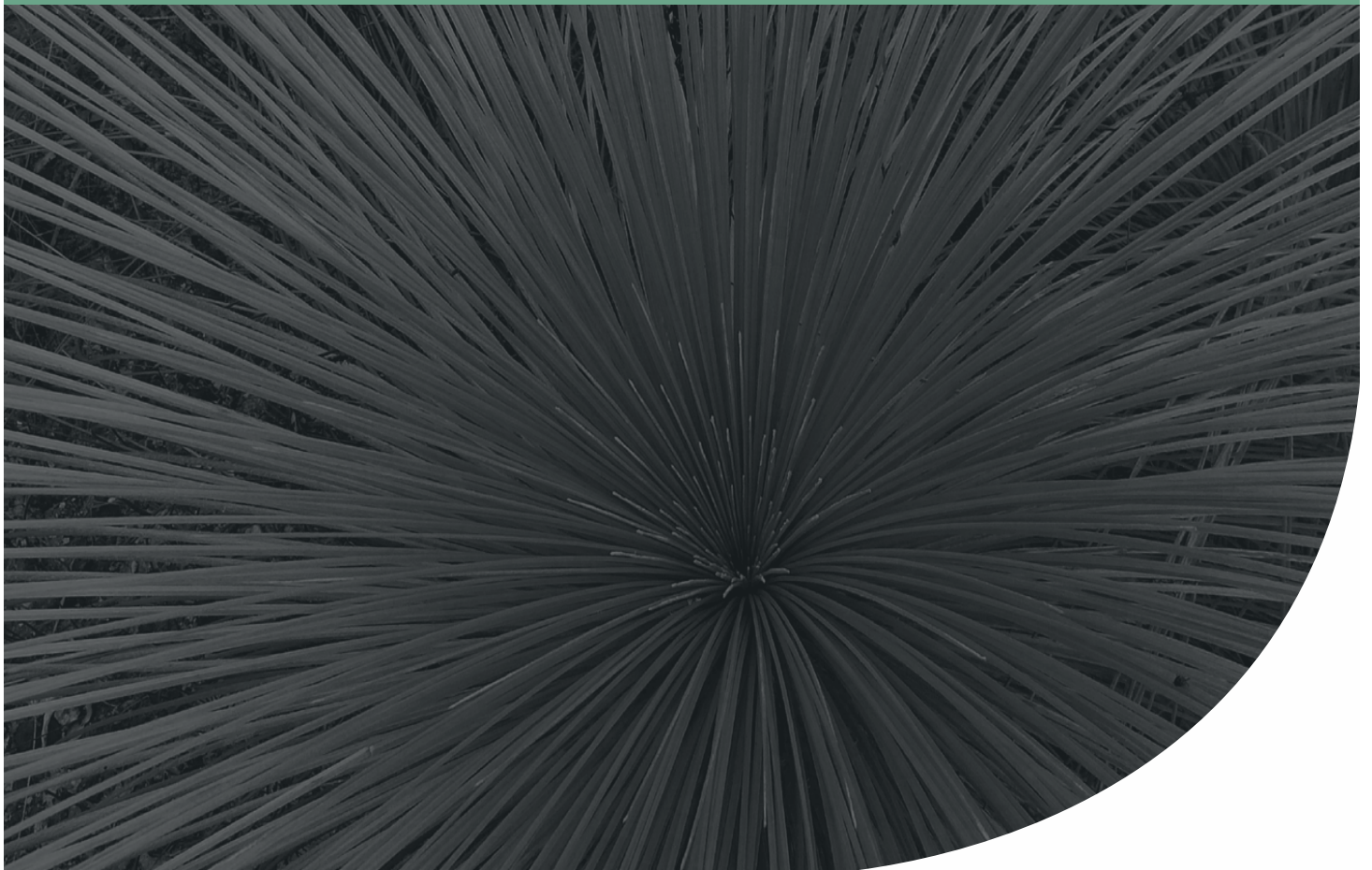


Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

Project No: EP19-105(46)

**Prepared for Hesperia Pty Ltd
September 2024**



Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



Document Control

Doc name:	Bushfire Attack Level Assessment Rivermark Stage One Subdivision Area				
Doc no.:	EP19-105(46)—085a BRB				
Version	Date	Author	Reviewer		
1	February 2022	Bianca Bertelli	BRB	Dana Elphinstone	DAE
	Report issued to client.				
A	September 2024	Connor Porter-Wilkinson	CPW	Kirsten Knox	KK
				Anthony Rowe	AJR
	Site re-inspected for updated certificates. Report issued to client.				

Disclaimer:

This document has been prepared in good faith and is derived from sources believed to be reliable and accurate at the time of publication. Nevertheless, this publication is distributed on the terms and understanding that the author is not responsible for the results of any actions taken based on information in this publication or for any error in or omission from this publication.

The content of this document has been prepared primarily to consider the layout of the development or the appropriate building construction standard, where relevant. The measures outlined are considered to be prudent minimum standards only based on the relevant experience of the author and the standards prescribed by the relevant authorities. The level of implementation of the fire precautions achieved will depend upon the actions of the landowner or occupiers of the land and is not the responsibility of the author. The relevant local government and fire authority (i.e. Department of Fire and Emergency Services or local bushfire brigade) should be approached for guidance on preparing for and responding to a bushfire.

Notwithstanding the precautions adopted in 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. The objective of the Australian Standard AS 3959-2018 is to “prescribe particular construction details for buildings to reduce the risk of ignition from a bushfire while the front passes” (Standards Australia 2018). Building to the standards outlined in AS 3959 does not guarantee a building will survive a bushfire or that lives will not be lost.

