

Date 13/02/2020

Our ref: 20PER-15237

Parcel Property

Level 3/14 Walters Drive

Osborne Park WA 6017

Re: Bushfire Attack Level (BAL) Assessment Report for **Stage 3, Beenyup Grove Estate, Byford**

Site Details

Address: Beenyup Grove Estate, Stage 3 (Lots 349-356, 359-366, 300, 661-665, 630)

Suburb: Byford, 6155 **State:** Western Australia

Local Government Area: Shire of Serpentine Jarrahdale

Description of building works: Residential development, future buildings

Report details

Report/Job number:	20PER-15237	Report version:	v1
Assessment date:	11/02/2020	Report date:	13/02/2020
Author:	Alex Aitken (BPAD Level 2-37739)	Review:	Daniel Panickar (BPAD Level 2-37802)



SITE ASSESSMENT AND SITE PLAN

The assessment of the subject lots was undertaken on 11 February 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 two 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.

RELEVANT FIRE DANGER INDEX

The fire danger index for this site has been determined in accordance with Table 2.1 of AS 3959-2018.

Relevant Fire Danger Index			
FDI 40 <input type="checkbox"/>	FDI 50 <input type="checkbox"/>	FDI 80 <input checked="" type="checkbox"/>	FDI 100 <input type="checkbox"/>
<i>Table 2.4.5</i>	<i>Table 2.4.4</i>	<i>Table 2.4.3</i>	<i>Table 2.4.2</i>

