 Rear boundary setback for a lot including a stepped retaining wall (or exceeding 2.5m) is to be increased to 2.5m RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507

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NOT TO BE USED FOR ENGINEERING DESIGN OR CONSTRUCTION

LEGEND

--- Indicative Building Envelope Built to Boundary Wall Site Boundary

Building Envelope Exclusion Zone ——— Edge of Classified Vegetation Indicative Driveway Location Reach of BAL 29

Landscape Interface Buffer (Refer to Pebble Creek Plan of Develor Reach of BAL 12.5 Reach of BAL 19

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Lots may be affected by bushfire risk, requiring compliance with the vant Australian Standard. refer to the Bushfire Manage proposed it must be constructed on the side indicated.

dated 23 April 2018 prepared by Bushfire Risk Reducers

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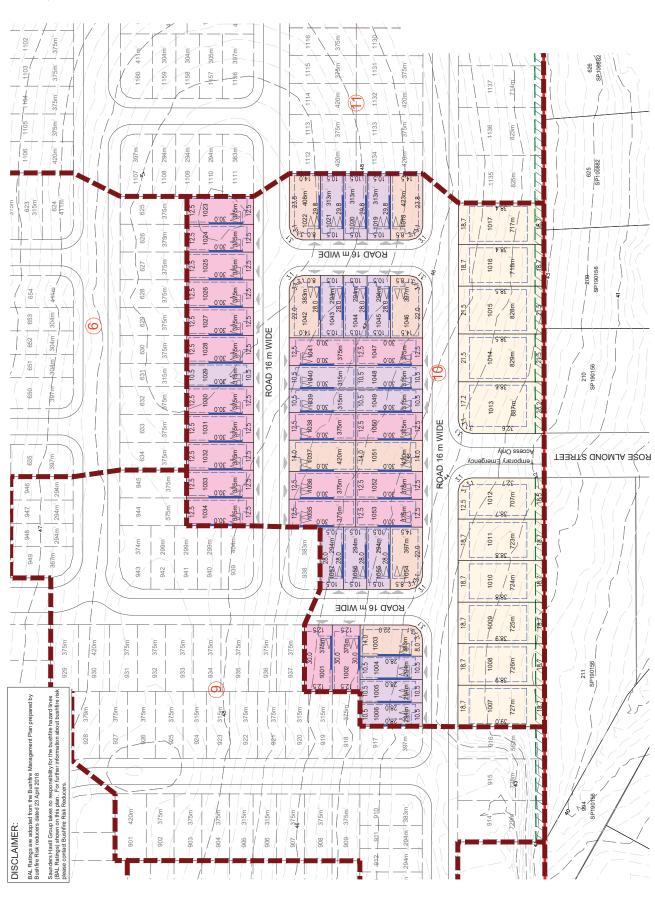
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RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507

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Site Boundary

 Indicative Building Envelope Built to Boundary Wall Staging Boundary

Building Envelope Exclusion Zon --- Edge of Classified Vegetation Indicative Driveway Location

Reach of BAL 29

— — Reach of BAL 12.5 Reach of BAL 19

ZZZ Landscape Interface Buffer (Refer to Pebble Creek Plan of Deve

Houses must be wholly located within the subject lot unless appropriate All setbacks are measured to the wall of the structure

For corner lots, a secondary frontage may be applicable, however pedestrian pathway or road reserve that does not contain a road carriageway is not a secondary frontage.

For lots with a secondary frontage, no building or structure over 2m high

The length of a Built-to Boundary wall is not to exceed 15m or 50% of is to be built within a 6m x 6m truncation at the corner of two road

Building envelope and setback requirements may be affected by

cover is the maximum area covered by all buildings and structu roofed with impervious materials.

Built-to-boundary walls are optional, however if a Built -to-boundary wal may be affected by bushfire risk, requiring compliance with the vant Australian Standard, refer to the Bushfire Management Plan s proposed it must be constructed on the side indicated.

dated 23 April 2018 prepared by Bushfire Risk Reducers

Refer to Section 1.3 of the Plan of Development for specific design criteria for Houses

A pedestrian pathway is not considered to be a secondary frontage. This frontage should be taken to be a side boundary.

No buildings or structures are permitted in the Landscape Interface

5m 5m 33 34 0 - 0.2m 1.0m 1.0m 1.5m %09 0 - 0.2m 75% 75% F F F 0-0.2m 0.9m 3m 5m 1.5m 2m 5m Ē Site Coverage (Maximum) To Wall (First Floor) To Wall (First Floor) Side Setback (BTB) Secondary Frontage Ground Floor First Floor Sarage Location Ground Floor Ground Floor Rear Setback Garage

Rear boundary setback for a lot including a stepped retaining wall (or exceeding 2.5m) is to be increased to 2.5m

RP DESCRIPTION LOT 6 on RP193185 & LOT 9 on SP203507

ORCHARD (PEBBLE CREEK) DEVELOPMENTS PTY LTD

For lots with a secondary frontage, no building or structure over 2m high

carriageway is not a secondary frontage.

For comer lots, a secondary frontage may be applicable,

A lot can have only one primary frontage.

All setbacks are measured to the wall of the structure Houses must be wholly located within the subject lot

Building Envelope Exclusion Zone

Reach of BAL 29 Reach of BAL 19 Reach of BAL 12.5

---- Edge of Classified Vegetation

Indicative Driveway Location

Staging Boundary

--- Indicative Building Envelope

Site Boundary

Built to Boundary Wall

is to be built within a 6m x 6m truncation at the corner of two road pedestrian pathway or road reserve that does not contain a road

A 2.4m setback permitted to unenclosed entry features such as porche

Building envelope and setback requirements may be affected by

The length of a Built-to Boundary wall is not to exceed 15m or 50% of

Built-to-boundary walls are optional, however if a Built-to-boundary wal

Lots may be affected by bushfire risk, requiring compliance with the

vant Australian Standard. refer to the Bushfire Manage proposed it must be constructed on the side indicated.

dated 23 April 2018 prepared by Bushfire Risk Reducers

Building Height must not exceed 9 metres or 2 storeys. Refer to Section 1.3 of the Plan of Development for specific design

criteria for Houses

A pedestrian pathway is not considered to be a secondary frontage. This frontage should be taken to be a side boundary.

No buildings or structures are permitted in the Landscape Interface

cover is the maximum area covered by all buildings and structures

roofed with impervious materials.

5m 5m

S 3 3

F F F

3m 5m

To Wall (First Floor)

33 34

2 J J

5 P B

1.5m 2m 5m

To Wall (First Floor)

Garage

Secondary Frontage

Garage

n/a n/a

0 - 0.2m 1.0m 1.0m 1.5m %09

0 - 0.2m

0-0.2m 0.9m

Ground Floor Ground Floor

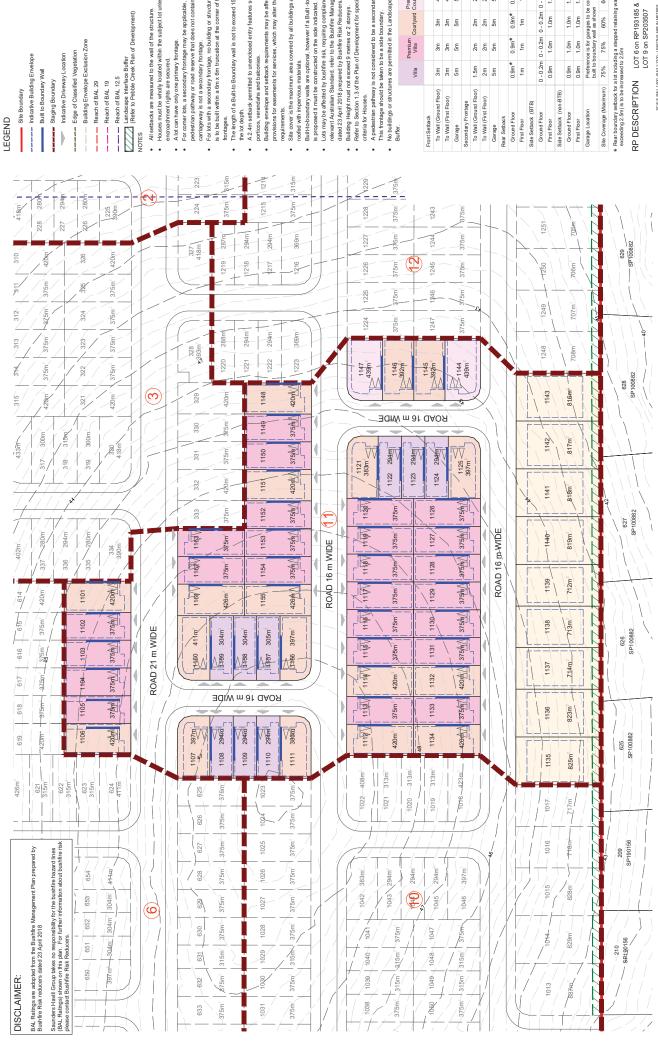
Ē

Side Setback (BTB)

Ground Floor Rear Setback

First Floor

PLAN OF DEVELOPMENT - STAGE 11



ORCHARD (PEBBLE CREEK) DEVELOPMENTS PTY LTD

saunders havill group

Rear boundary setback for a lot including a stepped retaining wall (or exceeding 2.5m) is to be increased to 2.5m

%09

75%

75%

Site Coverage (Maximum)

Sarage Location

First Floor

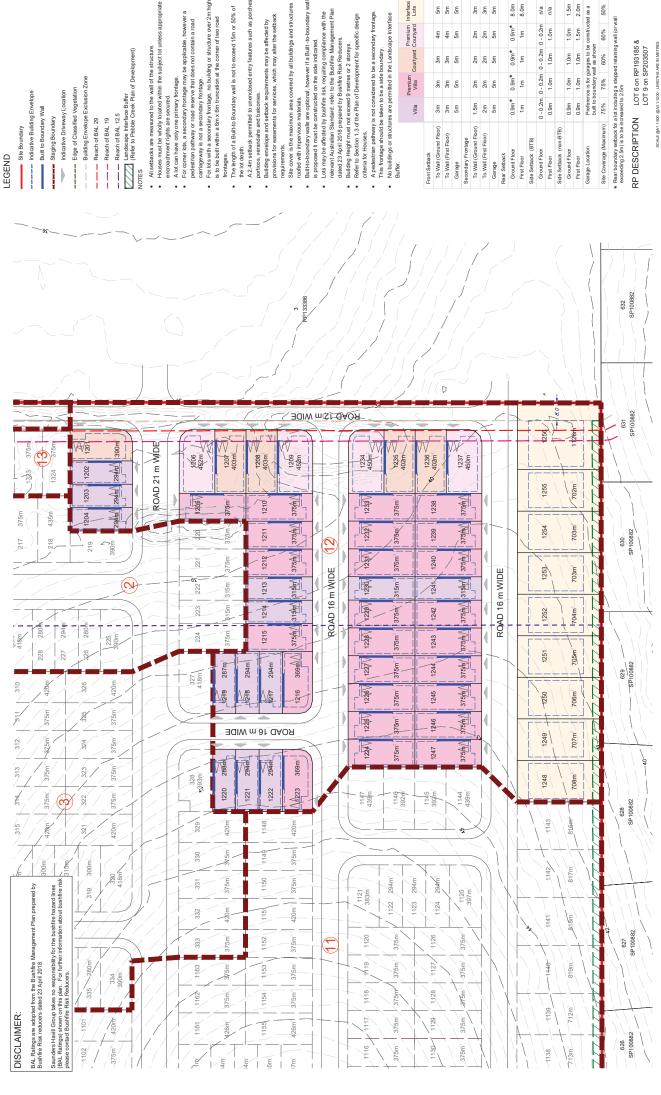
Building Envelope Exclusion Zone

Reach of BAL 12.5

Reach of BAL 19 Reach of BAL 29

Indicative Driveway Location

PLAN OF DEVELOPMENT - STAGE 12



cover is the maximum area covered by all buildings and structure

vant Australian Standard. refer to the Bushfire Manage

5m 5m

3m 5m

33 34

1.5m 2m 5m

n/a n/a

0 - 0.2m 1.0m 1.0m

0-0.2m 0.9m 1.5m

%09

75% 75%

ORCHARD (PEBBLE CREEK) DEVELOPMENTŠ PŤY ĽTĎ

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LEGEND

Site Boundary ---- Indicative Building Envelope Built to Boundary Wall Staging Boundary Indicative Driveway Location ---- Edge of Classified Vegetation — — Building Envelope Exclusion Zone __ _ _ Reach of BAL 29

__ _ Reach of BAL 12.5 NOTES

- All setbacks are measured to the wall of the structure.
 Houses must be wholly located within the subject lot unless appropriate encroachment rights are secured.
 Alot can have only one primary frontage.
- For corner lots, a secondary frontage may be applicable, however a pedestrian pathway or road reserve that does not contain a road
- pedestrian patriway or road reserve that does not contain a road carriageway is not a secondary frontage.

 For lots with a secondary frontage, no building or structure over 2m high is to be built within a 6m x 6m truncation at the corner of two road frontages.
- The length of a Built-to Boundary wall is not to exceed 15m or 50% of the lot depth.
 A 2.4m setback permitted to unenclosed entry features such as porches,
- porticos, verandahs and balconies.
- Building envelope and setback requirements may be affected by building envelope and sectods requirements may be anexted by provisions for easements for services, which may after the setback requirements.

 Site cover is the maximum area covered by all buildings and structures
- roofed with impervious materials.
- Built-to-boundary walls are optional, however if a Built-to-boundary wall is proposed it must be constructed on the side indicated.
 Lots may be affected by bushfire risk, requiring compliance with the relevant Australian Standard. refer to the Bushfire Management Plan dated 23 April 2018 prepared by Bushfire Risk Reducers.
 Building Height must not exceed 9 metres or 2 storeys.
 Refer to Section 1.3 of the Plan of Development for specific design
- criteria for Houses.
- A pedestrian pathway is not considered to be a secondary frontage. This frontage should be taken to be a side boundary.

SCLAIMER: L Ratings are adopted from the Bushfire Management Plan prepare	700 2381m 861m
t Natings are adopted from the bushine management rian prepare shifire Risk reducers dated 23 April 2018 unders Havill Group takes no responsibility for the bushfire hazard I	
unders Havili Group takes no responsibility for the bushfire nazard i AL Ratings) shown on this plan. For further information about bushf ase contact Bushfire Risk Reducers.	nes re risk
////////	
	13a
103 102 101	1401 1402 1403 1404 1405
8m² 280m² 280m² 280m² 280m² 382m²	371m ² 294m ¹ 294m ² 294m ² 390m
107 351m ² 357m ²	201 375m - 31301 375m 4
108 246	202 300m ² 1302 315m
368m ² 357m ²	
100 243 244 245	283 420m 1303 375m
109	204 375m 1304 375m
514m ² 350m ² 350m ² 439m ²	205 300m 1305 315m
	206 300m 1306 315m
	207 384m ² 1307 384m
110 242 241 240 239	
390m ² 280m ² 294m ² 280m ² 418m ²	208. 1311 1310 1309 1308
	390m 1294M 294M 294M 399H 1
111 420m ² T 238 420m ²	
301 375m ² 237 375m ²	3c ROAD 6 m WIDE 2
301 '375m²	Q RP133386
302 420m² 236 420m²	209 1 137 137 137 137 137 137 137 137 137 1
303 315m ² 235 315m ²	390m ² 294m ² 294m ² 294m ² 3 9 0m
204 245-2	
304 315m ² 234 315m ²	210 375m 1316 375m
305 420m ² 233 420m ²	211 315m /1817 375m
	212 315m²
306 429m² 232 429m²	1318 3156
308 309 230 231	213 375m
307 390m	214 375m ² 1320 375m
280m² 294m² 280m² 418m²	1320 37577
	215 420m ² 1 (1321 420m ²)
3	216 375m
229 J 211 310 418m ²	1322 375m
	217 375m 1323 375m
375m ² 420m ² 228 280 2	218 435m 1324 375m
227 294112	
325 326 226 280 1	219 1204 1203 1202 1201
375m ² 420m ² 1225 390m ²	390m 720m 200m 200m 200m
	294m 294m 390m
	12 /
327 418m 224 223 222	221 220 1205 452m / 1
1219 287m ² 375m ² 815m ² 315m ²	375m 375m 1207
1218 294m	403m\ 1
1215 1 1214 1213	1218 1211 1210 403m
1217 294m² \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

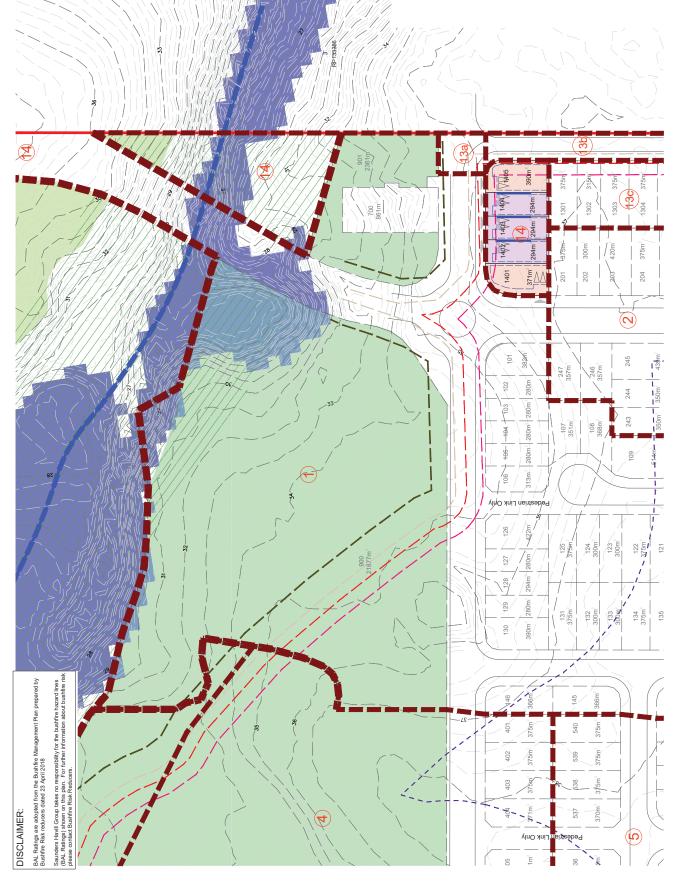
	Villa	Premium Villa	Courtyard	Premium Courtyard	Interface Lots
Front Setback					
To Wall (Ground Floor)	3m	3m	3m	4m	5m
To Wall (First Floor)	3m	3m	3m	4m	5m
Garage	5m	5m	5m	5m	5m
Secondary Frontage					
To Wall (Ground Floor)	1.5m	2m	2m	2m	3m
To Wall (First Floor)	2m	2m	2m	2m	3m
Garage	5m	5m	5m	5m	5m
Rear Setback					
Ground Floor	0.9m*	0.9m*	0.9m*	0.9m*	8.0m
First Floor	1m	1m	1m	1m	8.0m
Side Setback (BTB)					
Ground Floor	0 - 0.2m	0 - 0.2m	0 - 0.2m	0 - 0.2m	n/a
First Floor	0.9m	1.0m	1.0m	1.0m	n/a
Side Setback (non-BTB)					
Ground Floor	0.9m	1.0m	1.0m	1.0m	1.5m
First Floor	0.9m	1.0m	1.0m	1.5m	2.0m
Garage Location	Preference is for garages to be constructed as a built to boundary wall as shown				
Site Coverage (Maximum)	(Maximum) 75% 75% 60% 60% 50%			50%	

Rear boundary setback for a lot including a stepped retaining wall (or wall exceeding 2.5m) is to be increased to 2.5m

RP DESCRIPTION LOT 6 on RP193185 &

LOT 9 on SP203507





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LEGEND

 Indicative Building Envelope Indicative Driveway Location Built to Boundary Wall ---- Staging Boundary Site Boundary

Building Envelope Exclusion Zone Edge of Classified Vegetation Reach of BAL 29

— — Reach of BAL 12.5

NOTES

Reach of BAL 19

Houses must be wholly located within the subject lot unless:

- A lot can have only one primary frontage. encroachment rights are secured.
- corner lots, a secondary frontage may be applicable, howev
- estrian pathway or road reserve that does not irriageway is not a secondary frontage
- For lots with a secondary frontage, no building or structure over 2m s to be built within a 6m x 6m truncation at the comer of two road
- - he length of a Built-to Boundary wall is not to exceed 15m or 50% of
- 4.2.4m setback permitted to unenclosed entry features such as porch
- Iding envelope and setback requirements may be affected by
- Site cover is the maximum area covered by all buildings and structure
- ofed with impervious materials.
- Suilt-to-boundary walls are optional, however if a Built -to-boundary evant Australian Standard. refer to the Bushfire Manage proposed it must be constructed on the side indicated.
 - lated 23 April 2018 prepared by Bushfire Risk Reducers.
- Refer to Section 1.3 of the Plan of Development for specific design riteria for Houses.
- way is not considered to be a seco
- 0-0.2m 0-0.2m 0-0.2m %09 75% 33 33 0 - 0.2m 75% To Wall (Ground Floor) To Wall (First Floor) Site Coverage (Maximum) To Wall (Ground Floor) Side Setback (non-BTB) To Wall (First Floor) Sarage Location Ground Floor Ground Floor Ground Floor Rear Setback

Rear boundary setback for a lot including a stepped retaining wall (or exceeding 2.5m) is to be increased to 2.5m

RP DESCRIPTION LOT6 on RP193185 & LOT 9 on SP203507

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Appendix C

Bushfire Management Plan



BUSHFIRE MANAGEMENT PLAN



Owen Haslam By:

Date: 13/12/18

Mountain Ridge Road, South MacLean

Client Reference: 005.09.17



Bushfire Risk Reducers ABN 28 355 366 321



referred to in the PDA **DEVELOPMENT APPROVAL**

Approval no: DEV2017/887

14/12/18 Date:

DISCLAIMER

The following report is made on the basis of the assessment undertaken at this location by Bushfire Risk Reducers in September 2017.

Whilst Bushfire Risk Reducers uses its best endeavors to ensure that the information contained in this report is valid and comprehensive, the company makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the data being inaccurate or incomplete in any way and for any reason.

Should the Client have any concerns arising from this report or its content, they are requested to contact Bushfire Risk Reducers directly.

