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Bushfire Attack Level (BAL) Assessment Report

Site details

Address: Lot 9000 (142) Taylor Road

Suburb: Mundijong State: Western Australia

Local Government Area: Shire of Serpentine-Jarrahdale

Description of Building Works: Construction of Class 1a dwellings - Stage 2 Mundi Estate

Report details			
Project number	24.076	Report version	0
Assessment date	10/07/2025	Report date	15/09/2025
Beau Eaton Senior Bushfire and Environmental Consultant Author	Senior Bushfire and Environmental		Dylan Wray Associate Bushfire Consultant (BPAD L2-44656)
		Review	BPAD Bushfire Planning & Design Accredited Practitioner Level 2

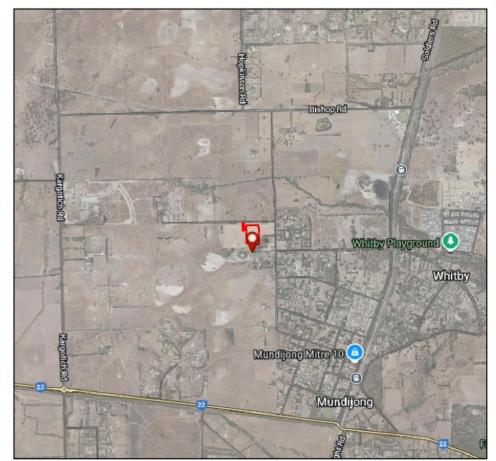
Site Assessment and Site Plan

Assessment of 57 lots in Stage 2 Mundi Estate (the subject site), was undertaken on 10/07/2025 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* (AS 3959: 2018; SA, 2018) Simplified Procedure (Method 1). All lots fall within a designated bushfire prone area as per the *Western Australia State Map of Bush Fire Prone Areas* (DFES, 2024) and are subject to this assessment. An overview of the subject site is presented in Figure 1.

Vegetation Classification

All vegetation within 100 m of the subject site was classified in accordance with Clause 2.2.3 of AS 3959: 2018. Each vegetation class is identified in Table 1 and presented in Figure 2.





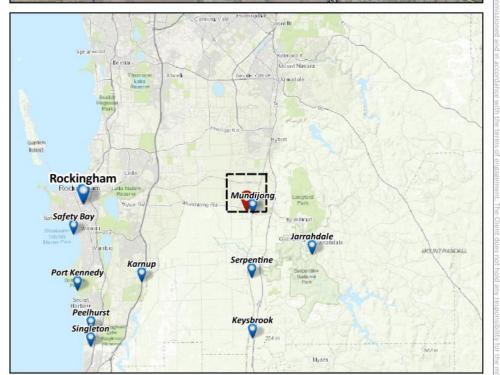


Figure 1: Site Overview

1.60		35900				
N 0 40	80	120 160 m	PROJECT/REPORT NAME Bushfire Attack Level Report: Stage 2 Lot 9000 Mundi Estate	, Mundi Estate	Legen	d Subject Site Buffer 100n
scale 1:2,700	A3 COLOUR		Parcel Property			Buffer 150n
coordinate reference system GDA2020 / MGA zone 50	<u> </u>		PROJECT NUMBER A24.076	VERSION O		Stage 1 Lots
DATA SOURCE Nearmap (25th June 2025)			DRAWN BY / REVIEWED BY SM/BE	4/9/2025		

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Table 1: Vegetation Classification

Plot 1

Class B Woodland

Photo 1

Eucalyptus trees up to 20 m in height with a grassy understorey. The vegetation structure is considered open. The plot contains more than a single row of trees, however, due to frequent traffic along the site access road, a photo couldn't be captured of the denser portion.

The slope under this vegetation was assessed to be upslope/flat land.



Plot 1

Class B Woodland

Photo 2

Eucalyptus trees up to 20 m in height with a grassy understorey. The vegetation structure is considered open. The plot contains more than a single row of trees, however, due to frequent traffic along the site access road, a photo couldn't be captured of the denser portion.

The slope under this vegetation was assessed to be upslope/flat land.

The slope under this vegetation was assessed to be flat/upslope.



Plot 2

Class G Grassland

Photo 3

Grass in roadside verge extending into adjacent property. The grass has an average height greater than 100 mm.

The slope under this vegetation was assessed to be flat/upslope.



Plot 2 Class G Grassland

Photo 4

Grass in paddocks with an average height greater than 100 mm. The overstorey contains occasional trees which comprise less than 10% of the overall canopy cover.

The slope under this vegetation was assessed to be flat/upslope.



Plot 3

Photo 5

Cleared land ahead of development in and surrounding the subject site.

These non-vegetated areas have been excluded in accordance with Clause 2.2.3.2 (e) of AS 3959: 2018.



Plot 3

Photo 6

Graded road ahead of asphalt being laid connecting the subject site to other subsequent stages and adjoining Taylor Road.

These non-vegetated areas have been excluded in accordance with Clause 2.2.3.2 (e) of AS 3959: 2018.