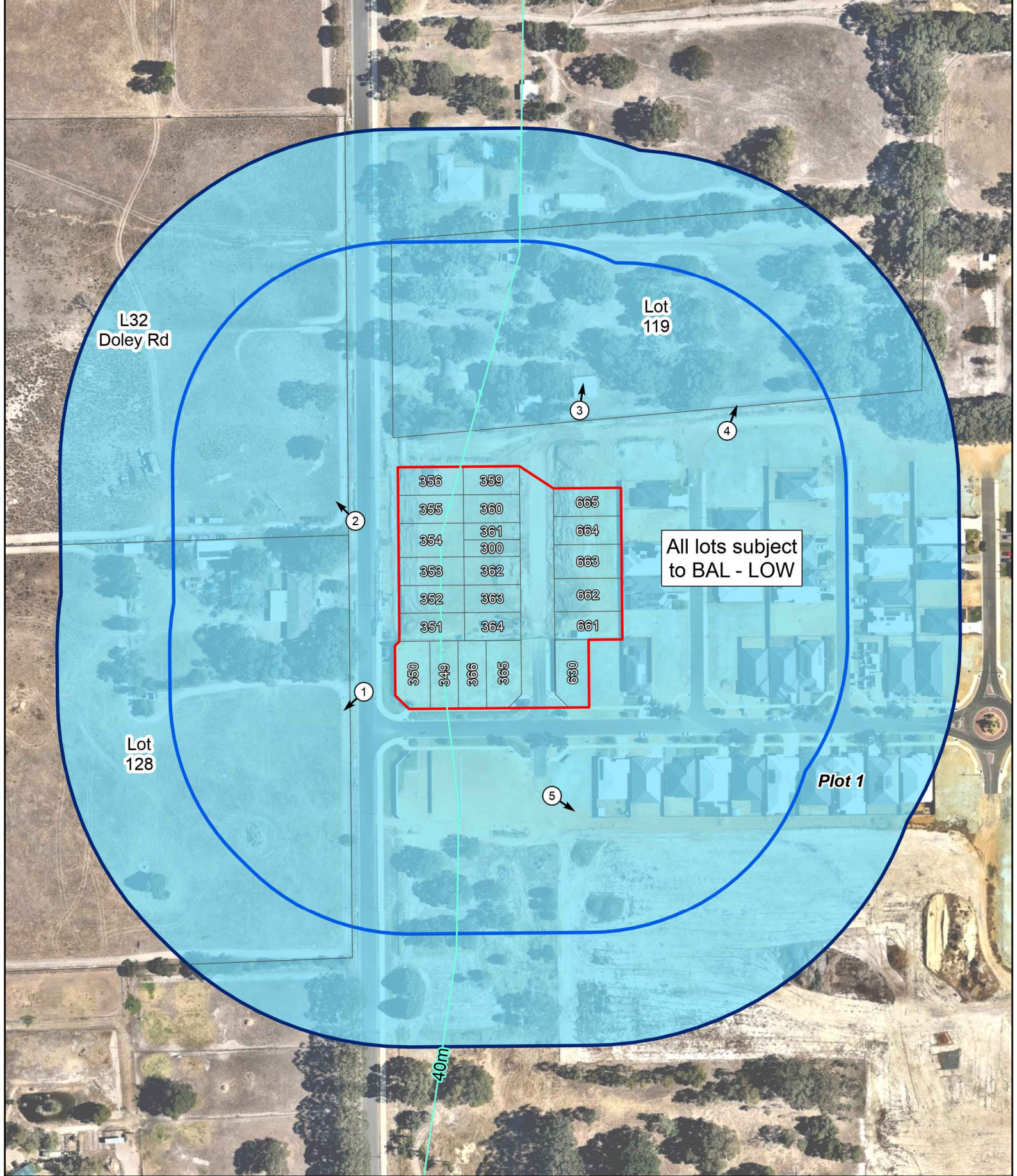
POTENTIAL BUSHFIRE IMPACTS

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

Plot	Vegetation Classification	Effective Slope	Separation distances required				
			BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Excluded AS 3959-2018 2.2.3.2 (f)	-	No separation distances required – BAL-LOW				

Figure 1: Vegetation Classification



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

Photo location

Vegetation classification

- Excluded as per clause 2.2.3.2 (f)

0 15 30 60
Metres
Datum/Projection: GDA 1994 MGA Zone 50

Plot	1	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
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Vegetation Type (AS 3959-2018 Table 2.3)	-
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Description	Offsite slashed open tussock grassland, paddocks with fully cured grass, sandy firebreak established on internal boundaries, lot is under a landowner agreement to be managed as low threat vegetation.
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Photo Point 1



Photo Point 2

Plot	1	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
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Vegetation Type (AS 3959-2018 Table 2.3)	-
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Description	Offsite managed rural residential lots, short cropped grass with minor trees as wind breaks. Lot is under a landowner agreement to be managed as low threat vegetation
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Photo Point 3



Photo Point 4

Plot	1	Classification or Exclusion Clause	Excluded AS 3959-2018 2.2.3.2 (f)
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Vegetation Type
(AS 3959-2018 Table 2.3)

-

Description	Offsite managed grassland as part of the adjacent stages of residential development at Beenyup Grove Estate.
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Photo Point 5

DETERMINED BUSHFIRE ATTACK LEVEL (BAL)

The determined Bushfire Attack Level (highest BAL) for the proposed works has been determined in accordance with Clause 2.2.6 of AS 3959-2018 relevant data from the site assessment shown in Figure 1 and Table 2.

Table 2: BAL Assessment summary

BAL	Affected lots	Construction sections to be consulted in AS 3959-2018
BAL-LOW	Determined Bushfire Attack Level for: Lots 349-356, 359-366, 300, 661-665, 630	4

Note: Parcel Property have a current landowner agreement on several properties adjacent to the Beenyup Stage 3 subdivision including 119 Doley Road, 128 Doley Road and Lot 32 Doley Road whereby the lot will be managed as low threat vegetation in perpetuity.

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	$\leq 12.5 \text{ kW/m}^2$	Ember attack	3 and 5
BAL-19	$>12.5 \text{ kW/m}^2 \leq 19 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux.	3 and 6
BAL-29	$>19 \text{ kW/m}^2 \leq 29 \text{ kW/m}^2$	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing radiant heat flux	3 and 7
BAL-40	$>29 \text{ kW/m}^2 \leq 40 \text{ kW/m}^2$	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	$>40 \text{ kW/m}^2$	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

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 300, Beenyup Grove		
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-15237	Report Date:	13/02/2020

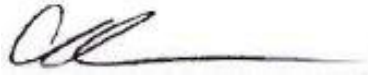
Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excluded as per clause 2.2.3.2 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 


Certificate Date: 13/02/2020




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Expiry: October 2020

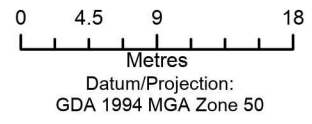
Bushfire Attack Level (BAL) Contours - Lot 300 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

 BAL - LOW



Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 349, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

