

9 October 2020

Our ref: 16864

Parcel Property Level 3/14 Walters Drive, OSBORNE PARK, WA 6017

#### Bushfire Attack Level (BAL) Assessment Report for Stages 4 and 5, Beenyup Grove Estate, Byford

#### **Site Details**

**Address:** Beenyup Grove Estate: (Lots 319-340, 382-385, 400-403, 418-424, 470, 511-514, 535-538, 558-561, 571-583, 594-600, 606, 637-640 and 658)

Suburb:	Byford, 6122	State	Western Australia
Local Government Area:	Shire of Serpentine Jarrahdale		
Description of building works:	Residential development, future buildings		

Report details			
Report/Job number:	20PER-16864	Report version:	v1
Assessment date:	8/10/2020	Report date:	9/10/2020
Author:	Stephen Moore and Daniel Panickar	Review:	Daniel Panickar (BPAD Level 3 – 37802)



#### SITE ASSESSMENT AND SITE PLAN

The assessment of the 76 subject lots was undertaken on 8 October 2020 for the purpose of determining the Bushfire Attack Level (BAL) in accordance with *Australian Standard AS 3959-2018 Construction of Buildings in Bushfire Prone Areas* (SA 2018) Simplified Procedure (Method 1). An overview of the site is presented in Figure 1.

### **VEGETATION CLASSIFICATION**

All vegetation within 100 m of the 76 subject lots was classified in accordance with Clause 2.2.3 of AS 3959-2018. Each distinguishable vegetation class with the potential to determine the BAL is identified below and presented in Figure 1.

It is currently assumed that areas of landscaped vegetation within the site and assessment area will be managed and maintained by Parcel Property (the developer) until replaced by residential dwellings and associated infrastructure or handed over to the Shire of Serpentine-Jarrahdale in the future.

#### Plot 1 Classification or Exclusion Clause

#### **Photo Point 1**

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This is an area of low threat, maintained vegetation and footpaths.

#### Excluded - clause 2.2.3.2 (e) & (f)



#### Plot 1 Classification or Exclusion Clause

#### **Photo Point 2**

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This is an area that has been cleared for construction and will contain residential lots, roads and low threat, maintained vegetation.

#### Excluded – clause 2.2.3.2 (e) & (f)



#### Plot 1 Classification or Exclusion Clause

#### **Photo Point 3**

This plot has been excluded under Clause 2.2.3.2 (f) of AS 3959-2018. This is an area of low threat, maintained grass.

Excluded - clause 2.2.3.2 (f)



#### Plot 1 Classification or Exclusion Clause

#### Excluded – clause 2.2.3.2 (f)

#### **Photo Point 4**

This plot has been excluded under Clause 2.2.3.2 (f) of AS 3959-2018. This is an area of low threat, maintained grass.



#### Plot 1 Classification or Exclusion Clause

#### Excluded under clause 2.2.3.2 (e) and (f)

#### **Photo Point 5**

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This is an area that has been cleared for construction and will contain residential lots, roads and low threat, maintained vegetation.



#### Plot 3 Classification or Exclusion Clause

Excluded under clause 2.2.3.2 (e) and (f)

#### **Photo Point 6**

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This is an area that has been cleared for construction and will contain residential lots, roads and low threat, maintained vegetation.



#### RELEVANT FIRE DANGER INDEX

The Fire Danger Index (FDI) for this site has been determined in accordance with Table 2.1 of AS 3959-2018. The FDI for WA is FDI 80.

#### POTENTIAL BUSHFIRE IMPACTS

The potential bushfire impact to the site / proposed development from each of the identified vegetation plots are identified below, Table 1 and Figure 1.

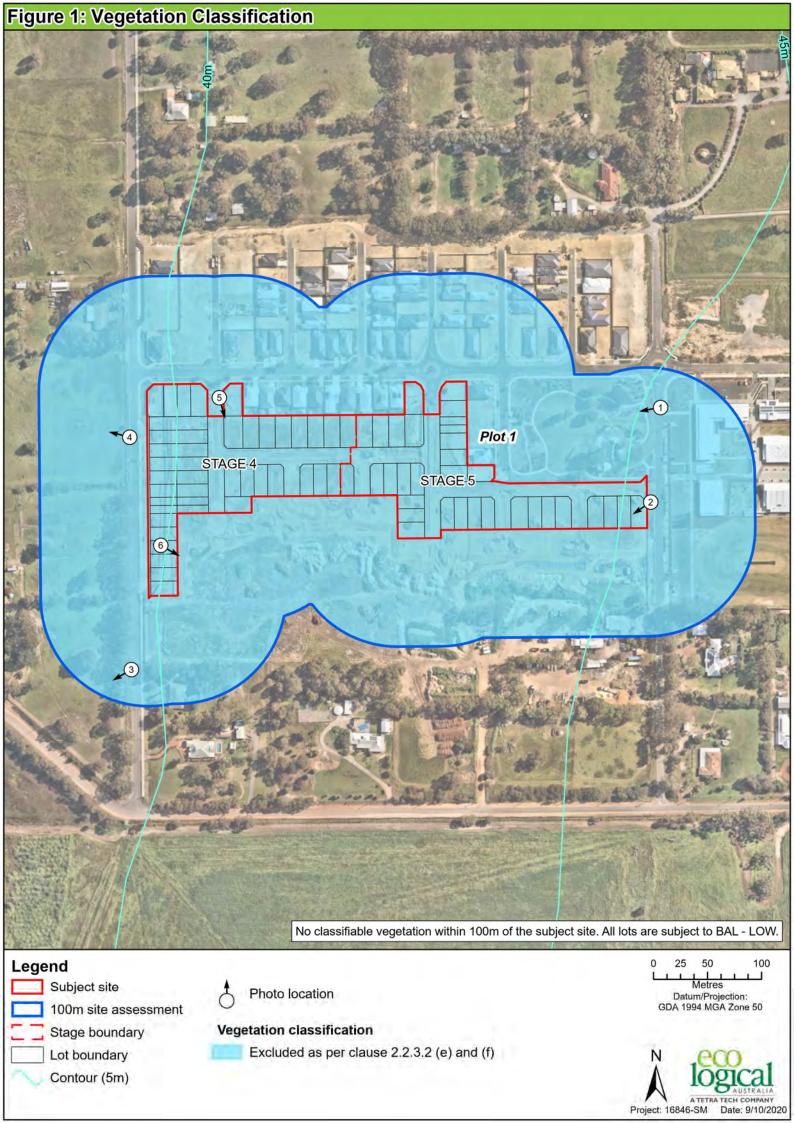
Table 1: BAL Analysis AS 3959-2018

Dist Variation Classification		Effective	Separation distances required				
PIOL	Plot Vegetation Classification	Slope	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Excluded under Clause 2.2.3.2 (e) & (f)	N/A	No separation distances required – BAL-LOW				

#### DETERMINED BUSHFIRE ATTACK LEVEL (BAL)

The determined Bushfire Attack Level (highest BAL) for the site has been determined in accordance with Clause 2.2.6 of AS 3959-2018 using the above analysis. All lots within the site are subject to BAL ratings of **BAL-LOW**.

This BAL rating is based on the information current at the date of this document and is valid for 12 months.



## Appendix A – Additional Information / Advisory Notes

Bushfire Attack Level (BAL) as set out in the Australian Standard 3959 Construction of Buildings in Bushfire-Prone Areas (AS 3959), as referenced in the Building Code of Australia.

