

Date: 21 November 2020

Our ref: 20PER-17493

Parcel Property Level 5, 14 Walters Drive, OSBORNE PARK WA 6017

Bushfire Attack Level (BAL) Assessment Report for Stage 1 Natures Edge Estate, Southern River

Site Details			
Address: Natures Edge Estate, So	outhern River: Lots 124-162.		
Suburb:	Southern River, 6110	State	Western Australia
Local Government Area:	City of Gosnells		
Description of building works:	Residential Development		

Report details			
Report/Job number:	17493	Report version:	V1
Assessment date:	14 October 2020	Report date:	21 November 2020
Author:	Stephen Moore and Daniel Panickar	Review:	Daniel Panickar (BPAD Level 3 – 37802)
			BPAD Bushfire Planning & Design Accredited Practitioner Level 3

SITE ASSESSMENT AND SITE PLAN

The assessment of the 39 subject lots was undertaken on 14 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 150 m of the 39 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 City of Gosnells in the future.

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Plot 1 Classification or Exclusion Clause

Class B woodland

Photo Point 1

This plot comprises wetland vegetation in a Resource Enhancement Wetland and associated buffer within Natures Edge Estate.

This area will be revegetated to resemble a woodland structure. Classified vegetation within this plot will be comprised of trees between 10 to 30 m tall with approximately 20 to 30% foliage cover. Some sedges/reeds and shrubs will be present at the base of the trees.

Slope under the vegetation has been assessed as upslope/ flat land.

Plot 1 Classification or Exclusion Clause

Photo Point 2

This plot comprises wetland vegetation in a Resource Enhancement Wetland and associated buffer within Natures Edge Estate.

This area will be revegetated to resemble a woodland structure. Classified vegetation within this plot will be comprised of trees between 10 to 30 m tall with approximately 20 to 30% foliage cover. Some sedges/reeds and shrubs will be present at the base of the trees.

Slope under the vegetation has been assessed as upslope/ flat land.

Plot 2 Classification or Exclusion Clause

Photo Point 3

This plot comprises wetland vegetation in a Resource Enhancement Wetland and associated buffer outside of Natures Edge Estate.

This area will be revegetated to resemble a woodland structure. Classified vegetation within this plot will be comprised of trees between 10 to 30 m tall with approximately 20 to 30% foliage cover. Some sedges/reeds and shrubs will be present at the base of the trees.

Slope under the vegetation has been assessed as upslope/ flat land.



NW

NE





Plot 3 Classification or Exclusion Clause

Photo Point 4

This plot comprises unmanaged grassland on land outside of Natures Edge Estate.

Classified vegetation within this plot is comprised of exotic grasses with overstorey of less than 10%.

Slope under the vegetation has been assessed as upslope/flat land.



Plot 4 Classification or Exclusion Clause

Excluded under clause 2.2.3.2 (e) and (f)

Class G grassland

Photo Point 5

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This area has been cleared for construction within Natures Edge Estate and is being maintained by the developer.



Plot 4 Classification or Exclusion Clause

Photo Point 6

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This area has been cleared for construction within Natures Edge Estate and is being maintained by the developer.



Plot 4 Classification or Exclusion Clause

Photo Point 7

This plot comprises rural-residential properties outside of Natures Edge Estate.

Vegetation is comprised of scattered trees over managed turf and appears to be well-maintained.



Plot 4 Classification or Exclusion Clause

Excluded under clause 2.2.3.2 (e) and (f)

Excluded under clause 2.2.3.2 (e) and (f

Photo Point 8

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This area has been cleared for construction outside of Natures Edge Estate and is being maintained by the developer.



Plot 4 Classification or Exclusion Clause

Photo Point 9

This plot has been excluded under Clause 2.2.3.2 (e) & (f) of AS 3959-2018. This area has been cleared for construction outside of Natures Edge Estate and is being maintained by the developer.



RELEVANT FIRE DANGER INDEX

A blanket rating of FDI 80 is adopted for Western Australia, as outlined in Australian Standard (AS) 3959-2018 and endorsed by Australasian Fire and Emergency Service Authorities Council (AFAC).

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.

Separation distances required Plot **Vegetation Classification Effective Slope** BAL-FZ BAL-40 BAL-29 BAL-19 BAL-12.5 1 Class B woodland Upslope/ flat land <10 10-<14 14-<20 20-<29 29-<100 2 Class B woodland Upslope/ flat land <10 10-<14 14-<20 20-<29 29-<100 6-<8 2 Class G grassland Upslope/ flat land <6 8-<12 12-<17 17-<50 Excluded under Clause 3 No separation distances required – BAL-LOW N/A 2.2.3.2 (e) & (f)

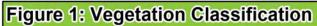
Table 1: BAL Analysis AS 3959-2018

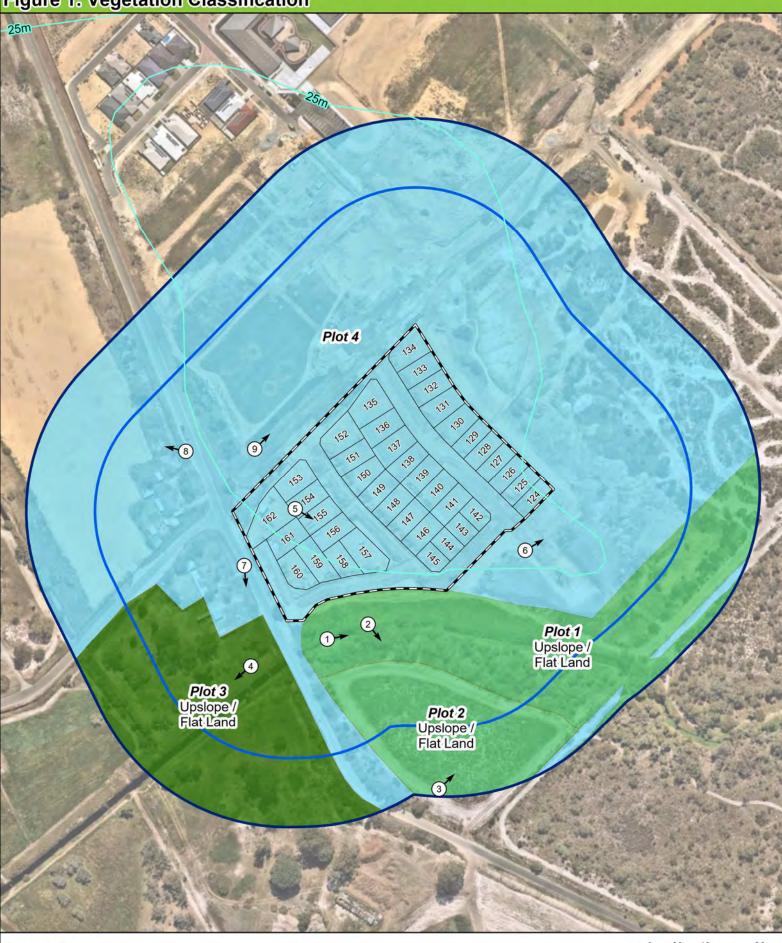
DETERMINED BUSHFIRE ATTACK LEVEL (BAL)

The determined Bushfire Attack Level (highest BAL) for the 39 subject lots has been determined in accordance with Clause 2.2.6 of AS 3959-2018 using the above analysis, Table 2 and Figure 2.

BAL	Affected lots	Construction sections to be consulted in AS 3959-2018
BAL-FZ	Nil	N/A
BAL-40	Nil	N/A
BAL-29	Determined Bushfire Attack Level for: Lots 145*, 157*, 158*, 159* and 160*.	N/A
BAL-19	Determined Bushfire Attack Level for: Lots 144* and 146*.	3 and 6
BAL-12.5	Determined Bushfire Attack Level for: Lots 124, 125*, 126*, 127*, 128*, 129*, 137*, 138*, 139, 140, 141, 142, 143, 147, 148, 149, 150, 151*, 152*, 153*, 154, 155, 156, 161 and 162.	3 and 5
BAL-LOW	Determined Bushfire Attack Level for: Lots 130, 131, 132, 133, 134, 135 and 136.	3 and 4

Table 2: BAL assessment summary



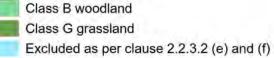


Legend

Subject site
 100m site assessment
 150m site assessment
 Lot boundary
 Contour (5m)



Vegetation classification



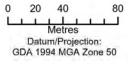
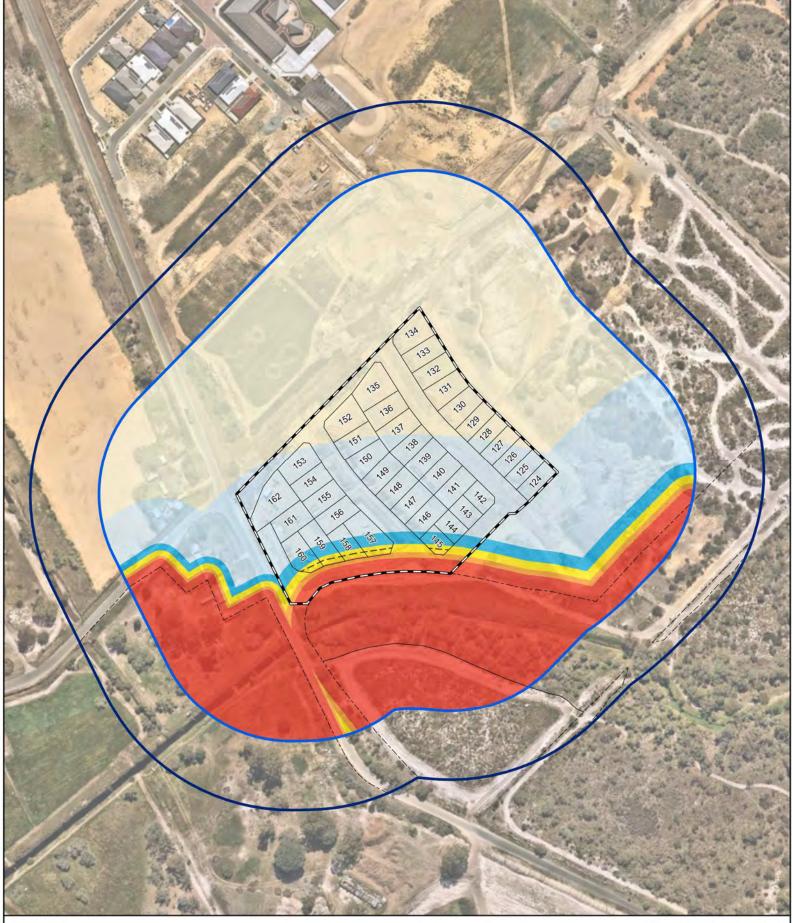




Figure 2: Bushfire Attack Level (BAL) Contours



Legend

 Subject site
100m site assessment
 150m site assessment
Lot boundary
 Lot setback (4m)
Bushfire Hazard Interface

Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5

BAL - LOW

0 20 40 80 Metres Datum/Projection: GDA 1994 MGA Zone 50



Appendix A – Additional Information / Advisory Notes

This assessment was undertaken as per AS 3959-2018. It is important that the current version of AS 3959, is consulted for construction purposes.

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

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 124, Natures Edge Es	Lot 124, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA				
Local Government Area:	City of Gosnells				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-17493	Report Date:	21/11/2020		

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	62 m	BAL - 12.5

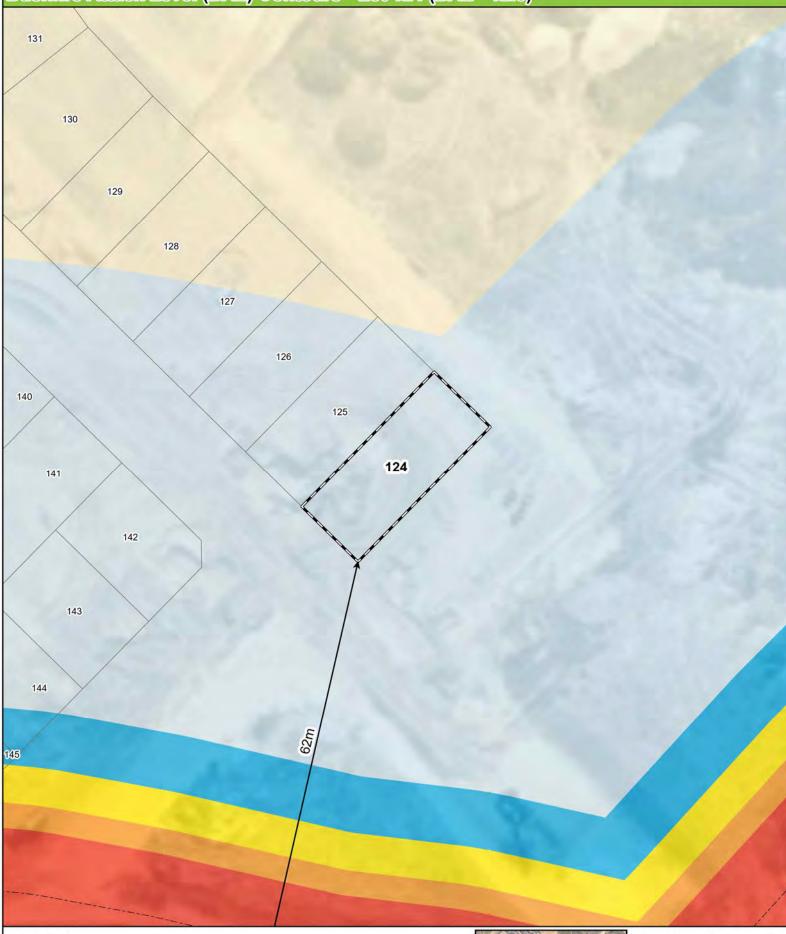
Practitioner Details

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:	DAR		
Certificate Date:	21/11/2020		

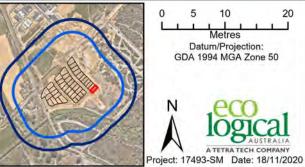


Bushfire Attack Level (BAL) Contours - Lot 124 (BAL - 12.5)





- 100m site assessment
 150m site assessment
 - Lot location
 - Bushfire Hazard Interface
- Distance to bushfire hazard interface
- Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details					
Address:	Lot 125, Natures Edge Es	Lot 125, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA				
Local Government Area:	City of Gosnells				
Use of building	Residential Dwelling Main BCA class: Class 1a				
Report / Job Number:	20PER-17493	Report Date:	21/11/2020		

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	69 m	BAL - 12.5

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:	DAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 125 (*BAL - 12.5)