REPORT AUTHOR

Alistair Hill

Director - Bushfire Risk Reducers Grad Dip Bushfire Planning and Design FPAA BPAD-Level 3 Certified Practitioner Certification Number: BPD-PA-19034

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DOCUMENT CONTROL Bushfire Management Plan

Client: Mountain Ridge Pty Ltd

Client Reference: 005.09.17

Project: RoL and MCU

Site Location: Mountain Ridge Road, South McLean

Version	Date	Status	Changes	Author	Approver
Rev 0	8.09.2017	First Draft		AH	AH
Rev 1	19.09.2017	Second Draft		AH	AH
Rev 2	20.09.2017	Third Draft		AH	AH
Rev 3	11.10.2017	Final Report		AH	AH
Rev 4	20.03.2018	Final Report	Reponse to further details request	АН	AH
Rev 5	23.04.2018	Final Report	Reponse to further further details request	АН	AH

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1.0 Introduction

This report has been commissioned by Mountain Ridge Pty Ltd in order to support a Development Application for the subdivision of Lot 6 on RP193185 and Lot 9 on SP203507 into 650 Lots; and also in compliance with the Building Code of Australia (BCA), in respect of future residential buildings on each of the Lots.

Logan City Council (LCC) bushfire hazard overlay mapping classifies part of the Subject Lots and adjacent Lots as "bushfire prone area" (BPA). The hazard mapping is based on Queensland Government State Planning Policy (December 2013, latest version July 2017) accompanied by *A new methodology for State-wide mapping of bushfire prone areas in Queensland* (CSIRO 2014).

The designation by Council of land being BPA has two main implications:

- 1. It requires the production of a Bushfire Management Plan which complies with the Planning Scheme (in this case Part 8.2.3 (Bushfire Overlay Code) of the Logan Planning Scheme 2015).
- 2. It invokes the Building Code of Australia (BCA), requiring compliance with its bushfire related function performance objectives and with AS3959-2009 *Construction of buildings in bushfire prone areas*.

This Bushfire Management Plan objectively determines the nature and severity of potential worst case wildfire in the area, and develops risk mitigation measures to be used in combination with established construction needs in accordance with AS3959-2009. It is the implementation of all these protection measures in combination, that will demonstrate the viability and conformance of the proposed development in the development application process.

2.0 Site and Development Description

2.1 Property Description

Site ID: Lot 6 on RP193185 and Lot 9 on SP203507

Parish of MacLean, County of Stanley.

Current address of property: 3744 Mountain Ridge Road, South McLean, QLD 4280.

Local Government Area: Logan City Council.

Total Area: 53.91ha

Zoning: Emerging Community

2.2 Proposed Development

The proposed development is planned to create 650 Lots generally between 300 and 700m² in area, with a district Recreation Park and a Bio Basin.

2.3 Site Location and Layout



Figure 1. Broader area showing the location of the proposed development.

Located on the southern side of Mountain Ridge Road, and south of Flagstone Creek, the site abuts extensive areas of unmanaged forest to the west and east, and a strip of riparian forest across the north.

The proposed development involves a bridge being constructed across Flagstone Creek, so that two alternate access/egress routes exist for the site, one via Mountain Ridge Road to the north, and the other via Rose Almond Street to the south.

As designated Priority Development Area, development is anticipated to the west and east of the site, effectively lifting the bulk of the bushfire constraint. However in the meantime, current land use to the west and east of the site represents a potential threat to the development which is objectively assessed by this Plan, which develops a range of bushfire protection measures. In so doing this Plan serves to mitigate risk in the interim, to levels that can be considered acceptable.

Figure 2 shows the proposed subdivision in relation to vegetation that is being classified under AS3959-2009, and which is classifiable as potential hazard under Sc 6.2.6 Planning scheme policy 6 and under SPP 2016 – Natural hazards, risk and resilience.

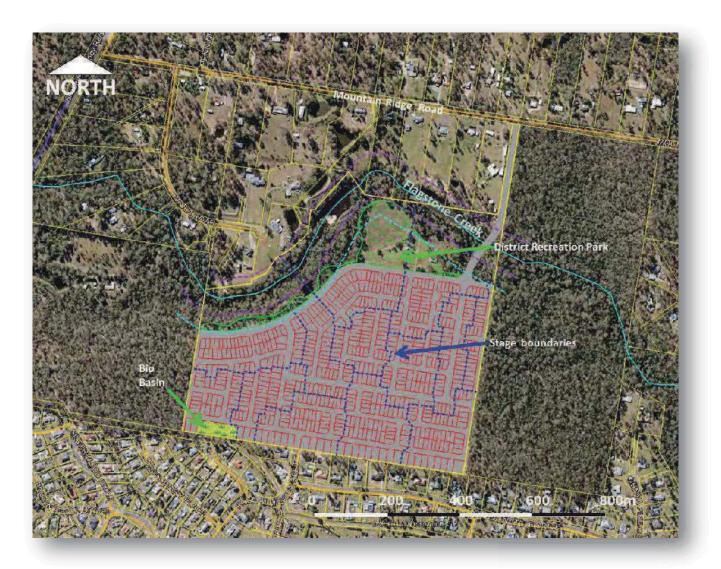


Figure 2. Proposed Subdivision and forest interfaces

Staging Plans are attached in Appendix 2.

Throughout the Staged development, the balance of Lot will be retained in a low hazard state by slashing.

The site is within approximately 10km by road of the nearest Queensland Fire and Emergency Services (Jimboomba Fire Station).

3.0 Bushfire Hazard Assessment

3.1 Bushfire hazard classification

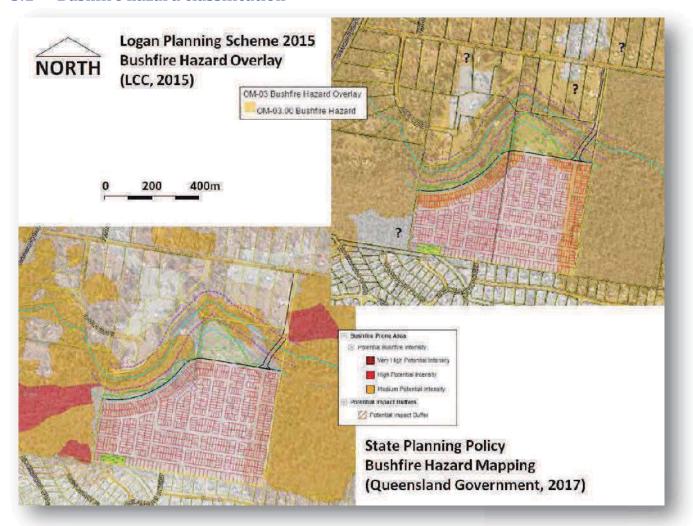


Figure 3. Council and latest State bushfire hazard mapping

"Bushfire Prone Area" (BPA) is defined under Section 12 of Building Regulation 2006 and the BCA as an area <u>identified as such by Local Government</u>, in this case using the methodology specified in *A new methodology for State-wide mapping of bushfire prone areas in Queensland* (CSIRO 2014). Logan City Council Policy 6 (Management of Bushfire Hazard) Part 2.1 outlines the requirement for a bushfire hazard assessment report based on such methodology in order to validate the bushfire hazard overlay mapping above.

It is argued that the purpose of Logan City Council Policy 6 (Management of Bushfire Hazard) Part 2.1 is ultimately to establish simply whether the site and bushland interface is BPA or not. This does not warrant a separate extensive report as inferred by Part 2.1.3, which would add complexity and cost to the process without achieving any more value than achieved by the clear and concise approach taken by this BMP. This BMP achieves the same validation by stepping through Sections 3 (evidencing vegetation, fuel loads, slope, separation distances) and carrying this data forward to Section 6 (Fire weather characteristics and calculated fire parameters, based on the same (CSIRO) methodology). In the process it validates the BPA status of the remaining hazard interfaces.

The BCA calls up AS3959-2009 as providing "Deemed to Satisfy" construction levels for Class 1, 2 and 3 buildings constructed in bushfire prone areas. AS3959-2009 specifies building implications within 100m of designated bushfire prone land, or more strictly speaking, within 100m of intact, classified vegetation (50m in the case of grassland). This BMP establishes Bushfire Attack Levels (BALs) for affected Lots, using a combination of Methods 1 and 2 approach under AS3959-2009.

Although ostensibly based on the same methodology, there are differences between State and LCC bushfire hazard mapping. There are also errors and inaccuracies as shown in Figure 3. In various ways neither mapping is completely accurate, neither claims to be, and site assessment is required to establish bushfire hazard and risk more realistically.

3.2 Vegetation Assessment, Slope and Separation Distances from Proposed Development



Figure 4. Fuel Zones Assessed Solid orange arrows indicate most likely direction of bushfire attack, dotted arrows in the form of embers.

Figure 4 shows the five main fuel zones assessed. The average slope is taken as 3° down for each area.

Section 6 objectively calculates and determines the potential nature and severity of bushfire attack more thoroughly. This serves as a basis for determining the construction and other bushfire protection measures outlined in this BAL Assessment.

Fuel assessments were determined using the Overall Fuel Hazard Assessment Guide - DSE Victoria (Oct 2010).

3.3 Fuel Accumulation Assessment - Fuel Area 1



Figure 5. Fuel Accumulation Assessment - Fuel Area 1

Fuel hazard estimate		Assessment according to Hines et al 2010			
Date: 30th August 2017					
Layer	Rating	Description / Comments	Equivalent fuel load t/ha		
Surface and near surface	Low Potential Moderate	Low litter bed 10 mm with Low to moderate NS fuels, <i>Themeda sp</i> , partly grazed by macropods <i>Lomandra sp</i> , and fine native grasses.	5 – 6 Potential 8		
Elevated	Moderate	Canopy recruiters, with Alphitonia sp, L.suavolens, Acacia spp, and patches of Lantana sp most fuel at the top of the layer	3		
Bark	High	Some ribbon bark (E.tereticornis) and papery barks (L.suavolens) with low bark hazard - C. intermedia, C.trachyphloia, C.tessellaris.	1 - 2		
Overall rating	Moderate		11t/ha		

Table 1. Fuel Assessment Fuel Area 1.

Whilst not mapped as remnant, site assessment identified the developing vegetation community most closely resembling RE12.3.11, for which Queensland Fire and Emergency Services (QFES) attributes a default Total Available Fuel Load of 15.9t/ha.

Giving consideration to both State and observed available fuel values, more than 15 years post fire; and recognising the limitations in soil water holding capacity, a total of 15.9t/ha (8t/ha of which is Surface and Near Surface fuel) is considered reasonable to use in fire modelling in accordance with Method 2 of AS3959-2009, as presented in Section 6.

3.4 Fuel Accumulation Assessment - Fuel Area 2



Figure 6. Fuel Accumulation Assessment - Fuel Area 2

Fuel hazard estimate		Assessment according to Hines et al 2010			
Date: 30th August 2017					
Layer	Rating	Description / Comments	Equivalent fuel load t/ha		
Surface and near surface	Very high	High litter bed 20 -30 mm with Very high NS fuels as grasses to 1m.	12		
Elevated	High	Canopy recruiters, with <i>Acacia spp</i> , and areas of dense <i>Lantana</i> sp more dense toward Flagstone Creek	3 - 5		
Bark	High	Some ribbon bark (E.tereticornis) with low bark hazard - C. citriodora, C.tessellaris, E.propinqua, E.siderophloia.	1 - 2		
Overall rating	Very high		19t/ha		

Table 2. Fuel Assessment Fuel Area 2.

More than 15 years without fire, fuel loads can be expected to be nearing their long term stable maximum state. More favourable soil moisture conditions closer to Flagstone Creek have supported higher fuel loads, higher than the QFES dataset default values for Total Available Fuel Load of 14.9t/ha and 15.9t/ha for mapped RE 12.3.6 and 12.3.11, and closer to the 20.8t/ha for RE12.9 - 10.2. A total available fuel value of 21t/ha (12t/ha of which is surface and near surface fuel) is applied to site specific fire modelling for Area 2 in Section 6.

3.5 Fuel Accumulation Assessment - Fuel Area 3



Figure 7. Fuel Accumulation Assessment - Fuel Area 3

Fuel hazard estimate		Assessment according to Hines et al 2010	
Date: 30th August 2017			
Layer	Rating	Description / Comments	Equivalent fuel load t/ha
Surface and near surface	High	High litter bed 30 mm with Low NS fuels shaded out.	10 - 12
Elevated	Very high	Canopy recruiters, with <i>Acacia spp</i> , and areas of dense <i>Lantana</i> sp more dense toward Flagstone Creek	5 - 6
Bark	High	Some ribbon bark (E.tereticornis) with low bark hazard - C. citriodora, C.tessellaris, C.intermedia, E.propinqua, E.siderophloia.	1 - 2
Overall rating	Very high		20t/ha

Table 3. Fuel Assessment Fuel Area 3.

More than 15 years without fire, fuel loads can be expected to be nearing their long term stable maximum

More favourable soil moisture conditions closer to Flagstone Creek have supported higher fuel loads, comparable to the State Government default values for Total Available Fuel Load of 20.8t/ha for mapped RE 12.9 – 10.2 in Area 3. A total available fuel value of 20.8t/ha (12t/ha of which is surface and near surface fuel) is applied to site specific fire modelling for Area 3 in Section 6.

3.6 Fuel Accumulation Assessment - Area 4



Figure 8. Fuel Accumulation Assessment - Area 4 South

Fuel hazard estimate		Assessment according to Hines et al 2010	
Date: 30th August 2017			
Layer	Rating	Description / Comments	Equivalent fuel load t/ha
Surface and near surface	Low Potential Moderate	Low litter bed 10 mm with Low to moderate NS fuels, <i>Themeda sp</i> , partly grazed by macropods <i>Lomandra sp</i> , and fine native grasses.	5 – 6 Potential 8
Elevated	Moderate	Canopy recruiters, with Alphitonia sp, L.suavolens, Acacia spp, and patches of Lantana sp most fuel at the top of the layer	3
Bark	High	Some ribbon bark (E.tereticornis) and papery barks (L.suavolens) with low bark hazard - C. intermedia, C.trachyphloia, C.tessellaris.	1 - 2
Overall rating	Moderate		11t/ha

Table 4. Fuel Assessment Fuel Area 4.

Mapped by State Government as remnant vegetation of RE12.9 – 10.2, site assessment supports an RE classification more closely resembling RE12.3.11, for which Queensland Fire and Emergency Services (QFES) attributes a default Total Available Fuel Load of 15.9t/ha.

However drier soil conditions further away from Flagstone Creek is limiting biomass accumulation potential.

Giving consideration to both State and observed available fuel values, more than 15 years post fire; and recognising the limitations in soil water holding capacity, a total of 15.9t/ha (8t/ha of which is Surface and Near Surface fuel) is considered reasonable to use in fire modelling in accordance with Method 2 of AS3959-2009, as presented in Section 6.

3.7 Fuel Accumulation Assessment - Area 5



Figure 9. Fuel Accumulation Assessment - Area 5 South

Fuel hazard estimate		Assessment according to Hines et al 2010	
Date: 30th August 2017			
Layer	Rating	Description / Comments	Equivalent fuel load t/ha
Surface and near surface	Low Potential Moderate	Low litter bed 10 mm with Low to moderate NS fuels, <i>Themeda sp</i> , partly grazed by macropods <i>Lomandra sp</i> , and fine native grasses.	5 – 6 Potential 8
Elevated	Moderate	Canopy recruiters, with Alphitonia sp, L.suavolens, Acacia spp, and patches of Lantana sp most fuel at the top of the layer	3
Bark	High	Some ribbon bark (E.tereticornis) and papery barks (L.suavolens) with low bark hazard - C. intermedia, C.trachyphloia, C.tessellaris.	1 - 2
Overall rating	Moderate		11t/ha

Table 5. Fuel Assessment Fuel Area 5.

Mapped by State Government as remnant vegetation of RE12.9 - 10.2, site assessment supports an RE classification more closely resembling RE12.3.11, for which Queensland Fire and Emergency Services (QFES) attributes a default Total Available Fuel Load of 15.9t/ha.

However drier soil conditions further away from Flagstone Creek is limiting biomass accumulation potential.

Giving consideration to both State and observed available fuel values, more than 15 years post fire; and recognising the limitations in soil water holding capacity, a total of 15.9t/ha (8t/ha of which is Surface and Near Surface fuel) is considered reasonable to use in fire modelling in accordance with Method 2 of AS3959-2009, as presented in Section 6.

4.0 Site constraints and environmental values which may limit mitigation options

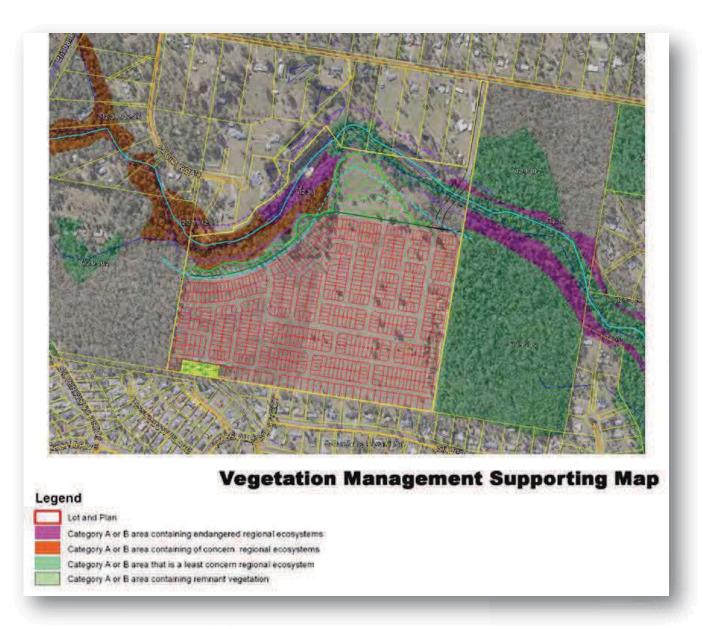


Figure 10. Regional Ecosystem (RE) Mapping

Figure 10 shows the proposed development location in relation to vegetation mapped by the Queensland Department of Natural Resources and Mines as "Of Least Concern" RE 12.9-10.2, 12.3.6 and "Of Concern" RE 12.3.11 adjacent to the Subject Lot.

DNRM provides the following Description and recommended fire guidelines for the vegetation communities mapped.

Regional Ecosystem	Description	Fire Guidelines
RE 12.9.10.2 Of Least Concern	Open-forest or woodland of <i>Corymbia citriodora</i> , usually with <i>Eucalyptus crebra</i> . Other species such as <i>Eucalyptus tereticornis</i> and <i>Corymbia intermedia</i> may be present in scattered patches or in low densities. Understorey can be grassy or shrubby. Shrubby understorey of <i>Lophostemon confertus</i> (whipstick form) often present in northern parts of bioregion. Occurs on Cainozoic and Mesozoic sediments. (BVG1M: 10b) Vegetation Hazard Class (VHC) 10.1 20.8t/ha Total Available Fuel Load (State Default Value)	OPTIMAL SEASON: Summer to winter. INTENSITY: Low to moderate. INTERVAL: 4-25 years. STRATEGY: Aim for 40-60% mosaic burn. Burn with soil moisture and with a spot ignition strategy so that a patchwork of burnt/unburnt country is achieved. ISSUES: The fire regime should maintain a mosaic of grassy and shrubby understoreys. Control of weeds is a major focus of planned burning in most areas. Careful thought should be given to maintaining ground litter and fallen timber habitats by burning only with sufficient soil moisture. Burning should aim to produce fine scale mosaics of unburnt areas. Variability in season and fire intensity is important, as well as spot ignition in cooler or moister periods to encourage mosaics.
RE 12.3.6 Of Least Concern	Melaleuca quinquenervia, Eucalyptus tereticornis, Lophostemon suaveolens +/- Corymbia intermedia open-forest to woodland with a grassy ground layer dominated by species such as Imperata cylindrica. Occurs on Quaternary floodplains and fringing drainage lines in coastal areas. (BVG1M: 22a) Vegetation Hazard Class (VHC) 22.1 14.9t/ha Total Available Fuel Load (State Default Value)	OPTIMAL FIRE SEASON: Late summer to midwinter (after rain). INTENSITY: Planned and occasional unplanned burns (typically of higher intensity) influence the ecology of melaleuca ecosystems. INTERVAL: Heath 8-12 years, Sedge 12-20 years, Mixed grass/shrub 6-20 years. STRATEGY: Aim for a 25-70% burn mosaic (in association with surrounding ecosystems, as melaleuca ecosystems often just occur in patches or along natural drainage lines). Fires may, depending on the conditions and type of vegetation, burn areas larger than just the melaleuca ecosystem. Ensure secure boundaries from non fire-regime adapted ecosystems. Consider the needs of melaleuca ecosystems based on understorey (i.e., heath dominated, sedge dominated or mixed grass/shrub) when planning burns. High soil moisture (or presence of water on the ground) is required, as avoidance of peat-type fires must be maintained. ISSUES: Fire regimes for melaleuca ecosystems require further fire research. Melaleuca forests are fire-adapted, but too high an intensity or frequent fire will slow or prevent regeneration and lead to lower species richness (since these communities contain numerous obligate seed regenerating species that require sufficient fire intervals to produce seed). High intensity fires may kill trees and lead to whipstick regeneration. Too frequent fire may result in a net loss of nutrients over time from an already nutrient poor system. Fire associations are significantly influenced by understorey composition. Melaleuca communities with a heath understorey should burn in a similar way to coastal heath (8-12 years). Sedge understorey communities will burn in association with the surrounding ecosystems

(so will often burn with them but sometimes not, such that these communities have a slightly less fire frequency). Mixed understorey communities burn in a similar way to dry sclerophyll, in association with the surrounding dry sclerophyll, though somewhat less frequently due to the additional moisture present in melaleuca communities. OPTIMAL FIRE SEASON: Summer to late-Open-forest to woodland of Eucalyptus tereticornis, RE 12.3.11 E. siderophloia and Corymbia intermedia. Corymbia Of Concern tessellaris, Lophostemon suaveolens and Melaleuca INTENSITY: Low. quinquenervia frequently occur and often form a low INTERVAL: 3-6 years. STRATEGY: Aim to burn 40-60% of any given tree layer. Other species present in scattered patches or low densities include Angophora area. Spot ignition in cooler or moister periods leiocarpa, E. exserta, E. grandis, C. trachyphloia, C. encourages mosaics. citriodora, E. latisinensis, E. tindaliae, E. racemosa, ISSUES: Control of weeds is a major focus of Melaleuca sieberi and M. viridiflora. E. seeana may planned burning in most areas. Maintain ground litter and fallen timber habitats by be present south of Landsborough. Occurs on Quaternary alluvial plains and drainage lines along burning only with sufficient soil moisture. coastal lowlands. Rainfall usually exceeds 1000mm/y Burning should aim to produce fine scale (BVG1M: 16c) mosaics of unburnt areas. Major vegetation communities include: 12.3.11a: Open-forest of Eucalyptus tereticornis and/or E. siderophloia with vine forest understorey. Other canopy species include Corymbia intermedia, Araucaria cunninghamii and Agathis robusta. Frequently occurring understorey species include Flindersia spp., Lophostemon suaveolens, L. confertus, Cupaniopsis parvifolia, Acronychia spp., Alphitonia excelsa and Acacia disparrima subsp. disparrima. Occurs on sub-coastal Quaternary alluvial plains. Rainfall usually exceeds 1000mm/y. (BVG1M: 16c) Vegetation Hazard Class (VHC) 16.1 15.9t/ha Total Available Fuel Load (State Default Value)

Table 6. Regional Ecosystems Descriptions and Fire Guidelines

The retained areas of forest vegetation are unlikely to be provided with managed fire, along with the temporary hazard reduction benefits this brings.

