# Bushfire Assessment Report

Proposed:
Alterations &
Additions

At:
24 The Serpentine,
Bilgola Beach NSW

Reference Number: 201372

Prepared For:
Marian Welsh
C/- Fluid Building

7<sup>th</sup> May 2020



Tel: (02) 9457 6530 Fax: (02) 9457 6532

PO Box 124 Berowra NSW 2081 ABN 19 057 337 774





www.bushfirehazardsolutions.com.au

# **Contents**

|         |  | Page No |
|---------|--|---------|
| Соруг   | right and Disclaimer                         | 2       |
| List of | f Abbreviations                              | 3       |
| 1.0     | Introduction                                 | 4       |
| 2.0     | Purpose of Report                            | 4       |
| 3.0     | Scope of Report                              | 4       |
| 4.0     | Referenced Documents and Persons             | 4       |
| 5.0     | Compliance Table and Notes                   | 5 - 6   |
| 6.0     | Aerial view of the subject allotment         | 7       |
| 7.0     | Bushfire Hazard Assessment                   | 8 - 13  |
| 8.0     | Site and Bushfire Hazard Determination       | 14 - 15 |
| 9.0     | Recommendations                              | 16      |
| 10.0    | Conclusion                                   | 17      |
| 11.0    | Annexure                                     | 18      |
| -       | List of referenced documents and attachments |         |
| _       | Attachments                                  |         |

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S4.14 applications (under the Environmental Planning and Assessment Act 1979) and all infill development applications <u>may</u> be referred by Council to the NSW Rural Fire Service for review and concurrence during the DA process. S100B applications under the Rural Fires Act 1997 (subdivisions and Special Fire Protection Purpose Developments), Flame Zone determinations and Alternate Solutions <u>must</u> be referred by Council to the NSW Rural Fire Service for review and receipt of a Bushfire Safety Authority (BSA) or other such recommended conditions from the NSW Rural Fire Service before the consent can be granted.

The onus is on the applicant to cross reference this document with any conditions of consent issued by Council or any requirements supplied by the NSW Rural Fire Service following development approval. BCBHS can review and cross reference these documents however the onus is on the applicant to provide them to us and request this review – Building Code and Bushfire Hazard Solutions Pty. Ltd. is not in a position to track every DA through Council and we rely upon the applicant to undertake this role as project co-ordinator.

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| Version Control |           |               |   |              |
|-----------------|-----------|---------------|---|--------------|
| Version         | Date      | Author        | Reviewed by                                     | Details      |
| 1               | 7/05/2020 | Duncan Armour | Stuart McMonnies<br>BPAD Accreditation No. 9400 | Final Report |

# **List of Abbreviations:**

APZ Asset Protection Zone

AS3959 Australian Standard 3959 – 2018

BAL Bushfire Attack Level

BPMs Bushfire Protection Measures

BPLM Bushfire Prone Land Map

Council Northern Beaches Council

DA Development Application

ELVIS Elevation and Depth Foundation Spatial Data

EP&A Act Environmental Planning and Assessment Act - 1979

ESD Ecologically Sustainable Development

FRNSW Fire and Rescue NSW

IPA Inner Protection Area

NASH National Association of Steel-framed Housing

NCC National Construction Code

NP National Park

NSP Neighbourhood Safer Place

OPA Outer Protection Area

PBP Planning for Bush Fire Protection – November 2019

ROW Right of Way

RF Act Rural Fires Act - 1997

RFS NSW Rural Fire Service

SEPP State Environmental Planning Policy

SFPP Special Fire Protection Purpose

SWS Static Water Supply

## 1.0 Introduction

The development proposal relates to alterations and additions within an existing residential allotment located at 24 The Serpentine, Bilgola Beach (Lot 114 DP 16393).

The subject property is a residential allotment which has street frontage to The Serpentine to the north, abuts private allotments to the east and west and Marine Park to the west. The vegetation identified as being the hazard is within road reserves and vegetated allotments along Barrenjoey Road to the west of the subject property.

Northern Beaches Council's Bushfire Prone Land Map identifies the subject property as containing the 100 metre buffer zone from Category 1 Vegetation therefore the application of Planning for Bush Fire Protection - 2019 (PBP) must apply in this instance.