Bushfire Hazard Interface

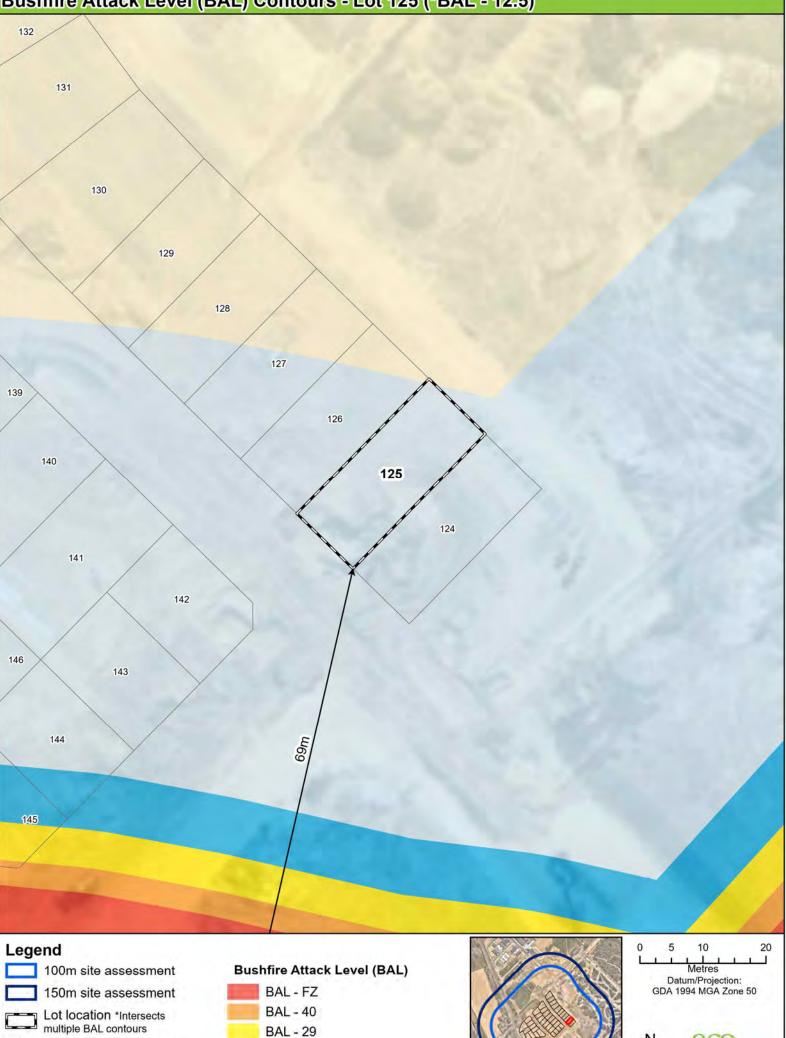
Distance to bushfire

hazard interface

BAL - 19

BAL - 12.5

BAL - LOW



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Determined in accordance with AS 3959-2018

Site Details					
Address:	Lot 126, Natures Edge Es	Lot 126, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA				
Local Government Area:	City of Gosnells				
Use of building	Residential Dwelling	Main BCA class:	Class 1a		
Report / Job Number:	20PER-17493	Report Date:	21/11/2020		

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	75 m	BAL - 12.5

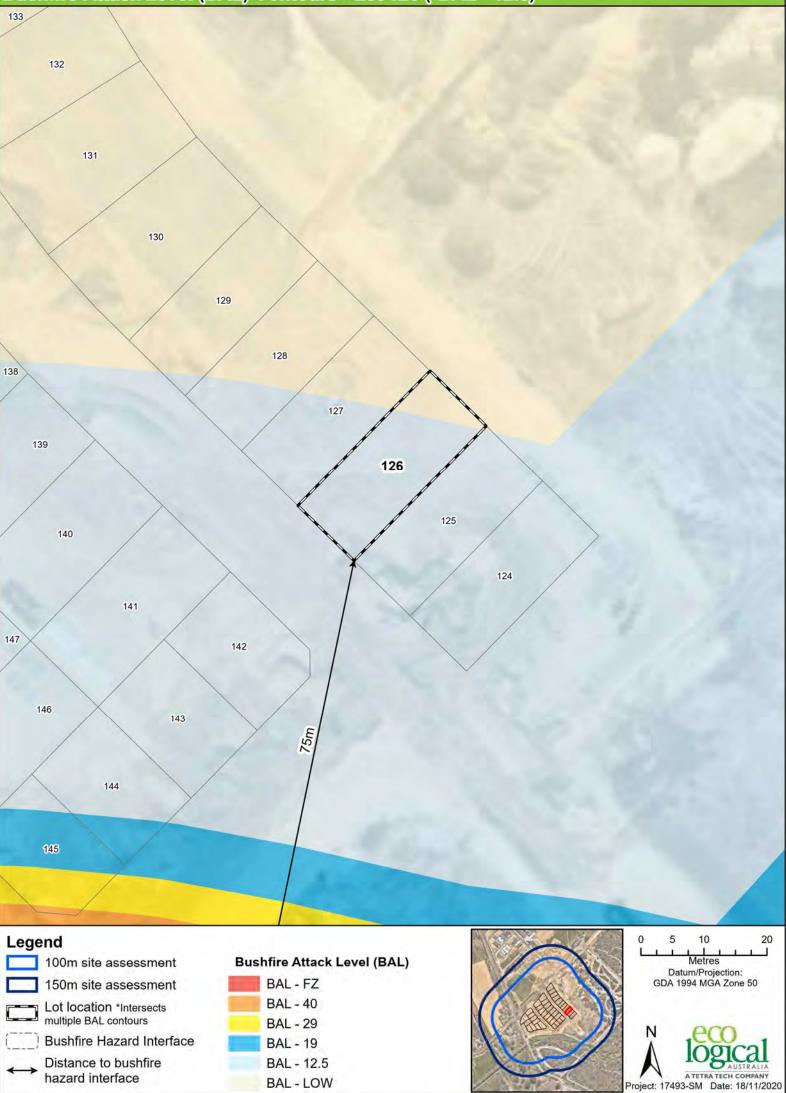
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 126 (*BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 127, Natures Edge Est	Lot 127, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

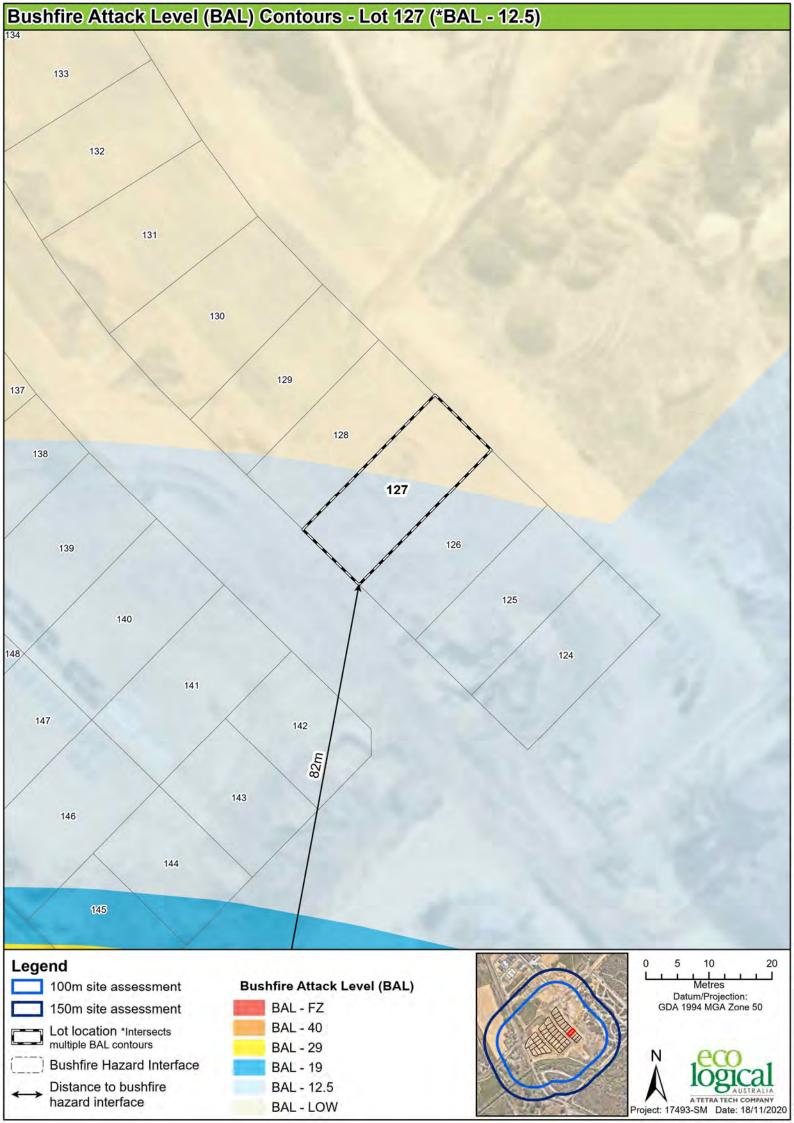
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	82 m	BAL - 12.5

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:	TAR		
Certificate Date:	21/11/2020		





Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 128, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	89 m	BAL - 12.5

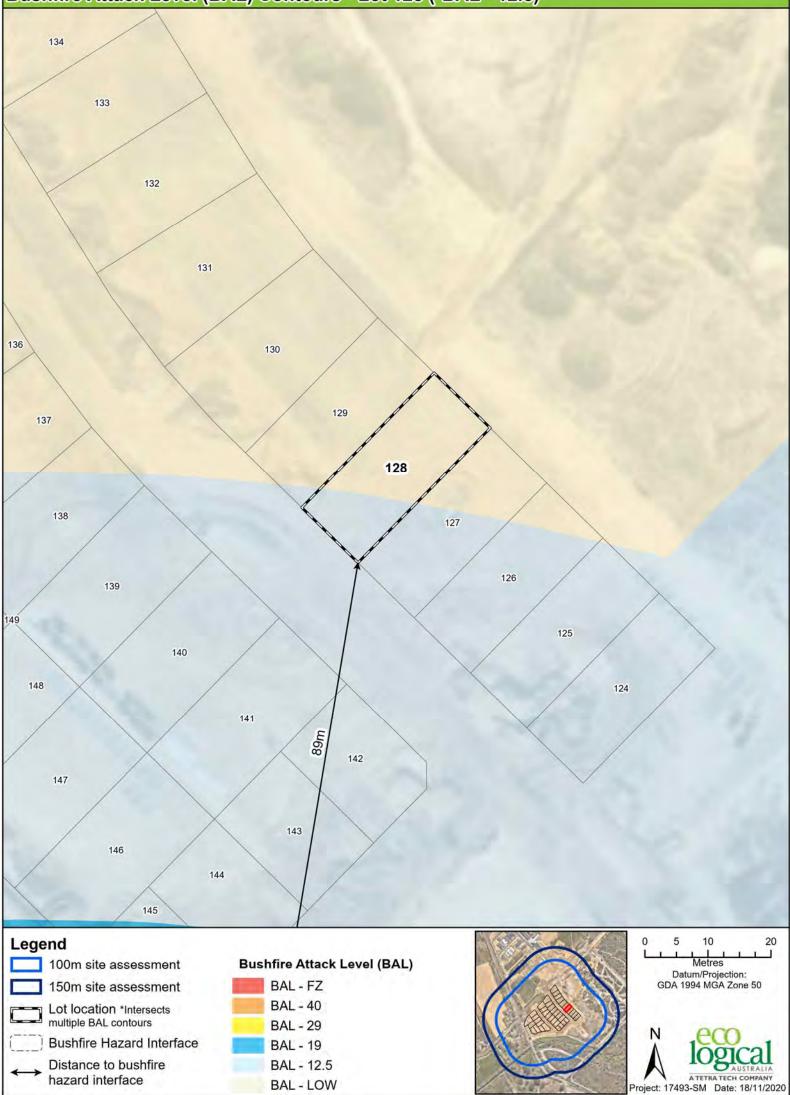
Practitioner Details

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Name	Daniel Panickar Eco Logical Australia		
Signature:	DAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 128 (*BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 129, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling Main BCA class: Class 1a			
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	97 m	BAL - 12.5

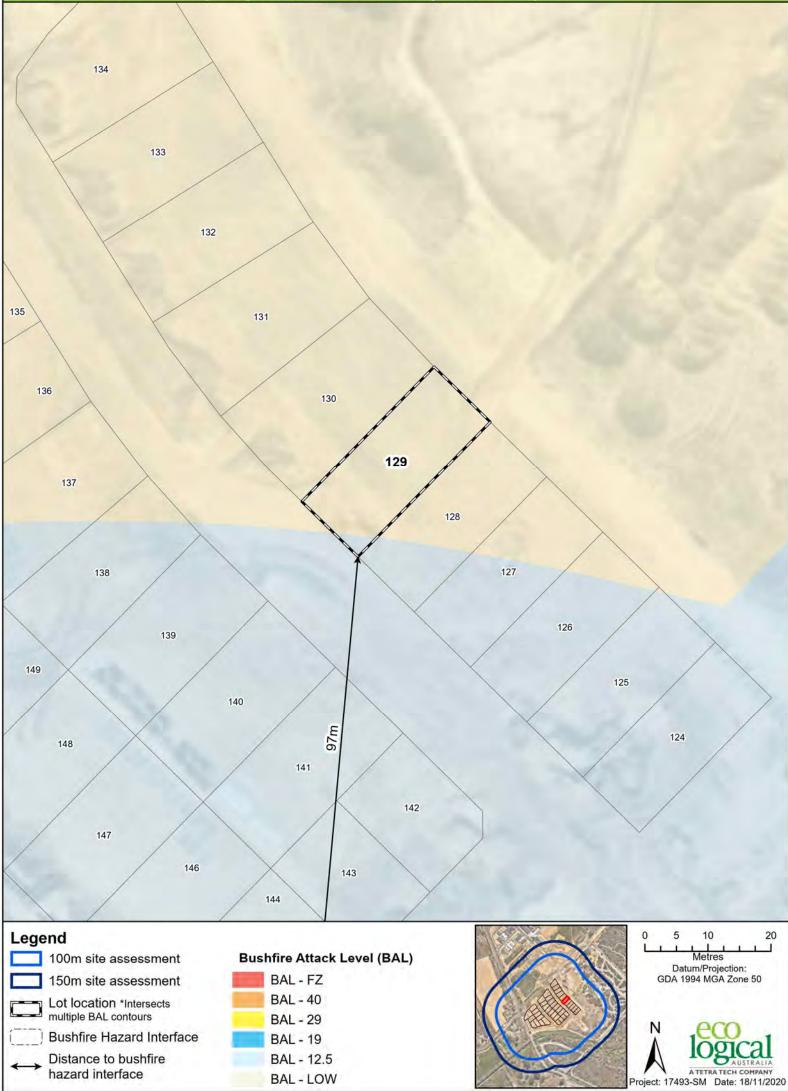
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 129 (*BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 130, Natures Edge Est	Lot 130, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	105 m	BAL - LOW