Bushfire Attack Level (BAL)	Classified vegetation within 100 m of the site and radiant heat flux exposure thresholds	Description of predicted bush fire attack and levels of exposure	Construction Section as per AS 3959
BAL-LOW		There is insufficient risk to warrant specific construction requirements.	4
BAL-12.5	≤12.5 kW/m2	Ember attack	3 and 5
BAL-19	>12.5 kW/m2 ≤19 kW/m2	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux.	3 and 6
BAL-29	>19 kW/m2≤29 kW/m2	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux	3 and 7
BAL-40	>29 kW/m2≤40 kW/m2	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux with the increased likelihood of exposure to flames.	3 and 8
BAL-FZ	>40 kW/m2	Direct exposure to flames from fire front in addition to radiant heat flux and ember attack	3 and 9

Source: "AS 3959 - 2018 Construction of buildings in bushfire-prone areas" published by Standards Australia, Sydney

**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 319, Beenyup Grove Estate				
Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarral	Shire of Serpentine Jarrahdale			
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2	020	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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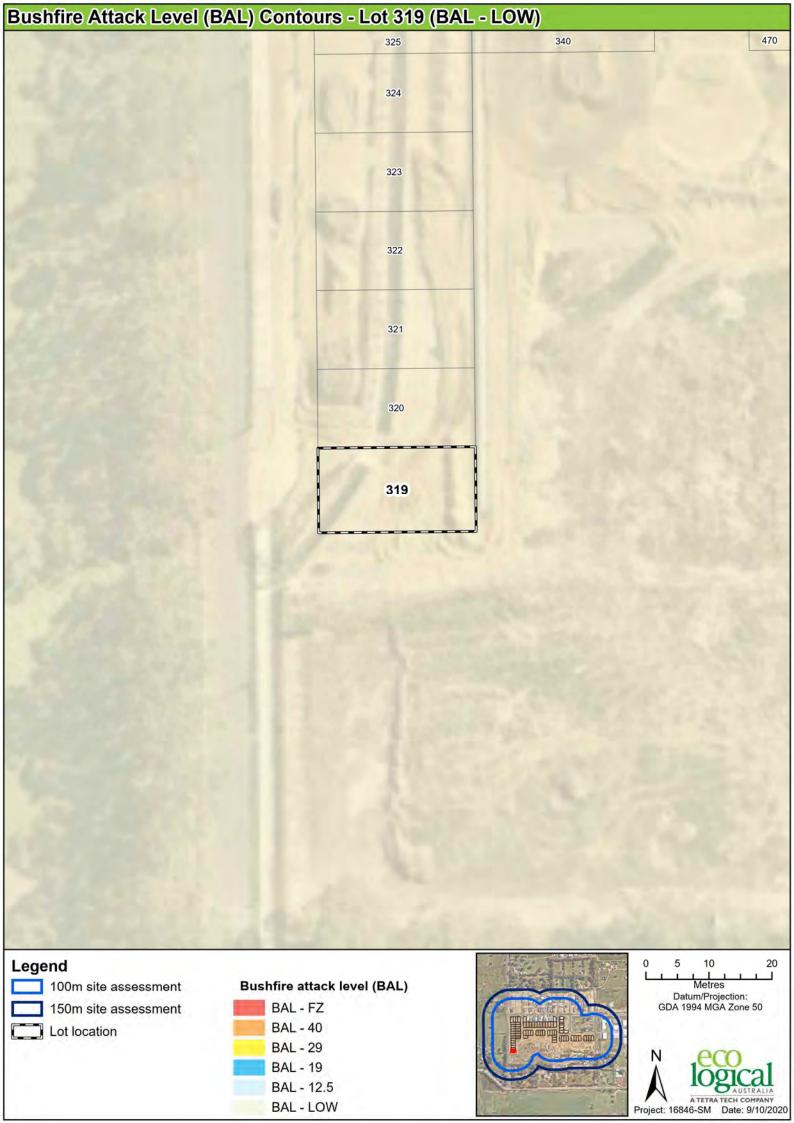
**Daniel Panickar** Name

Eco Logical Australia

09/10/2020

Signature:

Accreditation No: BPAD 37802



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 320, Beenyup Grove Estate				
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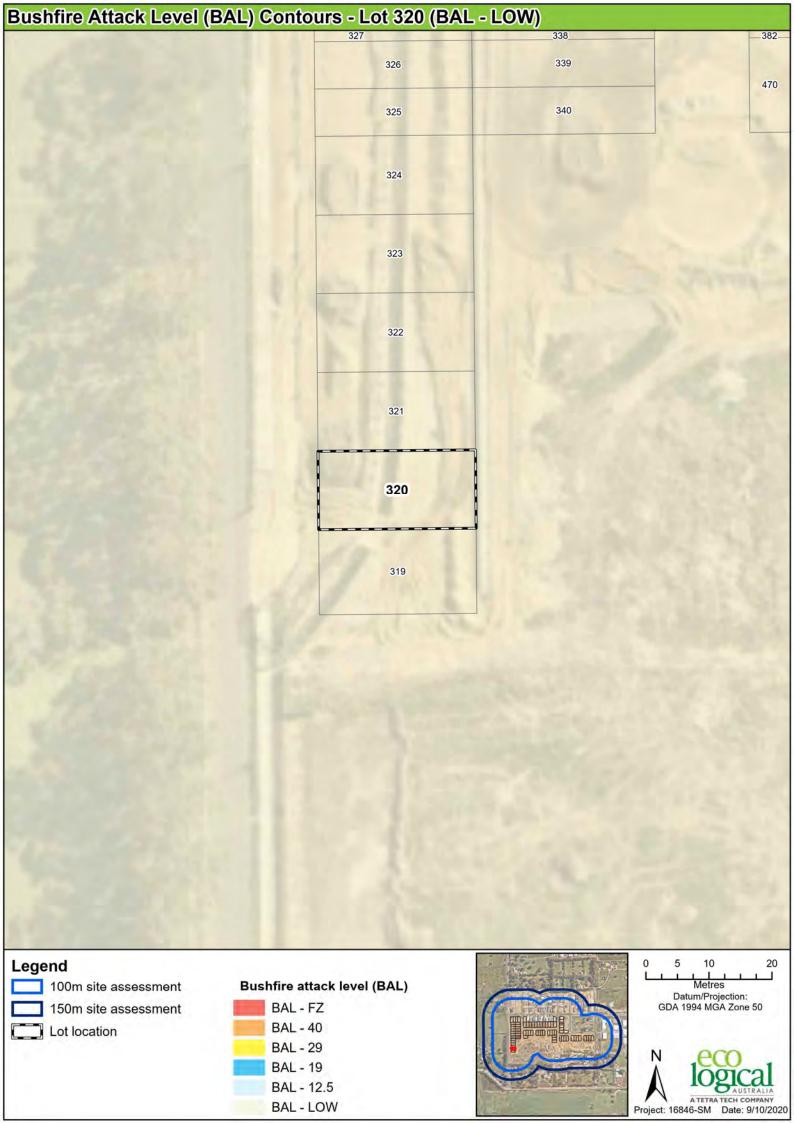
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Level 3