# 2.0 Purpose of Report

The purpose of this Bushfire Assessment Report is to provide the owners, The Rural Fire Service and Council with an independent bushfire hazard determination together with appropriate recommendations for both new building construction and bushfire mitigation measures considered necessary having regard to construction within a designated 'bushfire prone' area.

The recommendations contained within this report may assist in forming the basis of any specific construction conditions and/or bushfire mitigation measures that Council and/or the NSW Rural Fire Service may elect to place within any consent conditions issued for the subject Development Application.

# 3.0 Scope of this Report

The scope of this report is limited to providing a bushfire hazard assessment and recommendations for the subject property. Where reference has been made to the surrounding lands, this report does not purport to directly assess those lands; rather it may discuss bushfire impact and/or progression through those lands and possible bushfire impact to the subject property.

Where Council considers a bushfire risk is associated with surrounding private lands or lands owned by an authority, Council could seek to issue notice under Section 66 of the Rural Fires Act on any or all surrounding properties for the purposes of reducing and maintaining safe levels of vegetation and thus reducing the possibility of bushfire impact to the subject property and any adjoining properties.

#### 4.0 Referenced Documents and Persons

Comments provided are based on the requirements of the NSW Environmental Planning and Assessment Act - 1979 (EP&A Act), the RFS document known as 'Planning for Bush Fire Protection – 2019' for the purposes of bushfire hazard determination and Australian Standard 3959 – 2018 titled 'Construction of buildings in bushfire-prone areas' as amended for building/structural provisions.

A company representative has undertaken a site inspection of the subject property and the surrounding area.

The site plan prepared by Ian Sercombe Architect, Project No. 20616, Dated 7/5/2020 has been referenced in the preparation of this report.

# 5.0 Compliance Tables & Notes

The following table sets out the projects compliance with *Planning for Bush Fire Protection – 2019*.

|  | North                    | East  | South   | West  |
|--|--------------------------|---|---|---|
| Vegetation<br>Structure                  | Maintained<br>curtilages | Maintained curtilages                             | Maintained<br>curtilages                            | Remnant   |
| Slope                                    | N/A                      | N/A   | N/A   | 0 degrees & up                                    |
| Asset Protection Zone                    | N/A                      | N/A   | N/A   | >50 metres  |
| Significant<br>Environmental<br>Features | The Serpentine           | Neighbouring<br>private residential<br>allotments | Stairs to beach<br>through Low<br>threat vegetation | Neighbouring<br>private residential<br>allotments |
| Threatened Species                       | APZ<br>Existing          | APZ<br>Existing                                   | APZ<br>Existing                                     | APZ<br>Existing                                   |
| Aboriginal Relics                        | APZ<br>Existing          | APZ<br>Existing                                   | APZ<br>Existing                                     | APZ<br>Existing                                   |
| Bushfire Attack<br>Level                 | N/A                      | N/A   | N/A   | BAL 12.5  |
| Required Construction Level              | BAL 12.5                 | BAL 12.5  | BAL 12.5  | BAL 12.5  |

| Compliance Summary of Bushfire Protection Measures Assessed |                        |                         |                |
|---|------------------------|-------------------------|----------------|
| Bushfire Protection<br>Measure                              | Acceptable<br>Solution | Performance<br>Solution | Report Section |
| Asset Protection Zones                                      | $\boxtimes$            |                         | 7.05           |
| Construction<br>Standard                                    | $\boxtimes$            |                         | 8.05           |
| Access  |                        |                         | 7.06           |
| Water Supply  | $\boxtimes$            |                         | 7.07           |
| Gas and Electrical<br>Supplies                              | $\boxtimes$            |                         | 5.0            |

# **Asset Protection Zones Compliance**

The available Asset Protection Zone (APZ) was measured to be >50 metres from the hazard interface to the west. The APZ consist of grounds within the subject property and land equivalent to an APZ within neighbouring residential allotments, The Serpentine and Barrenjoey Road.

# **Construction Level Compliance**

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP-2019 to be 'BAL 12.5'. The proposed works are therefore required to comply with BAL 12.5 under section 3 and 5 of AS 3959 - 2018 and the additional construction requirements under section 7.5 of PBP 2019.