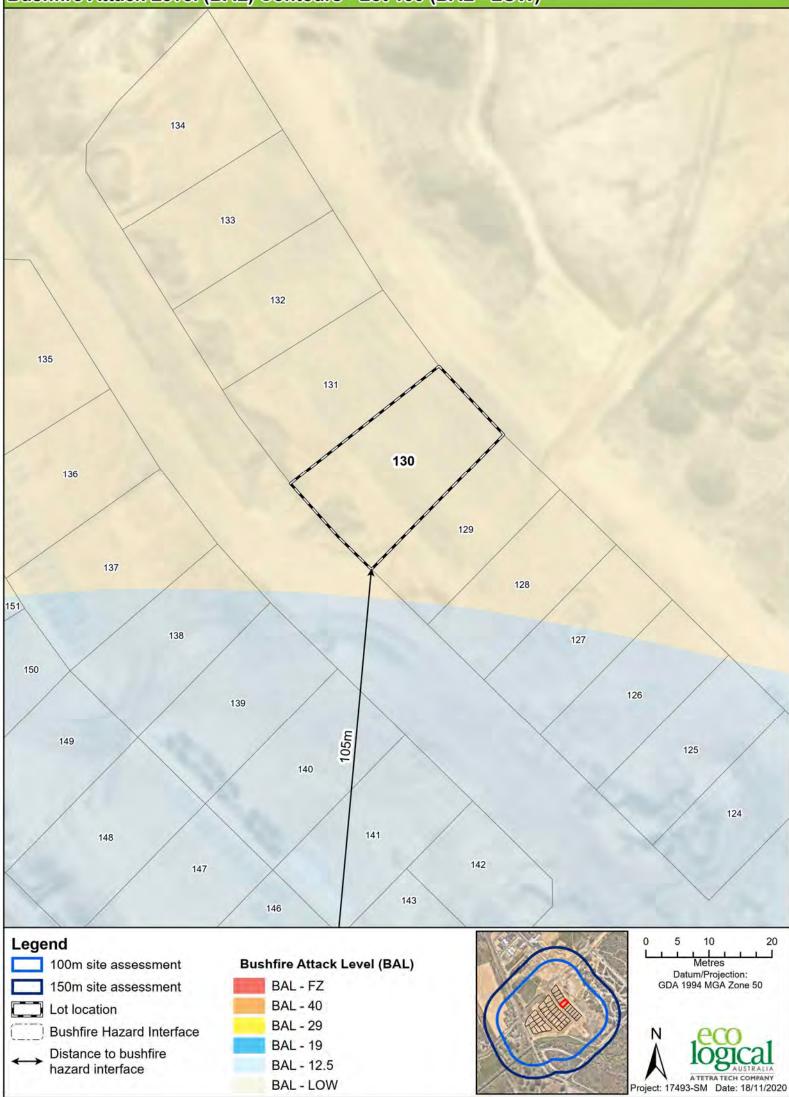
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 130 (BAL - LOW)



Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 131, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	117 m	BAL - LOW

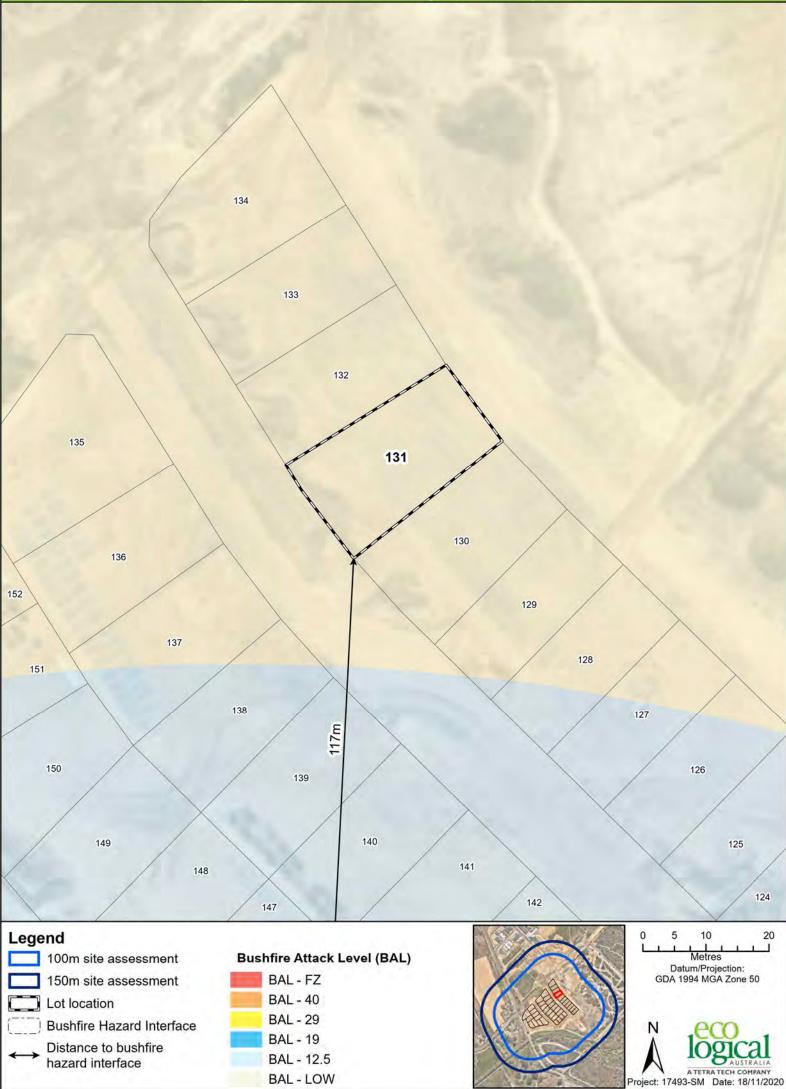
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 131 (BAL - LOW)



Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 132, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	132 m	BAL - LOW

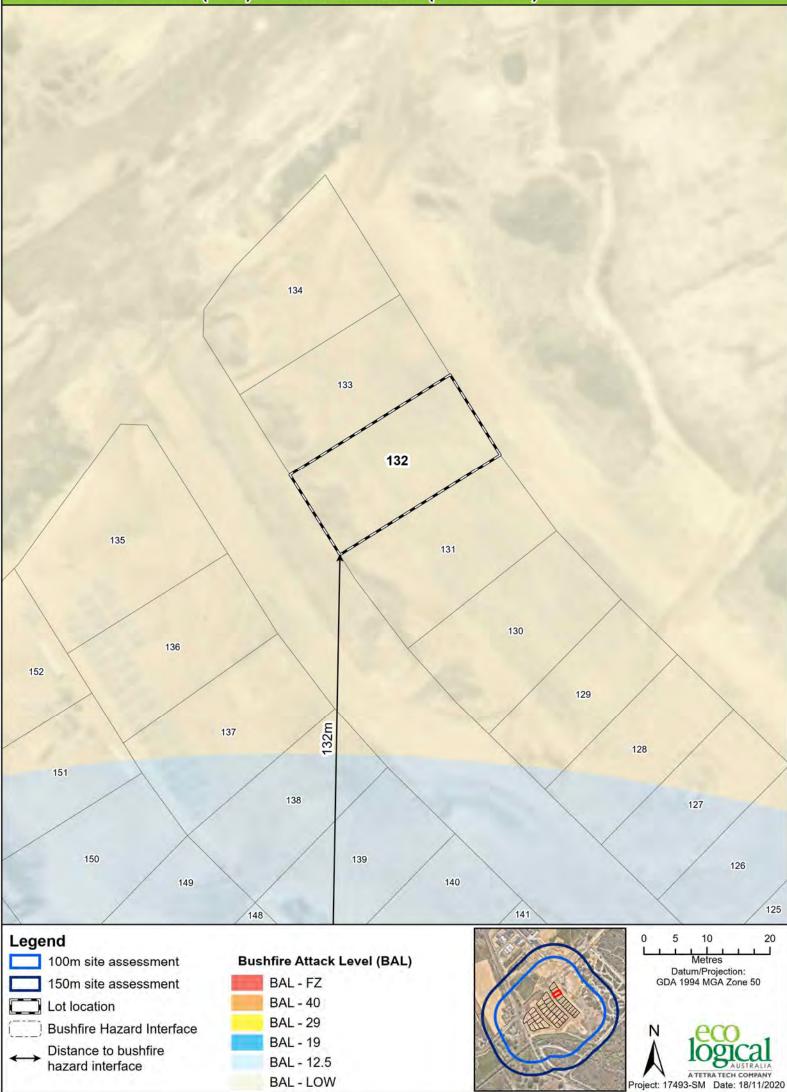
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		







Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 133, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	144 m	BAL - LOW

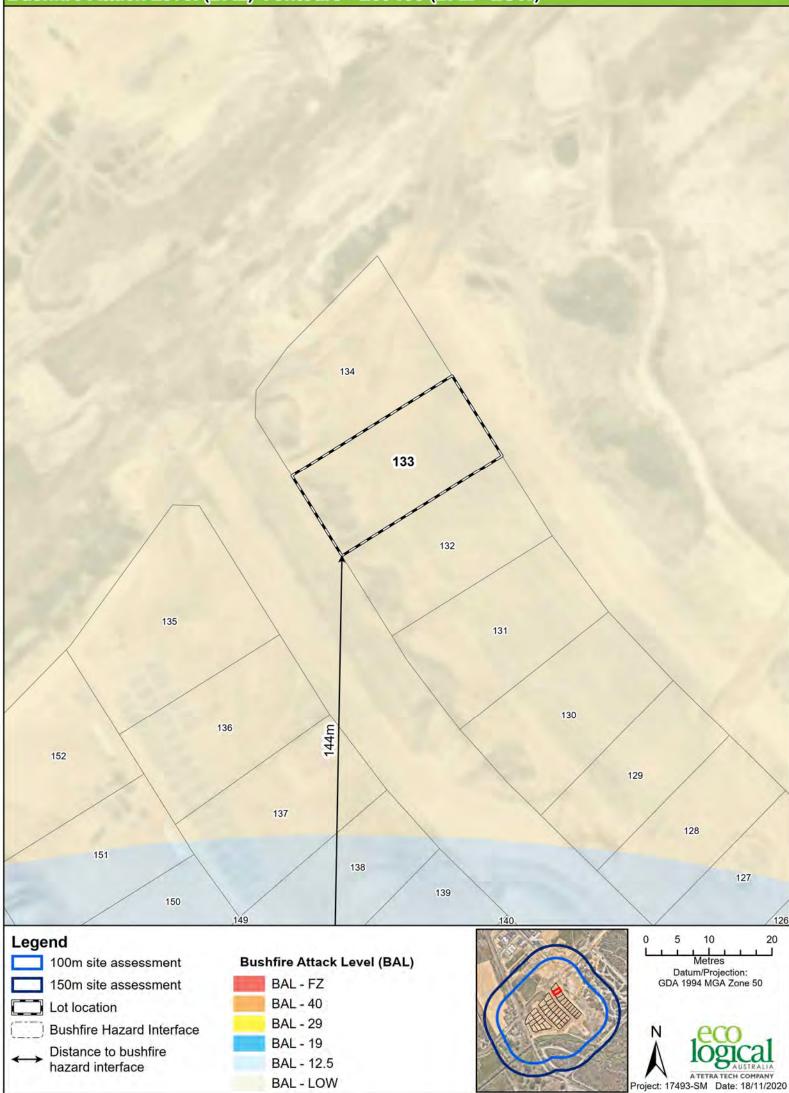
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		







Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 134, Natures Edge Est	Lot 134, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	157 m	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:	TAR		
Certificate Date:	21/11/2020		







Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 135, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	118 m	BAL - LOW

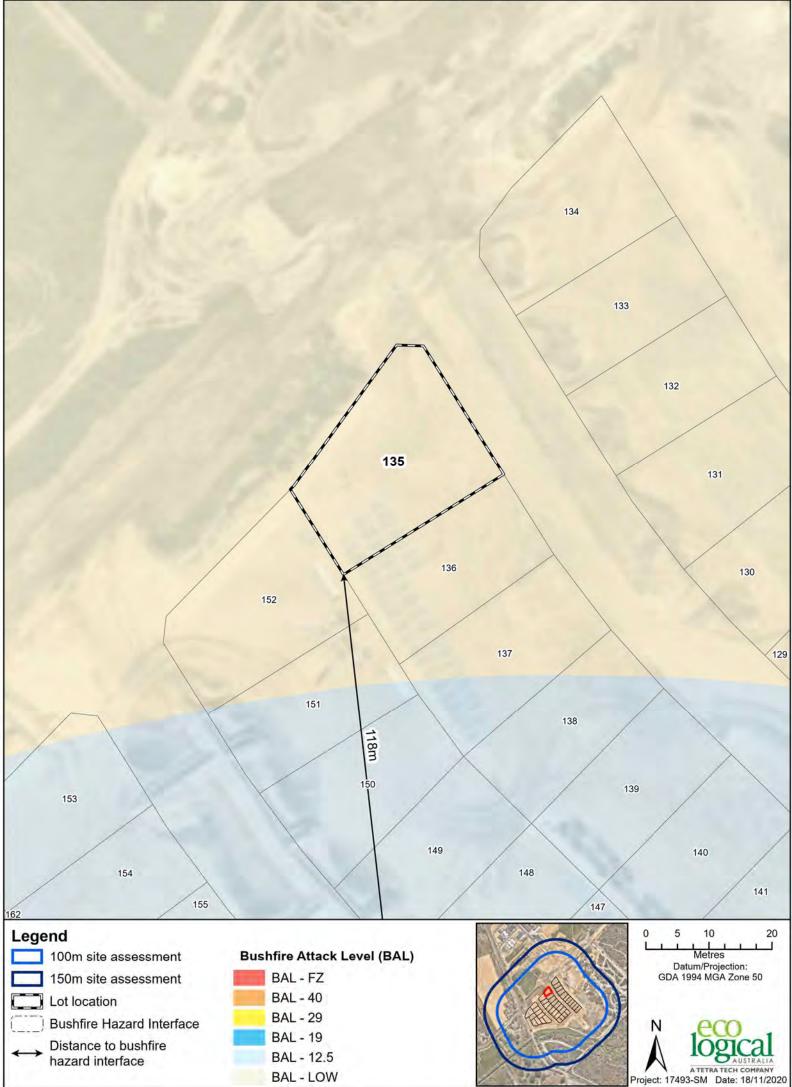
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Name	Daniel Panickar Eco Logical Australia		
Signature:	TAR		
Certificate Date:	21/11/2020		







Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 136, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	103 m	BAL - LOW