Planning is not based on any assumptions regarding hazard reduction; and has to be based on fuel levels reaching a long term maximum stable state, coinciding with ignition under worst case foreseeable fire weather conditions.

4.1 Fire History and Frequency

This study found several indicators of prior fire, dating back more than 15 years. Recurrence of fire at some time has to be regarded as possible, potentially coinciding with maximum fuel accumulation and worst case fire weather conditions.

5.0 Specific risk factors associated with the development proposal

5.1 Nature of activities anticipated on site

Normal residential activities are anticipated to occur in the area, which includes the potential inclination of juveniles and others to make temporary "camps" in bushland, and others to undertake illegal dumping or torching of vehicles. The number of fire incidents expected by QFES varies in direct proportion to the numbers of people present. The proposed development adds significantly to the number of people living in the area or likely to cause ignition. However only a limited number of new Lots are directly exposed.

5.2 Numbers of people likely to be present

2 - 4 residents could be expected to be present on each of the 650 Lots. The proposed development adds significantly to the number of people living in the area or potentially exposed to the possibility of unplanned fire, however the design of the development and road layout serves to protect life and property, and facilitate access and egress.

6.0 Nature and Severity of Potential Bushfire Attack

6.1 Bushfire season and Fire Weather

The "typical fire season" in this area peaks between September and November. The predominant winds in the area are south easterly, however during the fire season, hot gusty westerlies of over 30 kph can be expected, with Relative Humidity falling to 10% and less. Temperatures on these days can climb over 35°C, and for two or three days a year, fire weather conditions equivalent to FDI levels of around 60 can be anticipated. (Note that this is in contrast to the value of 40 which Queensland is currently using in the recently revised AS3959 - 2009).

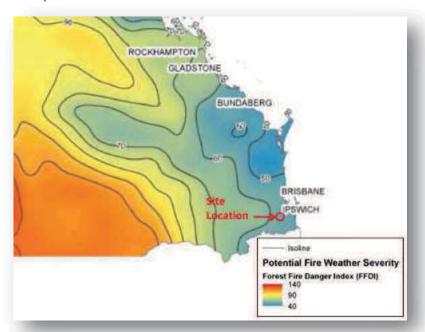


Figure 11. State Government revised FDI values to FDI 60 for the area involved. (CSIRO, 2014).

6.2 Anticipated direction of bushfire attack

The probability of unplanned "wildfire" attack is currently regarded as possible, or even likely. The potential directions of attack are from the west or north, as indicated in Figure 4. Note that the location of the hazard alligns with the direction of worst case fire weather on the western side of the site, with significant potential fire run lengths.

Bushfire attack comes in a number of forms: direct flame, radiant heat, embers, smoke and wind. Research shows that over 80% of houses lost to bushfire in Australia can be attributed to ember attack, within 100m of bushland.

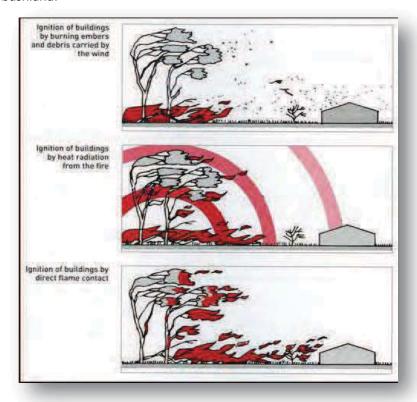


Figure 12. Main Bushfire Attack mechanisms (Image courtesy of Ramsay & Rudolf, 2003)

6.3 Anticipated severity of bushfire attack

Values for vegetation type, fuel load and slope are carried forward to Table 7, to predict the key fire parameters for the potential worst case fire scenario.

Fire Scenario – Area 1, 4 and 5 Method 2 AS3959-2009 FDI 60 Forest @ 8/15.9t/ha. Ave Slope under vegetation 3° Down	Fire Scenario – 1, 2, 3, 4 and 5 Method 1 AS3959 – 2009 FDI 40 Forest <u>Ave</u> Slope under vegetation 0 - <5° Down	Fire Scenario – Area 2 and 3 Method 2 AS3959-2009 FDI 60 Forest @ 12/20.8t/ha. Ave Slope under vegetation 3° Down
Fire Intensity (Byram, 1959) 5 820W/m ("MEDIUM")		Fire Intensity (Byram, 1959) 11 421kW/m ("MEDIUM")
Rate of Spread (Noble et al, 1980) 0.71kph		Rate of Spread (Noble et al, 1980) 1.06kph
Flame Height (modified Mc Arthur V equation, NSW RFS 2001)6.51m		Flame Height (modified Mc Arthur V equation, NSW RFS 2001) 9.4m
Flame Width 100m		Flame Width 100m
Elevation of Receiver 2.4m		Elevation of Receiver 2.4m
BAL FZ within <6m of intact unmanaged vegetation	BAL FZ within <12m of intact unmanaged vegetation	BAL FZ within <8m of intact unmanaged vegetation
BAL 40 from 6 - <8m	BAL 40 from 12 - <16m	BAL 40 from 8 - <11m
BAL 29 from 8 - <12m	BAL 29 from 16 - <24m	BAL 29 from 11 - <16m
BAL 19 from 12 - <17m	BAL 19 from 24 - <34m	BAL 19 from 16 - <23m
BAL 12.5 from 17 – 100m	BAL 12.5 from 34 – 100m	BAL 12.5 from 23 – 100m

Table 7. Calculated values for potential bushfire characteristics, and methods used.

The radiant heat flux values for Methods 1 and 2 are compared as Bushfire Attack Levels (BALs) in Table 7 and Figure 13. The predicted fireline intensity for all unmanaged vegetation interfaces is in the "Medium" range, validating the designation of bushland interfaces as BPA for the purposes of Logan City Council Policy 6 (Management of Bushfire Hazard) Part 2.1.

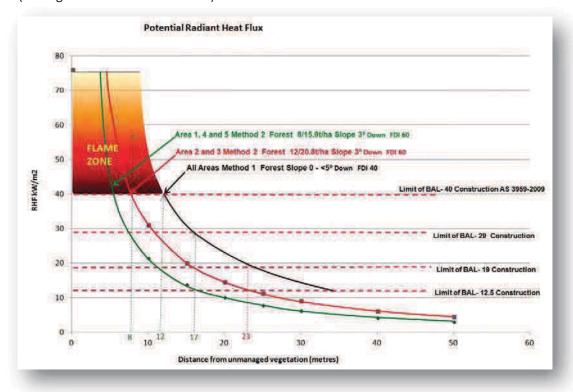


Figure 13. Radiant Heat Flux Predicted by Methods 1 and 2.

LCC bushfire overlay code permits development design that results in construction up to and including BAL 29 for future dwellings. With a minimum separation of 8m between future dwellings and retained vegetation being classified in Areas 1, 4 and 5, BAL 29 is shown to be viable. With a minimum separation of 12m between future dwellings and vegetation being classified in Areas 1, 4 and 5, BAL 19 is shown to be viable. With a minimum separation of 17m between future dwellings and vegetation being classified in Areas 1, 4 and 5, BAL 12.5 is shown to be viable. (Refer to the BAL contours in Figure 15 and 16).

With a minimum separation of 23m between future dwellings and vegetation being classified in Areas 2 and 3, BAL 12.5 is shown to be viable. The roadway and District Recreation Park to the north provides such setback.

The significance of the radiant heat flux levels discussed is shown below in Table 8.

Radiant Heat Flux (kW/m²)	Likely Effects
> 40 - 110	Flame Zone. Even the strongest toughened glass fails.
	Latest technology in toughened glass may survive. Most will not. Timber ignites without pilot flame. Limit
29 - 40	of BAL-40 Construction AS3959 - 2009.
	Ignition of timbers without piloted ignition (3 minutes exposure) during the passage of a bushfire. Most
29	types of toughened glass could fail. Limit of BAL-29 Construction AS3959 - 2009.
	Screened float glass could fail during the passage of a bushfire.Limit of BAL-19 Construction AS3959 -
19	2009.
	Standard float glass could fail during the passage of a bushfire. Limit of BAL-12.5 Construction AS3959 -
12.5	2009. Some timbers can ignite with prolonged exposure and with pilot ignition sources (eg embers)
	Critical conditions. Firefighters not expected to operate in these conditions. Considered life threatening in
	under a minute in protective equipment. Fabrics inside a building could ignite spontaneously with long
10	exposures.
7	Likely fatal to unprotected persons after exposure of several minutes.
4.7	Extreme conditions. Firefighter in protective clothing will feel pain after 60 seconds exposure.
3	Hazardous conditions. Firefighters expected to operate for a short period (10 minutes).
2.1	Unprotected person will feel pain after 1 minute exposure - non fatal.

Table 8. Significance of various RHF levels (Source: NSW RFS, 2006)

7.0 Bushfire Protection Measures in Combination

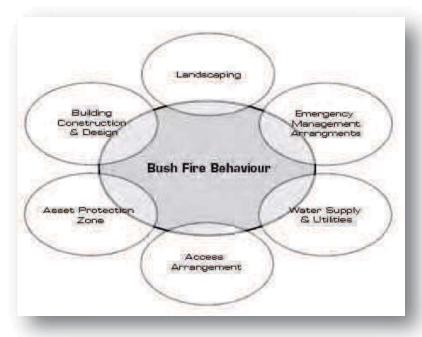


Figure 14. Bushfire Planning Measures in Combination (Source: NSW RFS, 2006)

Figure 14, taken from *Planning for Bushfire Protection* (NSW Rural Fire Service, 2006) illustrates that there are other factors and measures which need to be integrated to mutually support one another to provide protection against bushfire.

Simply removing the hazard (bushland) is one possible way of removing risk to life and property, but this approach is hardly desirable. The safety of life and property can be achieved whilst retaining the natural amenity and value of bushland areas, provided these integrated bushfire protection measures are applied.

7.1 Building Construction and Design

LCC bushfire overlay code permits development design that results in construction up to and including BAL 29 for future dwellings. With a minimum separation of 8m between future dwellings and retained vegetation being classified in Areas 1, 4 and 5, BAL 29 is shown to be viable. With a minimum separation of 12m between future dwellings and vegetation being classified in Areas 1, 4 and 5, BAL 19 is shown to be viable. With a minimum separation of 17m between future dwellings and vegetation being classified in Areas 1, 4 and 5, BAL 12.5 is shown to be viable. (Refer to the BAL contours in Figures 15 and 16).

With a minimum separation of 23m between future dwellings and vegetation being classified in Areas 2 and 3, BAL 12.5 is shown to be viable. The roadway and District Recreation Park to the north provides such setback. Any other structure built within 6m of each residence shall be constructed in accordance with this Standard.

Fences constructed immediately adjacent to designated hazardous vegetation (Lots 836 and 1256) should be non combustible.

Throughout the Staged development, the balance of Lot will be retained in a low hazard state by slashing.

Figures 15 and 16 shows the "reach" of the various BAL ratings under AS3959-2009. BAL contours have been transferred to Plan of Development (POD) Plans attached in Appendix 1. BAL ratings for individual Lots should be reviewed post-construction as earthworks/pad levels may have implications for BAL ratings.



Figure 15. BAL contours and 8m Building Exclusion Zone for Lot 836

Note the BAL 40 contour sits along the western boundary of Lot 836, ensuring that BAL 29 construction will not be exceeded.



Figure 16. BAL contours and 8m Building Exclusion Zone for Lot 1256

The building envelope on Lot 1256 ensures that BAL 29 construction is not exceeded.

7.2 Asset Protection Zones and Landscaping

Asset protection zones are the most strategically valuable defence against radiant heat and flame, and to a lesser extent embers.

The landscaping plan shall maintain an "Inner Protection Area" (IPA) for the entire unbuilt area of all Lots effectively free of available fuel.

- Plants retained in or introduced into the IPA should be selected based on low combustibility, by virtue
 of high moisture content, low volatile oil content, high leaf mineral levels, large fleshy leaves, absence
 of shedding bark.
- Plant arrangement is just as important as low combustibility. Plants should be placed so as to minimize either vertical or horizontal connectedness of plant material. Appendix 1 provides examples of less hazardous native plant species.
- Combustible vegetation shall not be allowed to come into contact with combustible parts of buildings.
- Trees should not be allowed to directly overhang roof lines.
- Regular yard maintenance should be undertaken to remove available fine fuels and debris, particularly throughout the fire season.

A minimum 9m separation shall be maintained between unmanaged vegetation to the west and east. This is best achieved by an establishing a "building exclusion zone" of 8m, applying to Lots 393 and 640, established as a Covenant on each Lot.

An Outer Protection Area involves removal of the understorey so as to deprive an advancing fire front of its fuel continuity, and thereby collapsing the fire front. In this case the APZ recommended for the new lots shall be constructed and maintained as IPA.

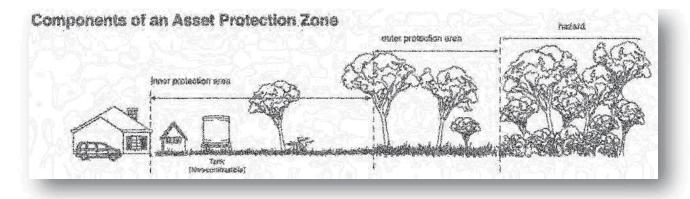


Figure 17. Components of an Asset Protection Zone (APZ)

The bio retention basin shall be managed in a low hazard state , with a predominantly mown surface, similar to Figure 18.



Figure 18. Bio retention basin managed in a low hazard state.

Throughout the Staged development, the balance of Lot will be retained in a low hazard state by slashing.

7.3 Access and Egress Management

The site is within approximately 10km by road of the nearest Queensland Fire and Emergency Services (Jimboomba Fire Station).

Two access/egress options exist, via Mountain Ridge Road to the north and via Roas Almond Street to the South, the latter being a particularly safe route. With future development to the west and east, further access/egress options become available, and at that point, the majority of the hazard present will have been removed.

The proposed internal road system provides for continuous traffic flow and for through roads. Ample turning opportunities are also available for large urban fire fighting appliances (a minimum inside radius of 6m and minimum outside radius of 12m).

Temporary turn-arounds at the termination of the roads shall be provided to ensure truck turnaround can be achieved for fire vehicles. These are shown on the Staging Plans attached as Appendix 2.

7.4 Water Supplies and Utilities

Water supply for the development will be connected to Council mains reticulated supply, with hydrants installed in accordance with AS2419.1-2005 and with volumes and pressure under the control of Council water utilities provider.

Compliance will be achieved against the acceptable outcomes specified under the QFES Fire Hydrant and Vehicle Access Guideline (2015) in particular marking of hydrant locations and providing adequate hydrant access.

Electricity supply to the site will be supplied underground.

Any reticulated or bottled gas shall be installed and maintained in accordance with AS1596 – 2002. Metal piping is to be used. Any fixed LPG tanks shall be kept clear of flammable materials, and located on the non hazard side of the building. Any gas cylinders which need to be kept close to a building shall have release valves directed away from the building. Polymer sheathed flexible gas supply lines to gas meters adjacent to buildings are not to be used.

7.5 Fire Fighting and Emergency Management Arrangements

The development is serviced by the proposed road and driveways for Emergency Services use. The maintenance of a mown or slashed grass surface of all Lots provides safe defendable space around key assets in the unlikely event of bush fire.

Obstructions to access onto individual Lots and the rear of buildings should be avoided.

Residents shall be made aware of the existence of this Plan, and their need to comply with the relevant provisions, in particular building construction, APZ maintenance, optimizing access around buildings and emergency response preparations.

Residents shall decide on their Stay and Defend / or Go Early strategy before each fire season so as to ensure this decision is not made too late, when smoke and emergency vehicles prevent an orderly evacuation. Staying to defend is a viable and preferable option for the proposed development.

Residents staying to defend should ensure that they have adequate protective clothing, including full length cotton or denim garments, sturdy boots, gloves, smoke mask (minimum P2 with valves) and smoke goggles.

Appendix 2 provides guidance for Residents' Emergency Management Planning in relation to bushfire.

8.0 Assessment of proposal against Logan City Plan 2015 (Part 8.2.3 Bushfire Hazard Overlay Code)

Performance Outcomes	Acceptable Outcomes
8.1 (PO1)	Acceptable Outcome AO1 is applied in that:
Development is designed to:	Development: (a) increases the number of persons living in,
(a) minimise risk of bushfire hazard;	or lots in, the Bushfire hazard area identified on Bushfire
(b) provide safe premises;	hazard overlay map– OM–03.00; however the risk posed by
(c) create efficient emergency access for	bushfire is mitigated by this Plan.
firefighting and other emergency vehicles.	
8.2 (PO2)	Acceptable Outcome AO2 is applied in that:
Development is sited and constructed to minimise the bushfire hazard and maximise the protection of life and property from bushfire	Development is located and constructed: (a) where there is no bushfire management plan approved by an existing development approval: (i) such that the bushfire attack level for future dwellings is less than or equal to BAL–29; (ii) (not possible to achieve) - away from the most likely direction of a fire front; (iii) so that generally elements of the development least susceptible to fire (perimeter roads and parklands) are sited closest to the bushfire hazard; (iv) such that asset protection zones are sited on land with a slope less than 18 degrees; (v) such that asset protection zones are entirely within the boundaries of the private property of the development site;
8.3 (PO3) Reconfiguring a lot ensures that lots are designed to minimise bushfire hazard and provide safe sites for people, property and buildings.	Acceptable Outcome AO3 is applied in that: Lots: (a) are suitable for people, property and buildings by: (i) having a bushfire attack level less than or equal to BAL—29; and (ii) containing a development envelope area that has a bushfire attack level less than or equal to BAL—29; (b) provide asset protection zones that: (i) are located on land with a slope less than 18 degrees; (ii) are located on the same lot.

8.4 (PO4) Vehicular Access and Fire Acceptable Outcome AO4 is applied to the extent that: **Maintenance Trails** Access for fire management and Access for fire management and evacuation is provided by evacuation is provided by access that: vehicular access in the form of ring roads (rather than (a) separates premises from adjoining perimeter roads, since the diminished area and nature of the hazard does not make a perimeter road vital); and vegetation; (b) is safely accessible by fire fighting (d) are constructed to otherwise comply with Section 3.4 – Movement infrastructure standards of PSP5 vehicles; (c) has regular vehicular access points for Infrastructure; and bushfire management, response and (e) layout does not include a cul de sac. evacuation; (d) has regular vehicle passing and turning areas for bushfire management, response and evacuation; (e) allows access at all times for fire fighting vehicles; (f) allows for maintenance, burning off and bushfire response; (g) has vehicular links to an alternative through road; (h) is readily maintained. 8.5 (PO5) Water Supply Acceptable Outcome AO5 is applied in that: Development has access to adequate water supply for fire fighting purposes. Development: (a) is connected to a reticulated water supply scheme that has sufficient flow and pressure characteristics for fire fighting purposes at all times with a minimum pressure and flow of 10 litres per second at 200kPa. 8.6 (PO6) Community Infrastructure Acceptable Outcome AO6 is applied to the extent that the Community infrastructure is not located in infrastructure involved does not involve vital core services a bushfire hazard area or is able to to the community. function effectively during and immediately after a bushfire event. 8.7 (PO7) Hazardous Materials Acceptable Outcome AO6 is applied to the extent that: Public safety and the environment are not The proposed Development does not involve the adversely affected by the adverse impacts manufacture or storage of hazardous materials in bulk. of bushfire on hazardous materials including fuels, explosives and flammable chemicals manufactured or stored in bulk on premises.

9.0 Assessment of proposal against State Planning Policy 2016

State Planning Policy – Natural hazards, risk and resilience (SPP, December 2013, latest version April 2016) replaces State Planning Policy 1/03 *Mitigating the Adverse Impacts of Flood, Bushfire and Landslide*. The SPP Guideline – Natural hazards, risk and resilience provides a methodology for determining Bushfire Hazard based on Potential Fireline Intensity. The

methodology and hazard mapping has been included in Section 3.1 of this Plan in establishing the adjacent area as potentially hazardous and as a bushfire prone area.

Part E of the SPP provides interim development assessment requirements to ensure that State interests are appropriately considered in relation to natural hazards, including bushfire hazard areas. These provisions serve as general guidelines to either avoid or otherwise adequately mitigate bushfire risk. Specific guidelines for bushfire hazard overlay codes are yet to be provided, and this detail is addressed by this Plan in terms of meeting the current requirements of Local Government in Section 8 above.

	erim Development Assessment quirements – SPP Part E	Solutions Provided
(3)	Development avoids natural hazard areas or where it is not possible to avoid the natural hazard area, development mitigates the risks to people and property to an acceptable or tolerable level, and	This Plan establishes the nature and potential severity of the adjacent hazard and provides a combination of bushfire protection measures to mitigate risk including park management, building construction, asset protection zones, access, water supplies and utilities, and emergency management arrangements.
(4)	Development supports, and does not unduly burden, disaster management response or recovery capacity and capabilities, and	The combined effect of the bushfire protection measures specified by this Plan serves to reduce risk to a low level and ensure resilience and preparedness for unplanned fire so that the response or recovery capacity and capability of emergency services is not unduly burdened or impeded. This Plan serves to protect life and property from bushfire without depending on emergency services for protection.
(5)	Development directly, indirectly and cumulatively avoids an increase in the severity of the natural hazard and the potential for damage on the site or to other properties, and	The development does not increase the nature of the existing hazard, and site layout and landscaping on the site is designed to moderate the exposure of buildings. The potential for damage to other properties is not increased as a consequence of the proposed development.
(6)	Risks to public safety and the environment from the location of hazardous materials and the release of these materials is avoided, and	Hazardous materials are not stored in quantities or locations on the site which would pose a risk to the public or the environment.
(7)	The natural processes and the protective function of landforms and the vegetation that can mitigate risks associated with the natural hazard are maintained or enhanced.	The development maintains the natural processes and protective function of vegetation that previously existed for the site.