#### **Access and Services**

| Guideline Ref.                | Proposed Development Determinations   |
|-------------------------------|---|
| Property Access<br>(Driveway) | The most distant external point of the subject dwelling will be within 70 metres of a public road supporting a hydrant network and therefore the Property Access requirements detailed in Table 7.4a of PBP are not applicable.   |
| Water Supply                  | The most distant external point of the building footprint will be within 70 metres from a public road supporting a hydrant network and therefore a Static Water Supply is <u>not</u> required.  |
| Evacuation                    | Evacuation is possible by utilising existing road infrastructure. It is encouraged that the occupants complete a Bush Fire Survival Plan addressing "Prepare, Act Survive" as advocated by the NSW RFS http://www.rfs.nsw.gov.au/ under publications / bushfire safety. |
| Electrical Supply             | Existing supply provided.   |
| Gas Supply                    | Gas supply can comply   |

# 6.0 Aerial view of the subject allotment



Image 01: Aerial view of the subject area C/- Nearmap

#### 7.0 Bushfire Hazard Assessment

#### 7.01 Preface

Properties considered to be affected by possible bushfire impact are determined from the local Bushfire Prone Land Map as prepared by Council and or the Rural Fire Service. All property development within affected areas is subject to the conditions detailed in the document 'Planning for Bush Fire Protection - 2019' (PBP). Set back distances for the purpose of creating Asset Protection Zones (APZ's) must be applied and any buildings must then conform to corresponding regulations detailed in Australian Standard 3959 – 2018 'Construction of buildings in bushfire prone areas' or the NASH Standard for steel framed housing in bushfire prone areas 2014.

*Planning for Bush Fire Protection* 2019, (PBP) formally adopted on the 1<sup>st</sup> March 2020 provides for the protection of property and life (including fire-fighters and emergency service personnel) from bushfire impact.

The thrust of the document is to ensure that developers of new properties or sub-divisions include the constraints associated with the construction of buildings in bushfire prone areas within their proposed development sites. PBP is applicable to proposed development inside determined Category 1 or 2 areas and also inside a buffer zone radius of 100m from a Category 1 bushfire area or 30m from a Category 2 bushfire area.

The document also acknowledges 'infill' developments associated with re-development of existing properties and allows some higher levels of building safety where the increased 'set backs' (APZ's) may not be achievable.

The subject development relates to the alterations and additions of a sole occupancy dwelling within an existing residential allotment. To accord with PBP the development is classified as infill development and assessed as a s4.14 application under the Environmental Planning and Assessment Act 1979.

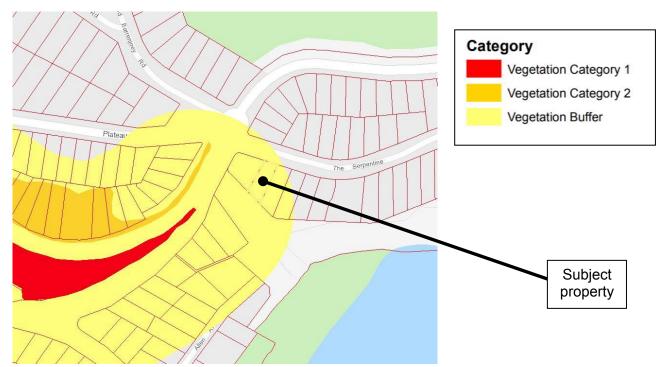


Image 02: Extract from Northern Beaches Council's Bushfire Prone Land Map

#### 7.02 Location

The subject property is known as 24 The Serpentine, Bilgola Beach and is a residential allotment located within Northern Beaches Councils Local Government Area. The subject property has street frontage to The Serpentine to the north, abuts private allotments to the east and west and Marine Park to the west.

The vegetation identified as being the hazard is within road reserves and vegetated allotments along Barrenjoey Road to the west of the subject property.



Photograph 01: View southeast from The Serpentine toward the subject property

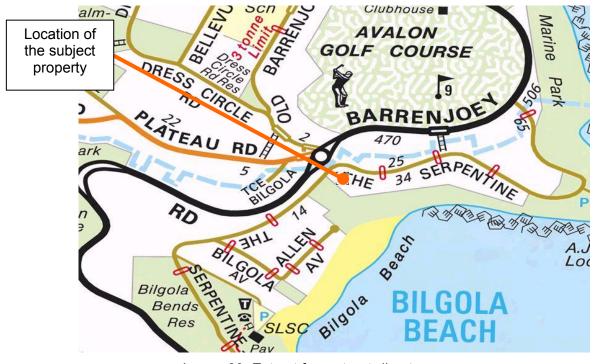


Image 03: Extract from street-directory.com.au

# 7.03 Vegetation

The vegetation identified as being the hazard is within road reserves and vegetated allotments along Barrenjoey Road to the west of the subject property. The vegetation posing a hazard to the west was found to consist of trees 5 - 20 metres in height with 30 - 70% foliage cover, the understorey consisted of exotics, low trees and ferns.