Plot 4

Photo 7

Grass in proposed Public Open Space (POS) cropped to less than 100 mm in height and maintained in a low-threat state. The area contains the occasional tree which comprise less than 10% of the overall canopy cover.

This vegetation is regarded as low-threat and has been excluded in accordance with Clause 2.2.3.2 (f) of AS 3959: 2018.

This photo was captured by the landowner due to slashing taking place after the site visit.

Excluded - clause 2.2.3.2 (f)

Excluded - clause 2.2.3.2 (f)

Plot 4

Photo 8

Grass in proposed POS cropped to less than 100 mm in height and maintained in a low-threat state. The area contains the occasional tree which comprise less than 10% of the overall canopy cover.

This vegetation is regarded as low-threat and has been excluded in accordance with Clause 2.2.3.2 (f) of AS 3959: 2018.

This photo was captured by the landowner due to slashing taking place after the site visit.



Plot 4

Photo 9 (Background)

Eucalyptus trees with an understorey of bare sand and slashed grass maintained in a low-threat state. Vegetation structure is considered open.

This vegetation is regarded as low-threat and has been excluded in accordance with Clause 2.2.3.2 (f) of AS 3959: 2018.



Photo 10

Eucalyptus trees with an understorey of bare sand. Vegetation structure is considered open.

This vegetation is regarded as low-threat and has been excluded in accordance with Clause 2.2.3.2 (f) of AS 3959: 2018.