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Appendices

Appendix A

BAL Assessment Certificate

Bushfire Attack Level Assessment

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List of Abbreviations

Table A1: Abbreviations – General terms

General terms	
AHD	Australian Height Datum
APZ	Asset Protection Zone
AS 3959	<i>Australian Standard 3959-2018 Construction of buildings in bushfire prone areas</i>
BAL	Bushfire Attack Level
BMP	Bushfire Management Plan
BPAD	Bushfire Planning and Design
CoS	City of Swan
FDI	Fire Danger Index
FZ	Flame Zone

Table A2: Abbreviations – Organisations

Organisations	
DFES	Department of Fire and Emergency Services
OBRM	Office of Bushfire Risk Management
WAPC	Western Australian Planning Commission

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



1 Introduction

1.1 Background

This Bushfire Attack Level (BAL) Assessment has been prepared on behalf of Hesperia Pty Ltd (the proponent) to support the future construction of residential dwellings within Stage 1A and 1B of subdivision approval WAPC 158848 of the proponent's Rivermark residential development. Stages 1A and 1B (herein referred to as the 'site') are located at Winston Crescent, Eveline Road, Harford Avenue and Cranwood Crescent, Viveash in the City of Swan (CoS), as shown in **Figure 1**. The site comprises 44 subdivided residential lots.

A Bushfire Management Plan (BMP) was prepared for the entire subdivision area (Stages 1A, 1B and 2) by Emerge Associates (2019) and approved as part of the subdivision application.

The site is approximately 2 hectares (ha) and is generally bound by the future Bernley Drive and Reg Bond Reserve to the north, Eveline Road and adjacent Midland Brick brickworks to the east, Stage 2 of the subdivision to the south and Cranwood Crescent to the west. The Swan River is located north of Reg Bond Reserve, approximately 150 to 250 m north of the site.

Portions of the site are currently identified as a 'bushfire prone area' under the state-wide *Map of Bush Fire Prone Areas* as prepared by the Office of Bushfire Risk Management (OBRM 2021), as shown in **Plate 1** below. Where a Class 1, Class 2, Class 3 or Class 10a building is proposed to be located in an area identified as 'bushfire prone area', a Bushfire Attack Level (BAL) assessment in accordance with *Australian Standard AS 3959 – 2018 Construction of buildings in bushfire prone areas* (Standards Australia 2018) is required to support the building permit application to determine any related construction requirements.

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

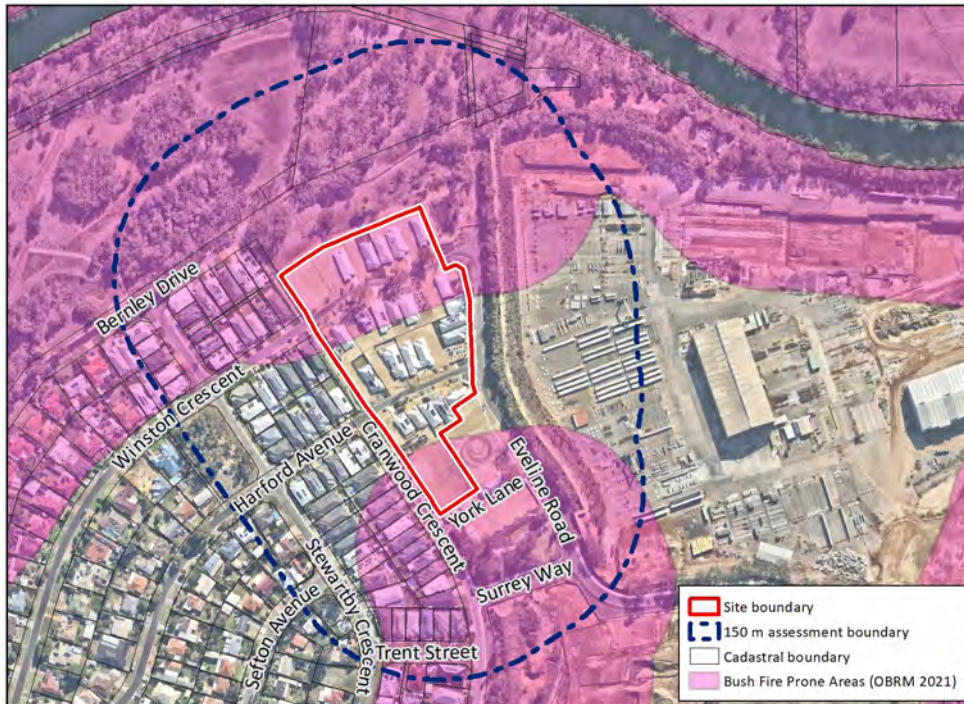


Plate 1: Areas within and surrounding the site identified as 'bushfire prone areas' (as indicated in purple) under the state-wide Map of Bush Fire Prone Areas (OBRM 2021).

1.2 Aim of this report

This BAL assessment aims to assess classified vegetation and effective slope in accordance with Method 1 of AS 3959 in order to determine the applicable BAL ratings for all lots within the site. The outcomes of this assessment can then be used to support the subdivision clearance and building permit application processes.

1.3 Statutory policy and framework

The following key legislation, policies and guidelines are relevant to the preparation of a BAL assessment:

- *Fire and Emergency Services Act 1998*
- *Bush Fires Act 1954*
- *Planning and Development (Local Planning Scheme Amendment) Regulations 2015*
- *Building Regulations 2012*
- *State Planning Policy 3.7 Planning in Bushfire Prone Areas (SPP 3.7) (WAPC 2015)*
- *Guidelines for Planning in Bushfire Prone Areas version 1.4 (the Guidelines) (DPLH & WAPC 2021)*
- *Australian Standard AS 3959 – 2018 Construction of buildings in bushfire prone areas (AS 3959) (Standards Australia 2018).*

Bushfire Attack Level Assessment

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2 BAL Assessment

A Method 1 BAL assessment has been completed for the site in accordance with AS 3959. This assessment considers the vegetation classification and effective slope for the site and surrounding 150 m (**Figure 2**). A BAL contour plan has been prepared in accordance with the Guidelines to demonstrate the determined BAL ratings (**Figure 3**).

AS 3959 specifies requirements for the construction of buildings in bushfire-prone areas in order to improve their resistance to bushfire attack from embers, burning debris, radiant heat, flame contact, and combinations of these attack forms. It provides six BAL ratings: BAL-LOW, BAL-12.5, BAL-19, BAL-29, BAL-40 and BAL-FZ, based on the radiant heat flux thresholds from vegetation within 100 m of a building. Each BAL rating is associated with specific national construction requirements, which have been summarised in **Table 1** below.

It is relevant to note that while buildings constructed to increased standards under AS 3959 are more likely to survive a bushfire than buildings that do not conform to these construction standards, building survival is not guaranteed.