The vegetation was measured and found to provide a less than 50 metre fire run toward the subject works, therefore for the purposes of assessment under Appendix 1 (A1.11) of Planning for Bush Fire Protection the vegetation posing a hazard to the west has been determined to be Remnant.

The vegetation within Marine Park to the south and west of the subject property was found to consist of areas lantana, figs, weeds and grasses and is broken into small areas by paths, stairs and mown areas.

Section A1.10 of PBP – Low Threat Vegetation states:

The following exclusions of AS 3959 apply, and are not required to be considered for the purposes of PBP, as detailed below:

Multiple areas of vegetation less than 0.25 hectares in area and not within 20m of the site, or each other or of other areas of vegetation being classified vegetation.

Therefore the vegetation in Marine Park has not been considered a hazard, this is reflected in the Bushfire Prone Land Map and vegetation mapping which classes the vegetation as 'Weeds and Exotics'.



Image 04: Extract from Sydney Metro Mapping showing vegetation classification



Photograph 02: View of the vegetation within Marine Park west of the subject property



Photograph 03: View of the vegetation within Marine Park south of the subject property

# 7.04 Slope and Topography

The slope that would most significantly influence bushfire behaviour must be assessed for a distance of 100 metres from within the hazard. The most significant bushfire impact from the west is expected to be a bushfire travelling up slope away from the subject property.

The slope that would **most significantly** influence bushfire impact was determined onsite using an inclinometer and verified from topographic imagery to be:

O degrees and up slope within the hazard to the west



Image 04: Extract from ELVIS – Geoscience Australia (1m Contours)

#### 7.05 Asset Protection Zones

The subject property is a residential allotment located in an area of similar properties. The vegetation identified as being the hazard is within road reserves and vegetated allotments along Barrenjoey Road to the west of the subject property.

The available Asset Protection Zone (APZ) was measured to be >50 metres from the hazard interface to the west. The APZ consist of grounds within the subject property and land equivalent to an APZ within neighbouring residential allotments, The Serpentine and Barrenjoey Road.

All APZ within the subject property are to be maintained in accordance with an Asset Protection Zone (IPA) as detailed in the NSW Rural Fire Service's document 'Standards for Asset Protection Zones'.



Photograph 04: View west along The Serpentine and Barrenjoey Rd toward the Remnant hazards

# 7.06 Property Access – Fire Services & Evacuation

The subject property has street frontage to The Serpentine to the north. Persons seeking to egress from the subject property are able to do so via the existing access drive and public roads.

The most distant external point of the proposed footprint is less than 70 metres from a public road supporting the operational use of fire fighting vehicles and therefore the Property Access requirements detailed in Table 7.4a of PBP 2019 are not applicable.

Access to the hazard is available via The Serpentine and Barrenjoey Road for hazard reduction for fire suppression activities. The existing access is considered adequate as part of this development

# 7.07 Fire Fighting Water Supply

Hydrants are available throughout The Serpentine and Barrenjoey Road for the replenishment of fire service vehicles. The most distant external point of the subject dwelling is within 70 metres of a public road that supporting a hydrant network and therefore a Static Water Supply is not required.

The existing water supply is considered adequate and is not being altered as part of this development.

## 8.0 Site & Bushfire Hazard Determination

# 8.01 Planning for Bush Fire Protection - 2019

Planning for Bush Fire Protection – 2019 (PBP) is applicable to those lands determined as being within a 'bushfire prone area' in accordance with a local Bushfire Prone Land Map as provided by the Rural Fire Service and Council.

The most appropriate method of determining site bushfire hazard under the terms of PBP is to consider the site in a singular form.

Bushfire prone areas are defined as those areas;

- within or within 100m of high or medium bushfire hazards; or
- within or within 30m of low bushfire hazards.