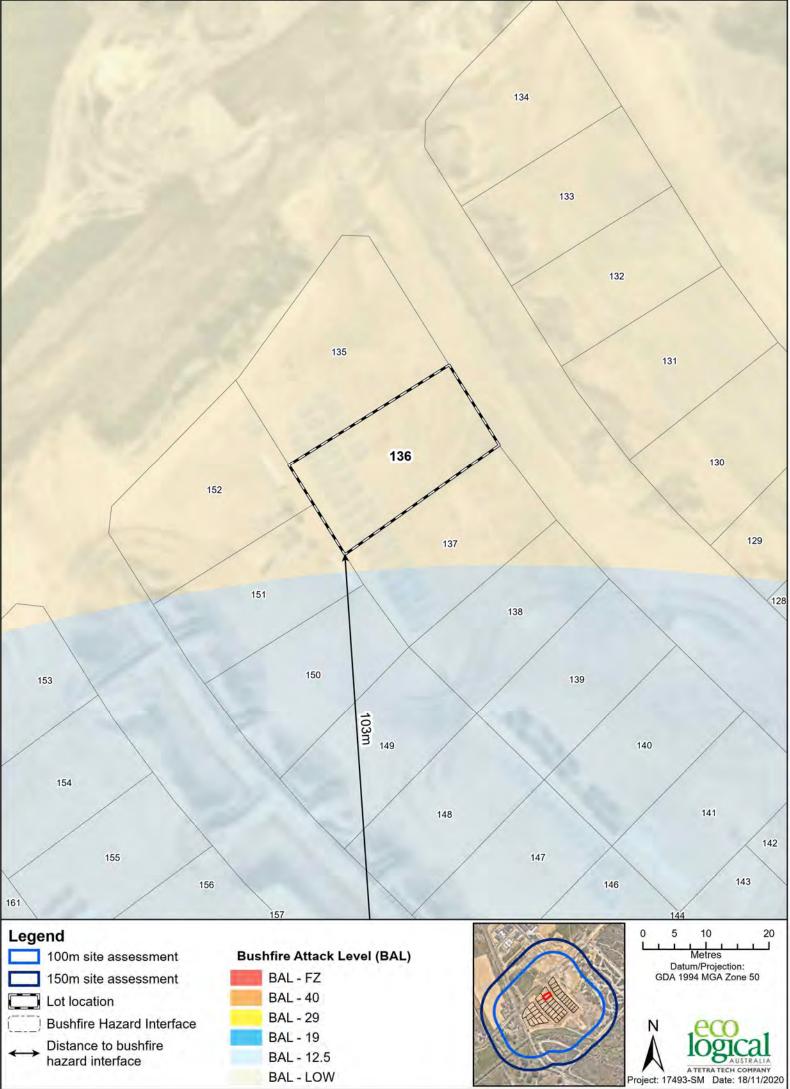
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Name	Daniel Panickar Eco Logical Australia		
Signature:	TAR		
Certificate Date:	21/11/2020		







Determined in accordance with AS 3959-2018

Site Details				
Address:	Lot 137, Natures Edge Estate			
Suburb:	Southern River, 6110 State: WA			
Local Government Area:	City of Gosnells			
Use of building	Residential Dwelling	Main BCA class:	Class 1a	
Report / Job Number:	20PER-17493	Report Date:	21/11/2020	

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	87 m	BAL - 12.5

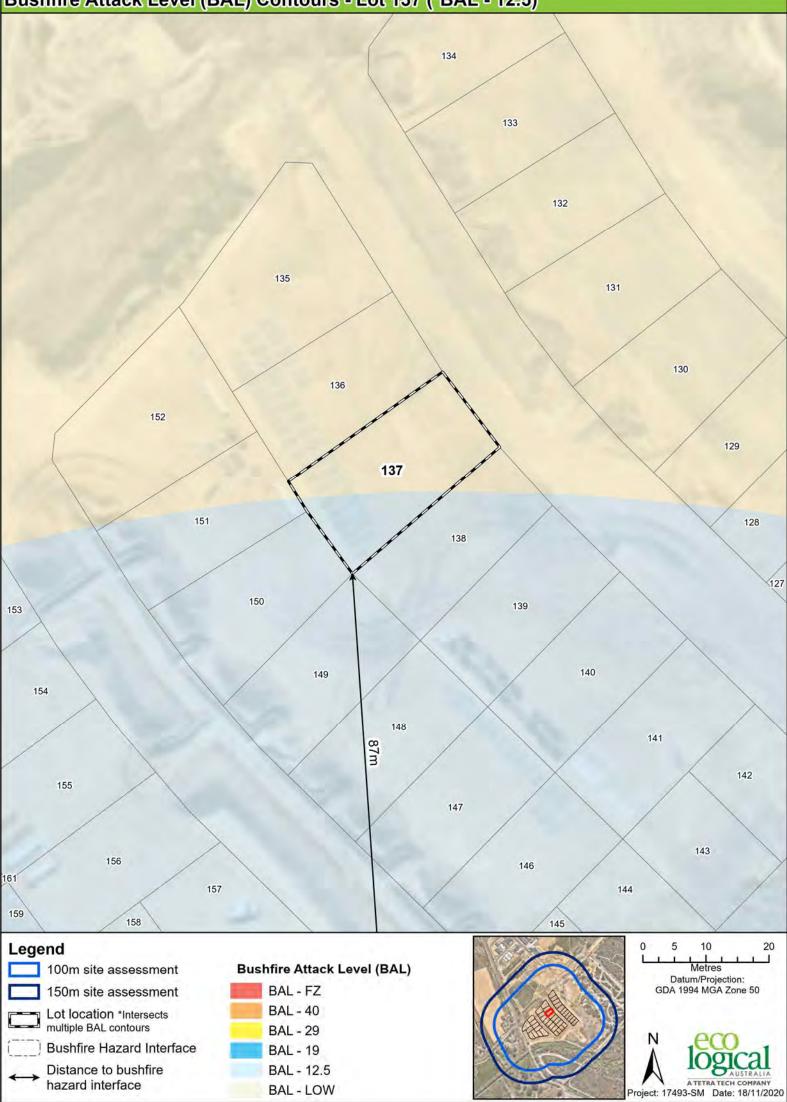
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



Bushfire Attack Level (BAL) Contours - Lot 137 (*BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 138, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

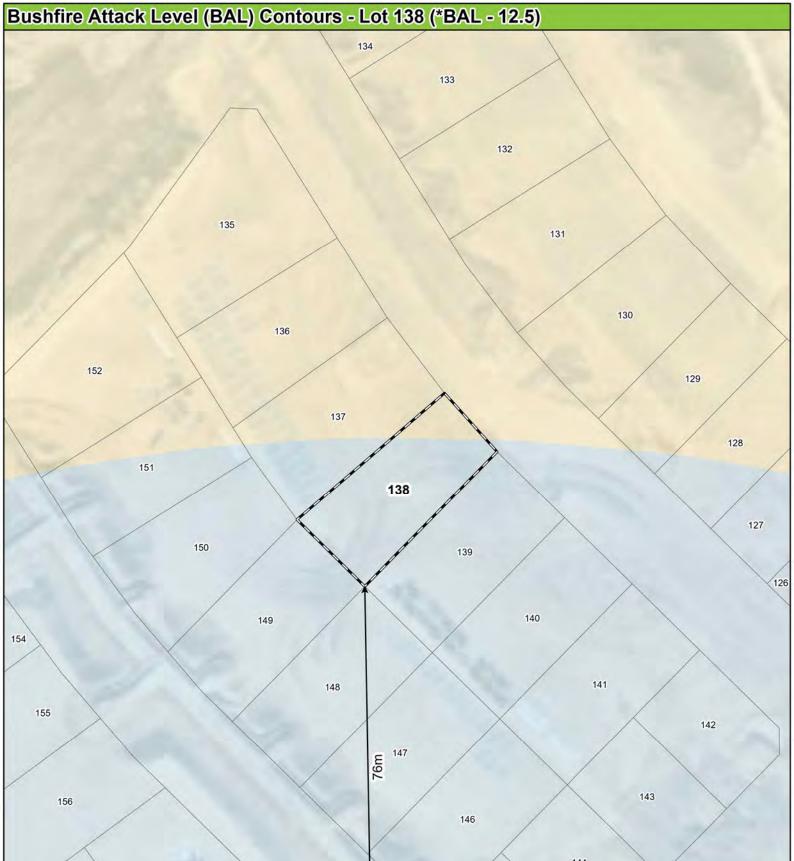
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	76 m	BAL - 12.5

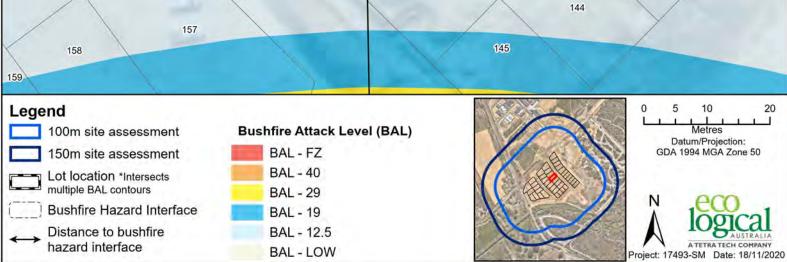
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Name	Daniel Panickar Eco Logical Australia	
Signature:	TAR	
Certificate Date:	21/11/2020	







Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 139, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	66 m	BAL - 12.5

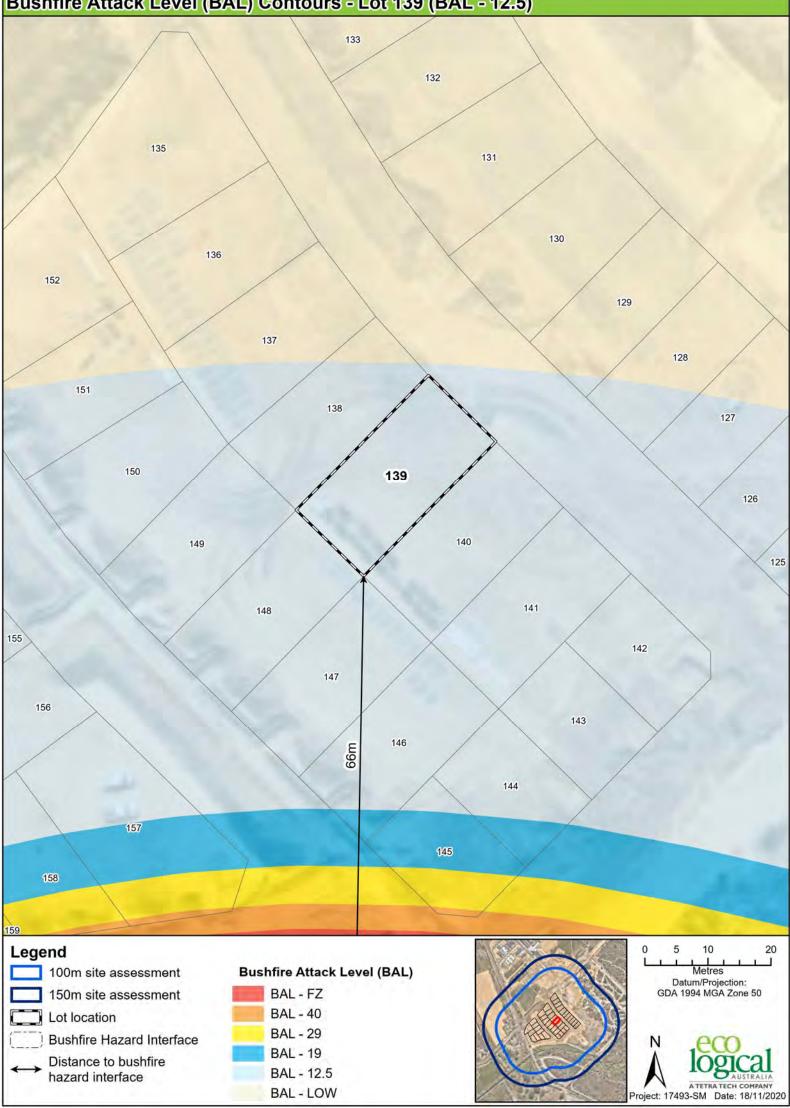
Practitioner Details

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Name	Daniel Panickar Eco Logical Australia	
Signature:	TAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 139 (BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 140, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	56 m	BAL - 12.5

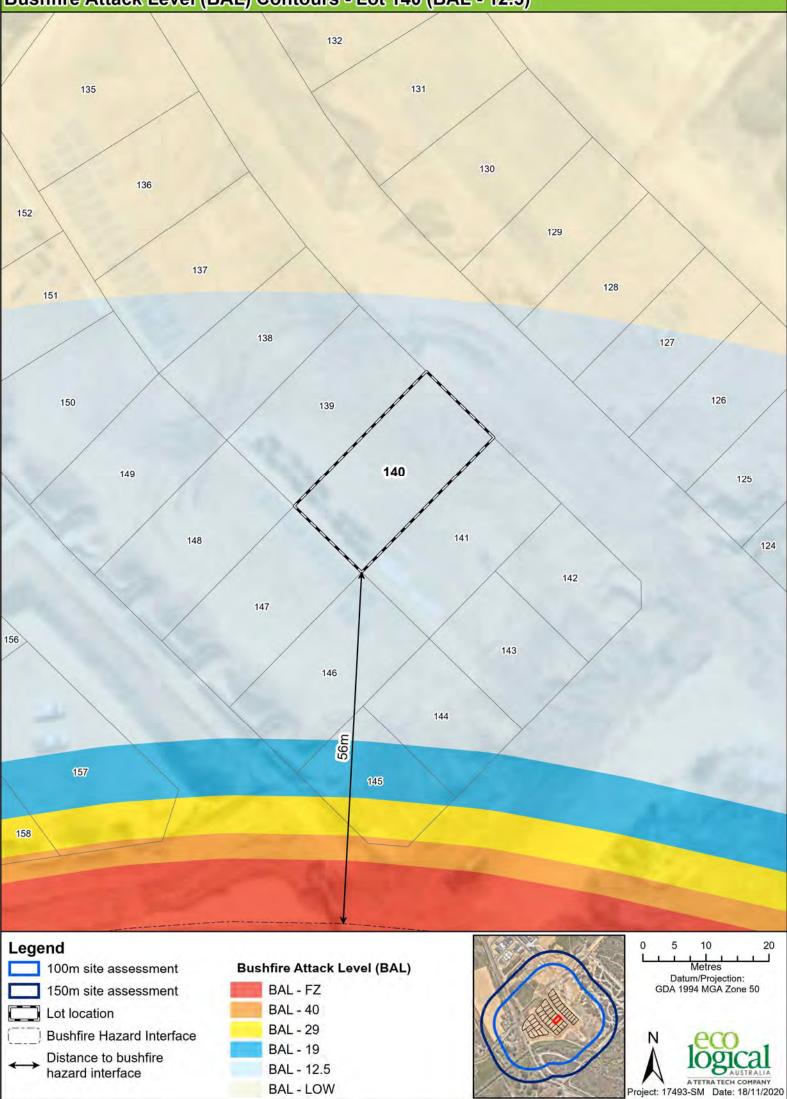
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 140 (BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 141, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	46 m	BAL - 12.5