**Determined in accordance with AS 3959-2018** 

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Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarral	Shire of Serpentine Jarrahdale			
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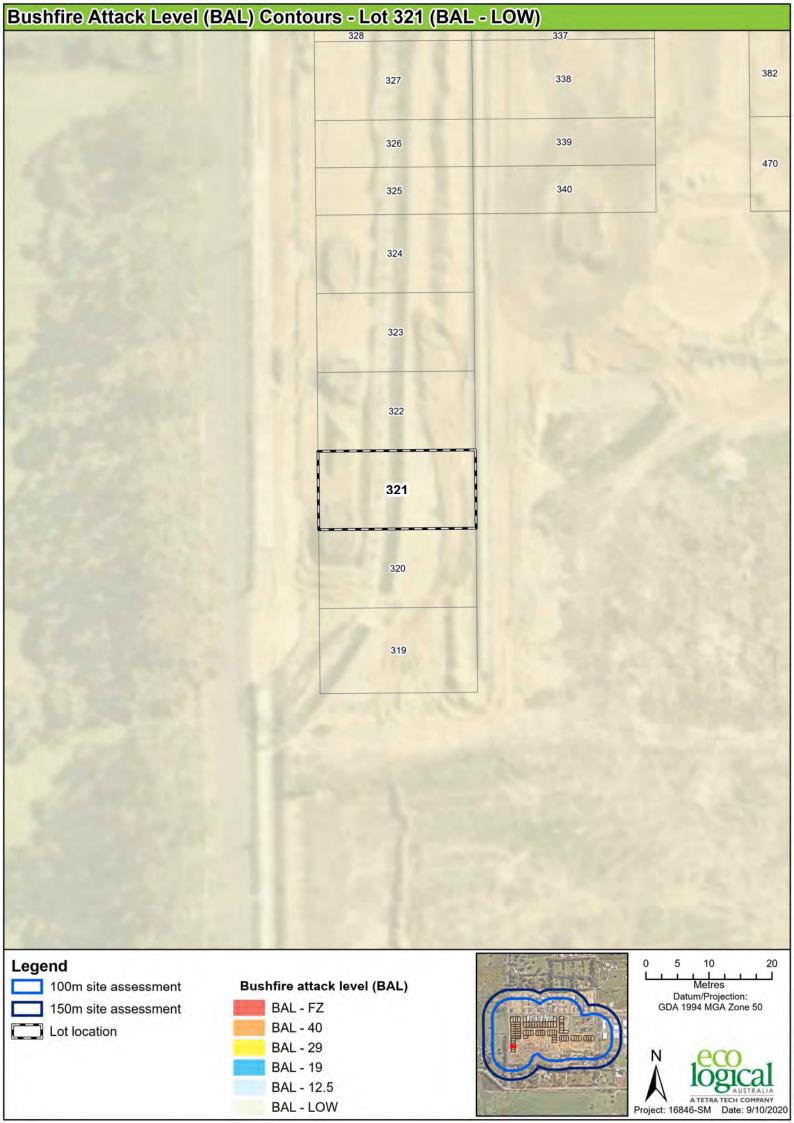
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Site Details					
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Suburb:	Byford, 6122			WA	
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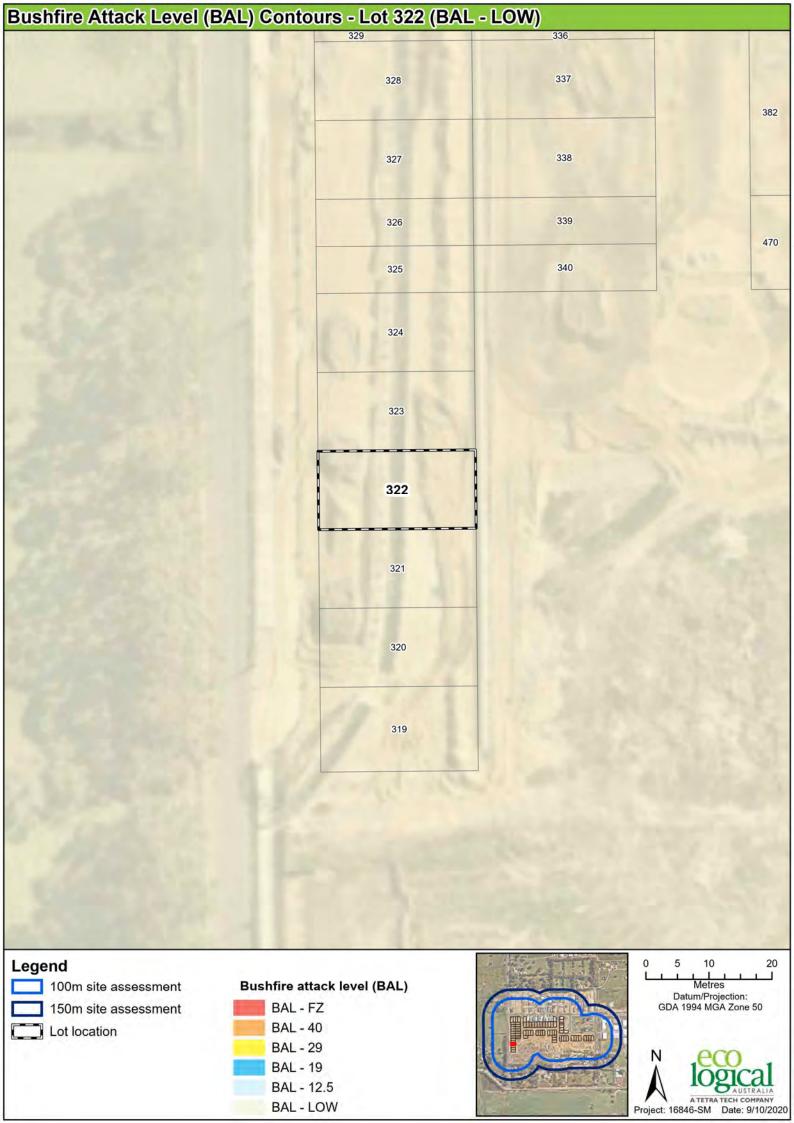