10.0 Recommendations

1. That the master plan shall provide a separation between unmanaged vegetation hazard to the west and east and future dwellings on any Lot of a minimum of 8m, in association with BAL 29 construction under AS3959-2009.

This is achieved through provision of a building envelope for Lot 1256.

Preferably a separation of (minimum) 13m should be sought in association with BAL 19 construction, or a separation of (minimum) 19m in association with BAL 12.5 construction.

Lots 835 and 914 will be beside the biobasin, which will be managed in a low hazard state as shown in Figure 18.

Figures 15 and 16 shows the "reach" of the various BAL ratings under AS3959-2009. BAL contours have been transferred to Plan of Development (POD) Plans attached in Appendix 1. BAL ratings for individual Lots should be reviewed post-construction as earthworks/pad levels may have implications for BAL ratings.

Any other structure built within 6m of each residence shall be constructed in accordance with this Standard.

Builders should warrant that they have a copy of this Standard, and that it shall be used consistently throughout the design and construction of dwellings and other structures located within 6m of them.

- 2. The existing Asset Protection Zones available on each Lot and described in Section 7.2 of this report shall be maintained as IPA separating buildings from retained vegetation on adjacent Lots. Throughout the Staged development, the balance of Lot will be retained in a low hazard state by slashing.
- 3. Temporary turn-arounds at the termination of the roads shall be provided to ensure truck turnaround can be achieved for fire vehicles.
- 4. Reticulated water supplies shall be fully installed in accordance with AS2419.1-2005 and Council water utilities provider with sufficient flow and pressure characteristics for fire fighting purposes at all times (minimum 10litres a second at 200kPa). Compliance shall be achieved against the acceptable outcomes specified under the QFES Fire Hydrant and Vehicle Access Guideline (2015) in particular marking of hydrant locations and providing adequate hydrant access.
- 5. Lot buyers shall be made aware of the existence of this Plan and their responsibilities outlined within it, in particular construction, asset protection zone and emergency management.

11.0 Summary

The area of "hazard" faced by the proposed development is significant, and the likelihood of wildfire at some time is regarded as likely, warranting protection measures to be taken, as outlined in this Plan. This Plan demonstrates compliance with legislative requirements of State and Local Government, and the BCA.

Along with adequate water supply and emergency management arrangements, compliant construction under AS3959-2009 and APZs to reduce the exposure of life and property to bushfire, these combined measures assist prepare residents for the slim possibility of fire in the area.

12.0 References

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Plan of Development - Plans showing BAL Contours

Refer to Plan of Development (Stages 4-14) 9282 P 02 Rev R- POD dated 26 July 2022

Staging Plans - showing temporary turnarounds



Refer to Staging Plans 9282 P 02 Rev R- STG dated 26 July 2022

Less combustible native plants list

Source: Bowden, J (1999)

Fire Retardant Native Plants

Forn: S = Shrub; T = Tree; V = Vine; H = Herb; Ge = Ground cover; eO = epyphytic Orchid; eF = epyphytic Fern; tF = terrestrial Fern. Fire-retardance: Lm = due to leaf water contents; St = due to salt content; St = succulent leaves

Sa = suitable for sheltered areas near house; Pf = suitable if protected from direct flames; De = Decidnour III Comments: Wb = suitable for windbreak/fire barrier, Ad = suitable as addition to windbreak/fire barrier but nut as main species; Us = suitable for understory of windbreak/fire barrier; Oa = suitable for open areas near house winter, in flower or in dry periods

(-) = may not occur naturally in Pine Rivers Valley but has not proved invasive.

Fire-Retardant Plants for Small Gardens

Scientific Name	Common Name	Form	Fire Retardance	Comments
GYMNOSPERMS				
Zamaceae Lepidozamia peroffskyana	Shining Burrawang	S	Е	Us Sa
Macrozamia Incida	Pineapple Zamia	S	Lm	Us Sa
Macrozamia mianelii	Wild Pineapple	S	Lm	Us Oa Sa
Agavaceae				
Cordyline petiolaris	Broad-leaf Palm Lily	S	Em	Us Sa
Cordyline rubra	Red-fruit Palm Lily	S	Lm	Us. Sa
Cordyline strica	Slender Palm Lily	S	Lm	Us Sa
MONOCOTYLEDONS				
Amaryllidaceae	Discout (Its	ū		5 %
ruum peannenanum	NIVEL LIIN		IC III'I	De De Se
Doryanthes palmeri (-)	SpearLily	H	Im SI	Us Oa Sa
Proiphys cunninghamii	Brisbane Lily	ш	Lm St	Us Sa
Araceae				
Alocasia brisbanensis	Cunjevoi	=	<u>m</u>	Us Sa
Gymnostachys anceps	Settlers Flax	H	Im	Us Sa
Pothos longipes	Pothos	>	Щ	Us Sa
Typhonium brownii	Stinking Lily	H	Em	Us Sa
Arecaceae				
Linospadix monostachya	Walking Stick Palm	Ь	Im	Us Sa

	Aneilema Aneilema Scurvy Plant Snake Weed Large Snake Weed	H Gc	Į.	6
	Ancilema Ancilema Scurvy Plant Snake Weed Ange Snake Weed	H Gc	Line	THE PAST
	Ancilema Scurvy Plant Snake Weed arrge Snake Weed			100
	Scury Plant Snake Weed arge Snake Weed			Os Sa
	snake Weed arge Snake Weed	5 :	5	Us Sa
	arge Snake Weed	3	ij	Us Op Sa
	arge Snake Weed	H Cc	Lm	Us Sa
in introgerations	No.	н Се	Em	Us Sa
	T. A. Service			
	Namye Yam	Λ	Im	Us Sa
April 1	Dollary P. B.	;	Towns of the same	
	dibine Lify	I,	Lm SI	Oa
	Istue Flax Laly	I	Ē	Us Oa Sa
	Blue Flax Lily	Ξ	3	Us Oa Sa
	FlaxLily	Ξ		The Oa Co.
	Orange Berry	1		Us Ca Sa
I ripiddenia cunninghamii B	BushLily	Ξ	Im	
Correction of the Party of the	SECTION ASSESSED TO			
gracificante	Spotted Orchid	Q	Im	Sa
X gracillimum	Natural Hybrid	8	Im	Sa
Dendrobum monophyllum Li	Lily of the Valley			
CATALOG MANAGEMENT	Orchid	S	Im	Sa
schoenman				9220
100000000000000000000000000000000000000	Pencil Orchid	9	旦	Sa
speciosum	King Orchid	8	9	S
teretifolium	Bridal Veil Orchid	9	- Em	eS.
Dendrohum tetragonum Sp	Spider Orchid	8	4	Sa
Fustrephus latifolius Wa	Wombat Berry	>		
um	Scrambling Lily	. >		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Philydraceae				
nas carristan	riogsmouth	H	Lm SI	Oa Wet areas
Smilacaceae Smilax glycophylla Sw	Sweet Sarsparilla	٨	Du	Us Sa
Xanthorrhoeaceae				
folia	Mai Rush		Low	ć
Lomandra hystrix Cre	Creek Mat Rush	Ξ		3 :
lia	Lono leaf Mat Pach			US Sa
fillformis	Fine leaf Mar Rush	Ξ:	<u> </u>	Us Oa Sa
	Many-flower Mat		m m	Oa
NAME OF THE OWNER,	th	= T	Line	3
Lomandra spicata	tain Mar Duch			Ca
			[m	Us Oa Sa
ma		н	Em	He Sa
Alpinia coerulea	-	=	Im	172 62

Scientific Name	Common Name	Form	Fire Retardance	Comments	
DICOTYLEDONS					
Aizoaceae Carpobrotus glaucescens	Pig Face	H Gc	LmSI	ő	
Acanthaceae					
Grantophyllum exintaerum (-)	Scarlet Fuchsia Samford Holly	n v	5.5	Us Sa	
Pseuderanthemum tenellum	Pseuderanthemum	н	1.5		
Pseuderanthemum variabile		Ξ	Em		
Apiaceae					
Centella australis	Реппумон	H Gc	Im	Oa	
Hydrocotyle acutiloba	Pennywort	H Gc	Im	Us Sa	
Hydrocotyle pedicellosa	Pennywort	H Ge	Щ	Us Sa	
Apocynaceae					
Alyxia ruscifolia	Chain fruit	S	Щ	Us Sa	
Carissa ovata	Current Bush	S	Lm.	Us Oa Sa	
Neisosperma poweri (-)	Milkbush	S	<u></u>	Us Sa	
	Southern Ochrosia	S	Lm.	Us Sa	
Parsonsia tenticellata	Narrow-leaf Silkpod	> ;	Lm	Us Sa	
Parsonsia lilacina Tabernaemontana	Delicate Silkpod	>	EM.	Us Sa	
pandacaqui	Banana Bush	S	[III]	Us Sa	
Aristolochiaceae					
Aristolochia sp. aff. pubera		>	Lm	Us Sa	
Aristolochia praevenosa					
	Vine	>	5	Us Sa	
Asclepiadaceae					
Hoya australis	Wax Flower	>	Щ	Us Sa	
Marsdenia longiloba	Slender Milk Vine	>	Ę	Us Sa	
Secamone elliptica	Corky Milk Vine	٨	<u>E</u>		
Tylophora paniculata	Thin-leaf Tylophora	>	<u>F</u>	Us Sa	
Bignoniaceae					
Pandorea floribunda	New sp. Pine R	>	Im	Us Oa Sa	
Pandorea jasminoides	Bower of Beauty	>	EM.	Us Oa Sa	
Caesalpineaceae					
Cassia artemisioides (-)	Silver Cassia	S		E C	
Campanulaceae					
Lobelia trigonocaulis	Forest Lobelia	H Gc	Fin	Us Oa	
Wahlenbergia gracifis	Bluebells	Н		o o	
Capparaceae					
Capparus arborea	Native Caper	S/T	4	Us Sa	
Capparis sarmentosa	Scrambling Caper	>	Щ	Us Sa	

Scientific Name	Common Name	Form	Fire Retardance	Comments
Colastracoso				
Caveine australie	Day Olive Down	110	q.	
Design dustration	Ked Olive Berry	1/0	5.	Us Sa
	Orange Boxwood	S/T	Lm	Us Sa
Denhamia pittosporoides	Orange Boxwood	T/S	Im	Us Sa
Maytenus bilocularis	Orangebark	S/T	Lm.	Us Sa
Chenopodiaceae				
Einadia hastata	Berry Salt Bush	S	ŭ	ć
Enchylaena tomentosa	Ruby Salt Bush	S Ge	13.13	් රි
Halosarcia indica	Samphire	SG	81.81	On Saltar coil
	Samphire	000	5 5	On South sou
Suaeda australis	Seablite	3 5	5 5	On Salty soil
Suaeda arbusculoides	Jellybean Plant	S Ge	St St	Oa Salty soil
Convolulaceae				
Convolutus erubescens	Australian Bindweed	^	Im	O
Dichondra repens	Kidney Weed	H Gc	Lm	Us Sa
Polymeria calycina	Swamp Bindweed	>	Em	O
Cunoniaceae				
Aphanopetalum resinosum	Gum Vine	V Gc	E	Us Sa
Vesselowskya rubifolia (-)	Southern Marara	S/T	Im	
Davidsoniaceae				
Davidsonia pruriens (-)	Davidson's Plum	F	Im	Tie Co
				100
Dilleniaceae				
	Rough Guinea Flower	S	H	Oa
	Toothed Guinea Flower	>	Im	Us Oa Sa
	Showy Guinea Flower	S	Lm	Oa
Hibberna obnisifolia	Hoary Guinea Flower	S	Im	Oa
Hiberita sincha	Erect Guinea Flower	S	E	Oa
пиростна манаеня	Iwming Guinea Hower	>	Im	Us Oa Sa
Elaeocarpaceae Elaeocarpus reticulatus	Blueberry Ash	S/T	Щ	Us Oa Sa
Enscridences				
Prochocarpa laurina	Tree Heath	S/T	Lm	Us Sa
Escalloniaceae				
Abrophyllum ornans	Native Hydrangea	S	Im	Us Sa
Polyosma cunninghamii	Featherwood	S/I	Cm	Us Sa
Euphorbiaceae		=	75	
Acalypha capilipes	Small-leaf Acalypha	S	Lm	Us Sa
Acalypha eremorum	Native Acalypha	S	Lm	Us Sa
Acalypha nemorum	Southern Acalypha	S	Im	Us Sa
Acrephila lindleyi	Actephila	S/T	Im	
Alchornea ilicifolia	Native Holly	S	Im	
Breynia oblongifolia	Native Coffee Bush	S	Lm	Us On Sa
Chiefrathae cumminghamis	Claictanthau	1/2		

Croton phlebaliodes Croton verreauxii Macaranga tanarius		LOIM	Fire Retardance	Comments
roton verreauxii Macaranga tanarius	Narrow-leaf Croton	S	Щ	Us Su
dacaranga tanarius	Native Cascarilla	T/S	Im	Dis Si
The same of the sa	Macaranga	5	Ē	Tie
Mallotus claorylaides	Serub Odour Bush	72		- S - S - S - S - S - S - S - S - S - S
Omalanthus nutans				
(O. populifolius)	Old Bleeding Heart	S/T	Im	Us Sa
Eupomafiaceae				
Eupomatia bennettii	Small Bolwarra	S	E	Us Sa
Eupomatia laurina	Војманта	S	E.	Us Sa
Escaloneaceae				
Cuttsia viburnea (-)	Native Elderberry	T	Lm	Us Sa
Fabaceae				
Abrus precatorius	Crabs Eye Vine	>	Lm	Us Oa Sa
Aotus lanigera	Pointed Aotis	S	Lm	Oa Sa
Glycine clandestina	Twining Glycine	>	Em	o
Glycine tomentella	Wooly Glycine	>	Im	ő
Hardenbergia violacea	False Sarsparilla	>	Im	õ
Hovea linearis	Common Hovea	S	E	ő
Hovea longipes (-)	Brush Hovea	S	Im	Sa
Indigophora australis	Australian Indigo	S	Im	ő
Kennedia rubicunda	Dusky Coral Pea	>	Im	Oa
Oxylobium ilicifolium (-)	Holly Pea	S	Lm	ő
Oxylobium scandens (-)	Netted Shaggy Pen	S	T,	ő
Pultenaea retusa	Blunt-leaf Bush Pea	S	Lm	ő
Pultenaea spinulosa (-)	Prickly Pea	S	Lm	ő
Pultenaea villosa (-)	Hairy Bush Pea	S	Em.	ő
Swainsona galegifolia	Darling Pea	S	5	ő
Goodeniaceae		100000000000000000000000000000000000000	3	ä
Goodema rotundifolia	Star Goodenta	3 E	5 5	5 6
cacerona acmana (c)	Fan Flores			3 6
Scaevola amada (5)	Country East Floring	2		3 8
	A Fan Flower	E E	15	5 6
Lamiaceae				
Ajuga australis	Southern Bugle	Н	Im	ő
(-)	Silver Native Coleus	Н	Im	Us Sa
	Native Coleus	H	Im	
parviflorus	Cockspur Flower	Ŧ	E .	
ovalifolia	Oval-leaf Mint Bush	S	Lm	
- Tantonean				
	Town I may	CAT	-	The Co
Cryptocarya naevigala	Thick boot and	1/0	5 4	US SA
	THEN-TEST LAMES	1/0		es so
Leeaceae	Dendisons Dame	o	-	II. Ca

Scientific Name	Common Name	Form	Fire Retardance	Comments
Lythraceae Lagerstroemia archeriana (-) Native Crepe Myrtle) Native Crepe Myrtle	S/T	Lm.	Us Oa Sa De
Malvaceae Pavonia hastata(-) Hibiscus heterophyllus Hibiscus geranioides (-)	Pavonia Native Roselia	s s s	Im Im	Oa Sa Us Sa
Melastomaceae Melastoma affine	Pink Lasiandra	s	El	Us Sa Oa
Meliaceae Turraea pubescens (brownii)Native Witch-Hazel	ii) Native Witch-Hazel	S/T	III.	Us Sa
Menispermaceae Pleogyne australis	Pleogyne	>	Lm	Us Sa
		1		
Acacia comptanata Acacia hubbardiana	Flat-stem Wattle Yellow Prickly Moses	n on		Oa Pr
Acacia irrorata	Blue Skin	S		Oa Pr
Acacia myrtifolia Aracia sumpodone	Myrtle Wattle	00 0		Oa Pf
Acacia ulicifolia	Prickly Moses	o so		Oa Pf
Archidendron lovelliae (-)	Baconwood	S/T	Im	Us Sa
Monimiaceae				
Wilkiea huegeliana	Tetrn Beech	S/T	Im	Us Sa
Wilkiea macrophylla	Large-leaf Wilkiea	T/S	Lm	Us Sa
Myoporaceae Eremophila debilis	Winter Apple	S Gc	m.	ő
(M. ellipticum)	Boobialla	S Gc	Lm	Os
Myoporum montanum	Mountain Boobialla	S	Lm	Os
Myrsinaceae Aegiceras corniculatum	Milky Mangrove	I/S	Lm St	On Coastal
Rapanea howittiana	Scrub Muttonwood	T/S	F	Us Sa
Rapanea subsessilis	Red Muttonwood	T/S	Lm	Us Sa
Myrtaceae Archirhodomyrtus beckleri (-) Rose Myrtle	Rose Mynic	so !	Д.	
Austromythis fragramtissima (-)Sweet Myrtle	- Sweet Myrile	-	EII.	
	Scaly Myrtle	T/S	E.	
Austromyrtus mophioia	Thread-bark Myrile	L/S	E L	
Austromyrtus aff. tastocidada (-) Velvet Myrtie	-) velvet Myrtle	- o	5 1	
Pilidiostisma alahrum (-)	Plum Monto	טמ		US 20
Pilidiostigma rhytisperma	Small-leaf Plum Myrtle	200		
Rhodamnia acuminata (-)	Cooloola Ironwood	S	Em.	

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Scientific Name	Common Name	Form	Fire Retardance	Comments	
	D. C	200	24		
Khodammta dumicola	Rib-truit Malletwood	1/8	5		
Rhodamnia maidenii (-)	Smooth Scrub Turpentine S	ne S	Im		
Rhodomyrtus psidioides	Native Guava	S	且	Us Sa	
Syzygium wilsoni (-)	Powder-puff Lilly Pilly	S	Im	Us Sa	
Nyctaginaceae		9		4	
Pisonia aculeata	Native Bougainvillia	>	ш	Us Sa	
Oleaceae					
Jasminum simplicifolium	Slender Jasmine	^	F	Us Sa	
Notelaea ovata	Netted Mock Olive	S	Ę	Us Sa	
Notelaea venosa	Veined Mock Olive	S	Ш	Us Sa	
Passifloraceae					
Passiflora aurantia	Red Passion Flower	>	5	Us Oa Sa	
Passiflora herbertiana	Yellow Passion Flower	>	Lm	Us Oa Sa	
Peperomiaceae					
Peperomia blanda	ALCOHOLOGICAL CONTRACTOR OF THE CONTRACTOR	,		COMPANY OF THE PARTY OF THE PAR	
(leptostachya)	Native Peperomia	1	Im	Us Sa	
Peperomia tetraphylla	Native Peperomia	Ξ.	E	Us Sa	
Pittosporaceae					
Citriobatus linearis	Black-fruit Thornbush	S	E I	Us Sa	
Citriobatus paucifloris	Orange Thornbush	S	T,	Us Sa	
Pittosporum revolutum	Brisbane Laurel	S	Lm	Us/Wb Sa/On	
Proteaceae					
Banksia oblongifolia	Dwarf Banksia	S		Oa Pf	
Banksia robur	Swamp Banksia	S		Oa Pf	
	Wallum Grevillea	S		Oa Pr	
Grevillea 'Robyn Gordon'	G. 'Robyn Gordon'	S		Oa Pf	
	Pink Spider Flower	S		Qa M	
	G. Shirley Howie	S		Oa P	
Grevillea Superb'	G. 'Superb'	S)		Oa Pr	
Hakea Horulenta	Hakea	0		Sa Sa	
Hakea purpurea	Purple Hakea	S		Oa Pi	
Lambertia formosa (-)	Mountain Devil	S)		2 1	
Lomana sulatjona Stenocarpus angusifolia (-)	Crinkle Bush	n so		2 2 2	
Rhizonhorsona					
Brueuiera evmnorrhiza	Orange Mangrove	LVS	Lm St	Oa Coustal	
Ceriops tagal	Yellow Mangrove	S/T	Lm St	Oa Coastal	
Rhizophora stylosa	Stilled Mangrove	S/T	Lm St	Oa Coastal	
Rosaceae					
Rubus parvifolia	Pink Raspberry	S	F	S O	
Rubus rosifolius	Native Raspberry	S	П	Us Sa	
		H		0	
	Coast Canthium	L'S	5 1	Us Oa Sa	
сантит татргорпушит	Large-lear Canmium	1/6	H	Us Sa	