Table 1: Summary of BAL ratings, heat flux thresholds and associated construction standards, as outlined within AS 3959

Bushfire Attack Level (BAL)	Classified vegetation within 100 m of the subject building and heat flux exposure thresholds	Description of the predicted bushfire attack and levels of exposure	Construction section (within AS 3959)
BAL-LOW	See Section 2.2.3.2 of AS 3959	There is insufficient risk to warrant specific construction requirements	4
BAL-12.5	$\leq 12.5 \text{ kW/m}^2$	Ember attack	3 & 5
BAL-19	$> 12.5 \text{ kW/m}^2$ to $\leq 19 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers blown together with increasing heat flux	3 & 6
BAL-29	$> 19 \text{ kW/m}^2$ to $\leq 29 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers blown together with increasing heat flux	3 & 7
BAL-40	$> 29 \text{ kW/m}^2$ to $\leq 40 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers blown together with the increased likelihood of exposure to flame	3 & 8
BAL-FZ	$> 40 \text{ kW/m}^2$	Direct exposure to flames from fire front in addition to heat flux and ember attack	3 & 9

Not all vegetation is a classified bushfire risk. Vegetation and ground surfaces that are exempt from classification as a potential hazard are identified as a low threat under Section 2.2.3.2 of AS 3959.

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



2.1 Assessment inputs

The classification of vegetation within the site and the surrounding 150 m has been undertaken in accordance with AS 3959. The assignment of vegetation classifications is based on Section 2.2.3 and Table 2.3 of AS 3959 and generally considers the various fuel layers of different vegetation types. For example, fuel layers in a typical forest environment can be broken down into five segments as illustrated in **Plate 2** below.



Plate 2: The fuel layers in a forest environment that could be associated with fire behaviour (Gould et al. 2007)

An assessment of existing vegetation within the site and surrounding 100 m was most recently undertaken on 2 August 2024 in accordance with AS 3959. Table 2 below outlines the determined vegetation classifications and associated effective slope, and where relevant outlines the existing management practices that have informed the vegetation classification. The plots referenced in Table 2 are also shown in Figure 2. Assumptions

The BAL assessment includes the following assumptions:

- **Designated FDI:** 80
- **Flame temperature:** 1090 K
- **Effective slope beneath classified vegetation:** downslope 0 - 5°, flat/upslope (see **Figure 2**)
- Areas of low threat vegetation outside Stage 1A and 1B will continue to be managed and/or considered to achieve low threat (in accordance with Section 2.2.3.2 of AS 3959) based on the existing maintenance regimes, and/or as per the CoS firebreak notice.
- Classified vegetation that has been identified outside of the proponent's landholdings has been assumed to remain in its current state (unless stated otherwise) and will therefore remain a bushfire hazard to development within the site. It is noted that future development within these areas will result in the removal and/or management of classified vegetation to a low threat standard; however, for the purposes of this BAL assessment, all bushfire hazards are assumed to remain as such.

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

2.1.1 Vegetation Classification

All vegetation within 100 m of the site was classified in accordance with Clause 2.2.3 of AS 3959-2018. Each distinguishable vegetation plot with the potential to determine the BAL rating is identified in **Table 2** and shown in **Figure 2**.

Table 2: AS3959 Vegetation Classification (refer to **Figure 2**)

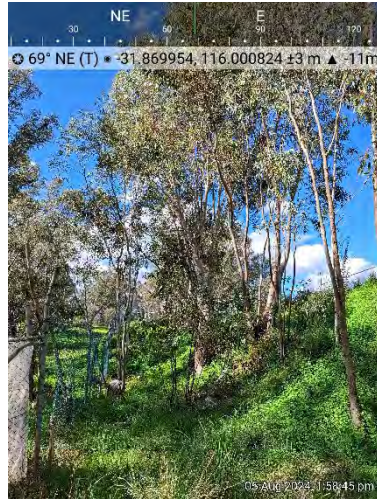


Plot:	1	Photo ID:	1
Vegetation Classification or Exclusion Clause			
Forest (Class A)			
Description / Justification for Classification			
Forest vegetation has been identified to the north of the site within Reg Bond Park. The vegetation is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.			

Plot:	1	Photo ID:	2
Vegetation Classification or Exclusion Clause			
Forest (Class A)			
Description / Justification for Classification			
Forest vegetation has been identified to the north of the site within Reg Bond Park. The vegetation is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.			

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

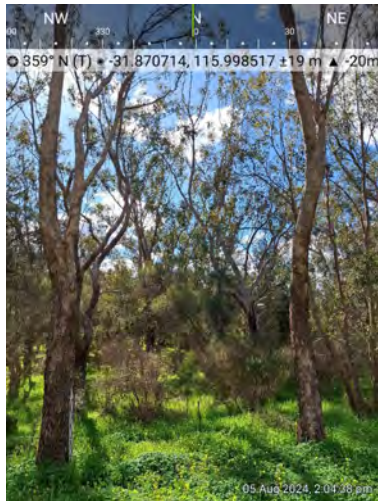
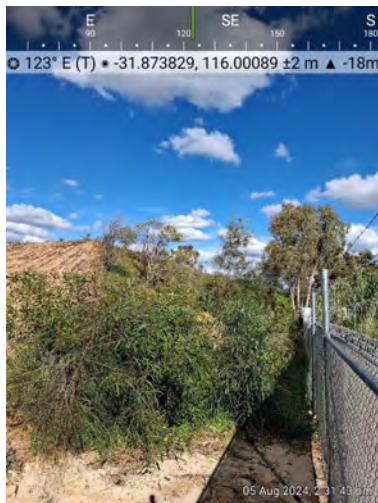

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	2	Photo ID:	3	
Vegetation Classification or Exclusion Clause				
Forest (Class A)				
Description / Justification for Classification				
Forest vegetation to the north-east of the site is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.				
Plot:	2	Photo ID:	4	
Vegetation Classification or Exclusion Clause				
Forest (Class A)				
Description / Justification for Classification				
Forest vegetation to the north-east of the site is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.				
Plot:	3	Photo ID:	5	
Vegetation Classification or Exclusion Clause				
Forest (Class A)				
Description / Justification for Classification				
Forrest vegetation abutting the Viveash residential development to the northwest of the site is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.				