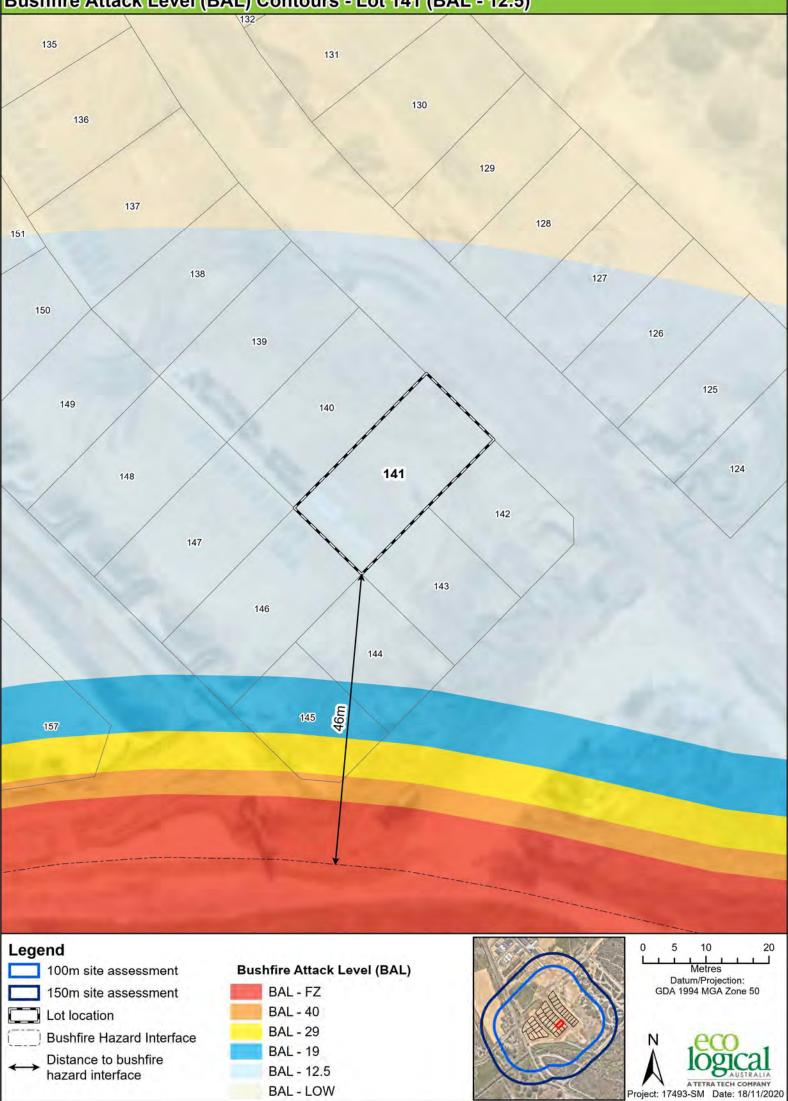
Practitioner Details

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:	DAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 141 (BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 142, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

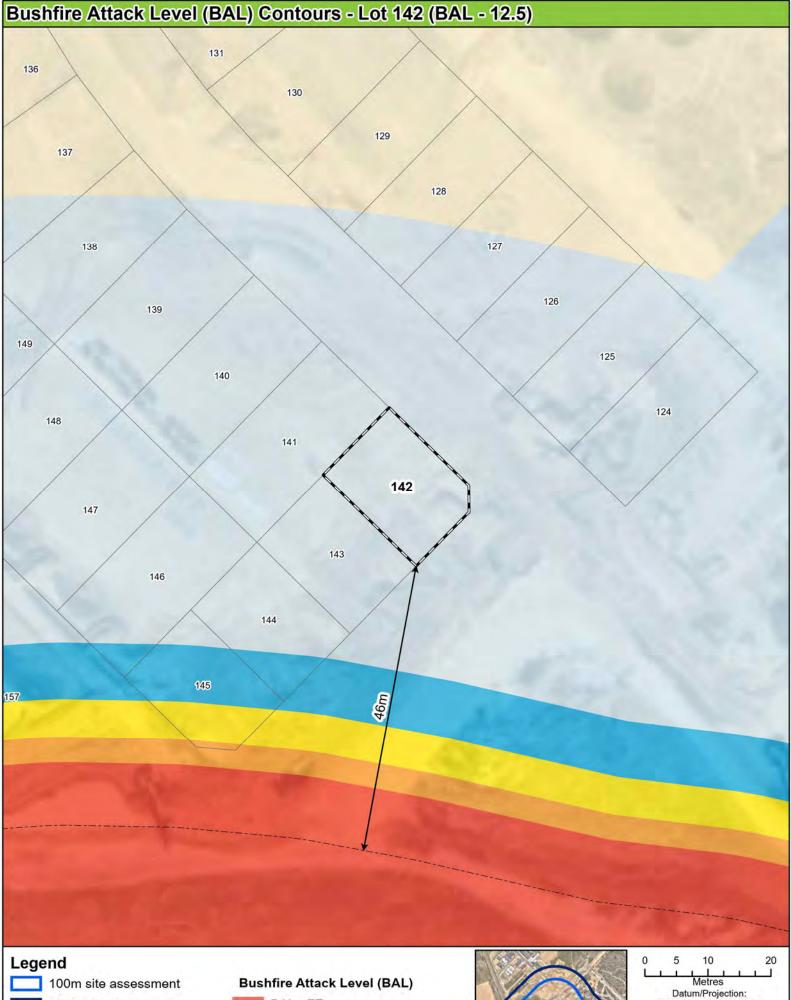
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	46 m	BAL - 12.5

Practitioner Details

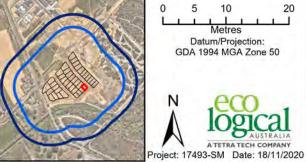
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.

Name	Daniel Panickar Eco Logical Australia	
Signature:	TAR	
Certificate Date:	21/11/2020	





- 150m site assessment
 - Bushfire Hazard Interface
 - Distance to bushfire hazard interface
- Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 143, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	33 m	BAL - 12.5

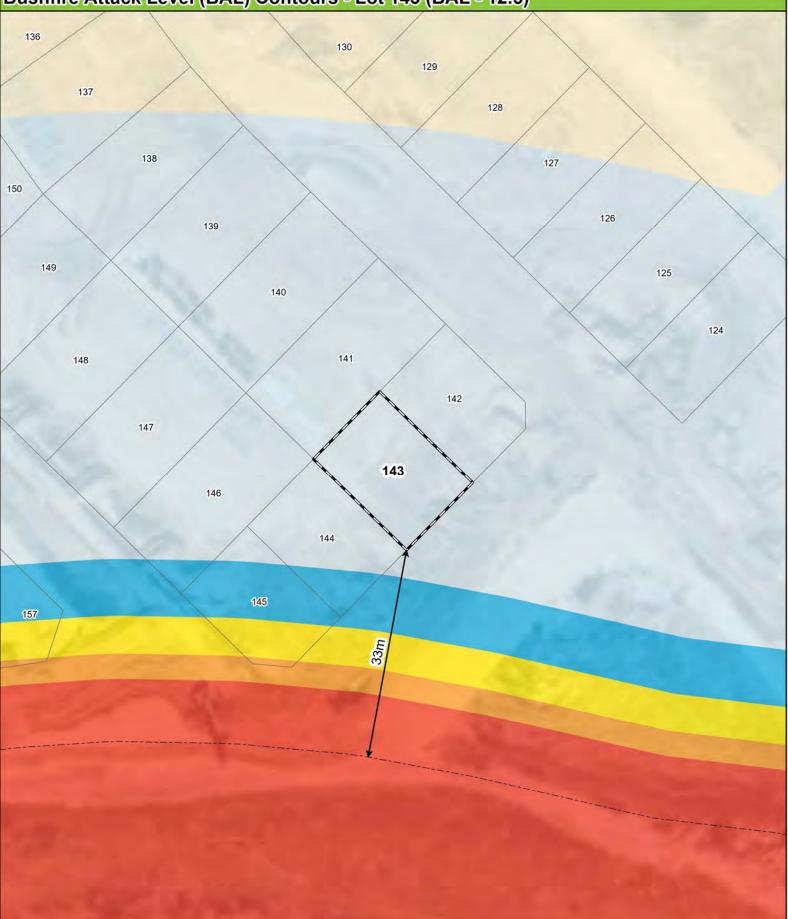
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	



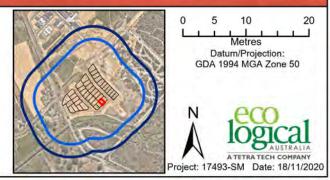
Bushfire Attack Level (BAL) Contours - Lot 143 (BAL - 12.5)



Legend

- 100m site assessment
 150m site assessment
 - Lot location
 - Bushfire Hazard Interface
 - Distance to bushfire hazard interface

Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 144, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	21 m	BAL - 19

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:	TAR	
Certificate Date:	21/11/2020	



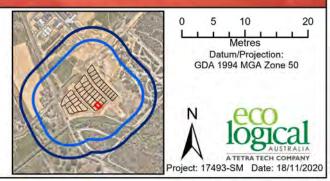
Bushfire Attack Level (BAL) Contours - Lot 144 (*BAL - 19) 21m

Legend

 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Bushfire Hazard Interface
 Distance to bushfire

hazard interface

Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 145, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	17 m	BAL - 29

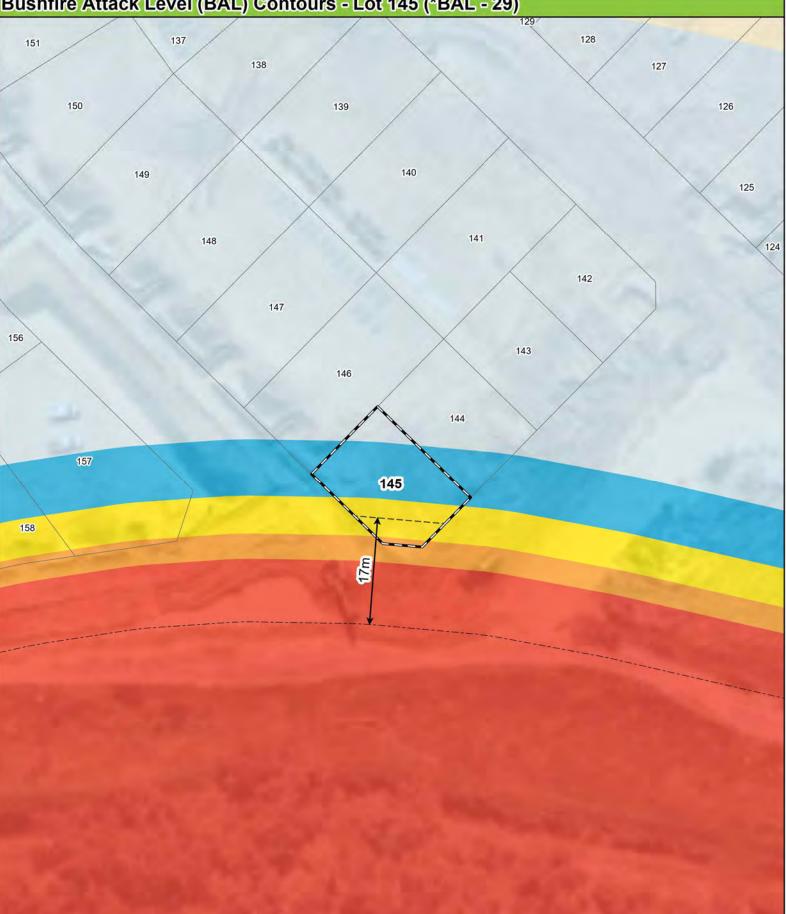
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	



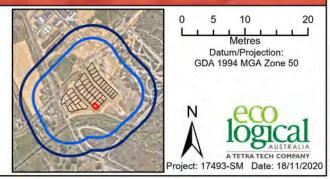
Bushfire Attack Level (BAL) Contours - Lot 145 (*BAL - 29)



Legend

100m site assessment 150m site assessment Lot location *Intersects multiple BAL contours Lot setback (4m) **Bushfire Hazard Interface** Distance to bushfire hazard interface

Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 146, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	24 m	BAL - 19

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.

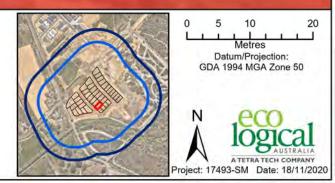
Name	Daniel Panickar Eco Logical Australia	
Signature:	TAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 146 (*BAL - 19) 24m

Legend

- 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Bushfire Hazard Interface
 Distance to bushfire hazard interface
- Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 147, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	34 m	BAL - 12.5

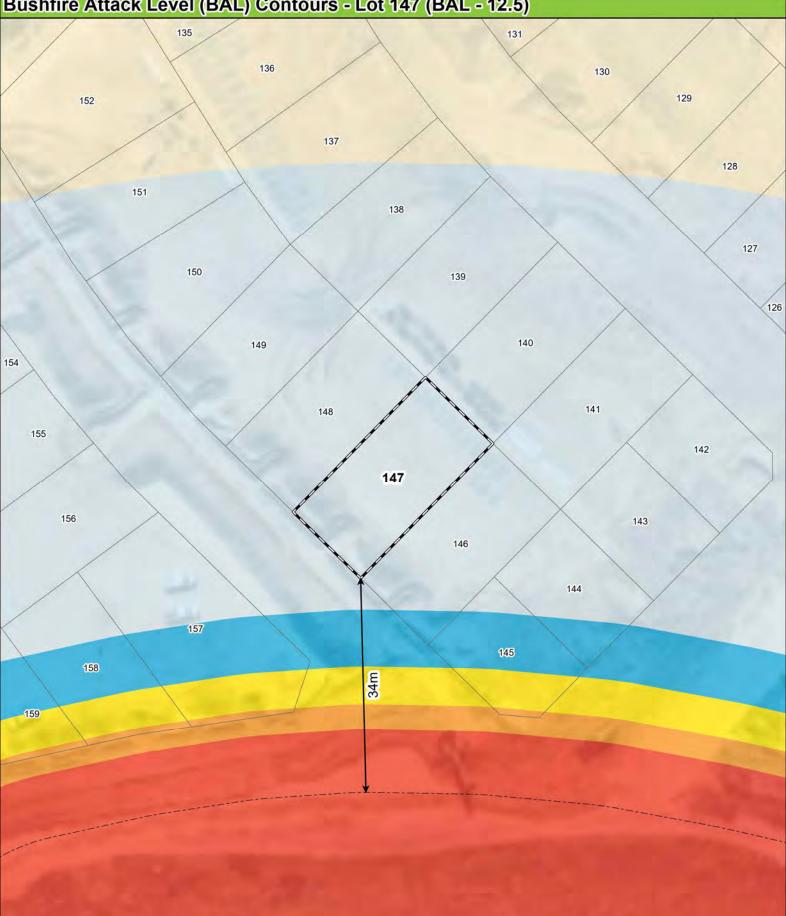
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	