In this instance the subject property has been identified as being bushfire prone land therefore it is appropriate to apply PBP as follows:

#### Western Aspect:

- a) Vegetation Structure Remnant
- b) Slope 0 degrees & up
- c) A >50 metre Asset Protection Zones is available
- d) The Bushfire Attack Level was determined to be 'BAL 12.5'

# 8.02 Australian Standard AS 3959 – 2018 'Construction of buildings in bushfire –prone areas'

Australian Standard 3959 – 2018 'Construction of buildings in bushfire-prone areas' provides for six (6) levels of building construction these being BAL - Low, BAL - 12.5, BAL - 19, BAL - 29, BAL - 40 and BAL - FZ. The Australian Standard 3959 specifies construction standards for buildings within various Bushfire Attack Levels as determined by the Planning for Bush Fire Protection – 2019 document. The NSW Rural Fire Service will not accept deemed to satisfy provisions for BAL Flame Zone and therefore have a NSW variation to the listed standard provisions of BAL FZ under AS3959 - 2018.

# 8.03 Correlation between bushfire impact and AS3959

| Bushfire Attack<br>Level | Maximum radiant heat impact (kW/m²) | Level of construction under AS3959-2018 |
|--------------------------|-------------------------------------|---|
| Low                      |                                     | No special construction requirements    |
| 12.5                     | ≤12.5                               | BAL - 12.5                              |
| 19                       | 12.6 to 19.0                        | BAL - 19                                |
| 29                       | 19.1 to 29.0                        | BAL - 29                                |
| 40                       | 29.1 to 40.0                        | BAL - 40                                |
| Flame Zone               | >40.0                               | BAL FZ No deemed to satisfy provisions  |

# 8.04 Site Specific Bushfire Hazard Determination

All property development must be assessed on an individual basis as broad-brush approaches of documents such as PBP may not be applicable in every instance. The proposed development located at 24 The Serpentine, Bilgola Beach was assessed against the requirements of Planning for Bush Fire Protection 2019 noting the following:

- a) Water supplies for firefighting purposes are adequate.
- b) Access to the subject property is available from The Serpentine.
- c) Fire services can access the hazard via The Serpentine and Barrenjoey Road.
- d) Recommendations to maintain the Asset Protection Zones with in the subject property will be included.

#### 8.05 Viable Construction Method

The objectives of Planning for Bush Fire Protection – 2019 are for the protection of life including fire fighters. Provided these objectives can be met the construction of buildings is feasible and both the Rural Fire Service and Council should be in a position to consider such applications.

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP - 2019 to be to be 'BAL 12.5'. The new works are therefore required to comply with BAL 12.5 under AS3959 – 2018 and section 7.15 of PBP 2019.

#### 9.0 Recommendations

The following recommendations are provided as the minimum necessary for compliance with Planning for Bush Fire Protection – 2019 and Australian Standard 3959 'Construction of buildings in bushfire-prone areas - 2018. Additional recommendations are provided to supplement these minimum requirements where considered necessary.

#### **Asset Protection Zones**

1. That all grounds within the subject property are to be maintained as an Asset Protection Zone (Inner Protection Area) as detailed in the NSW Rural Fire Service's document 'Standards for Asset Protection Zones' and Appendix 4 of *Planning for Bush Fire Protection* 2019.

#### Construction

2. That the proposed works shall comply with BAL 12.5 under Australian Standard A53959-2018 "Construction of buildings in bush fire-prone areas" Section 5 and section 7.5 of "Planning for Bush Fire Protection" 2019.

# Landscaping

3. That any new landscaping is to comply with Section 3.7 'Landscaping' under *Planning for Bush Fire Protection* 2019.

### 10.0 Conclusion

Given that the property is deemed bushfire prone under Northern Beaches Council's Bushfire Prone Land Map any development would need to meet the requirements of Planning for Bush Fire Protection – 2019 and of the construction requirements of AS3959 – 2018. The determination of any bushfire hazard must be made on a site-specific basis that includes an assessment of the local bushland area and its possible impact to the subject property.

The subject property is a residential allotment within an area of similar properties. The vegetation identified as being the hazard is within road reserves and vegetated allotments along Barrenjoey Road to the west of the subject property. The vegetation posing a hazard was determined to be Remnant. The proposed works will provide a >50 metre Asset Protection Zone (APZ).