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	3	Photo ID:	6	
Vegetation Classification or Exclusion Clause				
Forest (Class A)				
Description / Justification for Classification Forrest vegetation abutting the Viveash residential development to the northwest of the site is characterised by an overstorey comprising of predominantly mature trees growing to a height of between 10-15 m, with a greater than 30% foliage cover over an understorey of shrubs, grasses and juvenile trees.				
Plot:	4	Photo ID:	7	
Vegetation Classification or Exclusion Clause				
Forest (Class A)				
Description / Justification for Classification A strip of forest vegetation has been identified to the south of the site comprising of predominantly mature shrubs with juvenile eucalyptus trees. This strip has been assessed assuming its potential mature state, noting it will be removed in the future as part of subdivision development.				
Plot:	5	Photo ID:	8	
Vegetation Classification or Exclusion Clause				
Woodland (Class B)				
Description / Justification for Classification Woodland vegetation abutting the future Bernley Drive reserve to the north-west of the site is characterised by an overstorey of mature trees 10-15 m in height with an understorey of unmanaged grassland and occasional scattered native shrubs.				

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	5	Photo ID:	9	
Vegetation Classification or Exclusion Clause				
Woodland (Class B)				
Description / Justification for Classification				
Woodland vegetation abutting the future Bernley Drive reserve to the north-west of the site is characterised by an overstorey of mature trees 10-15 m in height with an understorey of unmanaged grassland and occasional scattered native shrubs.				

Plot:	5	Photo ID:	10	
Vegetation Classification or Exclusion Clause				
Woodland (Class B)				
Description / Justification for Classification				
Woodland vegetation abutting the future Bernley Drive reserve to the north-west of the site is characterised by an overstorey of mature trees 10-15 m in height with an understorey of unmanaged grassland and occasional scattered native shrubs.				

Plot:	6	Photo ID:	11	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
The access road to Reg Bond Park consists of non-vegetated road surface and abutting rows of trees with an understorey maintained in a low-threat state.				
Excluded under clauses 2.2.3.2(e&f).				

Bushfire Attack Level Assessment

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Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)


Plot:	6	Photo ID:	12	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(e)				
Description / Justification for Classification				
Lots yet to be developed are maintained in a non-vegetated state.				
Plot:	6	Photo ID:	13	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(e)				
Description / Justification for Classification				
Recently cleared, non-vegetated mineral earth for future development is excluded under clause 2.2.3.2(e).				
Plot:	7	Photo ID:	14	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(e)				
Description / Justification for Classification				
Non-vegetated road with low threat vegetation identified within landscaped verges throughout the subdivision. The vegetation comprises planted species with mulch at the base of each plant or short lawn. Excluded under clauses 2.2.3.2(e&f).				


Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	7	Photo ID:	15	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
Low threat vegetation to the north of the site. Trees have been retained within this area; however, the branches have been pruned to above 2 m in height and the density of the trees has been reduced to separate tree canopies. Fine fuel load (combustible dead vegetation matter) has been reduced to a minimal fuel condition.				

Plot:	7	Photo ID:	16	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
Low threat vegetation to the north-east of the site. Trees have been retained within this area; however, the branches have been pruned to above 2 m in height and the density of the trees has been reduced to separate tree canopies. Fine fuel load (combustible dead vegetation matter) has been reduced to a minimal fuel condition.				


Plot:	7	Photo ID:	17	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
Low threat vegetation to the north-east of the site. Trees have been retained within this area; however, the branches have been pruned to above 2 m in height and the density of the trees has been reduced to separate tree canopies. Fine fuel load (combustible dead vegetation matter) has been reduced to a minimal fuel condition.				


Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	7	Photo ID:	18	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
Low threat vegetation to the north of the site. Trees have been retained within this area; however, the branches have been pruned to above 2 m in height and the density of the trees has been reduced to separate tree canopies. Fine fuel load (combustible dead vegetation matter) has been reduced to a minimal fuel condition.				

Plot:	7	Photo ID:	19	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
Pedestrian access ways abutting the western portion of the site consist of juvenile trees and native groundcover. Vegetation in this area will be managed to a low threat standard in perpetuity.				
Excluded under clauses 2.2.3.2(e&f).				


Plot:	7	Photo ID:	20	
Vegetation Classification or Exclusion Clause				
Exclusion clause 2.2.3.2(f)				
Description / Justification for Classification				
In the public open space area south of the site, low-threat vegetation is preserved. Trees are well-maintained, with no low branches and minimised canopy overlap. The fine fuel load is reduced to minimal fuel conditions.				

Bushfire Attack Level Assessment


Rivermark Stage One Subdivision Area

Table 2: AS3959 Vegetation Classification (refer to Figure 2)(continued)

Plot:	7	Photo ID:	21
Vegetation Classification or Exclusion Clause			
Exclusion clause 2.2.3.2(f)			
Description / Justification for Classification			
The public open space area south of the site, low-threat vegetation is preserved. Trees are well-maintained, with no low branches and minimised canopy overlap. The fine fuel load is reduced to minimal fuel conditions. Bordering planting zones feature manicured lawn, not over 100mm high. This vegetation will continue to be managed in a low-threat state.			

			
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Plot:	7	Photo ID:	22
Vegetation Classification or Exclusion Clause			
Exclusion clause 2.2.3.2(f)			
Description / Justification for Classification			
Low threat vegetation to the east of the site comprising a narrow strip of vegetation with a largely cleared understorey planted for the purposes of a windbreak. The understorey grasses have been slashed to maintain a height of less than 100 mm where present leaving small shrubs. Vegetation in this area will be managed to a low threat standard in perpetuity.			

			
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Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



2.2 Assessment outputs

A BAL Contour Plan (see **Figure 3**) has been prepared to outline the BAL ratings applicable to the lots within the site. It is based on the determined vegetation classifications and associated effective slopes and using the BAL distances detailed in Table 2.5 of AS 3959. Based on the outcomes of the BAL assessment:

- 29 lots are exposed to a BAL rating of BAL-LOW
- 12 lots are exposed to a BAL rating of BAL-12.5. Five of these lots can achieve BAL-LOW with an in-lot setback
- Three lots are exposed to a BAL rating of BAL-19. All three lots can achieve BAL 12.5 with an in-lot setback.

Individual BAL ratings are shown on **Figure 4**.