APPENDICES

ocientific Name	Common Name	THE PARTY OF THE P	rire netargance	
Canthium microphyllum	Small-leaf Canthium	S	Im	Ils Sa
Lxora bleckleri	Brown Coffeewood	S/T		
Morinda acutifolia	Veiny Morinda	· ·	<u> </u>	
Morinda jasminoides	Sweet Morinda	>	Im	Ile Su
Pavetta australiensis	Pavetta	S	Lm	
Psychotria daphnoides	Smooth Psychotria	S	H	
Psychotria loniceroides	Hairy Psychotria	S	Lm	Us Sa
Psychotria simmondsiana	Small Psychotria	S	Lm	Us Sa
Kandia benthamiana	Native Gardenia	S	Im	Us Sa
Randia chartacea	Narrow-leaf Gardenia	S	5	Us Sa
Rutaceae				
Clausena brevistyla (-)		S	TH.	Us. Sa
Microcitrus australasica (-)		S	5	Us Sa
Murraya ovatifoliolata (-)	Native Murraya	S/T	5	Us Sa
г перащит моотруе (-)	Phebalium	S	Lm	co
Sambucaceae				
Sambucus australasica	Yellow Elderberry	S	E E	Us Sa
Sapindaceae	-		18	2
American from Connectino (-)	Deach Bird & Eye	2/1	5	Wb Oa
Arytera microphydia (-)	Dwarf Coogara	S	Im	Us Sa
	Long-leaf Tuckeroo	H	Im	Us Sa Oa
	Rusty Tuckeroo	SA	Lm	Us Sa Oa
vorthu	(-) Dwarf Tuckeroo	S	Ę	Us Sa
Harputha alata (-)	Wing-leaf Tulip	S	Im	Us Sa
Mischocarpus sundaicus	Red Pear-fruit	H	m m	Us Sa
Sapotaceae Planchonella myrsinoides	Yellow Plumwood	T/S	4	Us Sa
Scrophulariaceae				
Artenema finibriatum	Koala bells	#	Lm	o o
Tetragoniaceae	Martina Common	5 1	6	4
Solanaceae	namido acuma	3	20.10	5
Dubaisia myoporoides	Corkwood	S/T	Lm	Us Sa
Solamum aviculare	Kangaroo Apple	S		Us Sa On
Solamum densevestitum (-)	Furry Nightshade	S	Im	Us Sa
Solanum stelligerum (-)	Star Nightshade	S	Lm	
Sterculiaceae	Total Control of the	4		The state of the s
nachychion phartim	Little Nurrajong	n	III.	Us Sa Oa
Commersonia fraseru	Scrub Kurrajong	S	Ē	Us Sa Oa
Symplocaceae				
The same of the sa				

APPENDICES

Thymediaceae Stand Daplace D	Scientific Name	Common Name	Form	Fire Retardance	Comments
Te Bush ST Im Us Te Bush S Im Us To Small Soft Nettle H Im Us Native Mulberry ST Im Us A sheerward Cache Soft Water Vine V Im Us Sheder Grape S Im Us Shearer Sine V Im Us Shearer Shearer Sine V Im Us Shearer	ymeliaceae				
Serub Daphne S.T. Lm Obaphne S.T. Ebush S. Lm Us Te Bush S. Lm Us Te Bush S. Lm Us Waintenest Spinach H Lm Us Native Mulberry S.T. Lm Us Native Mulberry S.T. Lm Us Condamine Couch H G. Lm Us Native Violet H Lm Us Native Violet H Lm Us Soft Water Vine S.G. Lm Us Soft Water Vine V Lm Us Soft Water Vine H Lm Us Soft Water Vine H Lm Us Soft Water Vine H Lm Us Soft Water Vine Soft Lm Sa Man Crow's Nest Fem EF Lm Sa Ring Fem UF Lm Sa Basket Fem EF Lm Sa Sagbom Felt Fem EF Lm Sa Singbom EF Lm Sa Singbom EF Lm Sa	aleria clerodendron (-)	The State of the S	S	5	Us Sa
Tie Bush S Inn Us Tie Bush S Inn Us (-) Small Soft Nettle H Inn Us (-) Small Soft Soft Inn Us (-) Small Soft Water Vine W Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine W Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine Water Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us (-) Small Soft Water Vine Water Vine H Inn Us (-) Small Soft Water Vine H Inn Us	aleria chermsideana	Scrub Daphne	T/S	Lm	Us Sa
Trie Bush S Im Us Trie Bush S Im Us Rainforest Spinach H Im Us Native Mulberry S/T Im Us dam Lolly Bush S/T Im Us osum Hairy Lolly Bush S/T Im Us Vendamine Couch H Gc Im Us Vacx Native Violet H Im Us Sender Grape V Im Us Sender Grape Soft Water Vine F Im Sa Ring Fem tF Im Sa Basket Fem eF Im Sa Sugition Felt Fem Sa Sugition Felt Fem Sa Sugition Felt Fem Sa	melea timfotia	Slender Rice Flower	S		ő
(-) Small Soft Nettle H Lm Small Soft Nettle H Lm Native Mulberry S/T Lm soum Lolly Bush S/T Lm soum Hairy Lolly Bush S/T Lm Condamine Couch H Gc Lm Vaex SGc Lm Native Violet H Lm Native Violet H Lm Native Violet H Lm Native Violet H Lm Sender Grape V Lm Small-leaf Water Vine V Lm Small-leaf Water Vine V Lm Rapper Bush S Lm Ring Fern GF Lm King Fern GF Lm Secuted Climbing Fern GF Lm Staghorn FF Lm Staghorn FF Lm Staghorn FF Lm Felt Fern GF Lm	kstroemia indica	Tie Bush	S	Im	Us Oa Sa
Rainforest Spinach Small Soft Nettle Native Mulberry STT Im Stant Lolly Bush SST Im Stant Lolly Bush SST Im Soft Water Vine Soft Water V	iaceae	Complement	o		11. 6.
A Spieerwort Firm A Spieerwort A Spierwort A Spierwor	renorms cumumgnamur	Corcholus	0		08 39
(c) Small Soft Nettle H Lin Native Mulberry S/T Lin Native Mulberry S/T Lin Sumil Soft Nettle S/T Lin Sumil Lolly Bush S/T Lin Condamine Couch H Ge Lin Vitex Stender Grape V Lin Stender Grape V Lin Shall-leaf Water Vine V Lin Small-leaf Water Vine V Lin Small-leaf Water Vine F Lin King Fern F Lin King Fern F Lin Staghom F Lin Felt Fern F Lin Felt Felt Fern F Lin Felt Fern F Lin Felt Felt Felt Felt Felt Felt Felt Felt	ticaceae			and the state of t	2
Condamine Couch Native Mulberry Native Mulberry Native Mulberry Native Mulberry Syft Lin Soundamine Couch Native Violet Hairy Water Vine Soft Water Vine Native Wolet Hairy Water Vine Soft Water Vine Soft Water Vine Native Wolet Hairy Water Vine Soft Water Vine Soft Water Vine Native Wolet Hairy Water Vine Soft Water Vine Soft Water Vine Native Wolet Hairy Water Vine Soft Water Vine F Im Felpen F Im Singhom F Im Felt Fen File Im Felt Fen File Im F	dostema reticulatum	Rainforest Spinach	I	Ш	Us Sa
Native Mulberry S/T Im soum Lolly Bush S/T Im osum Harry-Lolly Bush S/T Im ocondamine Couch H Ge Im Vitex SGc Im Native Violet H Im Sender Cirape V Im Soft Water Vine V Im Soft Water Vine V Im Soft Water Vine V Im Shall-leaf Water Vine V Im Shall-leaf Water Vine V Im Ring Fem GF Im King Fem GF Im Scented Climbing Fem GF Im Staghom FF Im Staghom GF Im Staghom FF IIm Staghom FF III Staghom FF III Staghom FF III Staghom FF IIII Staghom FF IIIII Staghom FF IIII Staghom FF IIIIII Staghom FF IIII Staghom FF IIIII Staghom FF IIII Staghom FF IIIII Staghom FF IIIIIIIII Staghom FF IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	itostema stipitatum (-)	Small Soft Nettle	Н	Lm	Us Sa
tar Velvet-leaf S/T Im losum Lolly Bush S/T Im Condamine Couch S/T Im Viex S/T Im Viex S/T Im Soft Water Violet H Im Native Violet H Im Native Violet H Im Native Violet H Im Native Violet H Im Siender Grape V Im Native Violet H Im Native Violet H Im Native Violet H Im Siender Grape V Im Siender G	nturus argenteus	Native Mulberry	S/T	Lm	Us Sa
A Spleenwort of F Im Ring Fem King King Fem King King Fem King King King King King King King King	benaceae				
A Spleenwort A Spleenwort King Fem King Fem Cosum Lolly Bush Soft Water Violet Basket Fem Schwes Climbing Fem King Fem Staghom Lossum Loss	Hicarpa pedunculata	Velvet-leaf	S	TJ.	Us Sa
Purple Violet H Ge Im Vitex Condamine Couch H Ge Im Vitex Soft Water Vine N Im Sinder Grape V Im Sindl-leaf Water Vine V Im Small-leaf Water Vine V Im Small-leaf Water Vine F Im Ring Fem FF Im King Fem FF Im Scented Climbing Fem FF Im Scented Climbing Fem FF Im Staghom FF Im Felt Fem FF Im Staghom FF Im	rodendrum floribundum	Lolly Bush	S/T	Em	Us Oa Sa
Condamine Couch Vitex Vitex Purple Violet Hairy Water Vine Soft Water Vine	rodendrum tomentosum	Hairy Lolly Bush	S/T	Fm	Us Oa Sa
Purple Violet H Im Native Violet H Im Native Violet H Im Siender Grape V Im Siender Grape V Im Small-leaf Water Vine V Im Small-leaf Water Vine V Im Pepper Bush S Im Ring Fern eF Im King Fern eF Im Seented Climbing Fern eF Im Staghorn eF Im Staghorn eF Im Felt Fern eF Im Felt Fern eF Im Staghorn eF Im Staghorn eF Im	vla nodiflora (-)	Condamine Couch	H Gc	Lm	Oa
Purple Violet H Im Native Violet H Im Native Violet H Im Slender Grape V Im Sheder Grape V Im Soft Water Vine V Im Small-leaf Water Vine V Im Small-leaf Water Vine V Im A Spleenwort F Im King Fern FF Im King Fern FF Im Scented Climbing Fern FF Im Scented Climbing Fern FF Im Staghorn FF Im Felt Fern FF Im Felt Fern FF Im	ex ovata (-)	Vilex	S Gc	Im	O
Purple Violet H Im Native Violet H Im Native Violet H Im Soft Water Vine V Im Small-leaf Water Vine V Im Small-leaf Water Vine V Im Pepper Bush S Im Ring Fem eF Im King Fem eF Im Scented Climbing Fem eF Im Staghom eF Im Staghom eF Im Film	placeae				
Native Violet Hairy Water Vine Soft Water Vine Soft Water Vine Small-leaf Water Vine Small-leaf Water Vine Small-leaf Water Vine Small-leaf Water Vine Now's Nest Fern A Spleenwort F Im King Fern King Fern F Im Scented Climbing Fern F Im Staghorn F Im Felt Fern F Im Felt Fern F Im Falt Fern F Im	da betonicifolia	Purple Violet	H	Em	Us. Sa
Hairy Water Vine V Im Slender Grape V Im Soft Water Vine V Im Small-leaf Water Vine V Im Pepper Bush S Im A Spleenwort F Im King Fem GF Im Scented Climbing Fem GF Im Scented Climbing Fem GF Im Staghorm GF Im Felt Fem GF Im Staghorm GF Im Felt Fem GF Im	da hederacea	Native Violet	н	互	Us Sa
Hairy Water Vine V Im Slender Grape V Im Soft Water Vine V Im Small-leaf Water Vine V Im Small-leaf Water Vine V Im A Spleenwort F Im King Fern eF Im King Fern eF Im Scented Climbing Fern tF Im Scented Climbing Fern tF Im Felt Fern eF Im Felt Fern eF Im Felt Fern eF Im Staghorn eF Im Felt Fern eF Im Staghorn eF Im	aceae				
Signification of the Soft Water Vine Soft Water Vine V Im Small-leaf Water Vine V Im Pepper Bush S Im A Spiecnwort F Im Crow's Nest Fern eF Im King Fern eF Im Scented Climbing Fern tF Im Scented Climbing Fern tF Im Staghorn eF Im Felt Fern eF Im Felt Fern eF Im Felt Fern eF Im	sratia acris	Hairy Water Vine	>	Im	Us Sa
Soft Water Vine Small-leaf Water Vine Small-leaf Water Vine Pepper Bush A Spiecnwort F Im King Fern King Fern Basket Fern Basket Fern F Im Scented Climbing Fern F Im Scented Climbing Fern F Im Film Felt Fern F Im Felt Fern Felt	aratia clematidea	Slender Grape	>	Lm	Us Oa Sa
Small-leaf Water Vine V Lm Pepper Bush S Lm A Spiecnwort F Lm King Fern eF Lm King Fern tF Lm Scented Climbing Fern tF Lm Staghorn eF Lm Staghorn eF Lm Film Felt Fern eF Lm Staghorn eF Lm Staghorn eF Lm Film Elkhom eF Lm	sratia eurynema	Soft Water Vine	>	E	
Pepper Bush S Im A Spleenwort F Im Crow's Nest Fern eF Im King Fern tF Im Basket Fern eF Im Seented Climbing Fern tF Im Staghorn eF Im Staghorn eF Im Felt Fern eF Im Felt Fern eF Im	sus opaca	Small-leaf Water Vine	>	L L	Us Oa Sa
A Spleenwort F Lm Crow's Nest Fern eF Lm King Fern tF Lm Basket Fern eF Lm Scented Climbing Fern tF Lm Staghorn eF Lm Staghorn eF Lm Felt Fern eF Lm	nteraceae mannia insipida	Pepper Bush	S	Щ	Us Sa
A Spleenwort F Lm Crow's Nest Fern eF Lm King Fern tF Lm Basket Fern eF Lm Scented Climbing Fern tF Lm Staghorn eF Lm Staghorn eF Lm Felt Fern eF Lm	ERIDOPHYTES				
A Spleenwort F Im Crow's Nest Fern eF Im King Fern tF Im Basket Fern eF Im Scented Climbing Fern tF Im Staghorn eF Im Staghorn eF Im Felt Fern eF Im	oleniaceae				
King Fern eF Im King Fern tF Im Basket Fern eF Im Scented Climbing Fern tF Im Staghorn eF Im Staghorn eF Im Felt Fern eF Im	denium attenuatum	A Spleenwort	11	Im	Sa
King Fern tF Im Basket Fern eF Im Scented Climbing Fern tF Im Staghorn eF Im Felt Fern eF Im	denium australasicum	Crow's Nest Fern	e.	III	Sa
King Fem tF Lm Basket Fem eF Lm Scented Climbing Fem tF Lm Staghom eF Lm Felt Fem eF Lm	mondaceae				
Basket Fern eF Im Seented Climbing Fern tF Im Staghom FF Im Felt Fern eF Im	lea barbara	King Fern	H	I,m	Us Sa
Scented Climbing Fem 14 Lim Staghom FF Lim Felt Fem 6F Lim	ypodiaceae	Packet Forn	i de		Çe
Staghom F Lm Staghom F Lm Felt Fern eF Lm	meetic regiment	Bashet Leili	1		200
7 Elkhom eF Lm Staghom F Lm Felt Fem eF Lm	matodes scandens	Scented Climbing Fern	±	5	N.
Staghom F Lm Felt Fem eF Lm	tycerium hifurcatum	Elkhorn	the state of	E.	Sa
Felt Fern eF Lm	tycerium superbum	Staghorn	1	Lm	Sa
	rosia confluens	Felt Fern	GF.	E	Sa

Fire-Retardant Plants for Medium Gardens

The following plants can be used in addition to the list of plants for small gardens.

Scientific Name	Common Name	Form	Fire Retardance	Comments	
MONOCOTYLEDONS					
Archantophoenix	D. A. C.	4	2	9	
Colonus muelleri	Lawver Cane Vine	1 0	H 2	PV	
Livistona australis	Cabbage Palm	. 4	2.5	γq	
9.666	Court of Court of the	2		t	
Smilas australis	Sman Supplegack Barb-wire Vine	>>	5.5	Sa Oa	
DICOTYLEDONS					
Akaniaceae Akania lucens	Turnipwood	L	4	H	
		6,		ì	
Alangiaceae Alangium villosum polyosmoides	Muskwood	H	Щ	Us	
Alangium villosum tomentosum	Muskwood	ь	Im	Us	
Annonaceae Polyalthia nitidissima	Canary Beech	H	III	C.S.	
Apocynaceae Alstonia constricta	Quinine Tree	H	Lm	Us	
Melodinus acutiflorus Melodinus australis	Merangarra Southern Melodinus	>>	E E	Sa	
Araliaceae Cephalaralia cephalobotrys Climbing Panax	Climbing Panax	>	S	Sa	
Bignoniaceae Pandorea pandorana	Wonga Vine	>	Ę	On Su	
Caesalpiniaceae Barkiya syringifolia Cassia tomentella (-)	Crown of Gold Tree Velvet Bean	T/S	2.2	Us. Sa Oa Us Oa	
Cunoniaceae Callicoma serratifolia (-)	White Alder	S/T	Щ	Š	
Dilleniaceae Tecomanthe hillii (-)	Fraser Island Climber	>	Щ	S	

Whalebone Tree

Streblus brunonianus (S. pendulinus)

Ficus opposita

Ficus coronata Ficus fraseri

Moraceae

Us/Wb Us/Wb Us/Wb

E E E

Creek Sandpaper Fig A Sandpaper Fig A Sandpaper Fig

Us/Wb

Scientific Name	Common Name	Form	Fire Retardance	Comments	
Ebenaceae					
Diospyros australis	Black Plum	T	里	Us/Wb	
Diospyros geminata	Scaly Ebony	۲	5	Us/Wb	
Diospyros mabacea (-)	Red-fruited Ebony	F	Im	Us	
Escalloniaceae					
Anopterus macleayanus (-)	Queensland Laurel	L	Lm	Us	
Polyalthia nitidissima	Canary Beech	-	Em	c's	
Euphorbiaceae					
Claoxylon australe	Brittlewood	S/T	F	ns	
Croton achronychioides	Thick-leaved Croton	S/T	F	Us	
Croton insularis	Queensland Cascarilla		<u>F</u>	°n	
Croton stigmatosus	White Croton		Ē	Us	
Fabaceae Erythrina vespertilio	Bat's Wing Coral Tree	F	Щ	Ad De	
D.					
Hernandia bivalvis	Cudgerie	T	Щ	Wb	
Lauraceae					
Cryptocarya bidwilli	Yellow Laurel	H	F	Wb	
Cryptocarya meisneriana	Thick-leaf Laurel	-	II.	Wb	
Cryptocarya sclerophylla	Boonah Laurel	Н	Im	Wb	
Cryptocarya triplinervis	Brown Laurel	H	Lm	Wb	
Cryptocarya triplinervis var.	A Committee of Committee of the Committe	1	- 17-70 V		
pubens	Hairy Brown Laurel	-	E	Wb	
Meliaceae					
Owenia venosa	Crow's Apple	H	Ę	Us/Wb	
Synoum glandulosum	Scentless Rosewood	S/T	Lm	ns	
Turraea pubescens					
(T. brownii)	Native Witch-Hazel	H	E .	Cs	
Menispermaceae					
Stephania japonica var.					
discolor	Tape Vine	>	E	Sa Oa	
Mimosaceae					
Acacia audacocarpa	Hickory Wattle	1	Lm	Wb/Pf	
Acacia implexa	Light Wood	T	Lm	Wb/Pf	
Acacia melanoxylon	Blackwood	L	Im	Wb/Pf	
Acacia cincinnata	Wattle	S/T	Im	Wb/Pf	
Pararchidendron pruinosum Snowwood	Snowwood	H	Em	Us/Wb	

Lm Wb Oa	Im Us		Im IIs/Wh						Lm	Im Us/Wb	Lm Us/Wb		Lm Us Ad	Lm. Us/Wb								Im WB			IM US/Wb		Na Na		Lm Us/Wb	Lm (Is	Lin Us		Lm Wb Slowat	First	Lm Wb	
T/S	F		T	S/T	Н	Н	-		S/F	S/T	S/T		L			L	1		S/I			- 1-									S		T		-	
Coast Boobialla	Muttonwood		Creek Lilly Pilly	Silky Myrtle	(-)Pink Myrtle	Brown Malletwood	Smooth-bark Rose Apple		Veinless Mock Olive	Large Mock Olive	Velvet Mock Olive		Native Frangipani	Mock Orange		Ivory Curl Flower		Red Boppel Nut	Tree Lomatia	Queensland Nut	Maroochy Nut Pough Chall Buch Nut	Spice Bush		Coelospermum Golden Ask	CONCIL ASI	Headach Vin	readactic vine		Coast Aspen	Soft Acronychia	Round Lime		Alectryon		Wild Quince	The same of the same of the same of
Муорогассае Муорогит аситіпанит	Myrsinaceae Rapanea variabilis	Myrtaceae Acmena smithii	(small varieties)	Decaspermum humile	Metrosideros queenslandica (-)Pink Myrtlc	Rhodamnia rubescens	Syzygium hodgkinsonia (-)	Oleaceae		Notelaea Iongifolia	Notelaea microcarpa	Pittosporaceae	Hymenosporum flavum	r mosporam andalamn	Proteaceae	Buckinghamia celsissima (-) Ivory Curl Flower	Grewillea neimstae (-)	Hicksbeachia pinnarifolia (-) Red Boppel Nut	Lomana arborescens (-)	Macadamia Imegrifoud	Macadamia terraphylla	Triunia youngiana	Rubiaceae	Hodobinsonia guariflama Coetospermum	nathra nuosus saar	Rununculaceae	Sylvinoides	Rutaceae	Acronychia imperforata	Acronychia pauciflora	Microcitrus australis	Sapindaceae	Alectryon connatus	THE RESERVE TO SERVE THE PARTY OF THE PARTY	Alectryon subcinereus	The state of the s

Comments

Fire Retardance

Form

Common Name

Scientific Name

APPENDICES

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	\$	2	
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Scientific Name	Common Name	Form	Fire Retardance	Comments
Arytera divaricala	Rose Tamarind	ь	Lm	Wb
Arytera foveolata	Pitted Coogera	H	Lm	Wb
Cupaniopsis parvifolia	Small-leaf Tuckeroo	H	Lm	Wb
Cupaniopsis shirleyana (-)	Wedge-feaf Tuckeroo	۲	Lm	Us/Wb
Cupaniopsis tomentella (-)	Boonah Tuckeroo	H	Em.	Wb
Elattostachys nervosa	Beetroot	H	Lm	Us/Wb
Elattostachys xylocarpa	White Tamarind	H	E	Wb
Guioa semiglanca	Wild Quince	T	Lm	Wb
Lepiderema pulchella (-)	Fine-leaf Tuckeroo	H	Lm	Wb
Mischocarpus australis	Red Pear-fruit	H	Lm	Wb
Toechima tenax	Scrub Teak	H	Lm	Wb
Sapotaceae	1	E G		
Flanchonella Characea	Imm-leal Plum	1/0	TI	OS SH
Planchonella cotinifolia	Small-leaf Phun	S/T	Im	Us Sa
Simaroubaceae				
Guilfoylia monostylis	Native Plum	L	Lm	Us
Symplocaceae				
Symplocus Ilivaitesii	Buff Hazelwood	S/T	Lm	ň
PTERIDOPHYTES				
Cyatheaceae	1	1		0.00
Cyathea australis	Kough Tree Fern	÷	3	Cs.
Cyathea cooperi	CommonTree Fern	4	Im	Us Us
Cvarhen feichbardriana	Prickly Tree Fern	1	Im	175

Fire-Retardant Plants for Large Gardens, Acreage Blocks, Parks and Farms

The following plants can be used in addition to the lists of plants for small and medium gardens.