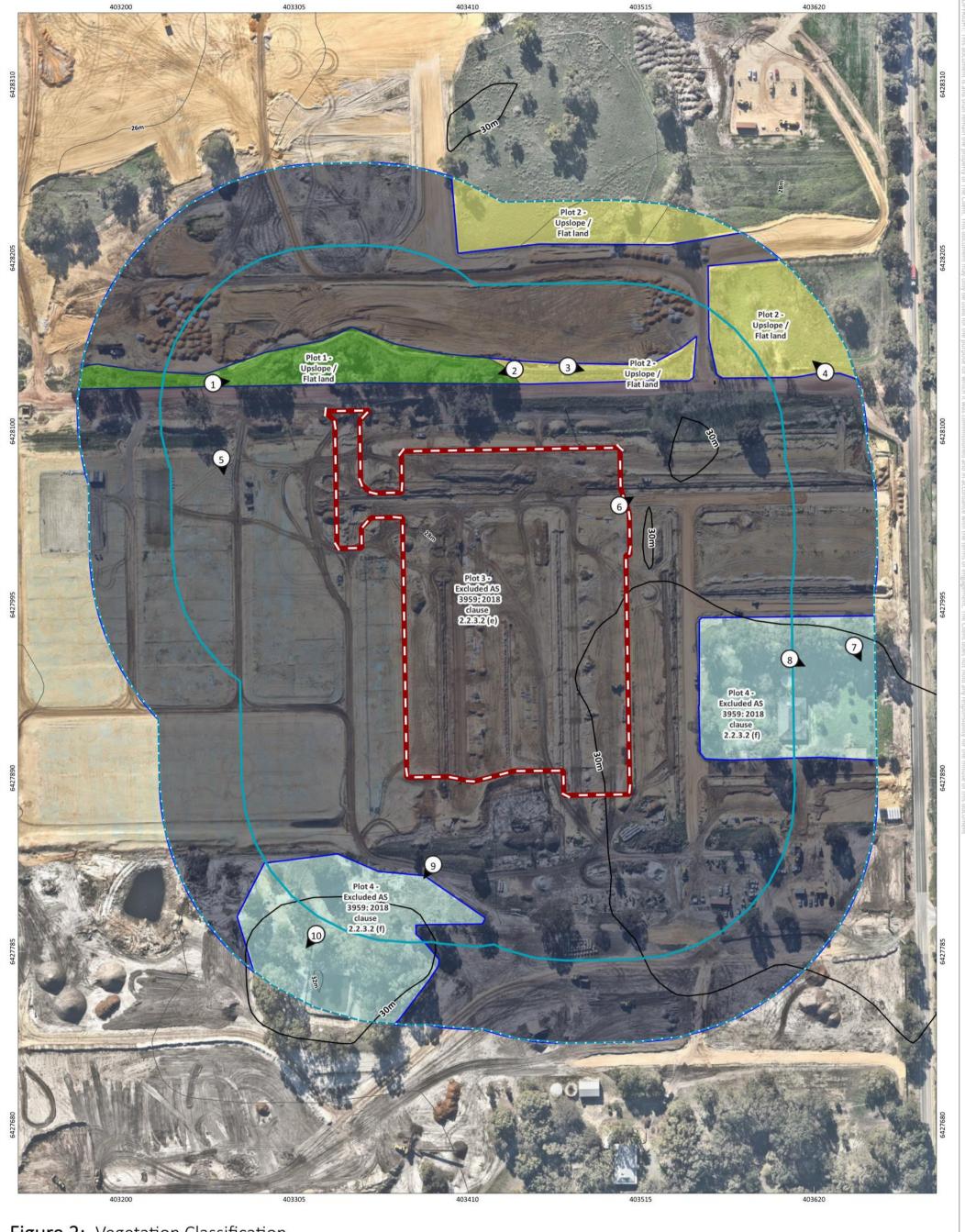


Figure 2: Vegetation Classification

0 20 N	40 60	80 m	Bushfire Attack Mundi Estate Lot 9000 Mundi	Level Report: Stage 2,
1:2,100	A3 COLOUR		Parcel Property	
coordinate reference system GDA2020 / MGA zone 50		PROJECT NUMBER A24.076	VERSION O	
DATA SOURCE Nearmap (25th June 2025)		DRAWN BY / REVIEWED BY SM/BE	4/9/2025	

1	Legen	u
		Subject Site
		Buffer 100m

—— 10m

Buffer 150m
Photos 2 metre contours (DPIRD-072) Vegetation Classification

Class B - Woodland Class G - Grassland

Excluded AS 3959: 2018 2.2.3.2 (e) Excluded AS 3959: 2018 2.2.3.2 (f)

No	Description	Drawn	Approved	Date
A	Original issue	SM	BE	4/9/2025
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NO	ITES:			
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Relevant Fire Danger Index

The Fire Danger Index for this site has been determined in accordance with Table 2.1 of AS 3959: 2018 and is presented in Table 2.

Table 2: Fire Danger Index (FDI)

Relevant Fire Danger Index					
FDI 40 □	FDI 50 □	FDI 80 ✓	FDI 100 □		
Table 2.4.5	Table 2.4.4	Table 2.4.3	Table 2.4.2		

Potential Bushfire Impacts

The potential bushfire impact (presented as BAL contours) to the proposed lots from each of the identified vegetation plots are outlined below in Table 3.

Table 3: Method 1 BAL Calculation (BAL Contours)

Diet	Vegetation	Effective clans	Separation distances (m)				
Plot	classification	Effective slope	BAL-FZ	BAL-40	BAL-29	BAL-19	BAL-12.5
1	Class B Woodland	All upslopes and flat land (0 degrees)	<10	10-<14	14-<20	20-<29	29-<100
2	Class G Grassland	All upslopes and flat land (0 degrees)	<6	6-<8	8-<12	12-<17	17-<50
3	Excluded - clause 2.2.3.2 (e)	-	- No separation distances required - BAL-LOW				L-LOW
4	Excluded - clause 2.2.3.2 (f)	-	No separation distances required - BAL-LOW				L-LOW

Determined Bushfire Attack Level (BAL)

The determined Bushfire Attack Level (highest BAL) for the subject site and associated lots has been determined in accordance with Clause 2.2.6 of AS 3959: 2018. Relevant data from the site assessment is shown in Figure 3 and Table 4.

Table 4: BAL Assessment Summary

Affected Lot	BAL Rating	Construction sections to be consulted in AS 3959: 2018
11	BAL-12.5	3 and 5
12	BAL-12.5	3 and 5
13	BAL-12.5	3 and 5
14	BAL-12.5	3 and 5
15	BAL-12.5	3 and 5
16	BAL-12.5	3 and 5
17	BAL-12.5	3 and 5
18	BAL-12.5	3 and 5
19	BAL-12.5	3 and 5
20	BAL-12.5	3 and 5
21	BAL-12.5	3 and 5
22	BAL-12.5	3 and 5
23	BAL-LOW	4
24	BAL-LOW	4
25	BAL-LOW	4
26	BAL-LOW	4
27	BAL-LOW	4
28	BAL-LOW	4
29	BAL-LOW	4
30	BAL-LOW	4
31	BAL-LOW	4
32	BAL-LOW	4
33	BAL-LOW	4
34	BAL-LOW	4
35	BAL-LOW	4
36	BAL-LOW	4
37	BAL-LOW	4
38	BAL-LOW	4
39	BAL-LOW	4
40	BAL-LOW	4
41	BAL-LOW	4

Affected Lot	BAL Rating	Construction sections to be consulted in AS 3959: 2018
42	BAL-12.5	3 and 5
43	BAL-12.5	3 and 5
44	BAL-12.5	3 and 5
45	BAL-12.5	3 and 5
46	BAL-12.5	3 and 5
47	BAL-LOW	4
48	BAL-LOW	4
49	BAL-LOW	4
50	BAL-LOW	4
51	BAL-LOW	4
52	BAL-LOW	4
53	BAL-LOW	4
54	BAL-LOW	4
55	BAL-LOW	4
56	BAL-LOW	4
57	BAL-LOW	4
58	BAL-LOW	4
59	BAL-LOW	4
60	BAL-LOW	4
61	BAL-LOW	4
62	BAL-LOW	4
63	BAL-LOW	4
64	BAL-LOW	4
65	BAL-LOW	4
66	BAL-12.5	3 and 5
67	BAL-12.5	3 and 5

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

BAL-LOW

SM/BE

4/9/2025

Nearmap (25th June 2025)

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.