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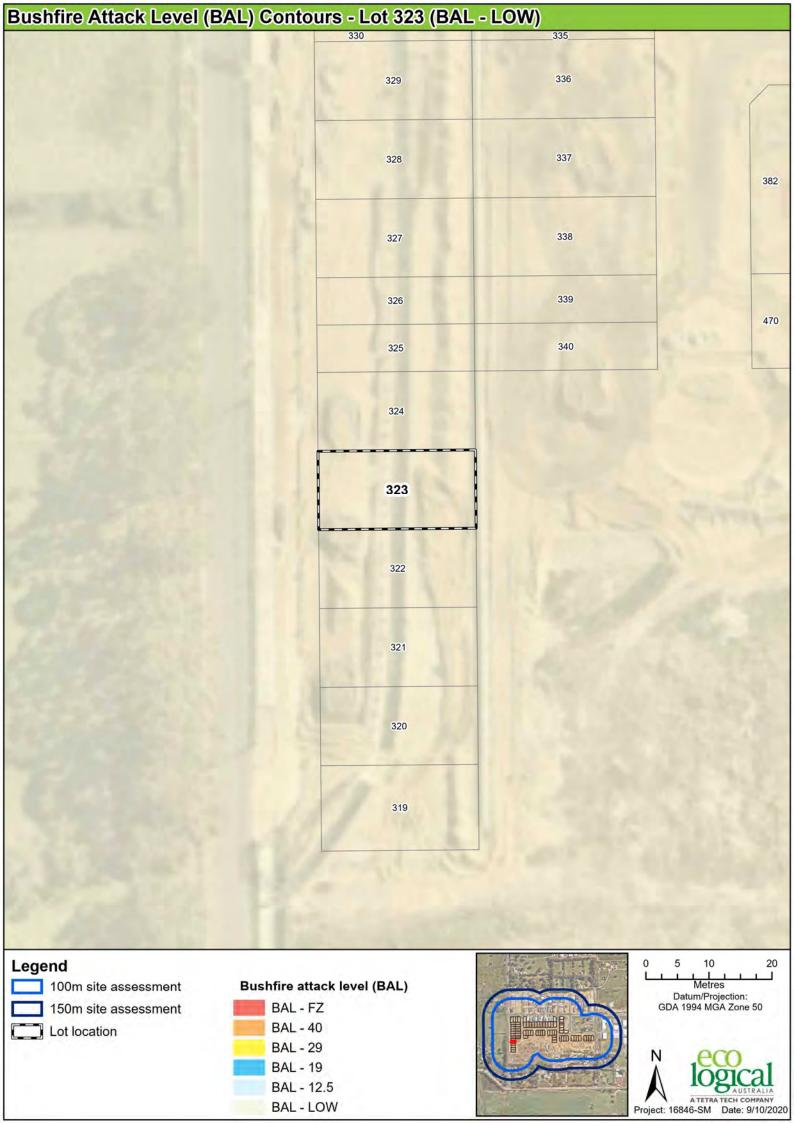
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Suburb:	Byford, 6122			State:	WA
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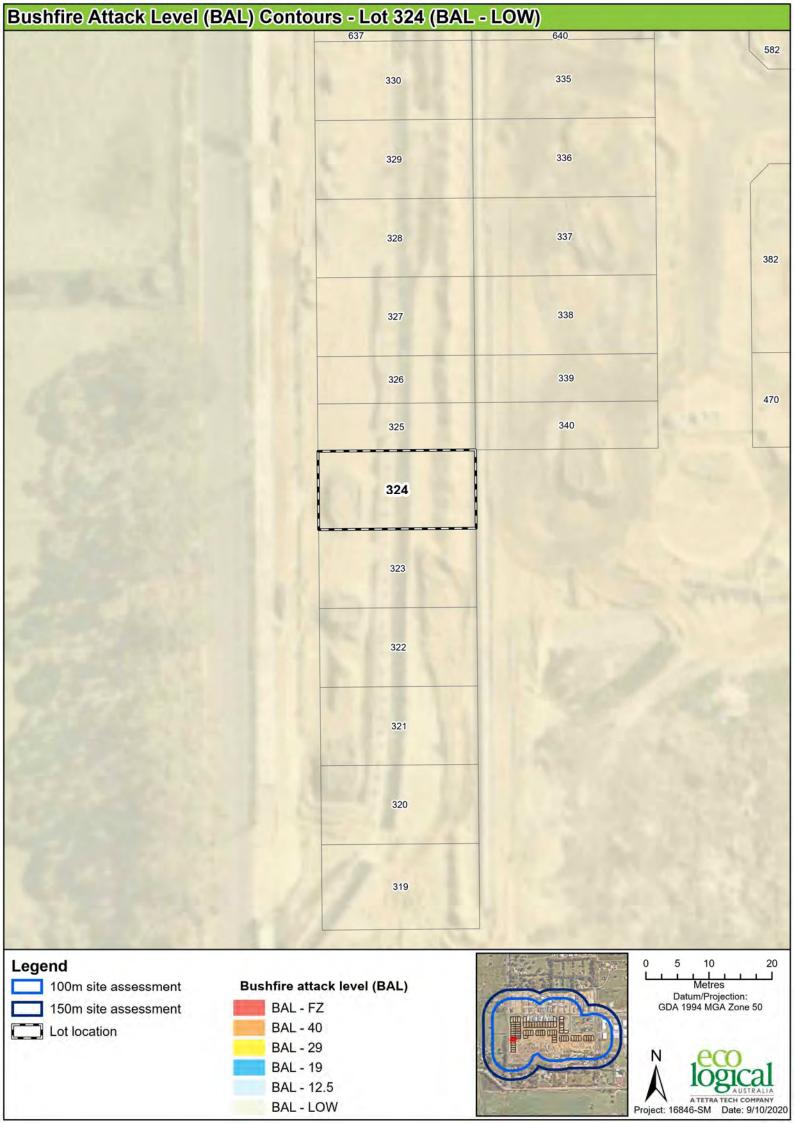
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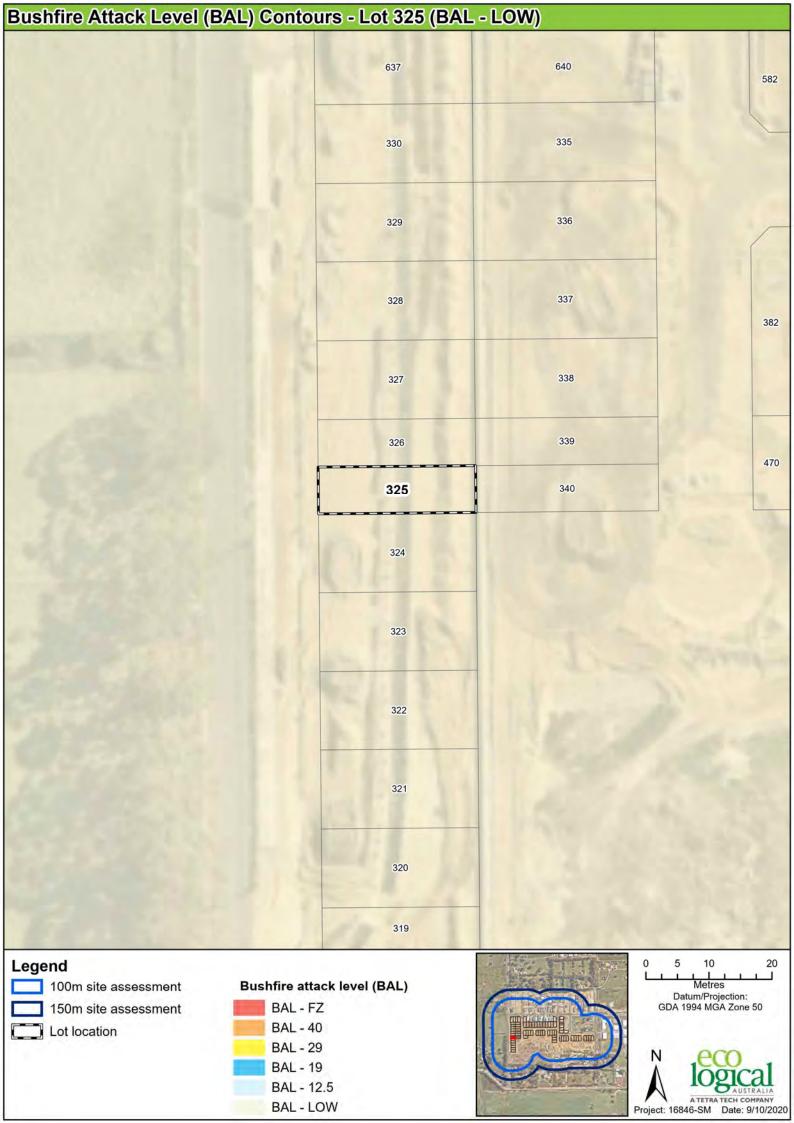
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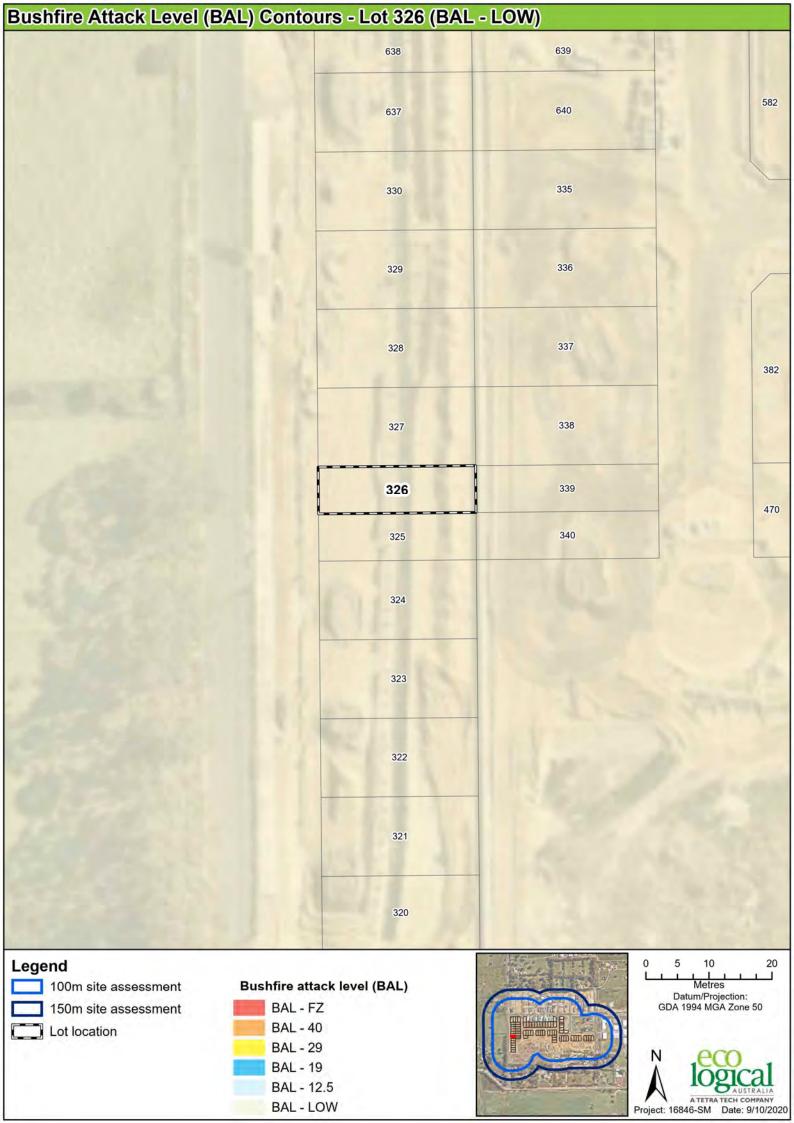
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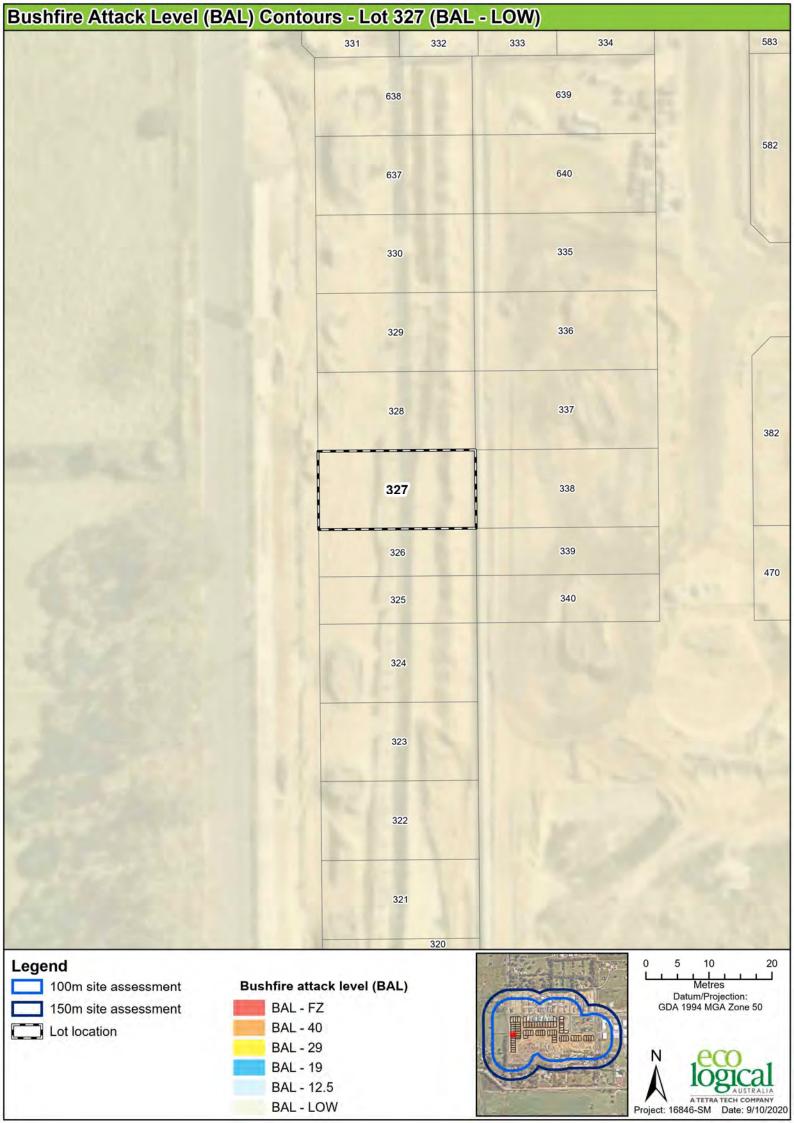