Scientific Name	Common Name	Form	Fire Retardance Comments	Comments
GYMNOSPERMS				
Araucariaceae Agaihis robusta (-)	Qld Kauri	H	Щ	Pf - resin
Arancarta bidwillii (-)	Bunya Pine	1	Im	Pf-resin
Arancaria cunninghamii	Hoop Pine	H	- Im	Pf - resin
Podocarpaceae Podocarpus elatus	Brown or Plum Pine	T	1	Pr. resin
MONOCOTYLEDONS				
Arecaceae (Palmae) Calanns muelleri	Lawyer Cane Vine	>	Щ	Sa Oa

Scientific Name	Common Name	Form	Fire Retardance	Comments	
Flagellariaceae Flagellaria indica	Supplejack	>	5	S	
Pandanaceae					
Freycinettia excelsa	Climbing Pandanus	>	Im	S	
Freycinetia scandens	Climbing Pandanus	^	Lm	. g	
Smilacaceae					
Ripogonum album	White Supplejack	>	III	Ş	
Ripogonum brevifolium	Supplejack	^	Im	F 2	
Ripogonum discolor	Prickly Supplejack	>	5	8	
Ripogonum elseyanum	Hairy Supplejack	>	Гш	Sa	
DICOTYLEDONS					
Anacardiaceae					
Euroschinus falcata		T	Ш	Wh	
Rhodosphaera rhodanthema	Deep Yellowwood	H	[m	Wb	
Annonaceae Melodorum leichhardtii					
(Rauwenhoffia L)	Zig-Zag Vine	>	Щ	Sa	
Apocynaceae					
Alstonia constricta	Quinine Tree	F	Lm	Wb	
Metodinus acutiflorus	Merangarra	>	Ę	Sa	
Metodinus australis	Southern Melodinus	>	Em	Sa	
Farsonsta eucalyptophylla	Gargaloo	>	Em	Sa Oa	
ransonsia fuwa	Furry Silkpod	>	5	Sa	
ratsonsia lanceolata	Northern Silkpod	>	H	Sa	
Paramia idiyond	Monkey Vine	> ;	Lm	Sa	
Parsonsia sudmined	Monkey Kope	> ;	g,	Sa Oa	
Parsonsia ventricosa	Pointed Silkpod	>>		Sa Oa	
Arecorese				I	
Calamus muelleri	LawverCane	>	Los	6.2	
Araliaceae	¥.5		1	PC .	
Cephalaralia cephalobotrys Climbing Panax	Climbing Panax	>	Lm	Sa	
Polyscias elegans	Celerywood	H	E	Wb/Ad Oa	
				Sa	
Appends mintage	Penell Cedar	H	T.	Ad On Sa	
Asclepiadaceae					
Marsdenia vostrata	Common Milk Vine	>	Щ	Sai	
Atherospermataceae Daphnandra micrantha	Socketwood	F	Ę	Wh	

APPENDICES

Grey Mangrove T Lm St O Satisficially Staff Climber V Lm S Saff Climber V Lm S Large Staff Vine V Lm S Large Staff Vine V Lm S Large Staff Vine V Lm S Saff Climber V Lm S Large Staff Vine V Lm S Saff Climber V Lm S Large Staff Vine V Lm S White Birch T Lm V Lm S a Rose-leaf Marata T Lm S a Rose-leaf Marata T Lm S Adamn (-) Coachwood T Lm V Lm S a Grey Ebony T Lm V Lm S Koda T Lm Lm V Lm Coachwood T Lm Lm S Saff Climber T Lm Coachwood T Lm Lm Serub Bloodwood T Lm Lm Serub Bloodwood T Lm Lm Leichhardt's Ironbark T Lm Lim Leichbardt's Ironbark T Lm Lim Leichbardt's Ironbark T Lm Lim Leichbards Leichbards Library Library	Scientific Name	Соттоп Nате	Form	Fire Ketaroance	
Carrotwood T Im Caesalpinia V Im Caesalpinia V Im Caesalpinia V Im Carsy Prickle Vine V Im Conky Prickle Vine V Im Conky Prickle Vine V Im Knot Vine V Im Rose-leaf Marara T Im Rose-leaf Marara T Im White Birch T Im White Birch T Im White Birch T Im White Birch T Im White Coardong T Im Koda T Im White Coardong T Im White Quandong T Im White Coardona T Im Serub Inonbark T Im Serub Inonbark T Im Serub Inonbark T Im Leichhardt's Ironbark T Im Leichhardt's Ironbark T Im Leichhardt's Ironbark T Im Carsy Possumwood T Im Serub Inonbark T Im Leichhardt's Ironbark T Im Leichhardt's Ironbark T Im Leichhardt's Ironbark T Im Leichhardt's Ironbark T Im Carsy Possumwood T Im Serub Inonbark T Im Leichhardt's Ironbark T Im Leichhardt's Ir	mia marina	Grey Mangrove	+	LmSt	Oa Coastal
Native Labornum T Im Caesalpinia V Im Caesalpinia V Im Caesalpinia V Im Corky Prickle Vine V Im Large Staff Vine V Im Knot Vine V Im Knot Vine V Im Rose-leaf Marara T Im White Birch T Im White Birch T Im White Ebony T Im Koda T Im Koda T Im Koda T Im White Quandong T Im Maiden's Blush T Im White Quandong T Im White Quandong T Im Maiden's Blush T Im Vellow Carabeen T Im Serub Ironbark T Im Carey Possumwood T Im Care	raceae ium australasicum	Carrotwood	1	Im	Wb
Caesalpinia V Lm Large Prickle Vine V Lm Staff Climber V Lm Large Staff Vine V Lm Knot Vine V Lm Knot Vine V Lm Knot Vine Staff Carabean T Lm Marara Marara Anarara Cordia T Lm White Birch T Lm White Birch Cordia T Lm Koda T Lm Koda T Lm Myrtle Ebony T Lm Koda T Lm White Quandong T Lm Scorib Ironbark T Lm Grey Possumwood T Lm Grey Possumwood T Lm Carabean T Lm Carabardi's Eronbark T Lm Leichhardi's Ironbark T Lm Leichhardi's Ironbark T Lm	Ipiniaceae	Native Labumum	H	[m]	Wb
Corky Prickle Vine V Im Staff Climber V Im Large Staff Vine V Im Knot Vine V Im Knot Vine V Im Knot Vine V Im Knot Vine V Im Rose-leaf Marara T Im Marara T Im Marara T Im White Birch T Im White Birch T Im White Bony T Im Koda T Im White Quandong T Im Scrub Bloodwood T Im Scrub Bloodwood T Im Scrub Ironbark T Im Leichhardt's Ironbark	Ipinia bonduc	Caesalpinia	>	Im	Sa
Staff Climber V Im Large Staff Vine V Im Knot Vine V Im Rose-leaf Marara T Im Red Carabeen T Im Marara T Im Myrite Birch Cordia T Im Koda T Im Roda T Im Roda T Im Rard Quandong T Im White Quandong T Im White Quandong T Im White Quandong T Im Rard Quandong T Im Naiden's Blush T Im Yellow Carabeen T Im Yellow Carabeen T Im Scrub Inonbark T Im Scrub Bloodwood T Im Scrub Bloodwood T Im Scrub Inonbark T Im	Ipinia scortechinii	Large Prickle Vine Corky Prickle Vine	>>	P.P.	R R
Staff Climber V Lm Knot Vine V Lm Knot Vine V Lm Rose-leaf Marara Red Carabeen T Lm Marara Marara Myrite Ebony T Lm Koda T Lm Koda T Lm Koda T Lm White Quandong T Lm Grey Possumwood T Lm Serub Isonbark T Lm Serub Bloodwood T Lm Serub Isonbark T Lm Lin Serub Bloodwood T Lm Serub Isonbark T Lm	drine successfore				
Knot Vine V Im Knot Vine V Im Rose-leaf Marara T Im Red Carabeen T Im Red Carabeen T Im Marara Marara Myrtle Ebony T Im Koda T Im Koda T Im White Quandong T Im Maiden's Blush T Im Yellow Carabeen T Im Grey Possumwood T Im Serub Ironbark T Im Leichhardt's Ironb	raceae	Staff Climber	>	5	Sa
Rose-leaf Marara Rose-leaf Marara Red Carabeen T Lim Marara White Birch Grey Ebony T Lim Cordia Cordia T Lim Koda T Lim Rand Quandong T Lim White Quandong T Lim White Quandong T Lim Maiden's Blush Yellow Carabeen T Lim Grey Possumwood T Lim Grey Possumwood T Lim Serub Ironbark T Lim Leichhardt's Ironbark	trus subspicatus	Large Staff Vine	>	T T	Sa
Rose-leaf Marara T Lin Red Carabeen T Lin Marara Marara T Lin White Birch Grey Ebony T Lin Grey Ebony T Lin Koda T Lin Blue Quandong T Lin White Quandong T Lin Hard Quandong T Lin Maiden's Blush T Lin Maiden's Blush T Lin Maiden's Blush T Lin Hard Quandong T Lin Hard Quandong T Lin Hard Quandong T Lin Maiden's Blush T Lin Maiden's Blush T Lin Cerey Possumwood T Lin Serub Ironbark T Lin Serub Ironbark T Lin Leichhardt's Ironbark T Lin Leichhardt's Ironbark T Lin	neriella barbata ocratea h.)	Knot Vine	>	III	Sa
Kose-teal Marara Red Carabeen T Lin Marara Marara Marara Marara Myrite Birch Cordia Cordia T Lin Myrite Ebony T Lin Koda T Lin White Quandong T Lin White Quandong T Lin White Quandong T Lin Maiden's Blush Yellow Carabeen T Lin Grey Possumwood T Lin Grey Possumwood T Lin Serub Ironbark T Lin Lin Leichhardt's Ironbark T Lin Leichhardt's Ironbark T Lin Leichhardt's Ironbark T Lin Leichhardt's Ironbark T Lin	niaceae	The state of the s	Ė	1	W
Red Carabeen T Im Marara Marara Marara Myrite Birch Cordia Cordia Cordia T Im Myrite Ebony T Im Koda T Im Koda T Im White Quandong T Im White Quandong T Im White Quandong T Im Maiden's Blush Yellow Carabeen T Im Grey Possumwood T Im Scrub Bloodwood T Im Scrub Bloodwood T Im Scrub Ironbark T Im Scrub Ironbark T Im Scrub Ironbark T Im Scrub Ironbark T Im T I	luvia paniculosa		- 6	5 .	We
Marara White Birch T Myrtle Ebony T Lin Myrtle Ebony T Lin Myrtle Ebony T Lin Koda T Lin Koda T Lin Myrtle Ebony T Lin Myrtle Ebony T Lin Koda T Lin Myrtle Ebony T Lin Myrtle Ebony T Lin Grey Quandong T Lin Maiden's Blush T Lin Yellow Carabeen T Lin Grey Possumwood T Lin tril Ci.B. Ineida's Scrub Bloodwood T Lin tril Leichhardt's Ironbark T Lin Lin	opetalum apetalum (-		- 1	55	Wb
Marara White Birch Grey Ebony T Im Myrtle Ebony T Im Koda T Im Koda T Im Blue Quandong T Im White Quandong T Im Maiden's Blush T Im Maiden's Blush Yellow Carabeen T Im Yellow Carabeen T Im Yellow Carabeen T Im Serub Bloodwood T Im Serub Bloodwood T Im Leichhardt's Ironbark T Im	loweinmannia			Į.	
Grey Ebony T Im Grey Ebony T Im Cordia T Im Koda T Im Koda T Im Blue Quandong T Im White Quandong T Im Matden's Blush T Im Yellow Carabeen T Im Yellow Carabeen T Im Grey Possumwood T Im Serub Bloodwood T Im Serub Bloodwood T Im Leichhardt's Ironbark T Im Leichhardt's	ocarpa	Marara	H	<u>H</u>	Wb
Grey Ebony T Im Myrtle Ebony T Im Cordia T Im Koda T Im Koda T Im Blue Quandong T Im White Quandong T Im White Quandong T Im Maiden's Blush T Im Yellow Carabeen T Im Grey Possumwood T Im Serub Inonbark T Im Serub Inonbark T Im Leichhardt's Ironbark T Im Leichhardt's I	omeria ovata	White Birch		E.	Us/Wb
Cordia Cordia Cordia Cordia T Im Koda T Im Roda T Im White Quandong T Im White Quandong T Im White Quandong T Im Maiden's Blush Yellow Carabeen T Im Yellow Carabeen T Im Grey Possumwood T Im Caraben's Blush T Im Leichhardt's fronbark T Im Serub Ironbark T Im Serub Ironbark T Im Leichhardt's Ironbark T Im	iceae	Court House	+	Tu.	Wb
Cordia Cordia Koda T Im Koda T Im Blue Quandong T Im White Quandong T Im White Quandong T Im Maiden's Blush Yellow Carabeen T Im Yellow Carabeen T Im Grey Possumwood T Im Serub Ironbark T Im Leichhardt's Ironbark T Im	yros Jaseremosa	are a comp	- 1	1	Wh
Cordia Koda T Im Koda T Im Blue Quandong T Im Blue Quandong T Im White Quandong T Im Maiden's Blush T Im Yellow Carabeen T Im Yellow Carabeen T Im Yellow Carabeen T Im Serub Inonbark T Im Leichhardt's Ironbark T Im	yros pentamera	Myrue Econy	1		
Cordia Koda T Im Koda T Im Blue Quandong T Im White Quandong T Im Hard Quandong T Im Maiden's Blush T Im Yellow Carabeen T Im Grey Possumwood T Im Serub Bloodwood T Im Serub Bloodwood T Im Leichhardt's Ironbark T Im	iaceae			(4)	100
Koda T Lm ### Eumundi Quandong T Lm #### Blue Quandong T Lm ###################################	a dichotoma (-)	Cordia			o w
Eumundi Quandong T Lm Blue Quandong T Lm White Quandong T Lm Hard Quandong T Lm Maiden's Blush T Lm Yellow Carabeen T Lm Grey Possumwood T Lm Grey Possumwood T Lm Serub Bloodwood T Lm Serub Bloodwood T Lm Leichhardt's Ironbark T Lm	ia acuminata	Koda	<u> </u>	Щ	Ad De
Eumundt Quandong T Lm Blue Quandong T Lm White Quandong T Lm Maiden's Blush T Lm Yellow Carabeen T Lm Yellow Carabeen T Lm Grey Possumwood T Lm Grey Possumwood T Lm Serub Bloodwood T Lm Leichhardt's Ironbark T Lm	carpaceae		ŧ		Wile
Blue Quandong T Lm White Quandong T Lm Hard Quandong T Lm Maiden's Blush T Lm Yellow Carabeen T Lm Grey Possumwood T Lm Grey Possumwood T Lm Scrub Bloodwood T Lm Scrub Ironbark T Lm Leichhardt's Ironbark T Lm	searpus eumundi	Eumundi Quandong	4	5.	0
white Quandong T Lm Hard Quandong T Lm Maiden's Blush T Lm Yellow Carabeen T Lm Grey Possumwood T Lm (-) Pink Cherry T Lm Scrub Bloodwood T Lm Scrub Ironbark T Lm Leichhardt's Ironbark T Lm	scarpus grandis	Blue Quandong	-	5	WD
Hard Quandong T Lin Maiden's Blush T Lin Yellow Carabeen T Lin Grey Possumwood T Lin (-) Pink Cherry T Lin Scrub Bloodwood T Lin Scrub Ironbark T Lin Leichhardt's Ironbark T Lin	ocarpus kirtonii	White Quandong	H	5	Wb
Maiden's Blush T Lm Yellow Carabeen T Lm yellow Carabeen T Lm iii (-) Pink Cherry T Lm	searpus obovatus	Hard Quandong	T	F	Wb
iii (-) Pink Cherry T Lm inii (-) Pink Cherry T Lm ia (B. Iucida) Scrub Bloodwood T Lm Scrub Ironbark T Lm rdtii Leichhardt's Ironbark T Lm	iea australis	Maiden's Blush	1	Fm	Wb
Grey Possumwood T Lm i (-) Pink Cherry T Lm (B. Iucida) Scrub Bloodwood T Lm Scrub Ironbark T Lm rii Leichhardt's Ironbark T Lm	nea woollsii	Yellow Carabeen	H	5	Wb
5555. ++++	Iloniaceae tinia verdonii	Grey Possumwood	H	Lm	Wb
1555. 	orbiaceae	3	ŧ		W.
555. 	obuxus swainii (-)	Pink Cherry	- 1	5.	WD
Scrub fronbark I Lin Leichhardt's fronbark T Lin	ghia inophylla (B. luci	da) Scrub Bloodwood	H E	5.	WP
Leichhardt's Ironbark I Im	elia exaltata	Scrub Ironbark		5.	WD
	dia leichhardtii	Leichhardt's Ironbark		5.	Wb

Scientific Name	Common Name	Form	Fire Retardance	Comments
Dissiliaria baloghioides	Lancewood	T	Lm	Wb
Drypetes australasica	Yellow Tulip	I	Im	Wb
Exocoecaria avallocha	Milky Mangrove	L	Lm St	Ad Constal
	Scrub Poison Tree	٢	<u> </u>	WIP
Glochidion ferdinandi	Cheese Tree	1	F	WB
Glochidion sumatranum	Buttonwood	-	H	Wh
Mallotne discolor	Vellow Kamala	L	Lim	Wb
Mollotue philipponeis	Ped Kamala	· F	1	W.
completed successive		65		
Fahaceae				
Austrosteenisia blackii	Blood Vine	>	Lm	Sa On
Castanosnaramas anetado	Black Bean	1	Im	Wh
Dente institute	Notice Denie	. >		Con
Derris invound	ivative Delitis	> 1	5 .	no.
Erythrina sp. Lacey's Creek	Corkwood			Ad De
Erythrina vespertitio	Batswing Coral Tree	1	E 1	Ad De
Mucina giganiea	burny bean	^	III	20
Flacourtiaceae				
Scolopia braunii	Flintwood	Lor	T.	Wb
Flindersiaceae				
Flindersia australis	Crows Ash	F	Im	Wb
Flindersia bennettiana	Bennett's Ash	-	F	Wb
Flindersia collina	Leopard Ash	F	5	Wb
Flindersia schottiana	Cudgerie or Bumpy Ash	1 4	F	Wb
Flindersia xanthoxyla	Yellowwood		EI.	Wb
		i.		
Icacinaceae				
Citronella moorei	Churnwood	T	Im	Wb
Pennantia cunninghamii	Brown Beech	-	Lm	Wb
Talleacean				
Creationary eruthrondon	Pioponherry Ash		Im	Wh
Crystocarsa hynashadia	Rib-fruit Pennerherry	-	1	W.
Crystocarva macdonaldii	Cooloola Lanrel	F		Wh
Cryptocarva microneura	Митовии	- 1	I.	Wb
Crystocarsa obovata	Pennerherry Tree	-	I m	Wb
Endiandra muelleri	Mueller's Walnut	F	I.	Wb
Endiandra pubens	Hairy Walnut	1	Im	Wb
Endiandra sieberi (-)	Hard Corkwood	1	, I	Wb
Neolitsea australiensis	Grev Bolly Gum	F	II.	Wb
Neolitsea dealbata	White Bolly Gum	F	5	Us/Wb
Malvaceae				
Hibiscus tiliaceus	Cotton Tree	1	III.	Wb
Lagunaria patersonii (-)	Norfolk Is Hibiscus	-	T _J	Wb
Meliaceae				
(Psyndocarapa mitidula)	Incense Cedar	F	Im	WIN
Decording fracerania	Rosewood	+ +	I E	3 4 3
D sock hard I work mann	Noscarona		****	77.47