2.3 Construction of buildings and ongoing management

2.3.1 Construction of buildings

Appendix A specifies the BAL rating applicable to each building in the form of a BAL certificate can be used to support the building permit process. Construction requirements for each BAL rating are specified in AS 3959 and summarised in **Table 1**. It is noted that for buildings with a BAL-LOW rating, there is an insufficient risk from bushfire to warrant specific construction requirements, as outlined in Section 4 of AS 3959.

2.3.2 Ongoing management

All lot owners will be responsible for maintaining their own property to a low threat standard in accordance with the principles of the asset protection zone standards detailed in the Guidelines, and as per the requirements of the CoS Fire Hazard Reduction Notice (as published). Advice to lot owners on maintaining their property to a low threat standard can be provided by the CoS.

The proponent will be responsible for the maintenance of their undeveloped landholdings to the north and south of the site to a low-threat standard in accordance with Section 2.2.3.2 of AS 3959 (as indicated by **Figure 2**) and in line with the City of Swan Fire Hazard Reduction Notice requirements. Management of these areas may include:

- Install and maintain an asset protection zone.
- Clearing of vegetation.
- Regular maintenance including removal of weeds and dead material.
- Low pruning of trees (branches below 2 m in height removed where appropriate).
- Application of ground covers such as mulch or non-flammable materials.
- Regularly mowing/slashing of grass to less than 100 mm in height.

Areas of public open space identified in the subdivision approval will be formally landscaped in consultation with the CoS and maintained in perpetuity.

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



3 Certification by Bushfire Consultant

3.1 Accreditation

This BAL assessment has been prepared by Emerge Associates who have been providing bushfire risk management advice for more than 10 years, undertaking detailed bushfire assessments (and associated approvals) to support the land use development industry.

3.2 Declaration

I declare that the information provided is true and correct to the best of my knowledge.

Signature:

A handwritten signature in black ink, appearing to read "Anthony Rowe".

Name: Anthony Rowe

Company: Emerge Associates/Envision Bushfire Protection

Date: 9 September 2024

BPAD Accreditation: 36690

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



4 References

4.1 General references

Department of Planning, Lands and Heritage, and Western Australian Planning Commission, (DPLH & WAPC) 2021, *Guidelines for Planning in Bushfire Prone Areas Version 1.4*, Perth, Western Australia.

Standards Australia 2018, *AS 3959:2018 Construction of buildings in bushfire-prone areas*, Sydney.

Western Australian Planning Commission (WAPC) 2015, *State Planning Policy 3.7 Planning in Bushfire Prone Areas*, Perth.

4.2 Online references

Department of Water 2008, *LIDAR derived 1 m elevation contours* dataset, Government of Western Australia.

Office of Bushfire Risk Management (OBRM) 2021, Map of Bush Fire Prone Areas, viewed August 2024, <https://maps.slip.wa.gov.au/landgate/bushfireprone/>