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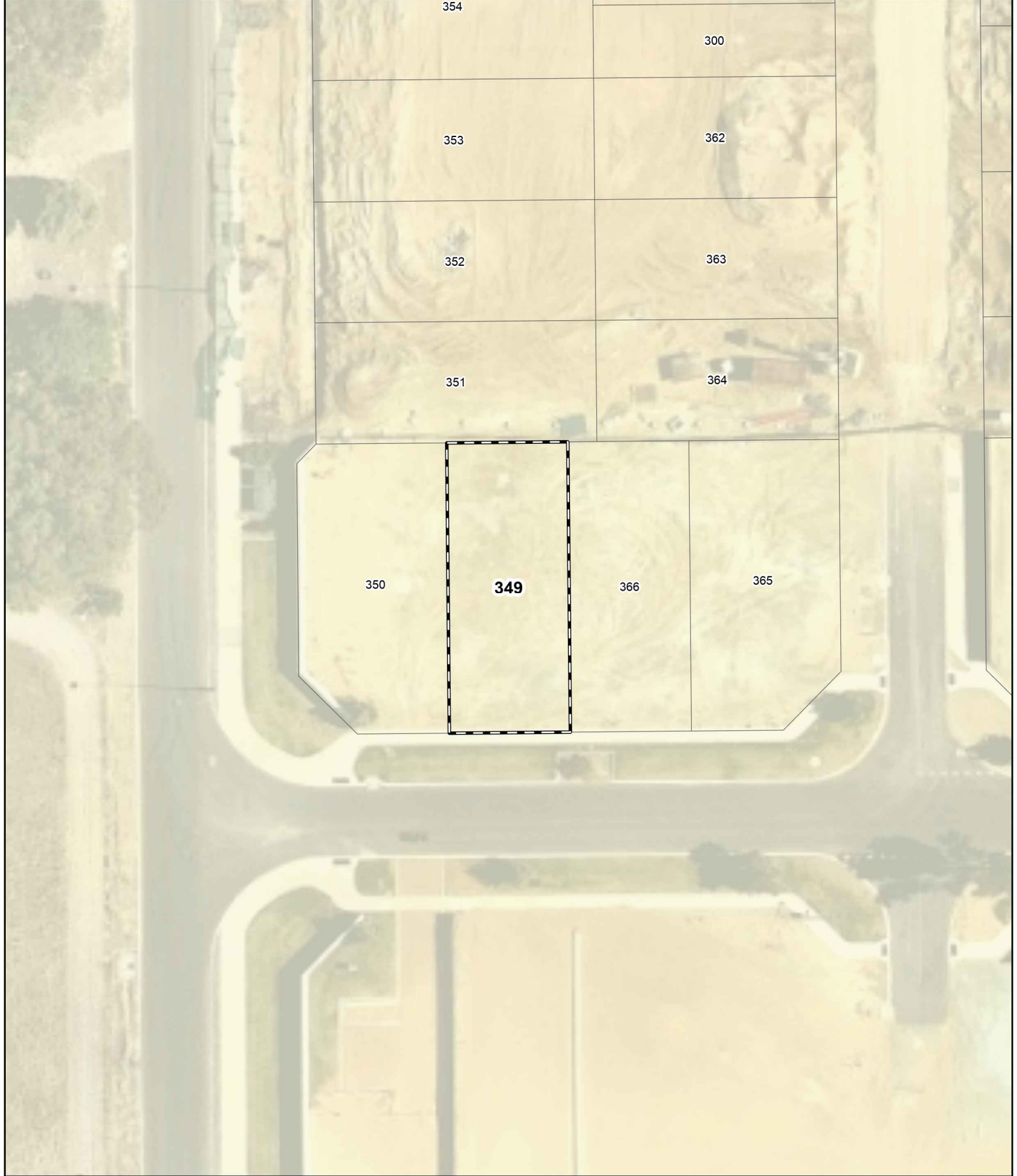
Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

Bushfire Attack Level (BAL) Contours - Lot 349 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



0 4.5 9 18
Metres
Datum/Projection:
GDA 1994 MGA Zone 50

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 350, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