FIRE RETARDANT NATIVE PLANTS: 269

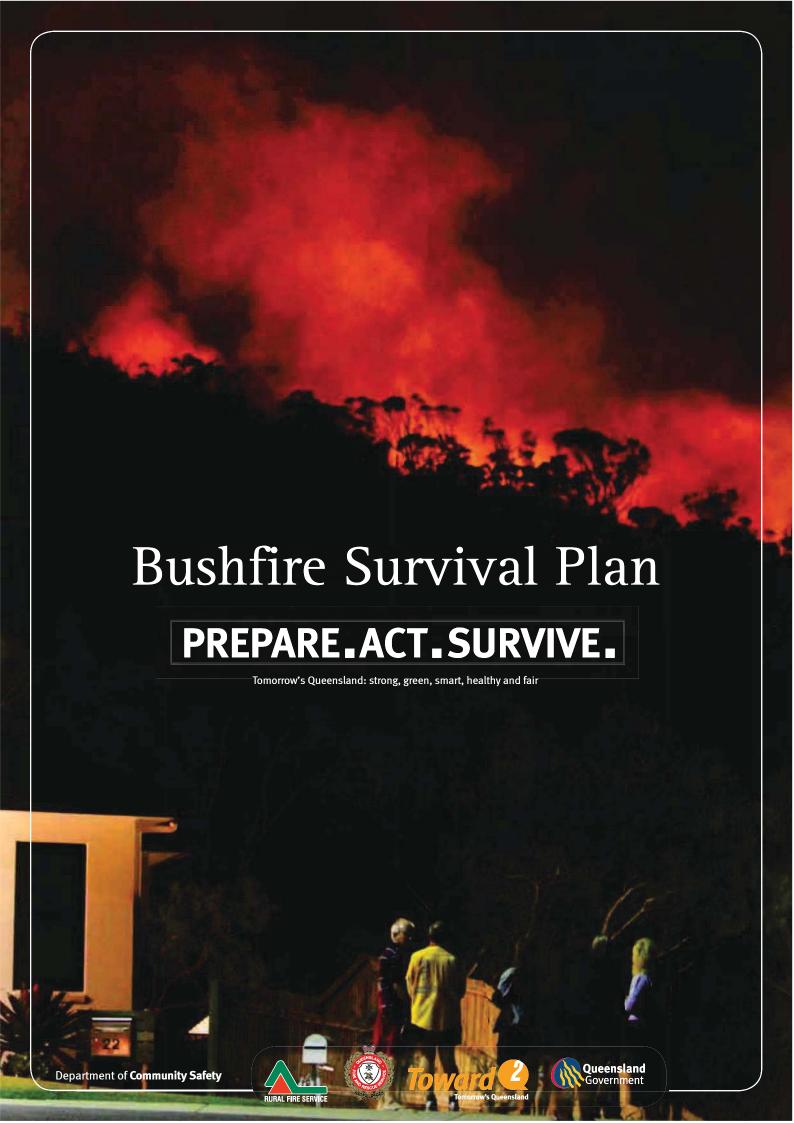
Scientific Name	Common Name	Form	Fire Retardance	Comments	
Dysoxylum mollissimum					
ssp. molle (D. muelleri)	Red Bean	-	FI	Wb	
Dysoxylum rufum	Hairy Rosewood	1	П	Wb	
Melia azedarach	White Cedar	-	4	Wb/Ad De	2
Owenia cepiodora	Onion Cedar	I	Em	Wb	
Toona australis	Red Cedar	H	Lm	Wb/Ad De	ž
Menispermaceae					
Legnephora moorei	Wild Grape	>	Im	Sa	
Sarcopetalum harvevanum	Pearl Vine	^	Im	Sa	
Stephania aculeata	Prickly Snake Vine	>	Im	Sa	
Tinospora smilacina	Snake Vine	>	Lm	Sa	
Tinospora tinosporoides	Arrow-head Vine	>	L L	Sa	
Mimosaceae					
Acacia aulacocarna var					
aulacovarna	Hickory Warrle	L	E	Wh Pr	
mineral particular	Mechlerand	- E	1	Wh Dr	
Activity Dancer	Deizelem Wante	- F		W.	
Acacia narpophytia (-)	Dingalow wallie	- 1			
Acacia melanoxyton	Blackwood	- 1	5 .	I OM	
Archidendron grandiflorum	Lace Flower		ш	WB	
Monimiaceae					
Palmeria scandens	Anchor Vine	>	L	Sa	
Moraceae					
Figur macrophylla	Moreton Bay Fig.	L	Im	Wb	
Ficus obliqua	Small-leafed Fig.	L	П	Wb	
Ficus platypoda	Rock Fig.	Н	H	Wb	
Ficus superba var. henneana Deciduous Fig.	Deciduous Fig.	H	4	Ad De	
Ficus virens var. sublanceolataWhite Fig.	raWhite Fig	H	Im	Wb	
Ficus watkinsiana	Nipple Fig.	1	<u></u>	Wb	
Machina cochinchinensis	9				
(Cudrania e.)	Cockspur Thorn	>	Lm.	Oa Sa	
Malaisia scandens	Burny Vine	>	В	Sa	
Myrtnceae					
Acmena hemilampra	Blush Satinash	^	E	Wb	
Acmena ingens					
(A. brachvandra)	Red Apple	>	E.	Wb	
Acmena smithii	Creek Lilly Pilly	L	Im	Wb	
John Stemon conferras	Britch Box	-	Im	Wb	
sensation named	Tomorphis			WE	
Syncal pid Stomanyera	Compelling Comb Charmi	E		Wh	
Sycygum monaic	Schub Cheny	• [3 _	TAVE.	
Syzygum corynanthum	Sour cherry	- 1	5 .	O M	
Syzygum crebinerve	Purple Cherry		H	W	
Syzygium moorei (-)	Durobby	T	FI	Wb	
Nyctaginaceae					
ことのでは、これには、これには、これには、これには、これには、これには、これには、これに	CARTA TRANSPORT AND AND THE BARBOTTO		The second second		

Piperaceae Piper novae-hollandiae Native Pepper Vine T Im Wh Piperaceae Piper novae-hollandiae Native Pepper Vine V Im Sa Pittosporaceae Piper novae-hollandiae Native Pepper Vine V Im Wh Proteaceae Piper novae-holiana (-) Silky Oak T Im Wh Crevillea robasia erapipila (-) Silky Oak T Im Wh Accordannia terapipila (-) Silky Oak T Im Wh Alloxylon Jimanian (-) T Im Wh Alloxylon Jimanian (-) Silky Oak T Im Wh Alloxylon Jimanian (-) T Im Wh Alloxylon My Alloxylon molutecona Corducy Acronychia T Im Wh Alloxylon molutecona Corducy Acronychia (-) T Im Wh Alloxylon molutecona Corducy Acronychia (-			The state of the s	יווכ ווכוחותחוונה	
Native Pepper Vine V Im Hollywood T Im Silky Oak T Im Silky Oak T Im Sough-shell Bush Nut T Im Pink Silky Oak T Im Pink Silky Oak T Im Sough-shell Bush Nut T Im Pink Silky Oak T Im Sough-shell Bush Nut T Im Pink Silky Oak T Im Sough-shell Bush Nut T Im Pink Silky Oak T Im Sough-shell Bush Nut T Im Bush Ash T Im	Oleaceae Olea paniculata	Native Olive	Т	5	W
ealer rhoulandiace Native Pepper Vine V Lm realer rhoulbifolium Hollywood T Lm filliana (-) Hill's Silky Oak T Lm finacgrifolia Smooth Helicia T Lm terrafiolia Marocchy Nut T Lm terrafiolia Marocchy Nut T Lm terrafiolia Marocchy Nut T Lm salianate (-) Sain Oak T Lm sanianate (-) Sain Oak T Lm salianate (-) Sain Oak T Lm exerbs Red Ash T Lm exerts Red Ash T Lm certain Pink Ash T Lm ces Yellow Ash T Lm find and Codury Tamarind T Lm ficulatus Alectryon			ei.		
Hollywood T Im Ball Nut Hill's Silky Oak Silky Oak Silky Oak Silky Oak T Im Sancoth Helicia Queensland Nut T Im Maroochy Nut Rough-shell Bush Nut T Im Fink Silky Oak T Im Satin Oak Serub Beefwood T Im Serub Beefwood T Im Whiee I of Fire Tree T Im White Lilly Pilly Corky Asronychia Bauerella T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tuckeroo	Piperaceae Piper novae-hollandiae	Native Pepper Vine	>	Im	Sa
Ball Nut Hill's Silky Oak Silky Oak Smooth Helicia Queensland Nut Maroochy Nut T Im Rough-shell Bush Nut T Im Rough-shell Bush Nut T Im Pink Silky Oak T Im Satin Oak Satin Oak T Im Serub Beefwood T Im Pink Ash T Im Yellow Ash T Im MoluceaBramble V Im MoluceaBramble V Im Bauerella T Im Bauerella T Im Bauerella T Im Bauerella T Im Broad-leaf Whitewood T Im Brown Tanarind T Im Brown Tanarind T Im Brown Tanarind T Im Brown Tanarind T Im Brown Tackeroo SyT Im Small-leaf Tanarind T Im Blunt-leaf Tanarind T Im Blunt-leaf Tanarind T Im Blunt-leaf Tanarind T Im Blunt-leaf Tanarind T Im	Vittosporaceae Vittosporum rhombifolium	Hollywood	+	T.	Wb
Ball Nut Hill's Silky Oak Silky Oak Silky Oak T Im Sunoth Helicia T Im Sunoth Helicia T Im Maroochy Nut T Im Rough-shell Bush Nut T Im Satin Oak T Im Satin Oak T Im Satin Oak Wheel of Fire Tree T Im Sed Ash T Im Sed Ash T Im Sed Ash T Im White Lilly Pilly Syr Im Sorub Whitewood T Im Bauerella T Im Bauerella T Im Bauerella T Im Scrub Whitewood T Im Sunoth-leaf Whitewood T Im Sunoth-leaf Tamarind Tuckeroo T Im Snath-leaf Tamarind T Im Shant-leaf Tamarind T Im	roteaceae				
Silky Oak Silky Oak Silky Oak T Im Sucoch Helicia T Im Rough-shell Bush Nut T Im Pink Silky Oak Satin Oak Serub Beefwood Wheel of Fire Tree T Im Solid Man's Beard V Im Sellow Ash T Im White Lilly Pilly Corducy Tamarind T Im Bauerella T Im Sorub Whitewood T Im Bauerella T Im Sorub Whitewood T Im Brown Theckeroo T Im Sorub Whitewood T Im Brown Tuckeroo T Im Brown Tuckeroo Syr Im Small-leaf Tamarind T Im Brown Tuckeroo T Im Brown Tuckeroo Syr Im Native Tamarind T Im Small-leaf Tamarind T Im Brown Tuckeroo T Im Small-leaf Tamarind T Im	loydia praealta	Ball Nut	1	Im	Wb
Silky Oak Smooth Helicia Queensland Nut T Im Rough-shell Bush Nut T Im Rough-shell Bush Nut T Im Satin Oak T Im Serub Beefwood T Im Wheel of Fire Tree T Im Whate Lilly Pilly Corduroy Tamarind T Scrub Whitewood T Im Broad-leaf Whitewood T Scrub Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T T Im Brown Tamarind T Im Brown Tuckeroo Small-leaf Tamarind T Im Blunt-leaf Tamarind T Im Blunt-leaf Tulip T Im Small-leaf Tamarind T Im Small-leaf Tamarind T Im That	Srevillea hilliana (-)	Hill's Silky Oak	-	五	Pf
Smooth Helicia T Im Queensland Nut T Im Rough-shell Bush Nut T Im Pink Silky Oak T Im Serub Beefwood T Im Wheel of Fire Tree T Im Wheel of Fire Tree T Im Serub Beefwood T Im White Lilly Pilly SyT Im Corky Acronychia T Im Bauerella T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tamarind T Im Brown Tamarind T Im Brown Tamarind T Im Brown Takeroo SyT Im Serub Whitewood T Im Brown Tuckeroo SyT Im Sanall-leaf Tamarind T Im Brown Tuckeroo SyT Im Small-leaf Tamarind T Im	revillea robusta	Silky Oak	T	Lm	Pf
Queensland Nut T Im Rarocchy Nut T Im Rough-shell Bush Nut T Im Satin Oak T Im Serub Beefwood T Im Wheel of Fire Tree T Im White Lilly Pilly T Im Red Ash T Im White Lilly Pilly S/T Im Bauerella T Im Broad-leaf Whitewood T Im Brown Tanarind T Im Brown Tanarind T Im Brown Tuckeroo S/T Im Small-leaf Tanarind T Im Native Tamarind T Im	Ielicia glabriflora	Smooth Helicia	H	E	d
Maroochy Nut T Im Rough-shell Bush Nut T Im Satin Oak T Im Satin Oak T Im Serub Beefwood T Im Wheel of Fire Tree T Im Wheel of Fire Tree T Im Wheel of Fire Tree T Im Sed Ash T Im White Lilly Pilly SyT Im Buserella T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tanarind T Im Brown Tackeroo SyT Im Small-leaf Tanarind T Im Sanall-leaf Tanarind T Im Native Tanarind T Im	Iacadamia integrifolia	Queensland Nut	H	5	WB
Rough-shell Bush Nut T Im Pink Silky Oak T Im Satin Oak T Im Serub Beefwood T Im Wheel of Fire Tree T Im Wheel of Fire Tree T Im Pink Ash T Im White Lilly Pilly S/T Im Buserella T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Sanall-leaf Tamarind T Im Native Tamarind T Im Native Tamarind T Im Salamt-leaf Tamarind T Im	Aacadamia ternifolia	Maroochy Nut	H	Ē	Wh
Satin Oak Satin Oak Serub Beefwood Wheel of Fire Tree T Im Wheel of Fire Tree T Im Old Man's Beard V Im Red Ash T Im White Lilly Pilly Corky Acronychia Buserella Alectryon Corduroy Tamarind T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tamarind T Im Brown Tuckeroo Small-leaf Tamarind T Im Brown Tuckeroo Small-leaf Tamarind T Im Brown Tuckeroo Small-leaf Tamarind T Im Brown Tuckeroo T Im Sanall-leaf Tamarind T Im Native Tamarind T Im Native Tamarind T Im	facadamia tetraphylla (-)	Rough-shell Bush Nut		Im	Wh
Satin Oak Scrub Beefwood Wheel of Fire Tree T Im Old Man's Beard V Im Old Man's Beard V Im Red Ash T Im NoluccaBramble White Lilly Pilly Corky Acronychia Bauerella Alectryon Corduroy Tamarind T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tuckeroo Small-leaf Tamarind T Im Native Tamarind T Im Native Tamarind T Im Native Tamarind T Im		Pink Silky Oak	-	I.	1
Scrub Beefwood T Lm Wheel of Fire Tree T Lm Old Man's Beard V Lm Red Ash T Lm Yellow Ash T Lm Yellow Ash T Lm White Lilly Pilly S/T Lm Bauerella T Lm Broad-leaf Whitewood T Lm Broad-leaf Whitewood T Lm Brown Tamarind T Lm Brown Tuckeroo S/T Lm Srub Whitewood T Lm Brown Tuckeroo S/T Lm Srub Whitewood T Lm Brown Tuckeroo T Lm Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm	Priocallis wickhamii (-)	Satin Oak	H	己	<u> </u>
Serub Beefwood T Lm Wheel of Fire Tree T Lm Old Man's Beard V Lm Red Ash T Lm Yellow Ash T Lm Yellow Ash T Lm White Lilly Pilly S/T Lm Bauerella T Lm Broad-leaf Whitewood T Lm Broad-leaf Whitewood T Lm Brown Tamarind T Lm Brown Tuckeroo S/T Lm Srub Whitewood T Lm Brown Tuckeroo S/T Lm Srub Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Native Tamarind T Lm	Alloxylon flammeum)				
Wheel of Fire Tree T Im Old Man's Beard V Im Red Ash T Im Yellow Ash T Im White Lilly Pilly S/T Im Corky Acronychia T Im Bauerella T Im Alectryon T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tuckeroo S/T Im Small-leaf Tamarind T Im Brown Tuckeroo S/T Im Small-leaf Tamarind T Im Native Tamarind T Im Native Tamarind T Im Native Tamarind T Im Small-leaf Tamarind T Im Native Tamarind T Im Native Tamarind T Im Blunt-leaf Tulipp T Im	tenocarpus salignus (-)	Scrub Beefwood	T	Lm	P
Old Man's Beard V Lm Red Ash Pink Ash T Im Yellow Ash T Im MoluceaBramble V Im MoluceaBramble V Im Bauerella T Im Broad-leaf Whitewood T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tawarind T Im Brown Tawarind T Im Brown Tawarind T Im Brown Tuckeroo Syr Im Small-leaf Tamarind T Im Native Tamarind T Im	tenocarpus sinuatus	Wheel of Fire Tree	H	F	Wb
Red Ash Pink Ash T Pink Ash T Lim MoluccaBramble T Lim MoluccaBramble V Lim Bauerella T Lim Bauerella T Lim Broad-leaf Whitewood T Lim Brown Tamarind T Lim Brown Tamarind T Lim Brown Tamarind T Lim Brown Tamarind T Lim Brown Tuckeroo S R Lim Bunt-leaf Tulip T Lim Bunt-leaf Tulip T Lim Bunt-leaf Tulip L Lim Bunt-leaf Tulip L L L L L L L L L L L L L L L L L L L	anunculaceae				
Red Ash Pink Ash T F Im Yellow Ash T Im MoluccaBramble T MoluccaBramble V Im Bauerella T Im Broad-leaf Whitewood T Serub Whitewood T Brown Tamarind T T Im Brown Tuckeroo T T Im Brown Tuckeroo S Brown Tuckeroo S Brown Tuckeroo S Brown Tuckeroo T Im Samal-leaf Tamarind T Im Samal-leaf Tamarind T Im Native T Im	Temalis aristata	Old Man's Beard	>	F	Sa
Red Ash Pink Ash T Im Yellow Ash T Im MoluccaBramble White Lilly Pilly Corky Acronychia Bauerella T Im Bauerella T Im Broad-leaf Whitewood T Im Brown Tamarind Tuckeroo T Im Brown Tuckeroo Syr Im Small-leaf Tamarind T Im Brown Tuckeroo Syr Im Small-leaf Tamarind T Im	hamnaceae				
Yellow Ash T Im Yellow Ash T Im MoluccaBramble V Im White Lilly Pilly S/T Im Corky Acronychia T Im Bauerella T Im Alectryon T Im Broad-leaf Whitewood T Im Scrub Whitewo	Iphitonia excelsa	Red Ash	_	E	Wh
Yellow Ash T Im MoluccaBramble V Im White Lilly Pilly S/T Im Corky Acronychia T Im Bauerella T Im Bauerella T Im Corduroy Tamarind T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tuckeroo T Im Brown Tuckeroo S/T Im Small-leaf Tamarind T Im	Iphitonia petrei	Pink Ash	L	E	Wb
Yellow Ash T Im Molucca Bramble V Im White Lilly Pilly S/T Im Corky Acronychia T Im Bauerella T Im Bauerella T Im Corduroy Tamarind T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tamarind T Im Brown Tuckeroo S/T Im Small-leaf Tamarind T Im	ттепохрегта				NATIONAL PROPERTY.
MoluccaBramble V Im White Lilly Pilly S/T Im Bauerella T Im Bauerella T Im Alectryon T Im Broad-leaf Whitewood T Im Brown Tamarind T Im Brown Tamarind T Im Brown Tawarind T Im Brown Tawarind T Im Brown Tuckeroo T Im Brown Tuckero	phitonioides	Yellow Ash	H	Д	Wb
White Lilly Pilly S/T Lim Corky Acronychia T Lim Bauerella T Lim Alectryon T Lim Corduroy Tamarind T Lim Broad-leaf Whitewood T Lim Scrub Whitewood T Lim Brown Tamarind T Lim Brown Tuckeroo T Lim Blant-leaf Tamarind T Lim Blant-leaf Tulip T Lim	osaceae				
White Lilly Pilly Corky Acronychia Bauerella Alectryon Corduroy Tamarind Tr Im Broad-leaf Whitewood Tr Im Brown Tamarind Tuckeroo Tr Im Brown Tuckeroo Small-leaf Tamarind Tr Im Brown Tuckeroo Tr Im Native Tamarind Tr Im Native Tamarind Tr Im Tr Tr Tr Tr Tr Tr Tr Tr Tr T	abus moluceanus	MoluccaBramble	^	Lm	Sa
White Lilly Pilly Corky Acronychia T Im Bauerella T Im Alectryon Corduroy Tamarind T Im Broad-leaf Whitewood T Im Scrub Whitewood T Im Brown Tamarind T Im Brown Tuckeroo T Im Small-leaf Tamarind T Im Native Tamarind T Im	ufaceae				
Corky Acronychia T Im Bauerella T Im Alectryon T Im Corduroy Tamarind T Im Broad-leaf Whitewood T Im Scrub Whitewood T Im Brown Tamarind T Im Brown Tuckeroo T Im Brown Tuckeroo T Im Brown Tuckeroo T Im Small-leaf Tamarind T Im Small-leaf Tamarind T Im Shant-leaf Tulip T Im	cronychia oblongifolia	White Lilly Pilly	T/S	T.	Wh
Bauerella T Im Alectryon T Im Corduroy Tamarind T Im Broad-leaf Whitewood T Im Scrub Whitewood T Im Brown Tamarind T Im Brown Tuckeroo T Im Small-leaf Tamarind T Im Blunt-leaf Tulip T Im	cronychia suberosa	Corky Acronychia	L	Im.	Wb
Alectryon Corduroy Tamarind T Lm Broad-leaf Whitewood T Lm Brown Tamarind T Lm Tuckeroo T Lm Small-leaf Tamarind T Lm Small-leaf Tamarind T Lm Small-leaf Tamarind T Lm Small-leaf Tulip T Lm	recomelicope simplicifolia	Bauerella	1	E	Wb
Alectryon T Lm Corduroy Tamarind T Lm Broad-leaf Whitewood T Lm Scrub Whitewood T Lm Brown Tamarind T Lm Brown Tuckeroo T Lm Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	pindaceae				
Cordutoy Tamarind T Lm Broad-leaf Whitewood T Lm Scrub Whitewood T Lm Brown Tamarind T Lm Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	lectryon reticulatus	Alectryon	P	Im	W
Broad-leaf Whitewood T Lm Scrub Whitewood T Lm Brown Tanarind T Lm Brown Tuckeroo S/T Lm Small-leaf Tanarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	viera lautererana	Corduroy Tamarind	F	Im	W
Scrub Whitewood T Lin Brown Tamarind T Lin Tuckeroo T Lin Brown Tuckeroo S/T Lin Small-leaf Tamarind T Lin Native Tamarind T Lin Blunt-leaf Tulip T Lin	alaya multiflora	Broad-leaf Whitewood	F	L L	3
Brown Tamarind T Lm Tuckeroo T Lm Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	alaya salicifolia (A. virens)	Scrub Whitewood	-	i ii	3
Tuckeroo T Lm Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	astanospora aphanandi (-)	Brown Tamarind	F		100
Brown Tuckeroo S/T Lm Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	upaniopsis anacardioides	Tuckeroo	- 1-		2 3
Small-leaf Tamarind T Lm Native Tamarind T Lm Blunt-leaf Tulip T Lm	apaniopsis flagelliformis (-)	Brown Thekeroo	475	Im	100
Native Tamarind T Im Blunt-leaf Tulip T Im	ploglottis campbellii (-)	Small-leaf Tamarind		ll ll	N.
Blunt-leaf Tulip T Lm	ploglottis cunninghamii	Native Tamarind	H	Im	WIVAG
	mpullia hillii	Blunt-leaf Tulip	H	F	WB

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ALAXES.			× 4						イン																Mangroves - nurseries for our fisheries (JB)
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QFES Bushfire Survival Plan Guidelines





You must prepare ACT SURVIVE

Your main priority is to ensure that you and your family are safe. During a bushfire you and your family's survival and safety depend on your preparations, and the decisions you make.

The lives of you and your family are more important than any building.

Whether your plan is to leave early or stay, you must prepare your home and property to increase their level of resilience and your chances of survival.

Bushfires in Queensland

The fire season in Queensland normally commences in the far north of the state in July and progresses through to southern areas as spring approaches. The fire season can extend through to February in southern and far south-western Queensland. These time frames can vary significantly from year to year, depending on the fuel loads, long-term climate and short-term weather conditions in each area.

There are four key considerations for dealing with bushfire:

- The safety of you and your family.
- The resilience of your property.
- The protection of irreplaceable valuables and important documents.
- The maintenance of adequate levels of insurance.

This document will provide you with information about the things you need to consider to prepare yourself and your home for the bushfire season, and how to make your own personal Bushfire Survival Plan.

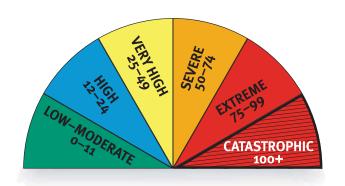
It is your responsibility to prepare yourself, your family and your home for the threat of bushfire.