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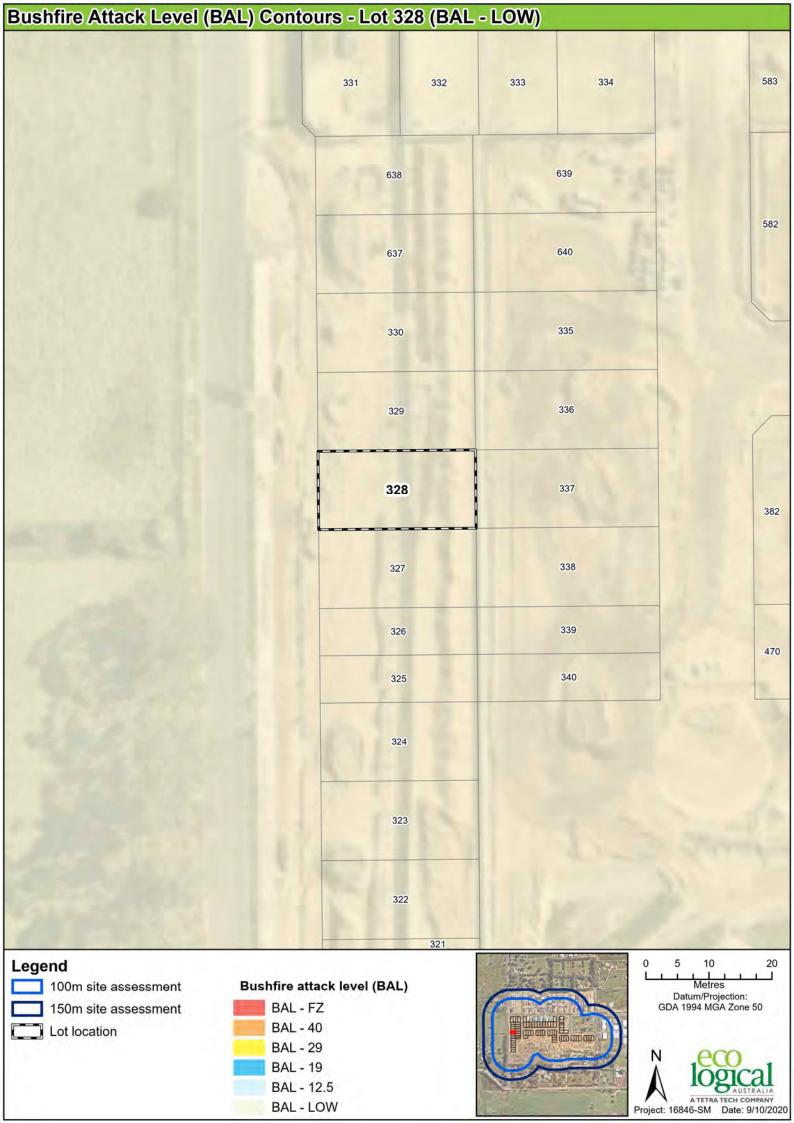
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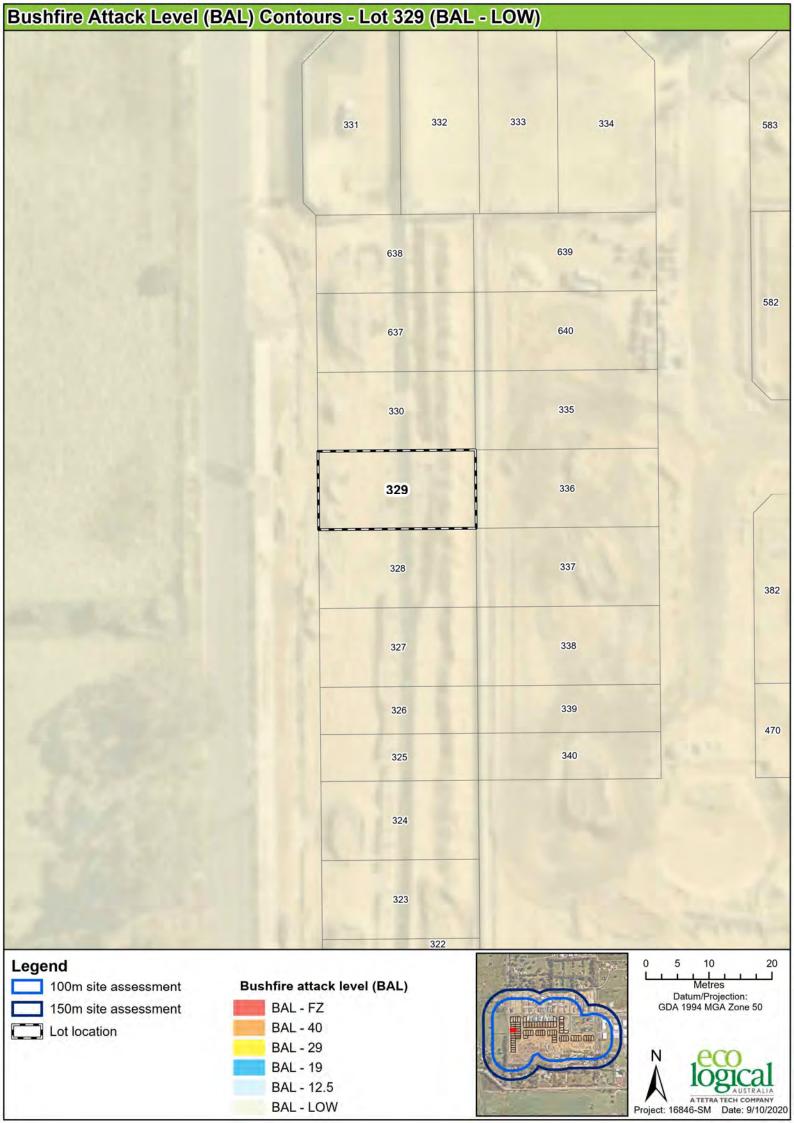
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Site Details							
Address:	Lot 637, Beenyup Grove Estate						
Suburb:	Byford, 6122		State:	WA			
Local Government Area:	Shire of Serpentine Jarrahdale						
Use of building	Residential Dwelling	Main BCA class:	Class 1a				
Report / Job Number:	20PER-16864	Report Date:	09/10/2	020			