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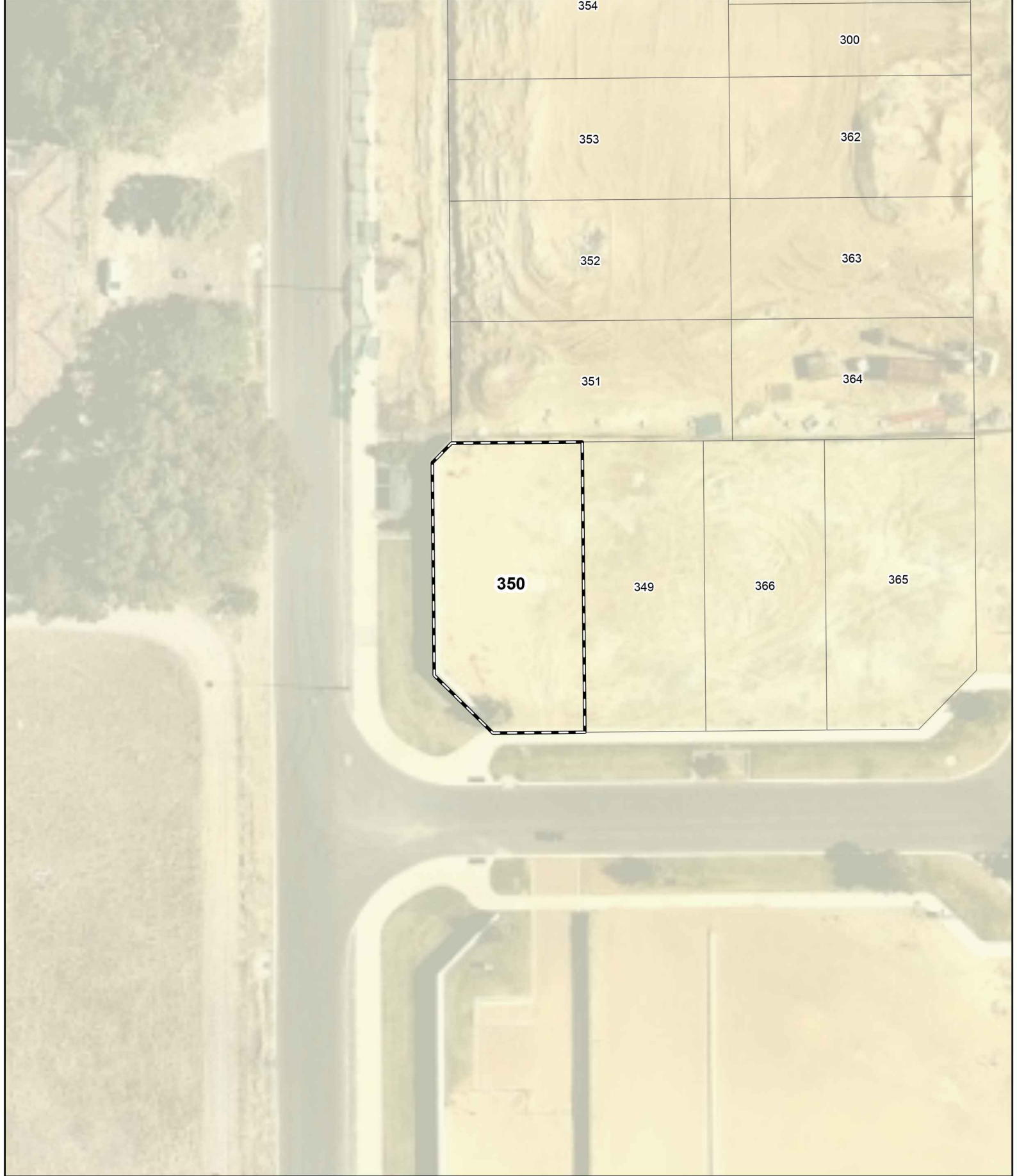
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Certificate Date: 13/02/2020




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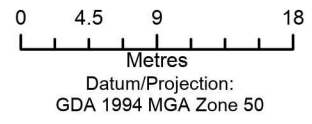
Bushfire Attack Level (BAL) Contours - Lot 350 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



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A TETRA TECH COMPANY
Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 351, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

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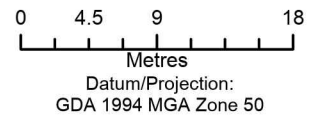
Bushfire Attack Level (BAL) Contours - Lot 351 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 352, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

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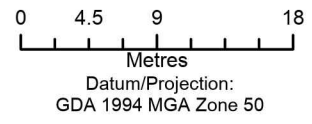
Bushfire Attack Level (BAL) Contours - Lot 352 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



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Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 353, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A m	BAL - LOW

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
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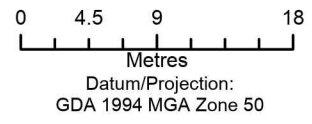
Bushfire Attack Level (BAL) Contours - Lot 353 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 354, Beenyup Grove		
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-15237	Report Date:	13/02/2020

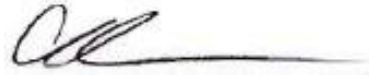
Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excluded as per clause 2.2.3.2 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020