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



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Figures



Figure 1: Site Location

Figure 2: AS 3959 Vegetation Classification and Effective Slope

Figure 3: Bushfire Attack Level Contour Plan

Figure 4: Bushfire Attack Level Ratings for Individual Lots

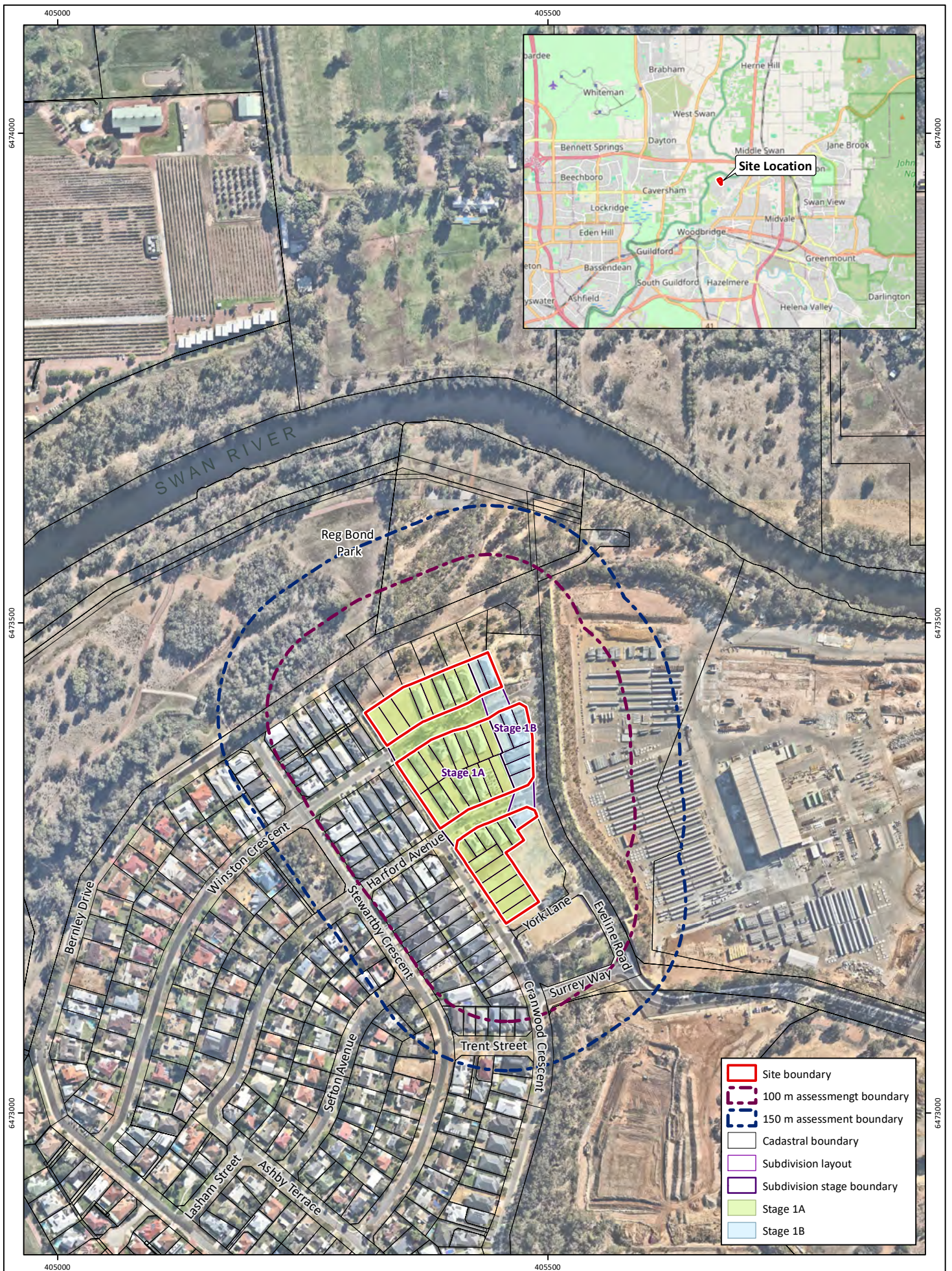


Figure 1: Site Location

Project: Bushfire Attack Level Assessment
Rivermark Stage One Subdivision Area

Client: Hesperia Pty Ltd

Plan Number: EP19-105(46)--F261a
Drawn: GAR
Date: 14/08/2024
Checked: CPW
Approved: KK
Date: 05/09/2024



0 50 100
Metres

Scale: 1:5,000@A4
GDA 1994 MGA Zone 50



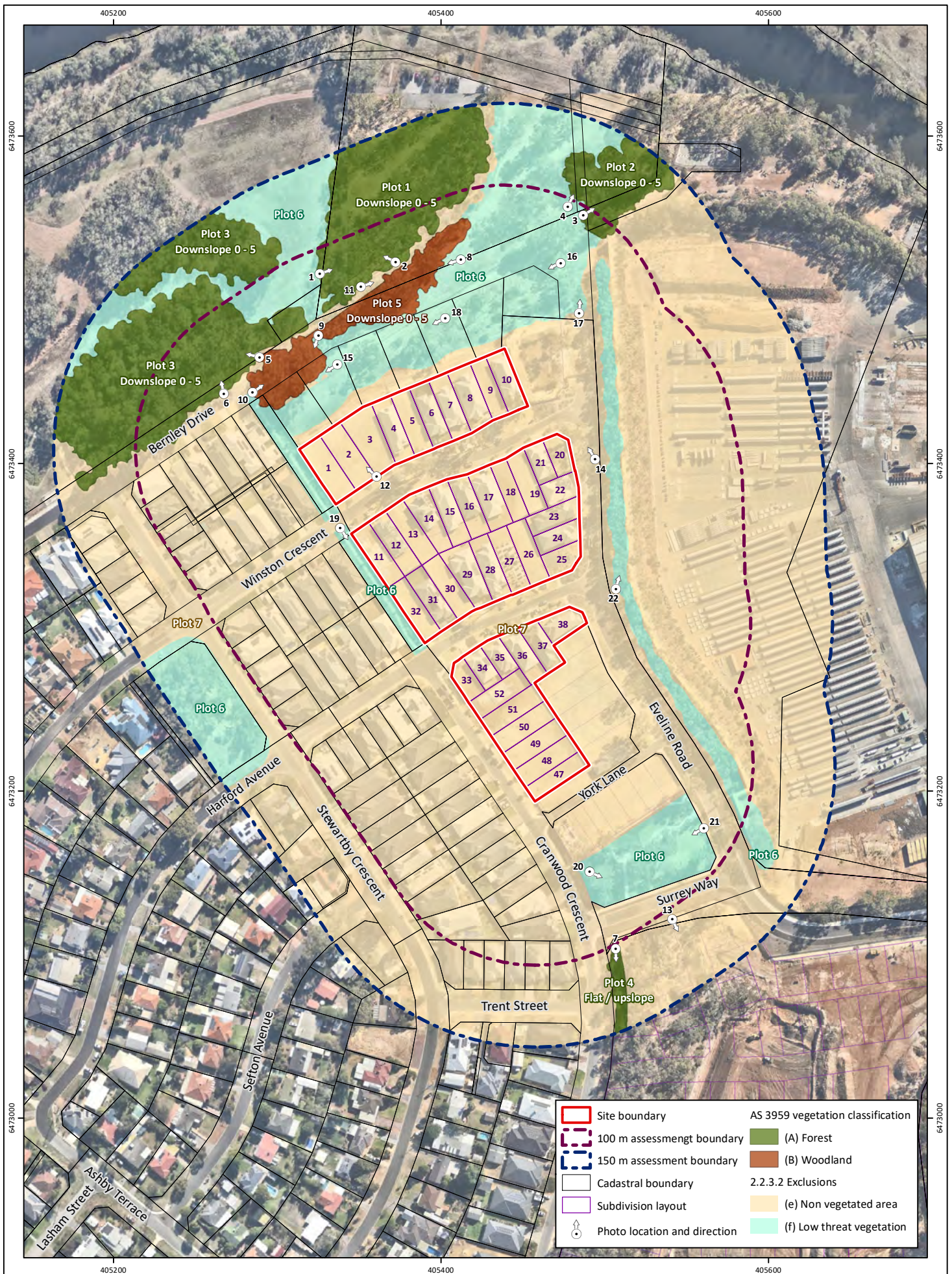


Figure 2: AS 3959 Vegetation Classifications and Effective Slope

Project: Bushfire Attack Level Assessment
Rivermark Stage One Subdivision Area

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Plan Number: EP19-105(46)--F262a
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Date: 14/08/2024
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Metres
Scale: 1:3,000@A4
GDA 1994 MGA Zone 50