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

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Site Details							
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Suburb:	Byford, 6122				WA		
Local Government Area:	Shire of Serpentine Jarrahdale						
Use of building	Residential Dwelling	Main BCA class:	Class 1a				
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Site Details					
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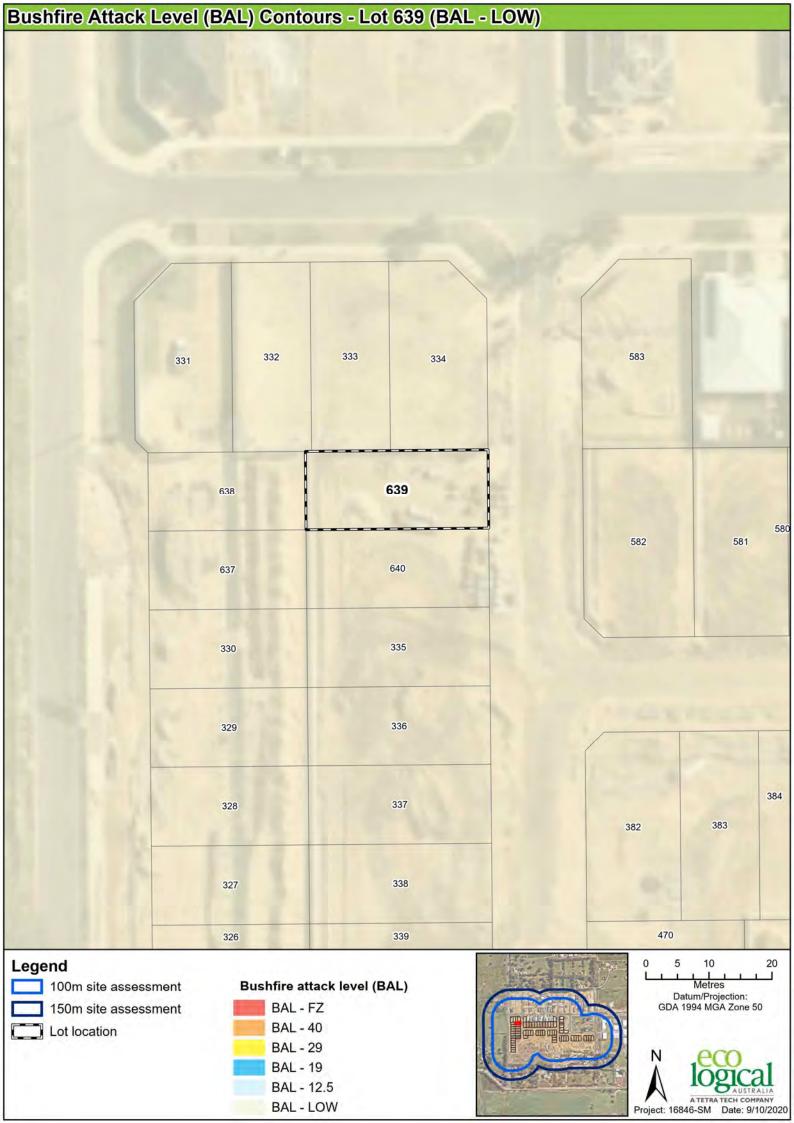
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Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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.

Name Daniel Panickar

Eco Logical Australia

09/10/2020

Signature:



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 335, Beenyup Grove Estate				
Suburb:	Byford, 6122	State: WA			
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 336, Beenyup Grove Estate					
Suburb:	Byford, 6122			te:	WA	
Local Government Area:	Shire of Serpentine Jarrah	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2020			

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

## **Practitioner Details**

Signature:

**Certificate Date:** 

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.

Name Daniel Panickar

Eco Logical Australia

09/10/2020



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 337, Beenyup Grove Estate					
Suburb:	Byford, 6122			State:	WA	
Local Government Area:	Shire of Serpentine Jarrah	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2020	0		

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 338, Beenyup Grove Estate					
Suburb:	Byford, 6122			e: WA		
Local Government Area:	Shire of Serpentine Jarrah					
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2020			

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

**Daniel Panickar** Name

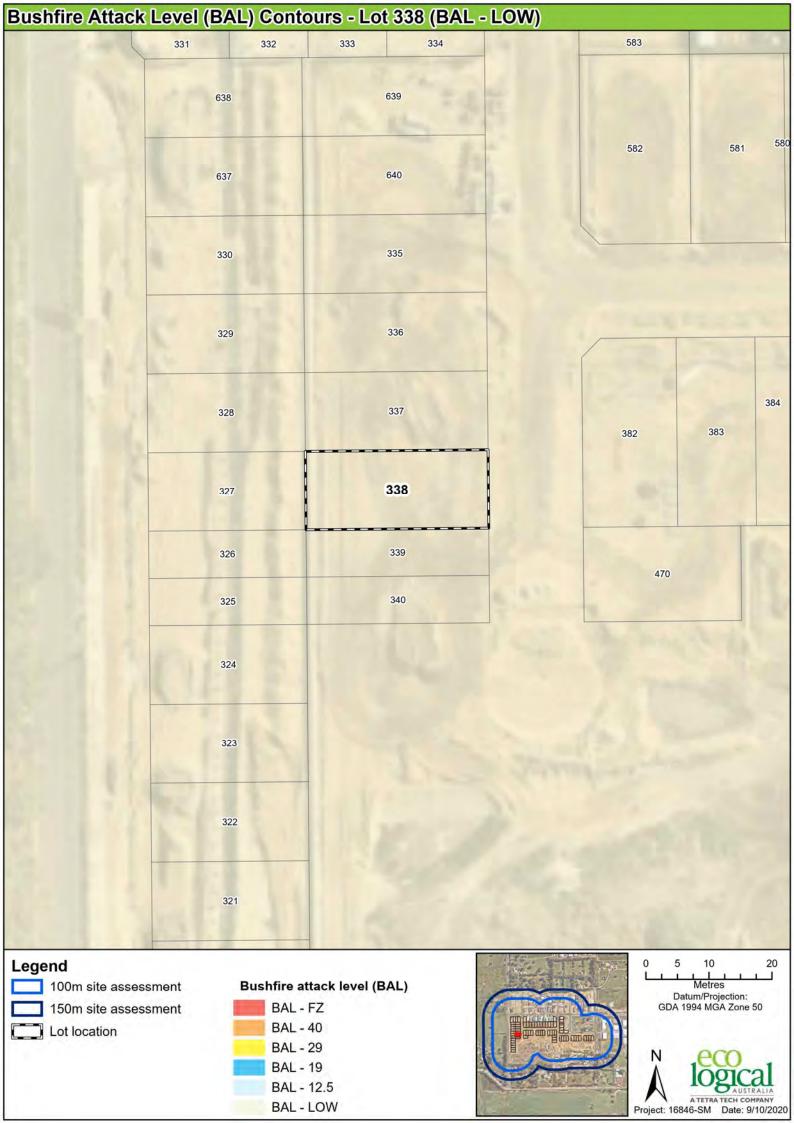
Eco Logical Australia

09/10/2020

Signature:

**Certificate Date:** 

Accreditation No: BPAD 37802



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 339, Beenyup Grove Estate					
Suburb:	Byford, 6122			State:	WA	
Local Government Area:	Shire of Serpentine Jarrah	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2020	0		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