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Expiry: October 2020

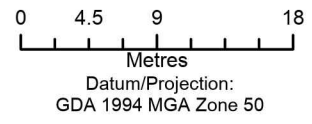
Bushfire Attack Level (BAL) Contours - Lot 354 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 355, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

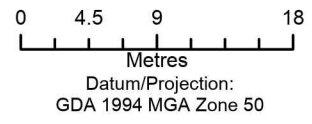
Bushfire Attack Level (BAL) Contours - Lot 355 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



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A TETRA TECH COMPANY

Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 356, Beenyup Grove		
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-15237	Report Date:	13/02/2020

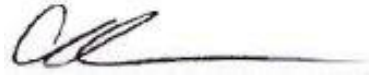
Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excluded as per clause 2.2.3.2 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020




Accreditation No: BPAD 37739
Expiry: October 2020

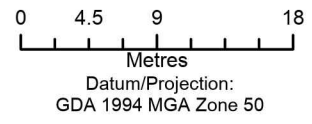
Bushfire Attack Level (BAL) Contours - Lot 356 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



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A TETRA TECH COMPANY
Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 359, Beenyup Grove		
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-15237	Report Date:	13/02/2020

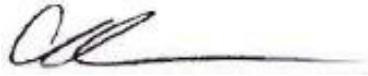
Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excluded as per clause 2.2.3.2 (f)	N/A	N/A m	BAL - LOW

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Certificate Date: 13/02/2020



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Expiry: October 2020

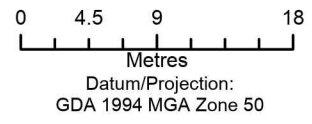
Bushfire Attack Level (BAL) Contours - Lot 359 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



 **eco logical AUSTRALIA**
A TETRA TECH COMPANY
Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 360, Beenyup Grove		
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-15237	Report Date:	13/02/2020

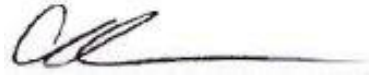
Determination of Highest Bushfire Attack Level

AS 3959 Assessment Procedure	Vegetation Classification	Effective Slope	Separation Distance	BAL
Method 1	Excluded as per clause 2.2.3.2 (f)	N/A	N/A m	BAL - LOW

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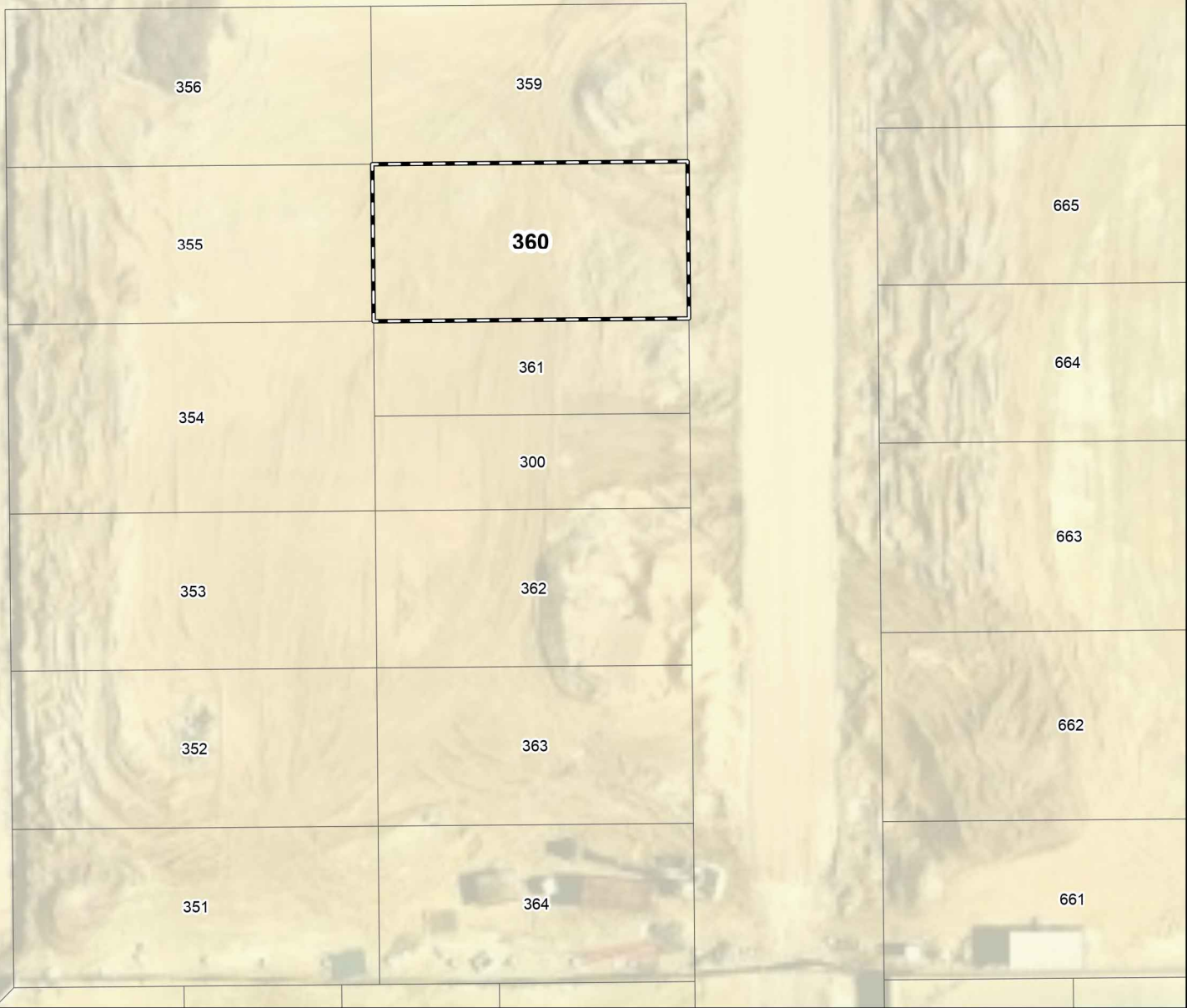
Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

