



# **BUSHFIRE ATTACK LEVEL**

## **FOR FUTURE DWELLINGS**

### **AT STAGE 2I & 2IA BILLY'S LOOKOUT TERALBA**

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#### Disclaimer

*Notwithstanding the precautions adopted within this report, it should always be remembered that bushfires burn under a wide range of conditions. An element of risk, no matter how small always remains, and although the standard is designed to improve the performance of such buildings, there can be no guarantee, because of the variable nature of bushfires, that any one building will withstand bushfire attack on every occasion.*

## Executive Summary

This report provides an assessment of the Bushfire Attack Level (BAL) at Stage 21 & 21A within Billy's Lookout, Teralba in accordance with AS3959 (2009) *Construction of Buildings in Bushfire Prone Areas* Appendix A - Method 1. This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2009 and the addendum to Appendix 3 of Planning PBP 2006 (NSW Rural Fire Service NSW).



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### **Disclaimer:**

*The BALs as depicted within this report and mapping have been determined by management of vegetation to the east and south where land will be cleared for future stages. It should be noted that conditions may change over time that may result in different BALs for the lots.*

*Although every care has been taken in the preparation of this BAL Report, McCloy Teralba and the author accept no responsibility in errors in this report or damaged resulting from the information. It should be noted that upon lodgement of a Development Application (DA) with Council or Rural Fires Service they may recommend additional construction requirements (BALs).*



## Terms & Abbreviations

Abbreviation	Meaning
APZ	Asset Protection Zone
AS2419 -2005	Australian Standard – Fire Hydrant Installations
AS3959-2009	Australian Standard – Construction of Buildings in Bush Fire Prone Areas
BAL	Bushfire Attack Level
BCA	Building Code of Australia
BPA	Bush Fire Prone Area (Also Bushfire Prone Land)
BPL Map	Bush Fire Prone Land Map
BPMs	Bush Fire Protection Measures
<i>EPA Act</i>	<i>NSW Environmental Planning and Assessment Act 1979</i>
FDI	Fire Danger Index
FMP	Fuel Management Plan
ha	hectare
IPA	Inner Protection Area
LMCC	Lake Macquarie City Council
LGA	Local Government Area
OPA	Outer Protection Area
PBP	Planning for Bushfire Protection 2006
RF Act	Rural Fires Act 1997
RF Regulation	Rural Fires Regulation



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# I INTRODUCTION

Firebird ecoSultants Pty Ltd has been engaged by Teralba McCloys Pty Ltd to undertake a Bushfire Attack Level (BAL) report for Stages 21 & 21A at Billy's Lookout, Teralba hereafter referred to as the "site". Refer to Appendix A for Sales Plan.

This BAL report assess the application of Australian Standard AS3959-2009 'Construction of Buildings on Bushfire Prone Land' and Appendix 3 of Planning for Bushfire Protection 2006 (PBP, 2006). AS3959 (2009) Appendix A – Method 1 has been used in this assessment.

This report has been prepared to provide guidance to prospective purchasers of what Bushfire Attack Levels (BALs) may be required for future dwellings within the site.

## I.1 Site Particulars

<b>Locality:</b>	Stages 21 & 21A at Billy's Lookout, Teralba
<b>LGA:</b>	Lake Macquarie City Council (LMCC)
<b>Forest Danger Index:</b>	100
<b>Current Land Use:</b>	Approved subdivision



## 2 METHODOLOGY

The Australian Standard for assessing the BAL and providing the detailed requirements for construction has been reviewed and amended with the latest version being adopted for use in bushfire prone areas of NSW in May 2010. This version is titled AS 3959-2009 'Construction of Buildings in Bushfire Prone Areas' (standards Australia 2009, incorporating amendment 1 (November 2009) and amendment 2 (February 2011), with amendment 2 being used in this assessment.

In addition, the NSW method of determining the bushfire attack level, found in Appendix 3 of the document 'Planning for Bushfire Protection 2006' (NSW Rural Fire Service 2006) has also been reviewed and amended to come into line with the process within AS 3959. Therefore, in NSW the methodology with AS 3959 is to be used to determine the bushfire attack level. AS3959 (2009) Appendix A – Method 1 has been used in this BAL assessment.

### 2.1 Vegetation Assessment

Vegetation surveys and vegetation mapping carried out on the site has been undertaken as follows:

- Aerial Photograph Interpretation to map vegetation cover and extent.
- Confirmation of the vegetation assemblage typology present via a site inspection.

### 2.2 Slope Assessment

Slope assessment has been undertaken as follows:

- Aerial Photograph Interpretation in conjunction with analysis of electronic contour maps with a contour interval of 10m.
- On site confirmation of slope measurements.



## 3 SITE ASSESSMENT

A site inspection was undertaken on the site. The following assessment has been undertaken in accordance with the requirements of PBP (RFS, 2006) and AS3959-2009.