Understand your risk

The first step in planning to survive a bushfire is to understand your own level of risk. By understanding your own level of risk you will be able to make informed decisions that are right for you and your family. Included with this Bushfire Survival Plan is a self-assessment tool that will enable you to assess the risk level associated with your property. If you are still unsure of your level of risk or require assistance contact your local fire station for more information. To book a Bushfire Safety presentation call 1300 369 003.

Fire danger ratings

The increased frequency of extreme bushfires in Australia in the last 10 years and the recent experience of the Black Saturday fires in Victoria have encouraged fire services throughout Australia to introduce new levels of Fire Danger Rating (FDR). A lift-out chart of the FDR system is contained within this document. Display it in a prominent place in your home or keep it with your Bushfire Survival Plan.



Catastrophic fire danger rating

The highest level is catastrophic. On a day of catastrophic FDR leaving early is the only option to ensure your survival. You must relocate early to a safer location, hours or the day before a fire occurs. Under no circumstances will it be safe to stay with your property.

Leaving late can be a deadly option.

If you are in any doubt, make the decision to LEAVE EARLY.

Extreme fire danger rating

The second highest level is extreme. Should a fire occur in your area on a day of extreme FDR leaving early will always be the only option. Staying can only be considered for homes that:

- Have been designed and constructed specifically to address the threat of bushfire.
- Have been maintained to those levels and are currently well prepared.
- Can be actively defended by people with the skills, knowledge and confidence to implement a well-rehearsed Bushfire Survival Plan.

On days of catastrophic or extreme FDR:

- Fires are likely to be uncontrollable, unpredictable and very fast moving with highly aggressive flames extending high above tree tops and buildings.
- Thousands of embers may be violently blown into and around homes causing other fires to start rapidly and spread quickly up to 20 kilometres ahead of the main fire.
- Fire can threaten suddenly, without warning, and the heat and wind will make it difficult to see, hear and breathe as the fire approaches.
- People in the path of such fires will almost certainly be injured or die and a significant number of homes and businesses will be destroyed or damaged.
- Even well-prepared and constructed homes will not be safe.
- Expect power, water and phone networks to fail as severe winds bring down trees, power lines and blow roofs off buildings well ahead of the fire.

It is vital that you understand on these days that your survival will depend solely on how well you have prepared and how decisively you act.

What will you do?

At all times you need to PREPARE_ACT_SURVIVE _

When the fire danger rating is 'catastrophic' leaving early is the safest option.

When the fire danger rating is lower than 'catastrophic', one of the most important decisions you need to make is whether you will leave early or stay with a well prepared property. This decision is the basis of your Bushfire Survival Plan.

The following questions may help you make the right decision for whether you will leave early or stay:

- Do you need to consider family members who are young, elderly or infirm?
- Are you physically and emotionally prepared to stay with your property?
- Do you have the knowledge, skills, and confidence to stay with your property?
- Is your home adequately constructed, maintained and prepared to withstand the impact of a fire? In other words, is your home prepared to withstand the impact of a bushfire?
- Do you have well-maintained resources and equipment to fight fire, and do you know how to use them?
- Do you have appropriate protective clothing to fight a fire?
- What will you do if a rapid onset fire leaves you with no time to leave? Where will you shelter?



Leave early

If you plan to leave early then you must leave your home well before a bushfire threatens and travelling by road becomes hazardous. Your leave early preparations include:

Step 1: Preparation – your property should be well prepared for bushfire even if you intend to leave early.

Step 2: What you will do – make your Bushfire Survival Plan in accordance with your decision to leave early.

Step 3: Make a contingency plan – the FDR, the preparedness of your home, a change in household circumstances, a change in your physical preparedness or unexpected visitors are some things that may require you to reconsider your Bushfire Survival Plan.

Planning to stay

Planning is critical to successfully staying with your home may involve the risk of psychological trauma, injury or death.

Step 1: Preparation – your property must be able to withstand the impact of bushfire and well prepared to shelter you and your family.

Step 2: What you will do – make your Bushfire Survival Plan in accordance with your decision to stay.

Step 3: Make a contingency plan – the FDR, the preparedness of your home, a change in household circumstances, a change in your physical preparedness or unexpected visitors are some things that may require you to reconsider your Bushfire Survival Plan.

In making your decision to stay, here are a few things you need to consider.

- Is your property able to withstand the impact of a bushfire?
- Are you physically and emotionally prepared to stay with your property?
- Do you have well-maintained resources and equipment and do you know how to use them?
- Do you have appropriate protective clothing?
- Will your bushfire survival plan need to be different for weekdays, weekends or if someone is sick at home?
- Do you have a contingency plan?

Preparing your Bushfire Survival Plan

Preparation is the key to survival. Being involved in a fire will be one of the most traumatic experiences of your life.

- Prepare yourself you need to be both mentally and physically prepared to carry out your Bushfire Survival Plan.
- Prepare your Bushfire Survival Plan.
- Prepare your Bushfire Survival Kit.
- Prepare your Bushfire Relocation Kit.
- Prepare your property.

When writing your plan you need to consider:

- Have you made the right choice: to leave early or stay?
- Have you discussed your choice with your family, friends and neighbours?
- Who will take charge and lead other family members by carefully communicating the various tasks set out in the plan?
- If you have chosen to stay what will you do to protect your property when the fire arrives?
- What will you put in your Bushfire Survival Kit and where will you store it?
- Do your friends, family and neighbours know the details of your plan?

- What will you do if your Bushfire Survival Plan fails?
- Do you have an alternative option or contingency plan if your plan fails?
- Do you have a Neighbourhood Safer Place (NSP) you can go to as a last resort? For more information on NSPs see www.ruralfire.qld.gov.au.
- Is it safe to travel there?

If your decision is to leave early, you must include the following information or action items in your Bushfire Survival Plan:

- Monitor media outlets radio, TV, mobile phone and internet for bushfire alerts.
- When will you leave?
- What will be your trigger for action?
- Will your plan be different for weekdays, weekends, or if someone is at home sick or injured?
- What will you take with you (Relocation Kit)?
- Where will you and your family go when you leave early?
- What route will you take to get there?
- What will you do with your pets?
- What will you do if there are consecutive or multiple 'catastrophic' or extreme fire danger days?
- Will you go into work on days when the FDR is in the upper levels?
- Will you send your children to school when the FDR is in the upper levels?
- Will all members of your household leave early?
- What will you do to prepare your property?
- What is your contingency plan in the event that it is unsafe to leave?

If your decision is to stay you must include the following information or actions items in your Bushfire Survival Plan:

- Monitor media outlets Radio, TV, mobile phone and internet.
- Locate your Bushfire Survival Kit.
- Put on protective clothing.
- Remain hydrated by drinking lots of water.

- Move any stock to fully grazed paddocks.
- Move cars to a safe location.
- Remove garden furniture, doormats and other items.
- Close windows and doors and shut blinds.
- Take down curtains and move furniture away from windows.
- Seal gaps under doors and window screens with wet towels.
- Place pets inside, restrain them, and provide water.
- Block downpipes and fill gutters with water.
- Wet down the sides of buildings facing the approaching fire front.
- Wet down decks and verandas.
- Wet down fine fuels close to buildings.
- Turn on sprinklers in garden before bushfire arrives.
- Fill containers with water; bath, sinks, buckets, wheelie bins, etc.
- Have ladders ready for roof space access (inside) and against roof (outside).
- Have generator or petrol pump ready.
- Start checking and patrolling for embers outside.

When the fire front arrives:

- Take all fire fighting equipment inside such as hoses and pumps as they may melt during the fire.
- Go inside and shelter away from the fire front.
- Patrol the inside of your home, including the ceiling space, for embers or small fires that may start.
- Drinks lots of water.
- Check family and pets.

After the fire front has passed:

- Wear protective equipment.
- Go outside once it is safe.
- Check for small spot fires and burning embers:
 - inside roof space
 - under floor boards
 - under house space
 - on veranda and decks

- on window ledges and door sills
- in roof lines and gutters
- garden beds and mulch
- wood heaps
- outdoor furniture
- sheds and carports
- Continue to drink lots of water.
- Stay at your property until the surrounding area is clear of fire.
- Monitor media outlets radio, TV, mobile phone and internet.

You need to be both mentally and physically prepared to carry out your Bushfire Survival Plan

There may be other actions to include, depending on your individual property and the level of bushfire risk you are exposed to.

Include the whole family in creating your Bushfire Survival Plan. You and your family should be aware of the actions you will take at the various FDR levels and it is important to ensure this is incorporated into your Bushfire Survival Plan. The FDR for your area can be found on roadside signs and by visiting www.ruralfire. qld.gov.au and following the FDR link.

It is important that your Bushfire Survival Plan does not rely solely on receiving an alert.

Once you have completed your Bushfire Survival Plan, practise it regularly to ensure everyone involved knows exactly what to do in the event of a fire.

Preparing your Bushfire Survival Kit

It is essential that you have a Bushfire Survival Kit if your choice is to stay with your property. This kit will ensure you and your family have the important equipment you need to stay. For a comprehensive list of equipment needed in a Bushfire Survival Kit see page 14.

Preparing your Bushfire Relocation Kit

It is equally important to have a relocation kit if your choice is to leave early. This kit will ensure you and your family have important items and equipment required to relocate for the time needed. For a comprehensive list of items and equipment needed in a Bushfire Relocation Kit see page 15.

Making a contingency plan

No matter whether your decision is to leave early, well before a bush fire threatens or to stay you should still have a contingency plan as part of your Bushfire Survival Plan. There are many scenarios to consider, such as what you will do if a rapid onset fire starts in your local area making roads impassable or travel particularly dangerous. You should have other options if road travel is not safe.

- Is your house well prepared?
- Can it provide you with protection from radiant heat?
- Have you identified a safer location such as an NSP?

Sheltering in a well-prepared property is far safer than being out in the open or in a vehicle

Preparing your property

An unprepared property is not only at risk itself, but may also present an increased danger for your neighbours and their homes.

Planning is absolutely critical to safely staying with your home. Staying home involves the risk of psychological trauma, injury and death.

There are a number of measures you can take to prepare your home and property for bushfire. These include several preparations you must take annually prior to the bushfire season.

Your pre-season property preparations should include:

- Displaying a prominent house number.
- Ensuring there is adequate access for fire trucks to your property – 4 metres wide by 4 metres high with a turn-around area. Reduce vegetation loads along the access path.
- Mowing your grass regularly.
- Removing excess ground fuels and combustible material (long dry grass, dead leaves and branches).
- Clearing of leaves, twigs, bark and other debris from the roof and gutters.
- Purchasing and testing the effectiveness of gutter plugs.
- Trimming low-lying branches 2 metres from the ground surrounding your home.
- Enclosing open areas under your decks and floors.
- Installing fine steel wire mesh screens on all windows, doors, vents and weep holes.
- Pointing LPG cylinder relief valves away from the house.
- Conducting maintenance checks on pumps, generators and water systems.
- Checking that you have sufficient personal protective clothing and equipment.
- Relocating flammable items away from your home including woodpiles, paper, boxes, crates, hanging baskets and garden furniture.
- Sealing all gaps in external roof and wall cladding.
- Checking that the first aid kit is fully stocked.

Bushfire Alerts

If you receive an emergency warning about a bushfire or other emergency, take notice as it could save your life.

There are three types of alert messages to help you make the right safety choices:

Bushfire Advice Message – a fire has started – general information to keep you up to date.

Bushfire Watch and Act Message – represents a heightened level of threat. Conditions are changing, a fire is approaching; lives may come under threat. Take appropriate action.

Bushfire Emergency Warning – is the highest level message advising of impending danger. It may be preceded with the Standard Emergency Warning Signal (SEWS).

An Emergency Warning means there is a threat to lives and protective action is required immediately.

When a bushfire strikes

You have made your decision to **PREPARE.ACT.SURVIVE.** You have prepared your property before the fire season. You have made your Bushfire Survival Plan. You have practised your Bushfire Survival Plan.

A bushfire is threatening? What do you do?

- Know the FDR for any given day.
- Regularly check the FDR on the Rural Fire Services website at www.ruralfire.qld.gov.au.
- Monitor your media outlets for warnings on bushfire activity.
- Seek out information if you have to, and do not assume that you will receive a warning.
- Leave early or stay according to your Bushfire Survival Plan.
- Act decisively in accordance with your Bushfire Survival Plan.
- Do not adopt the 'wait and see' option.

Travelling in your vehicle near a bushfire

Sheltering inside a vehicle is a high-risk strategy that can result in death. Whilst sheltering inside a vehicle offers you a slightly higher chance of survival than being caught in the open, having a leave early or stay strategy is a much safer option.

You should never take a journey into areas where the fire danger is catastrophic or extreme. You should consider postponing or finding alternative routes if necessary. If you can smell or see smoke in the distance it is best to u-turn and drive away from the danger.

If you are caught in smoke or flames while on the road:

- Turn on the vehicle's headlights and hazard warning lights.
- If you need to shelter in your vehicle drive your car into a bare, clear area well away from surrounding trees, leaving lights on. Position vehicle to prevent side impact from advancing fire front.
- Close all windows and vents.
- Leave the engine running and turn off the air conditioning system.
- Cover your entire body with woollen or cotton blankets to protect from radiant heat.
- Take shelter below the window level.
- Drink water frequently and stay in the vehicle until the fire front has passed.
- Once the fire front has passed exit the vehicle to inspect the damage and ensure other passengers are safe.

Neighbourhood Safer Places

A Neighbourhood Safer Place (NSP) is a place of last resort for people during a bushfire. An NSP may form part of a back-up plan when:

- Your Bushfire Survival Plan has failed.
- Your plan was to stay but the extent of the fire means that your home cannot withstand the impact of the fire and therefore your home is not a safe place to shelter.
- The fire has escalated to an extreme or catastrophic level and relocation is the safest option.

An NSP is an identified building or open space within the community that can provide a level of protection from the immediate life-threatening effects of a bushfire. NSPs still entail some risk, both in moving to them and while sheltering in them and cannot be considered completely safe.

They are a place of *last resort* in bushfire emergencies only. The following limitations of NSPs need to be considered within your Bushfire Survival Plan:

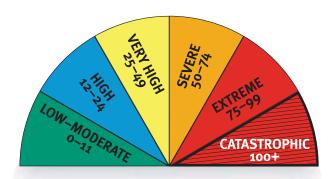
- NSPs do not cater for pets.
- Firefighters may not be present as they will be fighting the main fire front elsewhere.
- NSPs do not provide meals or amenities.
- They may not provide shelter from the elements, particularly flying embers.

If you are a person with special needs you should give consideration to what assistance you may require at an NSP.

Although QFRS cannot guarantee an immediate presence during a bushfire, every effort will be made to provide support as soon as resources are available.

If an NSP is part of your contingency plan it should not require extended travel through fire-affected areas to get there.

FIRE DANGER RATING



The Fire Danger Rating (FDR) is an early indicator of potential danger and should act as your first trigger for action. The higher the rating the greater the need for you to act.

The FDR is an assessment of the potential fire behaviour, the difficulty of suppressing a fire, and the potential impact on the community should a bushfire occur on a given day.

A Fire Danger Index (FDI) of 'low-moderate' means that fire will burn slowly and that it will be easily controlled, whereas a FDI in excess of 'catastrophic 100+' means that fire will burn so fast and so hot that it will be uncontrollable.

CATASTROPHIC 100+

A fire with a rating of 'catastrophic' may be uncontrollable, unpredictable and fast moving. The flames will be higher than roof tops. Many people will be injured and many homes and businesses will be destroyed.

During a 'catastrophic' fire, well-prepared and constructed homes will not be safe. Leaving is the only option for your survival.

EXTREME 75-99

A fire with an 'extreme' rating may be uncontrollable, unpredictable and fast moving. The flames will be higher than roof tops. During an 'extreme' fire, people will be injured and homes and businesses will be destroyed.

During an 'extreme' fire, well-prepared and well-constructed homes may not be safe. Leaving is the only option for your survival.

SEVERE 50-74

A fire with a 'severe' rating may be uncontrollable and move quickly, with flames that may be higher than roof tops. A 'severe' fire may cause injuries and some homes or businesses will be destroyed.

During a fire with a 'severe' rating, leaving is the safest option for your survival. Use your home as a place of safety only if it is well-prepared and well-constructed.

VERY HIGH 25-49

A fire with a 'very high' danger rating is a fire that can be difficult to control with flames that may burn into the tree tops. During a fire of this type some homes and businesses may be damaged or destroyed.

During a fire with a 'very high' danger rating, you should use your home as a place of safety only if it is well prepared and well-constructed.

HIGH 12-24

A fire with a 'high' danger rating is a fire that can be controlled where loss of life is unlikely and damage to property will be limited.

During a fire with a 'high' danger rating, you should know where to get more information and monitor the situation for any changes.

LOW-MODERATE 0-11

A fire with a 'low to moderate' rating can be easily controlled and pose little/or no risk to life or property.

During a fire with a 'low to moderate' rating, you should know where to get more information and monitor the situation for any changes.

BUSHFIRE SURVIVAL PLAN

Complete your personalised Bushfire Survival Plan lift-out.

Personal deta	ils:	
Important phone numbe	rs: 000 (Fire, Police and Ambulance)	
Family:	Family:	Family:
Work:	Friends:	Friends:
School:		
Important cor	ntact details – name and	phone number:
Insurer:	Policy Number:	Phone:
Electricity:		Phone:
Water:		Phone:
Gas:		Phone:
Phone Company:		Phone:
Council:	Phone:	
Leave early: List all names and conta Section 1. Names:	ct phone numbers of household members wl	no have decided to leave early then complete
- Italiiesi		
Phone:		
Stay: List all names and conta	ct phone numbers of household members wl	no have decided to stay, then complete Section 2.
Names:		

Phone:

Leave early – Section 1

Pull this Bushfire Survival Plan lift-out from this document and keep in a safe place.

Leaving early will always be the safest option for you and your family. It is extremely important for you to prepare a detailed leave early plan to ensure everyone understands what to do and when. Use the boxes below to list tasks to do.

When to go — Think of different triggers that will cause you and your family to leave early. — Think about what you will do if you have sent the children to school that day. Think about whether or not you will have to travel from work into the fire zone.	
Where to go — Identify one or more safer locations. Consider putting on personal protective clothing before you leave home.	
How to get there — What roads will you take to your destination? Have an alternative route if your first choice is impassable.	

What to take – Make a list of your most valuable items (e.g. insurance papers, electronic records, photo albums, passports, birth certificates and other important documents).

Stay – Section 2

As the fire approaches – Prepare for ember attack on or near your home. Remember to put on personal protective clothing. — As the fire front arrives – Stay safe by monitoring the fire from inside your home. — After the fire has passed – Patrol your property and extinguish any spot fires or burning embers. You may need to keep this up for several hours. Veryone must have a contingency plan ave a contingency plan – what will you do if you can't activate your Bushfire Survival Plan? Remember that le te can lead to loss of lives.	
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— As the fire approaches – Prepare for ember attack on or near your home. ————————————————————————————————————	
— Before the fire approaches – Start getting yourself and your property ready for a bushfire.	

Anyone who is not going to leave early must be involved in completing this stay and defend plan to ensure they

ACTIVATING YOUR BUSHFIRE SURVIVAL PLAN

Once you have prepared your Bushfire Survival Plan and completed your preparations, it is absolutely essential that you regularly practise and review your plan. This will make sure you and your family are well organised in the event of a bushfire. If a bushfire threatens the health and safety of you, your family, home or property, you should follow these steps:

Step 1 - Activate your Bushfire Survival Plan

Someone must take charge and lead other family members through this emotional experience by carefully communicating the various tasks set out in the plan. Know who is going to leave early and who is going to stay.

Step 2 - Put on your personal protective clothing

Every member of the family must change into their personal protective clothing, including long pants, long-sleeve-shirt and closed-in shoes.

Step 3A - Pack your vehicle and leave early

If your plan is to leave early, pack all valuables in your vehicle (see Relocation Kit) and relocate to your designated safer location. Give yourself enough time to get you and your family to safety. Don't return home until it is safe to do so.

Step3B - Implement your strategy to stay and defend

If your plan is to stay ensure you have all the items in the Bushfire Survival Kit ready to go. This can be a dangerous option and you should be physically and mentally prepared.

Step 4 - Keep informed of bushfire activity

Listen to the radio, television, internet, firefighters and/or police for information on the fire in your local area. Bushfire is dynamic and unpredictable so you need to be prepared for the unexpected. Warnings are not guaranteed so do whatever is necessary to ensure you remain safe.

OR

BUSHFIRE SURVIVAL KIT



RELOCATION KIT

Write a list of all items your family will need before, during and after your relocation. The list below shows items that you might like to put in your relocation kit.

- protective clothing for the whole family
- battery operated radio and spare batteries
- safety goggles
- mobile phone and battery charger
- medications
- wallet or purse and money
- clothing (two sets of clothes for each family member)
- identity information (passports, birth certificates)
- bottled water (enough for each relocated family member)
- family and friends' phone numbers
- items of high importance (e.g. family photos, valuables, important documents)
- blankets (natural fibres)
- children's toys





BUSHFIRE RISK SELF-ASSESSMENT CHECKLIST



This basic self-assessment checklist is designed to give you a greater understanding of the bushfire risk level relevant to your property. Information provided in this assessment will assist you when completing your Bushfire Survival Plan.

Address:		
		Postcode:
Property Owner/Property Name:		
ACCESS/EGRESS Road/Street/Drivewar	y PLEASE√APPROI	PRIATE BOX
Clear of overhanging vegetation	Yes	No
Unrestricted gate access	Yes	No
Clear of overhead power lines	Yes	No
Able to reverse in	Yes	No
Turning/passing areas	Yes	No
Heavy vehicle access on cattle grid/bridge	Yes	No
Alternative way out	Yes	No
Two wheel drive access	Yes	No
STRUCTURE/S		
Exterior walls – non-combustible	Yes	No
Roof ridge capping sealed	Yes	No
Eaves enclosed	Yes	No No
Roofing gutters and valleys clear of leaf litter and fine fuels	Yes	No No
Underfloor enclosed	Yes	No No
Vents screened	Yes	No No
Windows – non-combustible finishing	Yes	No No
Deck/veranda non-combustible	Yes	No No
WATER SUPPLY		
Reticulated water supply	Yes	No
Tank supply with QFRS access – 50mm male camlock fitting so fire figthers can use water if needed	Yes	No
QFRS accessible external open water supply (dam/pool)	Yes	No
Firefighting pump and hose connected to water supply	Yes	No