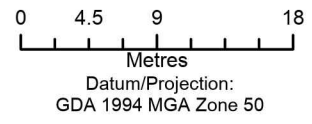
Bushfire Attack Level (BAL) Contours - Lot 360 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



eco logical
AUSTRALIA
A TETRA TECH COMPANY

Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 361, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Name Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

Bushfire Attack Level (BAL) Contours - Lot 361 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



0 4.5 9 18
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 362, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739

Expiry: October 2020

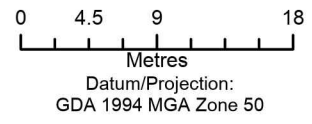
Bushfire Attack Level (BAL) Contours - Lot 362 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



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Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 363, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

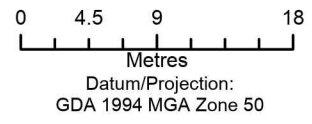
Bushfire Attack Level (BAL) Contours - Lot 363 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



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Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 364, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

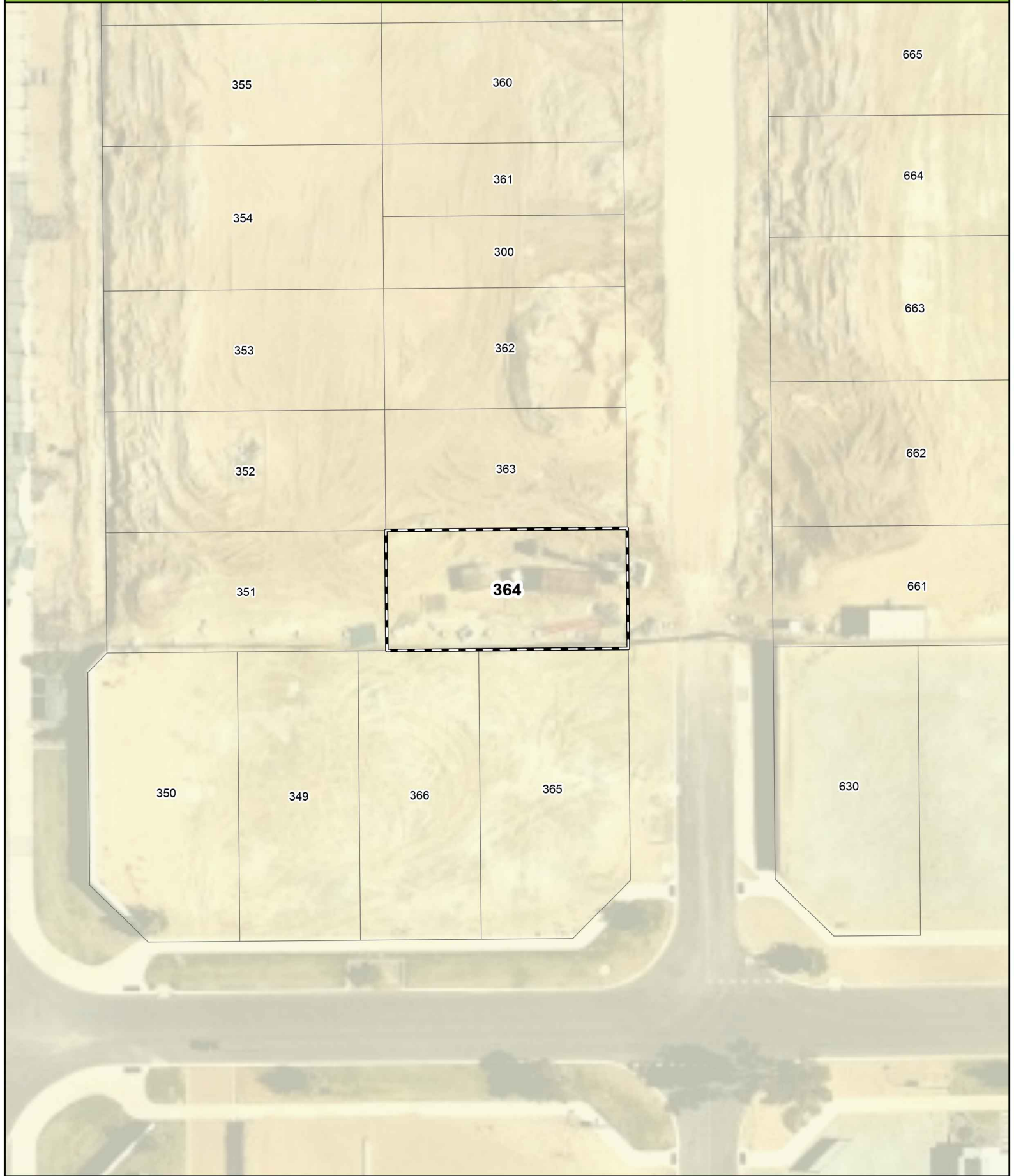
Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