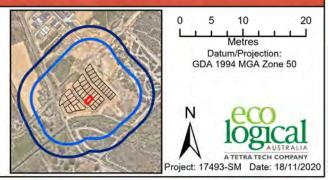


Bushfire Attack Level (BAL) Contours - Lot 147 (BAL - 12.5)





- 100m site assessment 150m site assessment
 - Lot location
 - **Bushfire Hazard Interface**
- Distance to bushfire hazard interface
- **Bushfire Attack Level (BAL)** BAL - FZ **BAL - 40** BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 148, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	45 m	BAL - 12.5

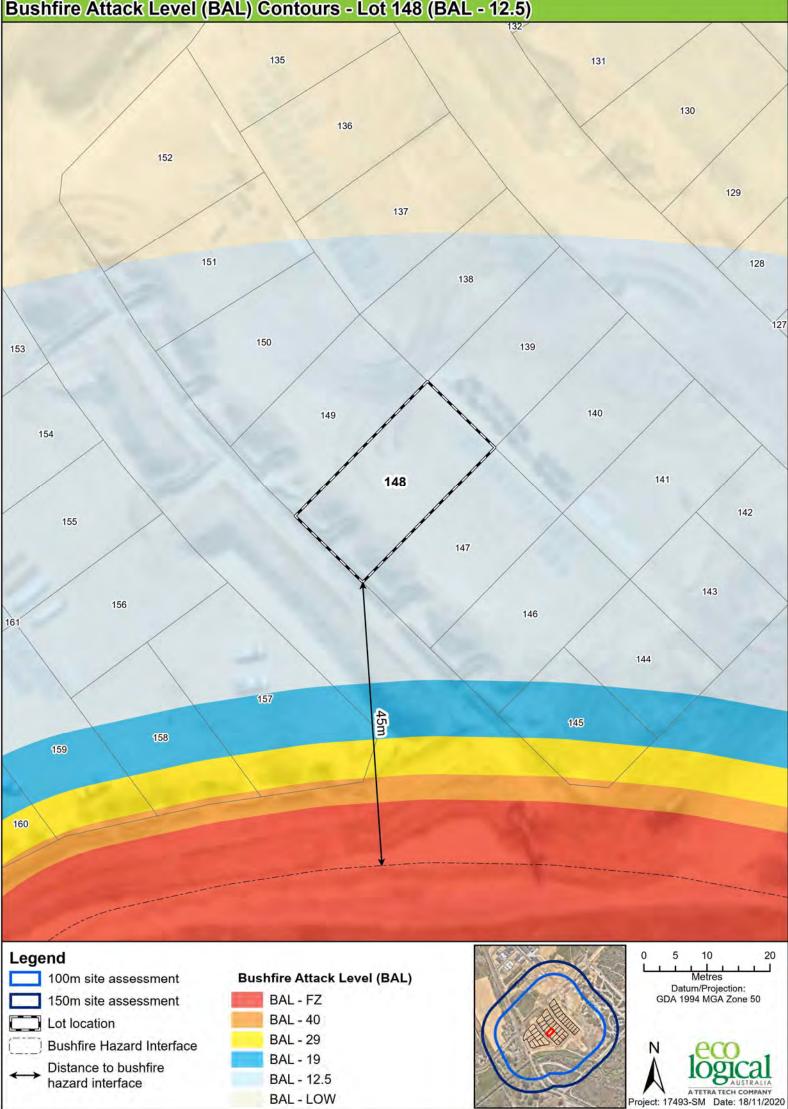
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 148 (BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 149, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	56 m	BAL - 12.5

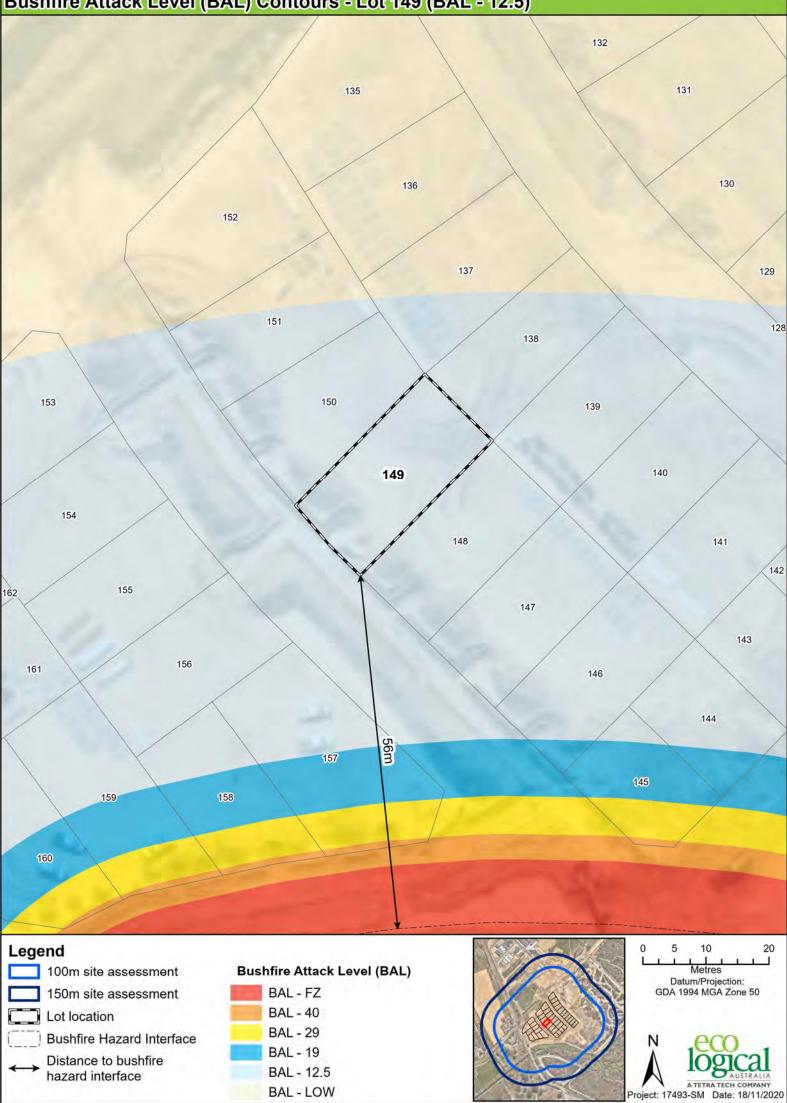
Practitioner Details

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:	DAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 149 (BAL - 12.5)



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 150, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

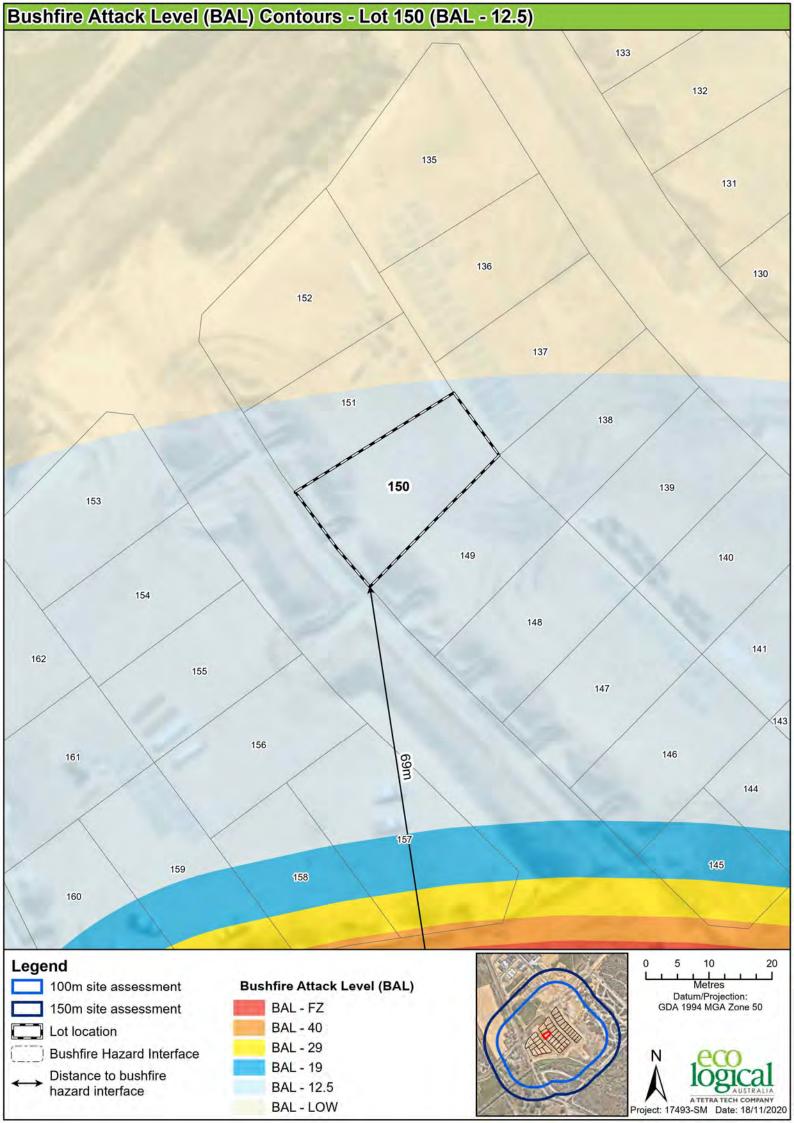
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	69 m	BAL - 12.5

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:	DAR	
Certificate Date:	21/11/2020	





Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 151, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

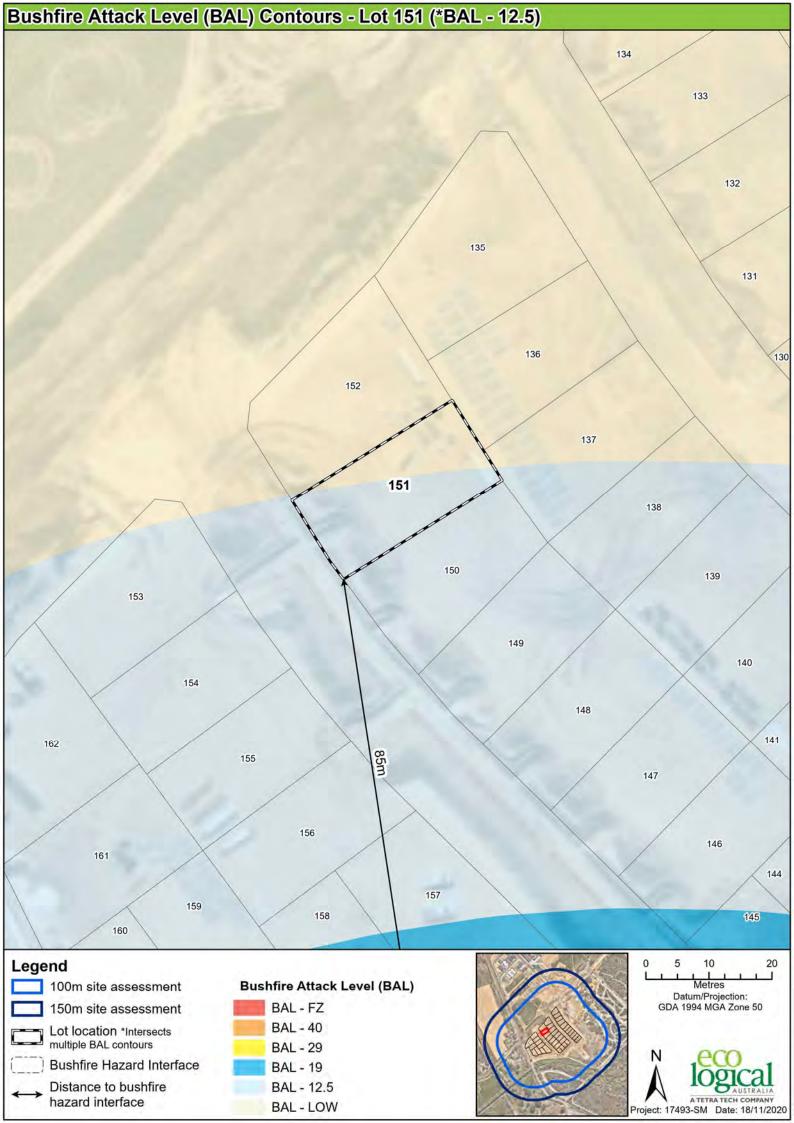
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	85 m	BAL - 12.5

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:	TAR	
Certificate Date:	21/11/2020	





Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 152, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	99 m	BAL - 12.5

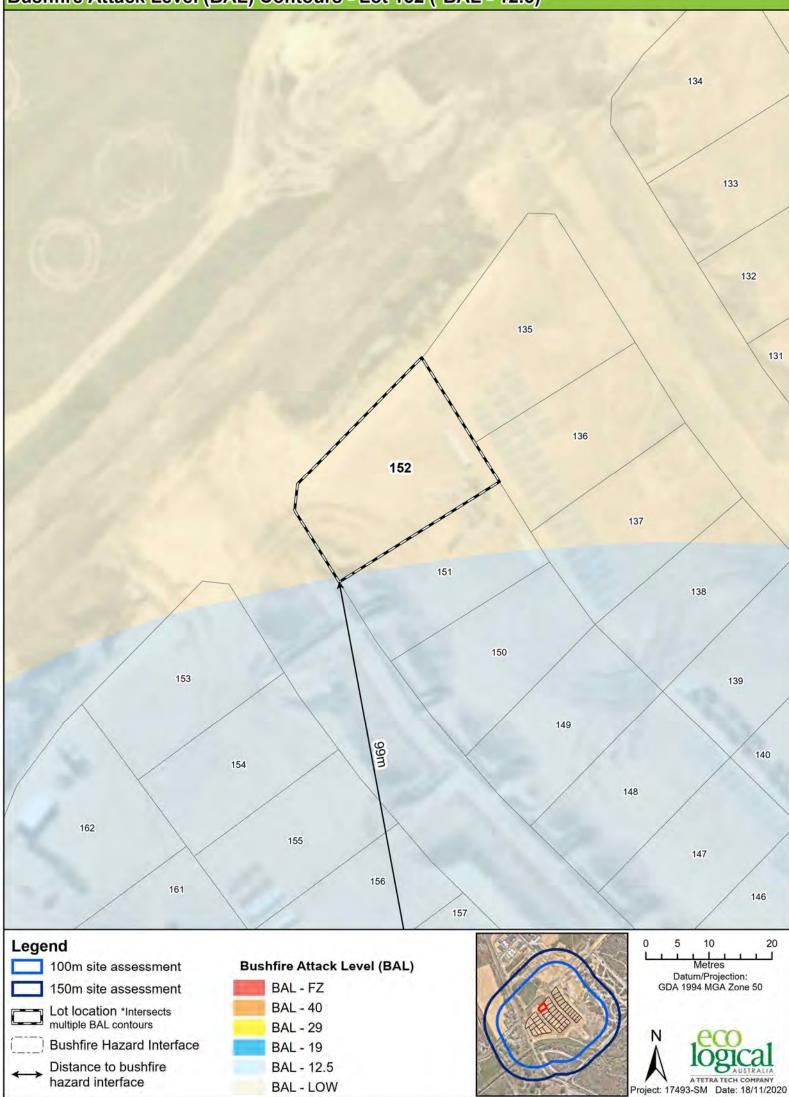
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	







Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 153, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	77 m	BAL - 12.5

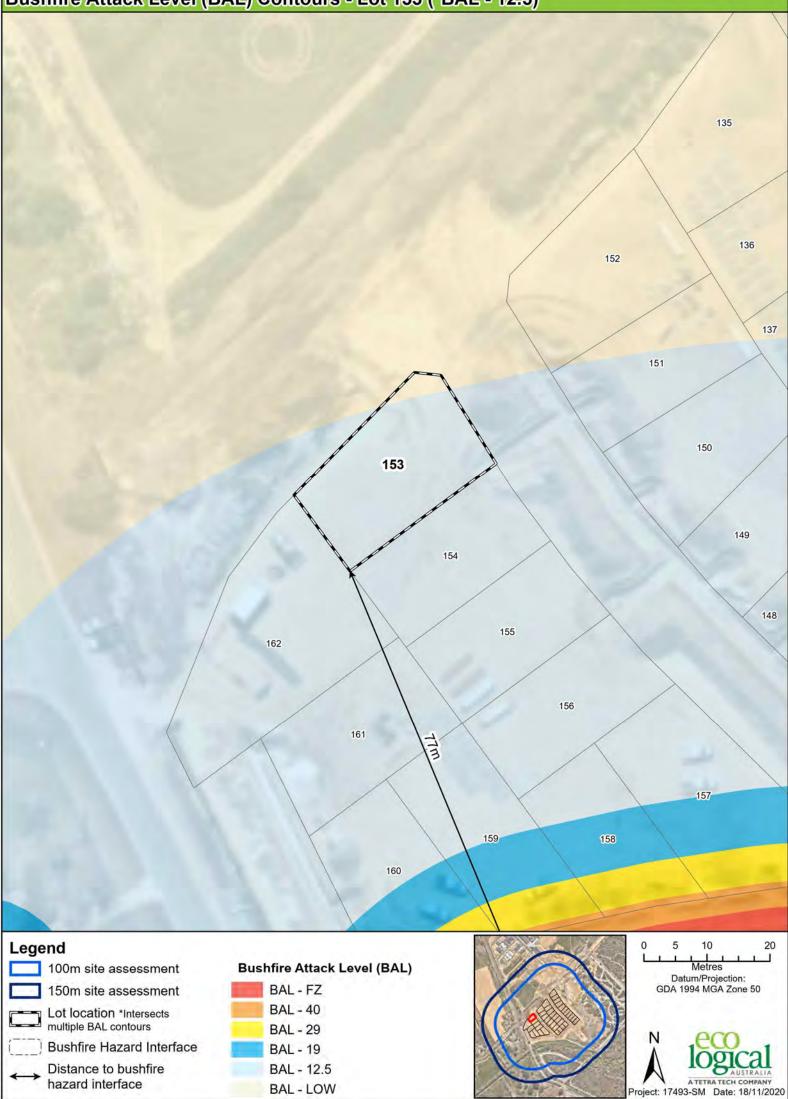
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	







Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 154, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	62 m	BAL - 12.5

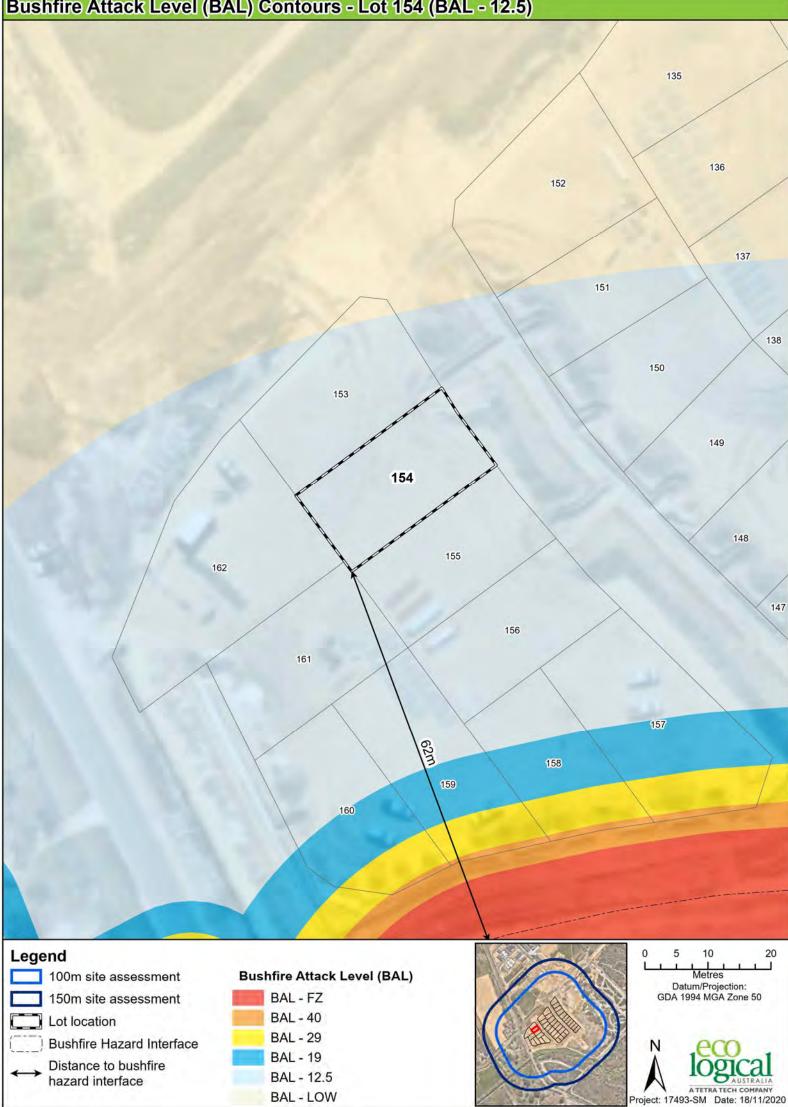
Practitioner Details

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:	DAR	
Certificate Date:	21/11/2020	







Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 155, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

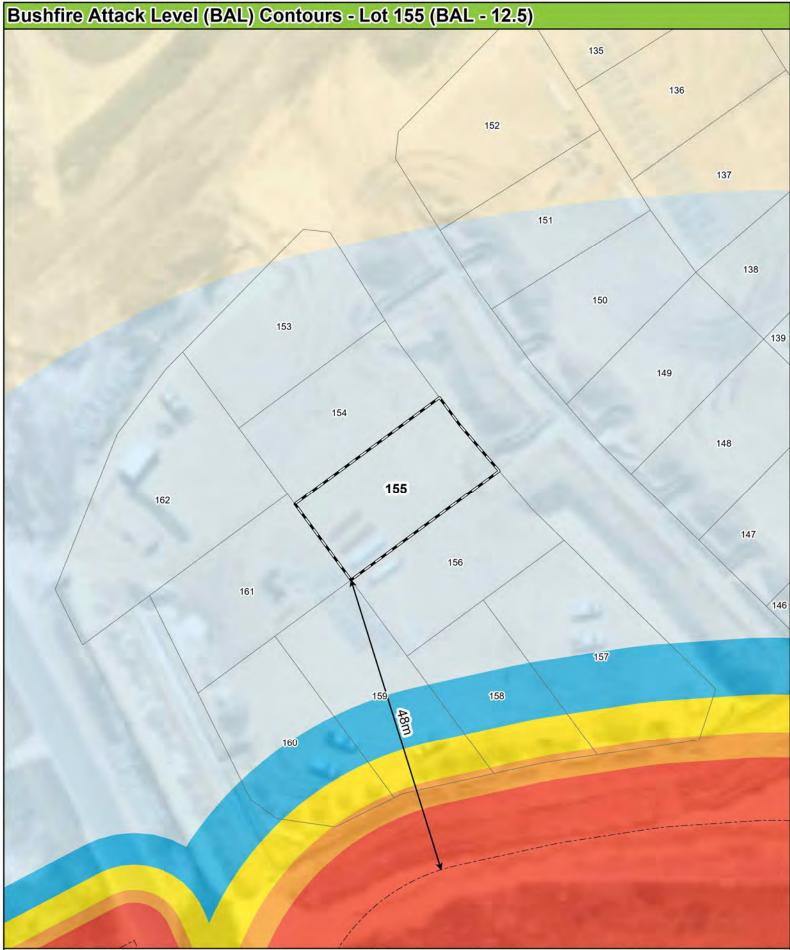
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	48 m	BAL - 12.5

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.

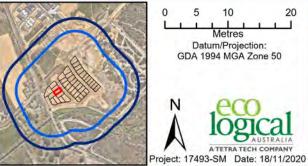
Name	Daniel Panickar Eco Logical Australia	
Signature:	DAR	
Certificate Date:	21/11/2020	





Legend

- 100m site assessment
 150m site assessment
 - Lot location
 - Bushfire Hazard Interface
- → Distance to bushfire hazard interface
- Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 156, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	34 m	BAL - 12.5

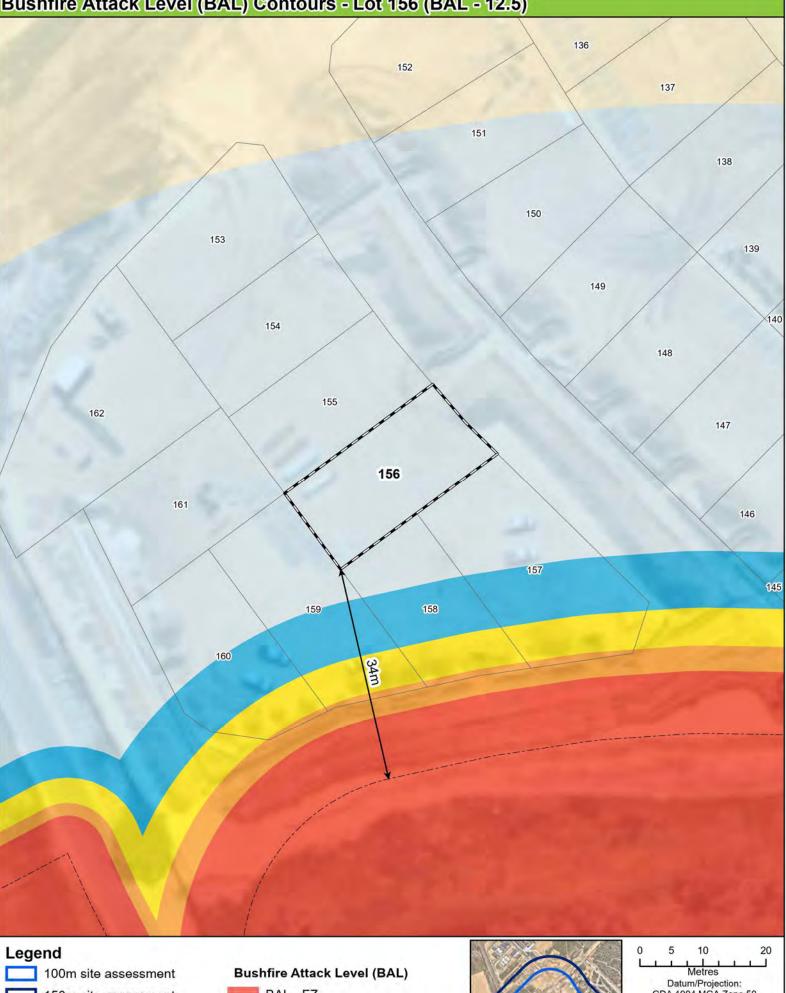
Practitioner Details

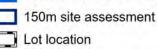
I hereby certify that I have undertaken the assessment of the above site and determined the Bushfire Attack Level stated above in accordance with the requirements of AS 3959-2018.

Name	Daniel Panickar Eco Logical Australia	
Signature:	TAR	
Certificate Date:	21/11/2020	



Bushfire Attack Level (BAL) Contours - Lot 156 (BAL - 12.5)

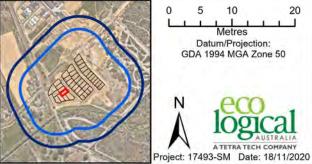




Bushfire Hazard Interface

Distance to bushfire hazard interface

BAL - FZ **BAL - 40** BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 157, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	17 m	BAL - 29

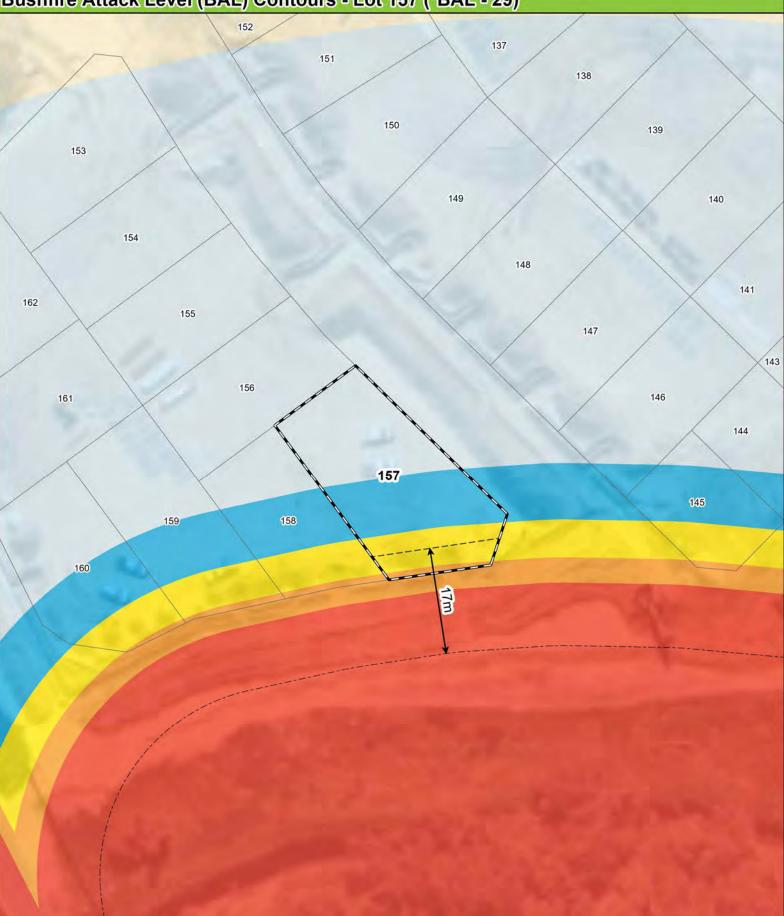
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	