### 3.1 Vegetation and Slope Assessment

An assessment of the slope affecting the bushfire behaviour was undertaken for a distance of 100m from the edge of the lot boundaries in the direction of the bushfire hazard. The slopes leading away from the site have been evaluated to identify both the average slope and by identifying the maximum slope present. These values help determine the level of gradient which will most significantly influence the fire behaviour of the site. Refer to Table 1 for Vegetation and Slope Assessment.

**Table 1 –Vegetation & Slope Assessment**

<b>Direction from Site</b>	<b>Vegetation Classification</b>	<b>Effective Slope</b>
North	Residential Development	N/A
East	Residential Development	N/A
South	Vegetation classified as open forest occurs greater than 43 m away from the site	Downslope >0-5 degrees
West	Vegetation classified as open forest occurs greater than 43 m away from the site	Downslope >0-5 degrees





## 4 BUSHFIRE ATTACK ASSESSMENT

### 4.1 Bushfire Attack Assessment

To determine the bush fire attack and required Bushfire Attack Level (BAL) for the proposed subdivision the following steps were followed:

1. Determination of the vegetation types within 100m of the site, as assessed in section 3 of this report.
2. Determination of the distance between the vegetation and future dwellings has been assessed in section 4.2 of this report.
3. Determination of the effective slope as assessed in section 3 of this report.
4. A FDI of 100 was determined for LMCC LGA.

### 4.2 Determination of Bushfire Attack Levels

The results from the above steps were used to calculate the required BAL in accordance with Method 1 of AS 3959 – 2009.

The results from this bush fire attack assessment are detailed below in Table 4-1– Bushfire Attack Level (BAL) Assessment and Figure 4-1 Bushfire Attack Level Map.

**Table 4-1: Bushfire Attack Level Assessment**

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
Lot 81	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 82	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 83	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 84	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2101	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2102	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
					A3.7 of PBP Addendum Appendix 3
Lot 2103	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2104	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2105	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2106	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
					3
Lot 2107	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2108	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2109	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2110	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3



Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
Lot 2111	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2112	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2113	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2114	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2115	Open Forest to the west &	Downslope >0-5	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect



Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
	south	degrees			A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2116	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2117	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2118	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2119	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
					3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2120	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2121	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2122	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2123	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3

Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2124	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2125	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2126	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
Lot 2127	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect



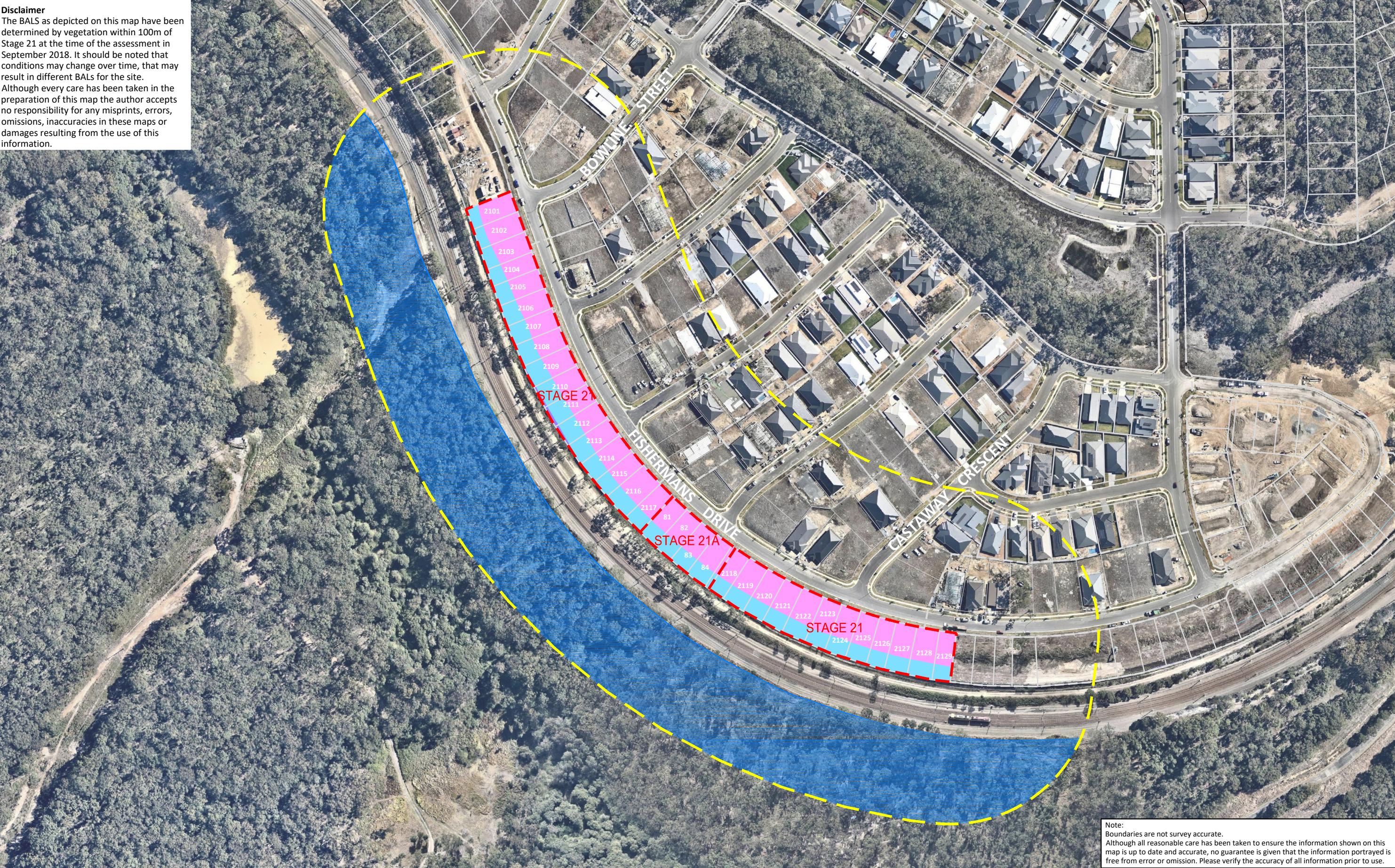
Lot Number	Vegetation Type within 100m & Direction from future dwellings	Average Slope of Land (degrees)	Separation Distance from Identified Vegetation	Bushfire Attack Level (BAL)	Construction Section
					A3.7 of PBP Addendum Appendix 3
Lot 2129	Open Forest to the west & south	Downslope >0-5 degrees	43-<57m	BAL-19	Sect 3 & 7 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3
			57-<100m	BAL-12.5	Sect 3 & 6 of AS3959 and Sect A3.7 of PBP Addendum Appendix 3