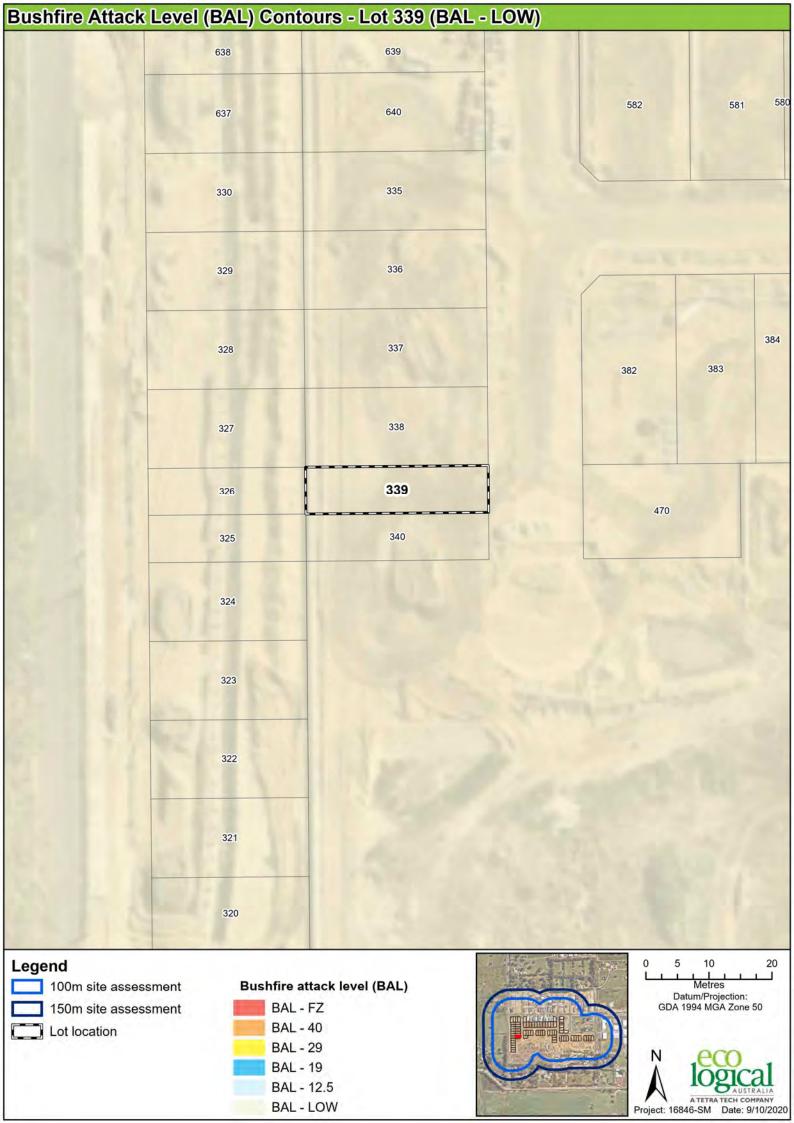
Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 340, Beenyup Grove Estate					
Suburb:	Byford, 6122			State:	WA	
Local Government Area:	Shire of Serpentine Jarral	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2	020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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.

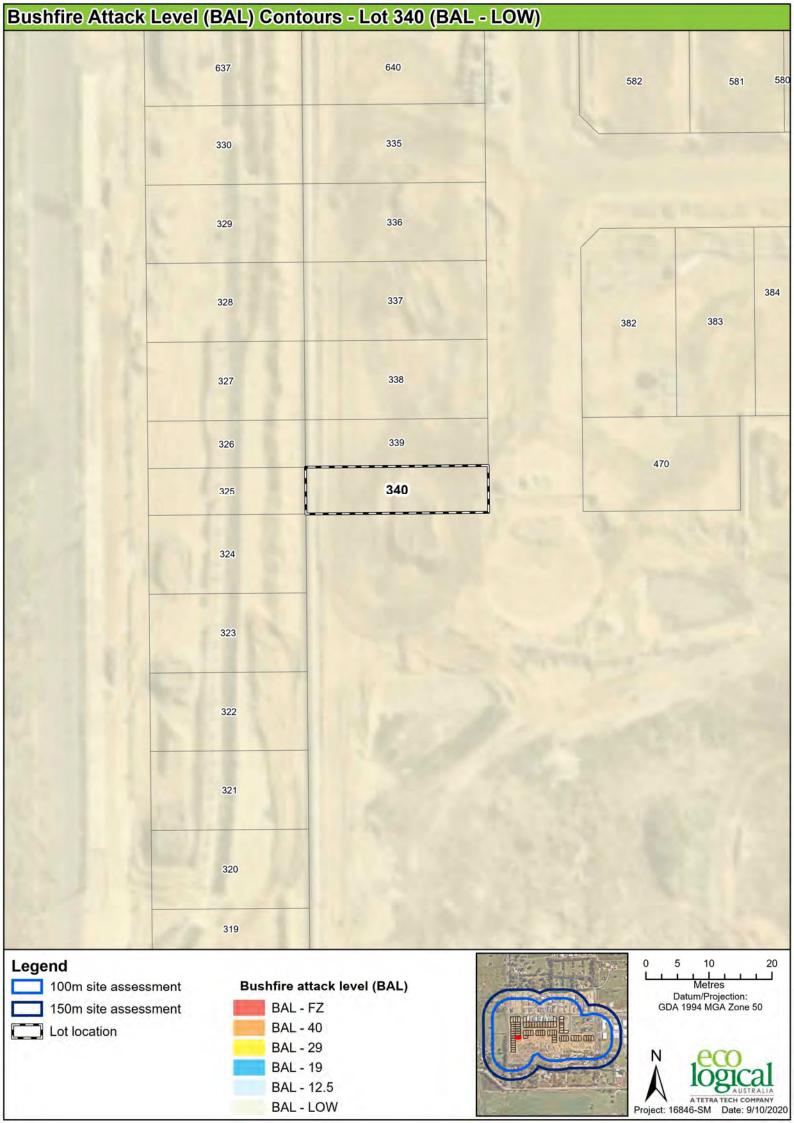
Name Daniel Panickar

Eco Logical Australia

09/10/2020

Signature:

Accreditation No: BPAD 37802



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 470, Beenyup Grove Estate					
Suburb:	Byford, 6122			State:	WA	
Local Government Area:	Shire of Serpentine Jarral	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

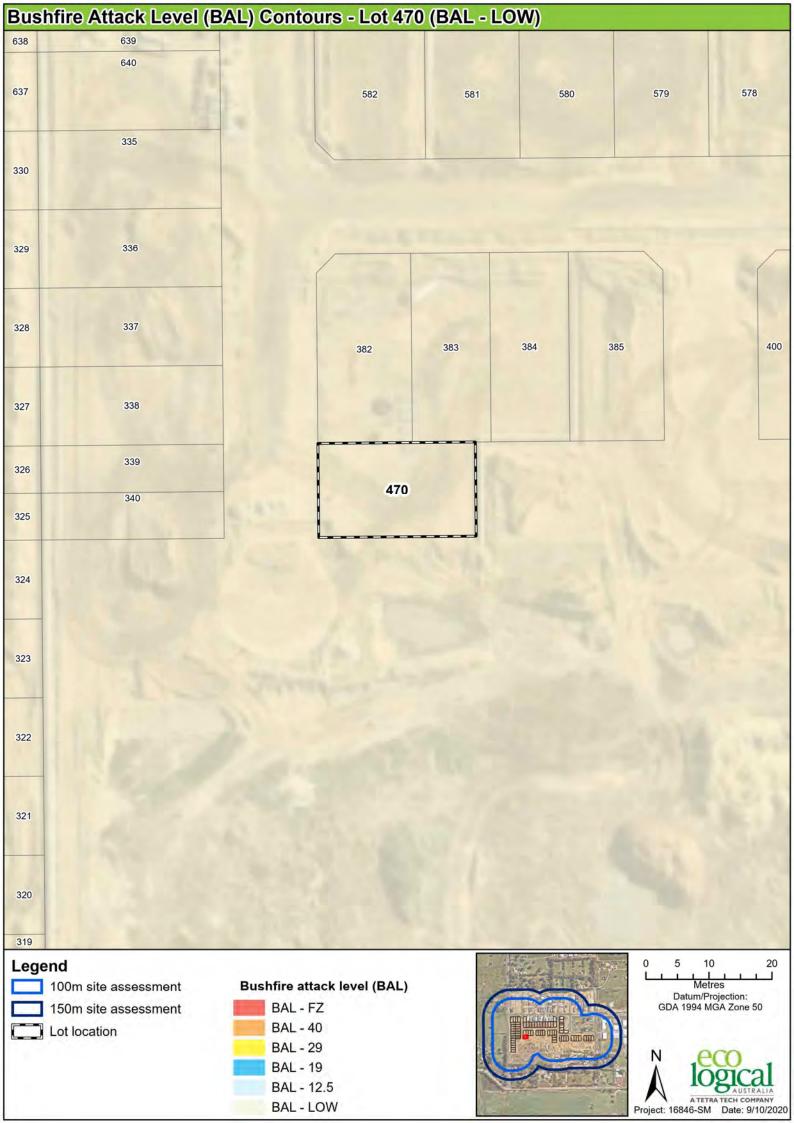
Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 382, Beenyup Grove Estate				
Suburb:	Byford, 6122			tate:	WA
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2020	)	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