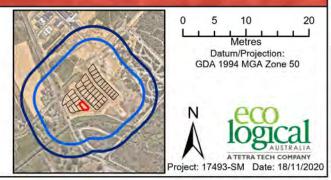


Bushfire Attack Level (BAL) Contours - Lot 157 (*BAL - 29)



Legend

 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Lot setback (4m)
 Bushfire Hazard Interface
 Distance to bushfire hazard interface



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 158, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	17 m	BAL - 29

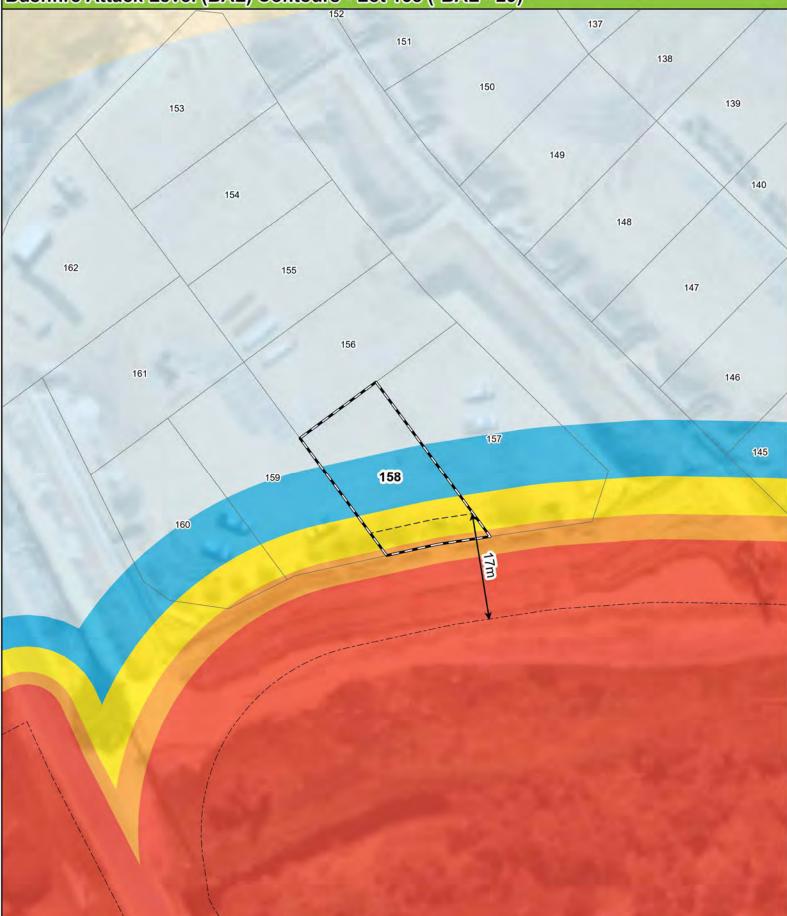
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	

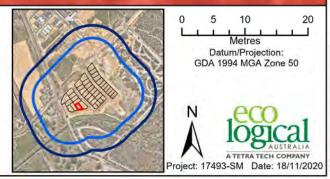


Bushfire Attack Level (BAL) Contours - Lot 158 (*BAL - 29)



Legend

 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Lot setback (4m)
 Bushfire Hazard Interface
 Distance to bushfire hazard interface



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 159, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	17 m	BAL - 29

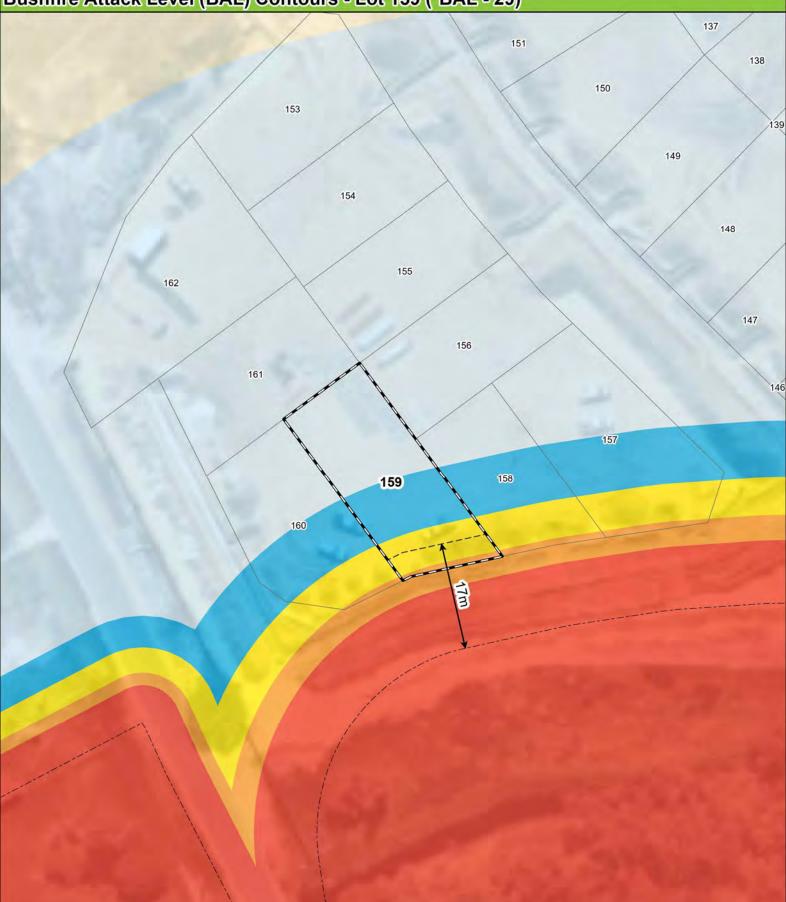
Practitioner Details

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:	TAR	
Certificate Date:	21/11/2020	

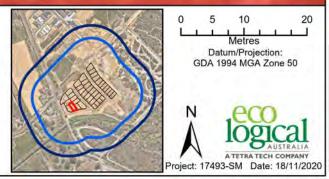


Bushfire Attack Level (BAL) Contours - Lot 159 (*BAL - 29)



Legend

 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Lot setback (4m)
 Bushfire Hazard Interface
 Distance to bushfire hazard interface



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 160, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class B woodland	Upslope / Flat Land	17 m	BAL - 29

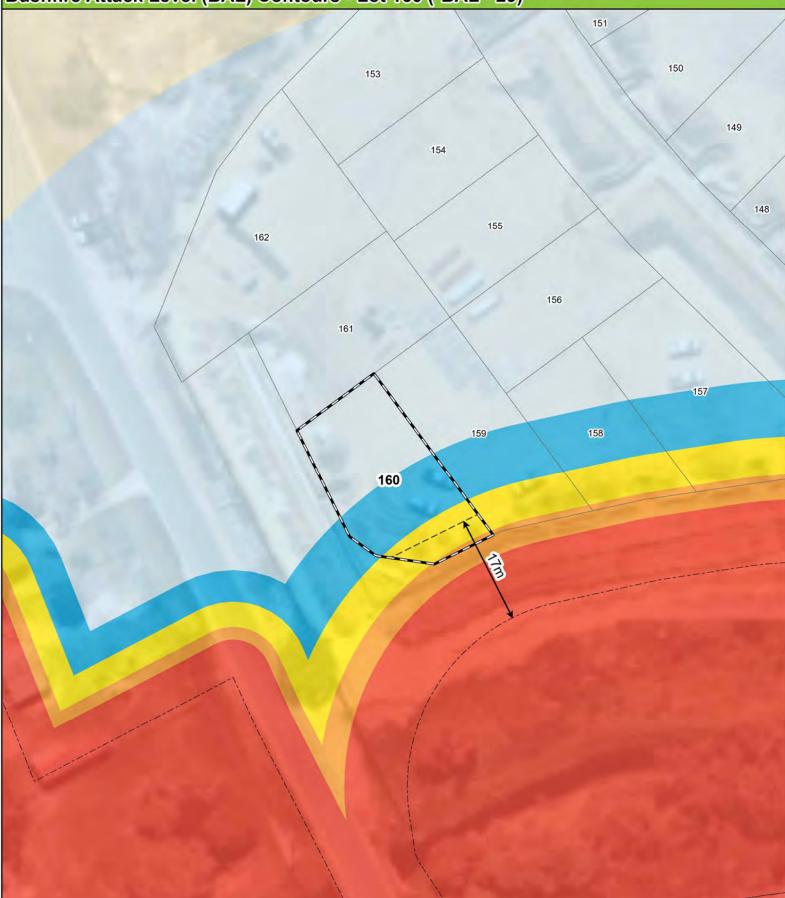
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		

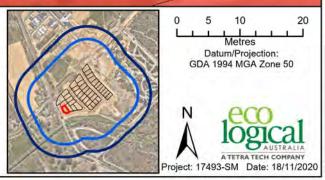


Bushfire Attack Level (BAL) Contours - Lot 160 (*BAL - 29)



Legend

 100m site assessment
 150m site assessment
 Lot location *Intersects multiple BAL contours
 Lot setback (4m)
 Bushfire Hazard Interface
 Distance to bushfire hazard interface



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 161, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

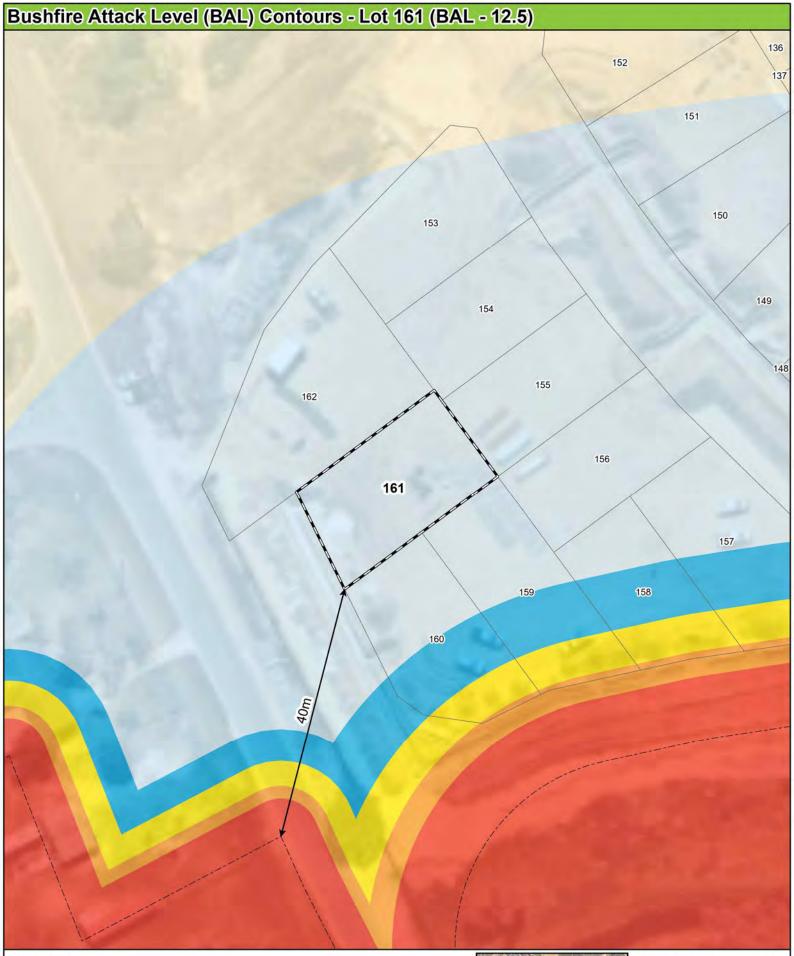
Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class G grassland	Upslope / Flat Land	40 m	BAL - 12.5

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:	TAR		
Certificate Date:	21/11/2020		

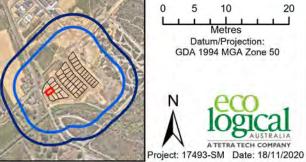






- 100m site assessment
 150m site assessment
- Lot location
- Bushfire Hazard Interface
- Distance to bushfire
- Distance to bushfire hazard interface
- Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5

BAL - LOW



Determined in accordance with AS 3959-2018

Site Details			
Address:	Lot 162, Natures Edge Estate		
Suburb:	Southern River, 6110 State: WA		
Local Government Area:	City of Gosnells		
Use of building	Residential Dwelling	Main BCA class:	Class 1a
Report / Job Number:	20PER-17493	Report Date:	21/11/2020

Determination of Highest Bushfire Attack Level				
AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Class G grassland	Upslope / Flat Land	48 m	BAL - 12.5

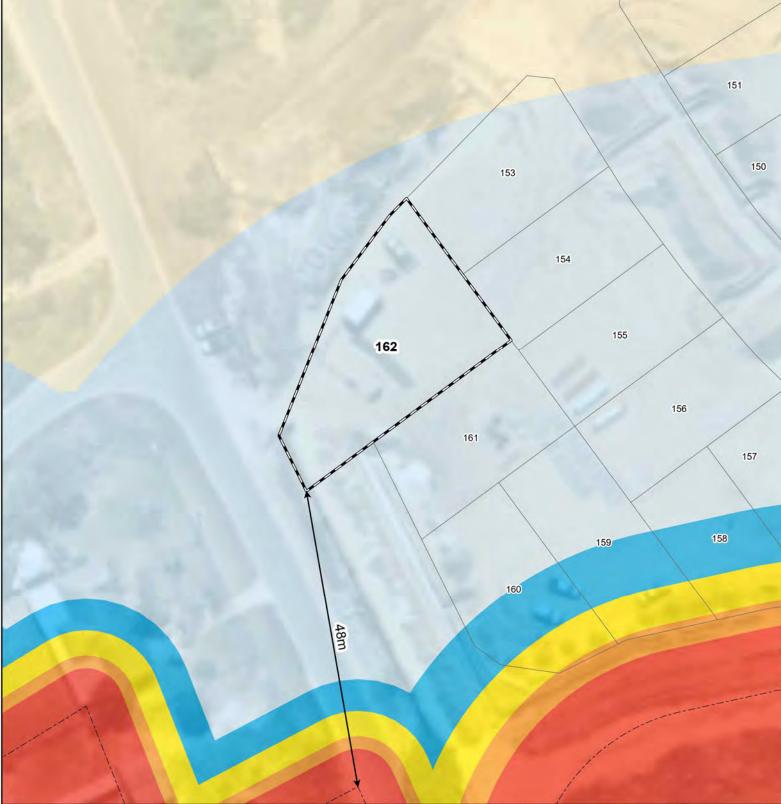
Practitioner Details

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:	TAR		
Certificate Date:	21/11/2020		



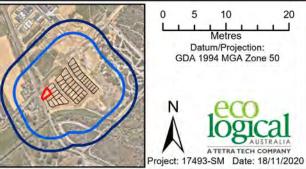




Legend

- 100m site assessment
 150m site assessment
 - Lot location
 - Bushfire Hazard Interface
- Distance to bushfire hazard interface

Bushfire Attack Level (BAL) BAL - FZ BAL - 40 BAL - 29 BAL - 19 BAL - 12.5 BAL - LOW



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