\*To Note: The construction requirements for the next lower BAL than that determined for the site may be applied to an elevation of the building where the elevation is not exposed to the source of the bushfire attack. An elevation is deemed to be not exposed to the source of bushfire attack if all the straight lines between that elevation and the source of bushfire attack are obstructed by another part of the building. However, this does not apply to BAL-12.

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Building location and design will influence the application of the required BALs. For example, a lot indicated as being affected by BAL-29 may have those facades that are not exposed to the bushfire threat constructed to a lower BAL (i.e. BAL-19), reducing the costs of construction and providing more flexibility in choice of external building materials. Refer to Appendix B for Summary of AS3959-2009 Construction Standards and Appendix C for Additional Building Requirements.



**Disclaimer**  
The BALS as depicted on this map have been determined by vegetation within 100m of Stage 21 at the time of the assessment in September 2018. It should be noted that conditions may change over time, that may result in different BALS for the site.  
Although every care has been taken in the preparation of this map the author accepts no responsibility for any misprints, errors, omissions, inaccuracies in these maps or damages resulting from the use of this information.



Note:  
Boundaries are not survey accurate.  
Although all reasonable care has been taken to ensure the information shown on this map is up to date and accurate, no guarantee is given that the information portrayed is free from error or omission. Please verify the accuracy of all information prior to use.

FIGURE 4-1: BUSHFIRE ATTACK LEVELS MAP

CLIENT  
SITE DETAILS  
DATE

McCloy Pty Ltd  
Stages 21 & 21A Teralba  
23 October 2019

**Legend**

- Subject Site
- 100m Buffer
- Open Forest
- BAL 29
- BAL 19
- BAL 12.5



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## 5 CONCLUSION

This report provides an assessment of the Bushfire Attack Level (BAL) in accordance with AS3959-2009 Construction of Buildings in Bushfire Prone Areas for Stages 21 & 21A at Billy's Lookout, Teralba.

This BAL report assess the application of Australian Standard AS3959-2009 'Construction of Buildings in Bushfire Prone Land' and Appendix 3 of Planning for Bushfire Protection 2006 (PBP, 2006).

This report and mapping are not to be used to place wholesale restrictions on lots reflecting the resulting BAL mapping presented within. Future development of surrounding stages may result in lower BALs than detailed in this report.

This BAL report has shown that any future dwellings within the site will be able to meet the requirements of both AS3959-2009 and the addendum to Appendix 3 of Planning PBP 2006 (NSW Rural Fire Service NSW).



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### ***Disclaimer:***

The BALs as depicted within this report and mapping have been determined by vegetation within 100m of Stage 21 and 21A at the time of the assessment October 2019. It should be noted that conditions may change over time that may result in different BALs for the lots.



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