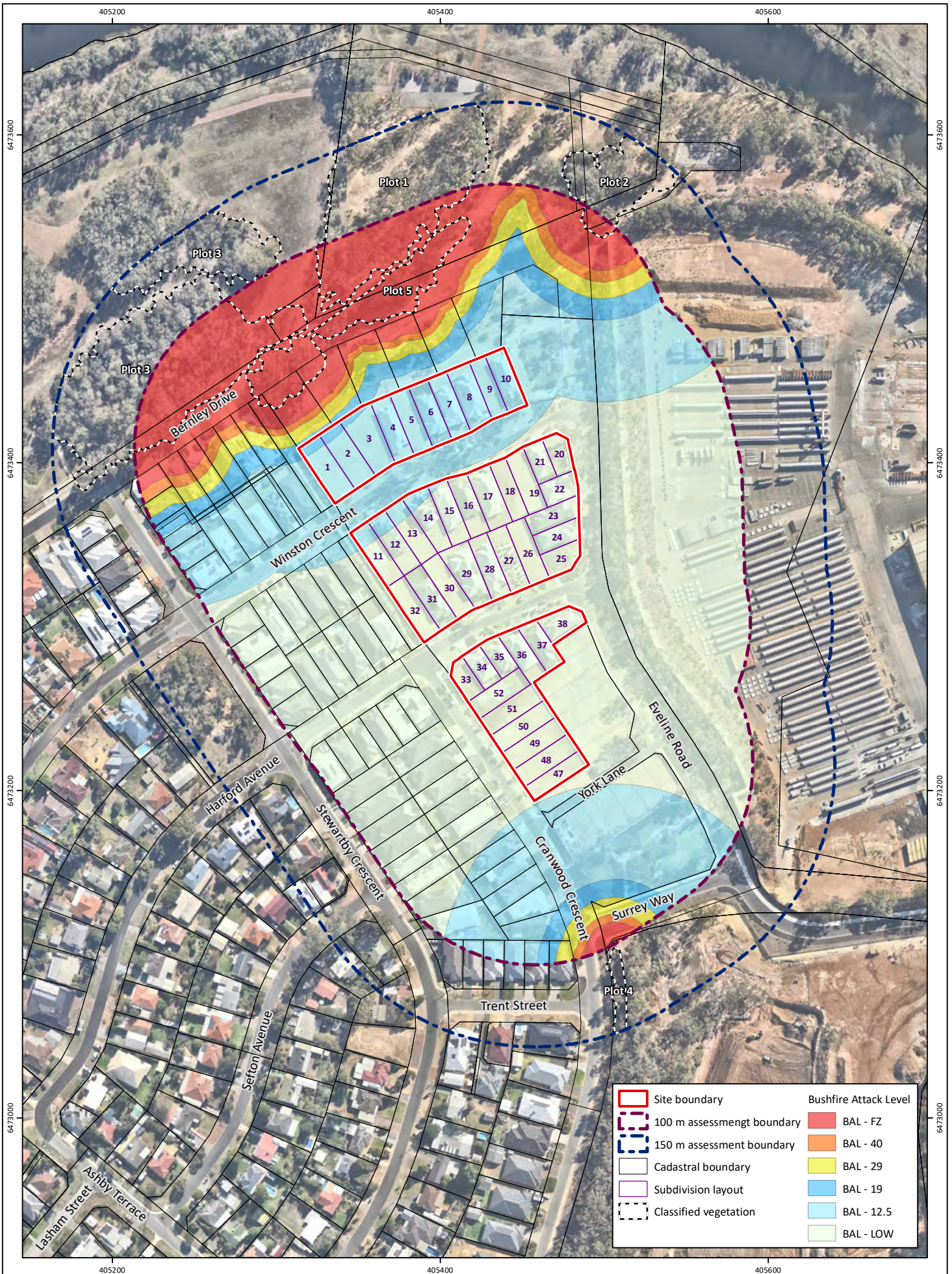


Figure 3: Bushfire Attack Level Contour Plan

Project: Bushfire Attack Level Assessment
Rivermark Stage One Subdivision Area

Client: Hesperia Pty Ltd

Plan Number: EP19-105(46)--F263a
Drawn: GAR
Date: 14/08/2024
Checked: CPW
Approved: KK
Date: 05/09/2024



0 40 80
Metres
Scale: 1:3,000@A4
GDA 1994 MGA Zone 50





Figure 4: Bushfire Attack Level Ratings for Individual Lots

Project: Bushfire Attack Level Assessment
Rivermark Stage One Subdivision Area

Client: Hesperia Pty Ltd

Plan Number: EP19-105(46)--F264a
Drawn: GAR
Date: 14/08/2024
Checked: CPW
Approved: KK
Date: 05/09/2024



Scale: 1:1,500@A4
GDA 1994 MGA Zone 50



Appendix A

BAL Assessment Certificate



Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



BUSHFIRE ATTACK LEVEL (BAL) CERTIFICATE

Determined in accordance with Australian Standard (AS) 3959-2018 Construction of buildings in bushfire prone areas

Site details

Address	Lots 1 - 38 and 47 - 52 Winston Crescent, Hartford Avenue and Cranwood Crescent– Deposited Plan 421407 (Stage 1A) and Deposited Plan 422231 (Stage 1B)		
Suburb	Viveash	State	WA
Local government area	City of Swan		
Date of assessment	2 August 2024	Date of report	9 September 2024
Project no.	EP19-105(47)	Document no.	EP19-105(47)—085A

Determination of highest Bushfire Attack Level (BAL)

Lot no.	Classified vegetation and plot number	Distance of lot boundary from vegetation	Effective slope	Building BAL rating (see Figure 4)	Exceptions/notes for building BAL rating
1	Plot 5 - Woodland	28 m	Downslope 0 - 5	BAL – 19	A building on this lot can achieve BAL-12.5 with a minimum setback of 7 m from the northern boundary (see Figure 3).
2	Plot 5 - Woodland	28 m	Downslope 0 - 5	BAL – 19	A building on this lot can achieve BAL-12.5 with a minimum setback of 7 m from the northern boundary (see Figure 3).
3	Plot 5 - Woodland	28 m	Downslope 0 - 5	BAL – 19	A building on this lot can achieve BAL-12.5 with a minimum setback of 7 m from the northern boundary (see Figure 3).
4	Plot 5 - Woodland	38 m	Downslope 0 - 5	BAL – 12.5	N/A
5	Plot 5 - Woodland	38 m	Downslope 0 - 5	BAL – 12.5	N/A
6	Plot 5 - Woodland	39 m	Downslope 0 - 5	BAL – 12.5	N/A
7	Plot 5 - Woodland	38 m	Downslope 0 - 5	BAL – 12.5	N/A
8	Plot 5 - Woodland	41 m	Downslope 0 - 5	BAL – 12.5	N/A
9	Plot 5 - Woodland	60 m	Downslope 0 - 5	BAL – 12.5	N/A
10	Plot 5 - Woodland	66 m	Downslope 0 - 5	BAL – 12.5	N/A
11	Plot 5 - Woodland	88 m	Downslope 0 - 5	BAL – 12.5	A building on this lot can achieve BAL-LOW with a minimum setback of 12 m from northern boundary (see Figure 3).
12	Plot 5 - Woodland	88 m	Downslope 0 - 5	BAL – 12.5	A building on this lot can achieve BAL-LOW with a minimum setback of 12 m from northern boundary (see Figure 3).