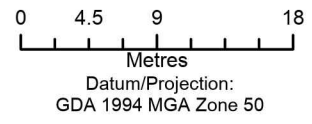
Bushfire Attack Level (BAL) Contours - Lot 364 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 365, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

Bushfire Attack Level (BAL) Contours - Lot 365 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



0 4.5 9 18
Metres
Datum/Projection:
GDA 1994 MGA Zone 50


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A TETRA TECH COMPANY
Prepared by: SM Date: 12/02/2020

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 366, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Name Alex Aitken
Eco Logical Australia

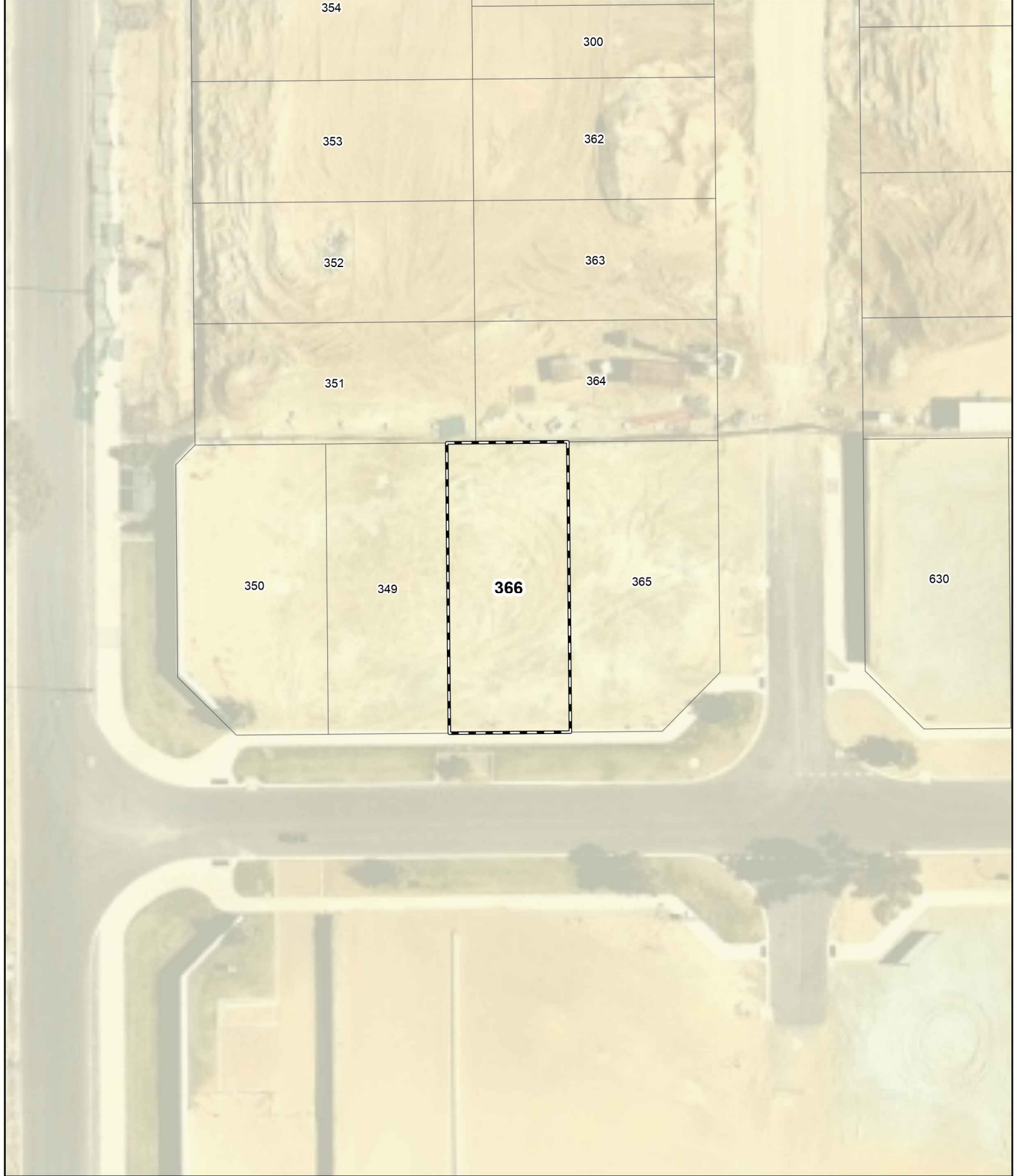
Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