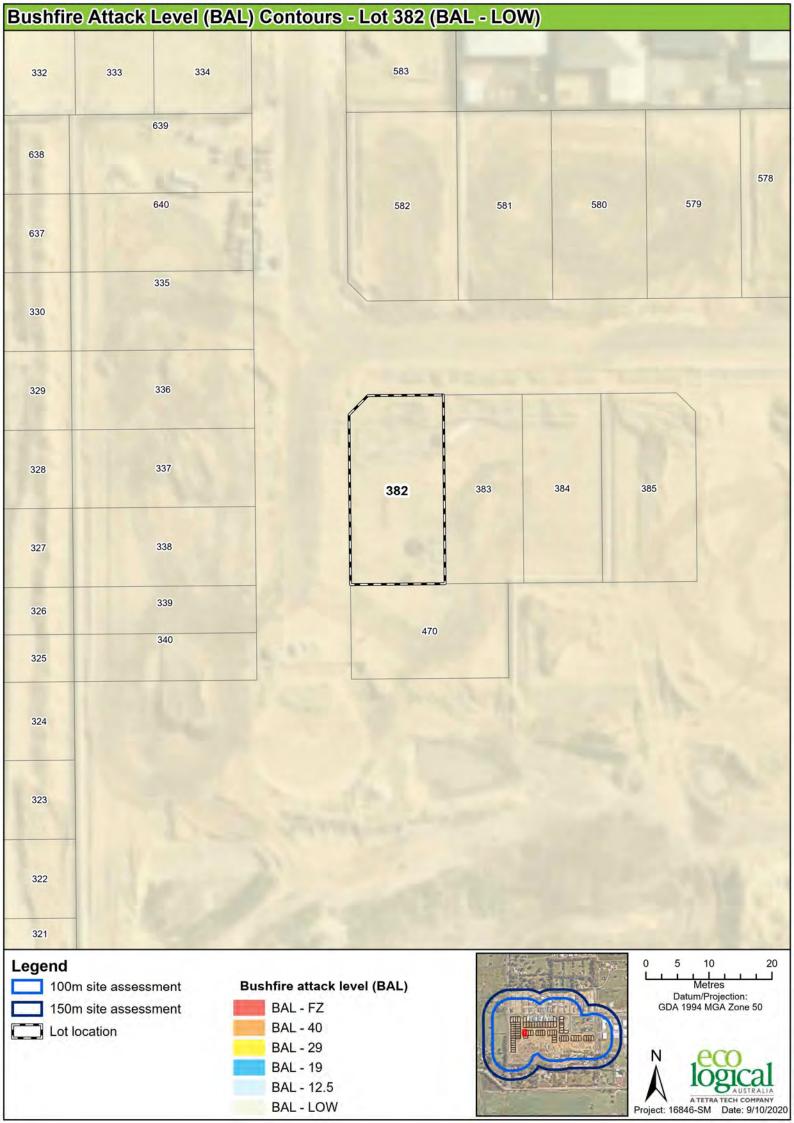
Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 383, Beenyup Grove Estate				
Suburb:	Byford, 6122			ate:	WA
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

Signature:

**Certificate Date:** 

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.

**Daniel Panickar** Name

Eco Logical Australia

09/10/2020

Accreditation No: BPAD 37802



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 384, Beenyup Grove Estate				
Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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.

Name Daniel Panickar

Eco Logical Australia

Signature:

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 385, Beenyup Grove Estate				
Suburb:	Byford, 6122	State: WA			
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details					
Lot 400, Beenyup Grove Estate					
Byford, 6122			tate:	WA	
Shire of Serpentine Jarrahdale			•		
Residential Dwelling	Main BCA class:	Class 1a			
20PER-16864	Report Date:	09/10/2020	0		
	Lot 400, Beenyup Grove Byford, 6122 Shire of Serpentine Jarral Residential Dwelling	Lot 400, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling Main BCA class:	Lot 400, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling  Main BCA class:  Class 1a	Lot 400, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling  Main BCA class:  Class 1a	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 401, Beenyup Grove Estate				
Suburb:	Byford, 6122			: WA	
Local Government Area:	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

Signature:

**Certificate Date:** 

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.

Name Daniel Panickar

Eco Logical Australia

09/10/2020

Planning & Design
Accredited Practitioner
Level 3

Accreditation No. PRAD 2790



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 402, Beenyup Grove Estate				
Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarral	ndale			
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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.

**Daniel Panickar** Name

Eco Logical Australia

09/10/2020

Signature:

Accreditation No: BPAD 37802

Expiry: December 2020



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 575, Beenyup Grove Estate				
Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarral	ndale			
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/2	020	

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

## **Practitioner 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 AS 3959-2018.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details					
Address:	Lot 576, Beenyup Grove Estate				
Suburb:	Byford, 6122			State:	WA
Local Government Area:	Shire of Serpentine Jarral	ndale			
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020	

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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.

Name Daniel Panickar

Eco Logical Australia

09/10/2020

Signature:

Acc



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 577, Beenyup Grove Estate					
Suburb:	Byford, 6122			ate:	WA	
Local Government Area:	Shire of Serpentine Jarrah	ndale	<del>-</del>	•		
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/2020			

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

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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.

Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 578, Beenyup Grove Estate					
Suburb:	Byford, 6122				WA	
Local Government Area:	Shire of Serpentine Jarral	Shire of Serpentine Jarrahdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020		

Determination of Highest Bushfire Attack Level						
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL		
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW		

## **Practitioner Details**

Signature:

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.

Name Daniel Panickar

Eco Logical Australia

Certificate Date: 09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 579, Beenyup Grove Estate					
Suburb:	Byford, 6122				WA	
Local Government Area:	Shire of Serpentine Jarral	hdale				
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner 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 AS 3959-2018.

Name

Eco Logical Australia

**Daniel Panickar** 

Signature:

**Certificate Date:** 

09/10/2020

Accreditation No: BPAD 37802

Expiry: December 2020



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 580, Beenyup Grove Estate					
Suburb:	Byford, 6122		State:	WA		
Local Government Area:	Shire of Serpentine Jarrahdale					
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/20	020		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

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Name Daniel Panickar

Eco Logical Australia

Signature:

Certificate Date: 09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Lot 581, Beenyup Grove Estate						
Byford, 6122				WA		
Shire of Serpentine Jarrahdale						
Residential Dwelling	Main BCA class:	Class 1a				
20PER-16864	Report Date:	09/10/202	20			
	Lot 581, Beenyup Grove I Byford, 6122 Shire of Serpentine Jarral Residential Dwelling	Lot 581, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling Main BCA class:	Lot 581, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling Main BCA class: Class 1a	Lot 581, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling  Main BCA class:  Class 1a		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

## **Practitioner Details**

**Certificate Date:** 

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Name Daniel Panickar

Eco Logical Australia

Signature:

09/10/2020



**Determined in accordance with AS 3959-2018** 

Site Details						
Lot 582, Beenyup Grove Estate						
Byford, 6122				WA		
Shire of Serpentine Jarrahdale						
Residential Dwelling	Main BCA class:	Class 1a				
20PER-16864	Report Date:	09/10/20	020			
	Lot 582, Beenyup Grove I Byford, 6122 Shire of Serpentine Jarral Residential Dwelling	Lot 582, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling Main BCA class:	Lot 582, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling Main BCA class: Class 1a	Lot 582, Beenyup Grove Estate  Byford, 6122  Shire of Serpentine Jarrahdale  Residential Dwelling  Main BCA class:  Class 1a		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

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Name Daniel Panickar

Eco Logical Australia

Signature:

**Certificate Date:** 

09/10/2020

BPAD
Bushfire
Planning & Design
Accredited Practitioner
Level 3



**Determined in accordance with AS 3959-2018** 

Site Details						
Address:	Lot 583, Beenyup Grove Estate					
Suburb:	Byford, 6122		State:	WA		
Local Government Area:	Shire of Serpentine Jarrahdale					
Use of building	Residential Dwelling	Main BCA class:	Class 1a			
Report / Job Number:	20PER-16864	Report Date:	09/10/20	)20		

Determination of Highest Bushfire Attack Level					
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL	
Method 1	Excluded as per clause 2.2.3.2 (e) and (f)	N/A	N/A	BAL - LOW	

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Signature:

Accreditation No: BPAD 37802 09/10/2020 Expiry: December 2020