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area



Determination of highest Bushfire Attack Level (BAL)

Lot no.	Classified vegetation and plot number	Distance of lot boundary from vegetation	Effective slope	Building BAL rating (see Figure 4)	Exceptions/notes for building BAL rating
13	Plot 5 - Woodland	88 m	Downslope 0 - 5	BAL – 12.5	A building on this lot can achieve BAL-LOW with a minimum setback of 12 m from northern boundary (see Figure 3).
14	Plot 5 - Woodland	88 m	Downslope 0 - 5	BAL – 12.5	A building on this lot can achieve BAL-LOW with a minimum setback of 12 m from northern boundary (see Figure 3).
15	Plot 5 - Woodland	92 m	Downslope 0 - 5	BAL – 12.5	A building on this lot can achieve BAL-LOW with a minimum setback of 8 m from northern boundary (see Figure 3).
16	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
17	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
18	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
19	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
20	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
21	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
22	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
23	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
24	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
25	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
26	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
27	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
28	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
29	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
30	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A

Bushfire Attack Level Assessment

Rivermark Stage One Subdivision Area




Determination of highest Bushfire Attack Level (BAL)

Lot no.	Classified vegetation and plot number	Distance of lot boundary from vegetation	Effective slope	Building BAL rating (see Figure 4)	Exceptions/notes for building BAL rating
31	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
32	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
33	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
34	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
35	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
36	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
37	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
38	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
47	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
48	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
49	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
50	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
51	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A
52	No classified vegetation identified within 100 m.	>100 m	Not applicable	BAL-LOW	N/A

Accreditation details

I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of the National Construction Code and AS 3959-2018.

Name:	Anthony Rowe (BPAD 36690)
Signature:	
Certificate date:	9 September 2024

Bushfire Attack Level – Individual Lot Certificate
Rivermark Stage 2 Subdivision Area**Bushfire Attack Level (BAL) Certificate**

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 49	Lot no 1	Street name / Plan Reference Winston Crescent	
	Suburb Viveash			State WA	Postcode 6056
Local government area	City of Swan				
Main BCA class of the building	N/A		Use(s) of the building	N/A	
Description of the building or works	Single lot				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	28 m	BAL – 19

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	I hereby declare that I am a BPAD accredited bushfire practitioner.  Date: 9 September 2024
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 51	Lot no 2	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	28 m	BAL – 19

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 53	Lot no 3	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	28 m	BAL – 19

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 55	Lot no 4	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	38 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 57	Lot no 5	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	38 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 59	Lot no 6	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	39 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 61	Lot no 7	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	38 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 63	Lot no 8	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	41 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 65	Lot no 9	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	60 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 67	Lot no 10	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	66 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 44	Lot no 11	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	88 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 46	Lot no 12	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	88 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 48	Lot no 13	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	88 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 50	Lot no 14	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	88 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 52	Lot no 15	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B Woodland	Downslope 0-5	92 m	BAL – 12.5

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018



Property Details and Description of Works

Address Details	Unit no	Street no 54	Lot no 16	Street name / Plan Reference Winston Crescent	
	Suburb Viveash			State WA	Postcode 6056
Local government area	City of Swan				
Main BCA class of the building	N/A		Use(s) of the building	N/A	
Description of the building or works	Single lot				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	I hereby declare that I am a BPAD accredited bushfire practitioner.  Signature:  Date: 9 September 2024
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	

Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 56	Lot no 17	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 58	Lot no 18	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 60	Lot no 19	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 62	Lot no 20	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 64	Lot no 21	Street name / Plan Reference Winston Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 107	Lot no 22	Street name / Plan Reference Eveline Road		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 105	Lot no 23	Street name / Plan Reference Eveline Road		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 103	Lot no 24	Street name / Plan Reference Eveline Road		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 101	Lot no 25	Street name / Plan Reference Eveline Road		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 55	Lot no 26	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 53	Lot no 27	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 51	Lot no 28	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 49	Lot no 29	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 47	Lot no 30	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018



Property Details and Description of Works

Address Details	Unit no	Street no 45	Lot no 31	Street name / Plan Reference Harford Avenue	
	Suburb Viveash			State WA	Postcode 6056
Local government area	City of Swan				
Main BCA class of the building	N/A		Use(s) of the building	N/A	
Description of the building or works	Single lot				

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 43	Lot no 32	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 40	Lot no 33	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 42	Lot no 34	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 44	Lot no 35	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 46	Lot no 36	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Company Details Emerge Associates	
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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 48	Lot no 37	Street name / Plan Reference Harford Avenue		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 99	Lot no 38	Street name / Plan Reference Eveline Road		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

BPAD Accredited Practitioner Details

Name Connor Porter-Wilkinson (57979)	<p>I hereby declare that I am a BPAD accredited bushfire practitioner.</p> <p>Signature: </p> <p>Date: 9 September 2024</p>
Company Details Emerge Associates	
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018	



Reliance on the assessment and determination of the Bushfire Attack Level contained in this certificate should not extend beyond a period of 12 months from the date of issue of the certificate. If this certificate was issued more than 12 months ago, it is recommended that the validity of the determination be confirmed with the Accredited Practitioner and where required an updated certificate issued.

Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 61	Lot no 47	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 63	Lot no 48	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 65	Lot no 49	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 67	Lot no 50	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 69	Lot no 51	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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Bushfire Attack Level – Individual Lot Certificate

Rivermark Stage 2 Subdivision Area



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018


Property Details and Description of Works

Address Details	Unit no	Street no 71	Lot no 52	Street name / Plan Reference Cranwood Crescent		
	Suburb Viveash			State WA	Postcode 6056	
Local government area	City of Swan					
Main BCA class of the building	N/A		Use(s) of the building	N/A		
Description of the building or works	Single lot					

Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excludable – Clause 2.2.3.2(a)	Not applicable	>100 m	BAL – LOW

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