The highest Bushfire Attack Level to the proposed works was determined from Table A1.12.5 of PBP - 2019 to be to be 'BAL 12.5'. The new works are therefore required to comply with BAL 12.5 under AS3959 – 2018 and section 7.5 of PBP 2019.

The existing water supply and access provisions are considered adequate and will not be altered as part of this development.

In accordance with the bushfire safety measures contained in this report, and consideration of the site specific bushfire risk assessment it is our opinion that when combined, they will provide a reasonable and satisfactory level of bushfire protection to the subject development.

We are therefore in support of the development application. Should you have any enquiries regarding this project please contact me at our office.

Prepared by Building Code & Bushfire Hazard Solutions

Reviewed and endorsed by Building Code & Bushfire Hazard Solutions P/L

Duncan Armour

Stuart McMonnies

G. D. Design in Bushfire Prone Areas. Certificate IV Fire Technology FPA Australia BPAD Level 3 Accredited Practitioner BPAD Accreditation No. BPAD9400



## **11.0 Annexure 01**

### **List of Referenced Documents**

- a) Environmental Planning and Assessment Act 1979
- b) 'Planning for Bush Fire Protection'- 2019 NSW Rural Fire Services & Planning NSW
- c) 'Construction of buildings in bushfire prone areas' AS 3959 2018 (as amended) Standards Australia
- d) 'Northern Beaches Council's Bushfire Prone Land Map'
- e) Site plan prepared by Ian Sercombe Architect, Project No. 20616, Dated 7/5/2020
- f) Acknowledgements to:

NSW Department of Lands – SIXMaps Street-directory.com.au Geoscience Australia

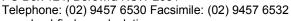
#### **Attachments**

Attachment 01: s4.14 Compliance Certificate



# **Building Code & Bushfire Hazard Solutions**

(Pty. Limited) ABN 19 057 337 774 PO Box 124, Berowra NSW 2081 Telephone: (02) 9457 6530 Facsimile: (03)







# BUSHFIRE RISK ASSESSMENT CERTIFICATE UNDER PART 4 DIVISION 4.3 SECTION 4.14 OF THE EP&A ACT 1979 NO 203

| PROPERTY ADDRESS:                                      | 24 The Serpentine, Bigloa Beach   |  |  |
|--|---|--|--|
| DESCRIPTION OF PROPOSAL:                               | Alterations and Additions   |  |  |
| PLAN REFERENCE:<br>(relied upon in report preparation) | Site plan prepared by Ian Sercombe Architect, Project No. 20616, Dated 7/5/2020                             |  |  |
| BAL RATING:  | BAL 12.5  (If the BAL rating is FZ the application is to be referred to NSW RFS for assessment)             |  |  |
| DOES THE PROPOSAL RELY ON ALTERNATE SOLUTIONS:         | YES NO (Circle the relevant response)  (If YES the application is to be referred to NSW RFS for assessment) |  |  |
| BUSHFIRE ASSESSMENT REPORT REFERENCE:                  | 201372  |  |  |
| REPORT DATE:   | 7 <sup>th</sup> May 2020  |  |  |
| CERTIFICATION NO/ACCREDITED SCHEME                     | BPAD9400  |  |  |

I Stuart McMonnies of Building Code and Bushfire Hazard Solutions Pty Ltd hereby certify, in accordance with Part 4 Division 4.3 Section 4.14 of the Environmental Planning and Assessment Act 1979 No 203:

- 1. That I am a person recognised by the NSW Rural Fire Service as a qualified consultant in bushfire risk assessment; and
- 2. That subject to the recommendations contained in the Bushfire Risk Assessment Report the proposed development conforms specifications and requirements of the documents entitled *Planning for Bush Fire Protection* prepared by the NSW Rural Fire Service in co-operation with the Department of Planning and any other documents as prescribed by Part 4 Division 4.3 Section 4.14 of the *Environmental Planning and Assessment Act 1979 No 203*.

I am aware that the Bushfire Assessment Report, prepared for the above mentioned site is to be submitted in support of a development application for this site and will be relied upon by Council as the basis for ensuring that the bushfire risk management aspects of the proposed development have been addressed in accordance with *Planning for Bushfire Protection 2019*.

Signature: \_\_\_\_\_ Date: 7<sup>th</sup> May 2020