Bushfire Attack Level (BAL) Contours - Lot 366 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



0 4.5 9 18
Metres
Datum/Projection:
GDA 1994 MGA Zone 50

Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 630, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

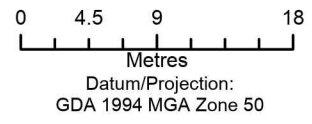
Bushfire Attack Level (BAL) Contours - Lot 630 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 661, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

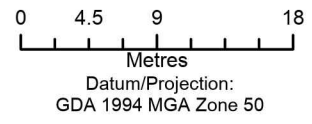
Bushfire Attack Level (BAL) Contours - Lot 661 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 662, Beenyup Grove		
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-15237	Report Date:	13/02/2020

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 (f)	N/A	N/A 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 Alex Aitken
Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020



Accreditation No: BPAD 37739
Expiry: October 2020

Bushfire Attack Level (BAL) Contours - Lot 662 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



0 4.5 9 18
Metres
Datum/Projection:
GDA 1994 MGA Zone 50



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Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 663, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Certificate Date: 13/02/2020




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Expiry: October 2020

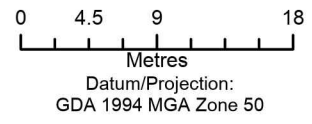
Bushfire Attack Level (BAL) Contours - Lot 663 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 664, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Signature: 

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Accreditation No: BPAD 37739
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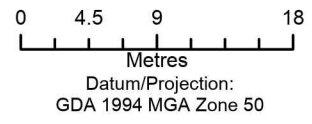
Bushfire Attack Level (BAL) Contours - Lot 664 (BAL - LOW)



- Legend**
- 100m site assessment
 - 150m site assessment
 - Lot location

Bushfire Attack Level (BAL)

- BAL - LOW



Bushfire Attack Level (BAL) Certificate

Determined in accordance with AS 3959-2018

Site Details

Address:	Lot 665, Beenyup Grove		
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-15237	Report Date:	13/02/2020


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 (f)	N/A	N/A m	BAL - LOW

Practitioner Details

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Eco Logical Australia

Signature: 

Certificate Date: 13/02/2020




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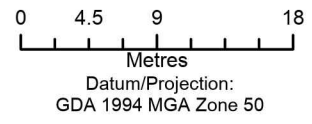
Bushfire Attack Level (BAL) Contours - Lot 665 (BAL - LOW)



- Legend**
-  100m site assessment
 -  150m site assessment
 -  Lot location

Bushfire Attack Level (BAL)

-  BAL - LOW



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A TETRA TECH COMPANY
Prepared by: SM Date: 12/02/2020