

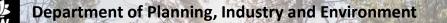
DEPARTMENT OF PLANNING, INDUSTRY & ENVIRONMENT

BAM Support for Accredited Assessors

A series of webinars to support the role of accredited BAM assessors in the Biodiversity Offset scheme (BOS)



For more information, go to the BAM Support Webinar webpage or contact us via the BOS Online Enquiry Form



BAM SUPPORT WEBINAR 8

Catastrophic bushfire and the assessment of biodiversity values: guidance on applying the BAM to severely burnt sites



Penelope Rogers Senior Project Officer Ecosystem Assessment Team Conservation Programs Branch

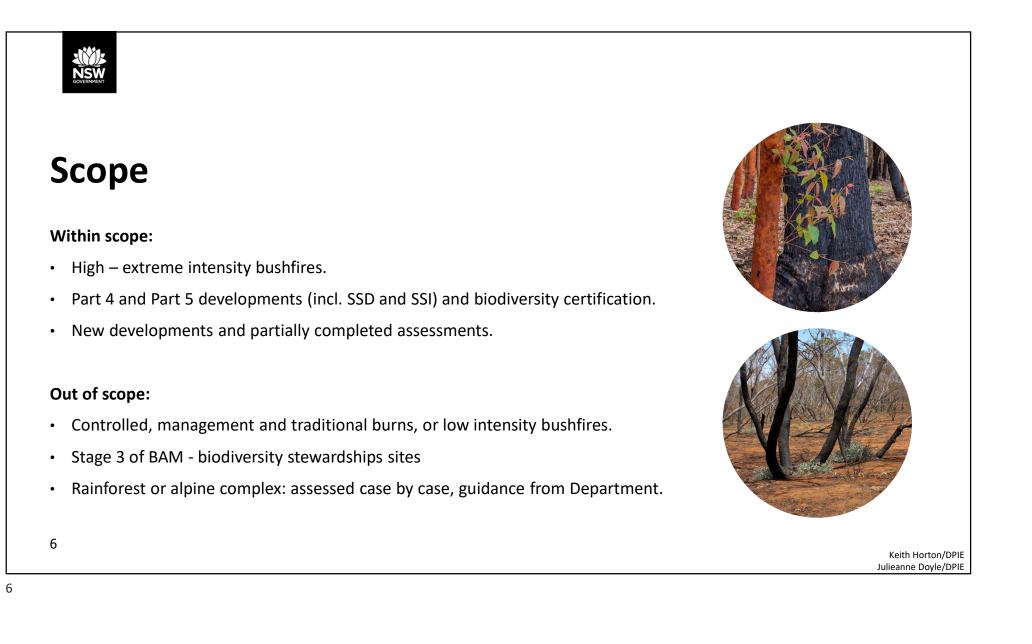
Wednesday 18th March 2020 12:00pm - 1:00pm

For more information, go to the BAM Support Webinar webpage or contact us via the BOS Online Enquiry Form

Ove	erview		
TIME	ITEM	DESCRIPTION	DURATION
12:00	Introduction	Acknowledgment of Country Introduction and house keeping	10 mins
12:10	Content Presentation	Catastrophic bushfire and the assessment of biodiversity values: guidance on applying the BAM to severely burnt sites	25 mins
12:35	Q & A session	Presenter and SME panel address participants' questions	20 mins
12:55	Wrap-up and Close	Closing remarks Upcoming sessions Post-webinar feedback	5 mins









Limitations

- Not field tested expecting feedback (review scheduled for 3 months).
- Tools and resources to support assessment more under development.
- Relies on reasoned evaluation and professional judgement by assessors to estimate the biodiversity values prior to severe bushfire.

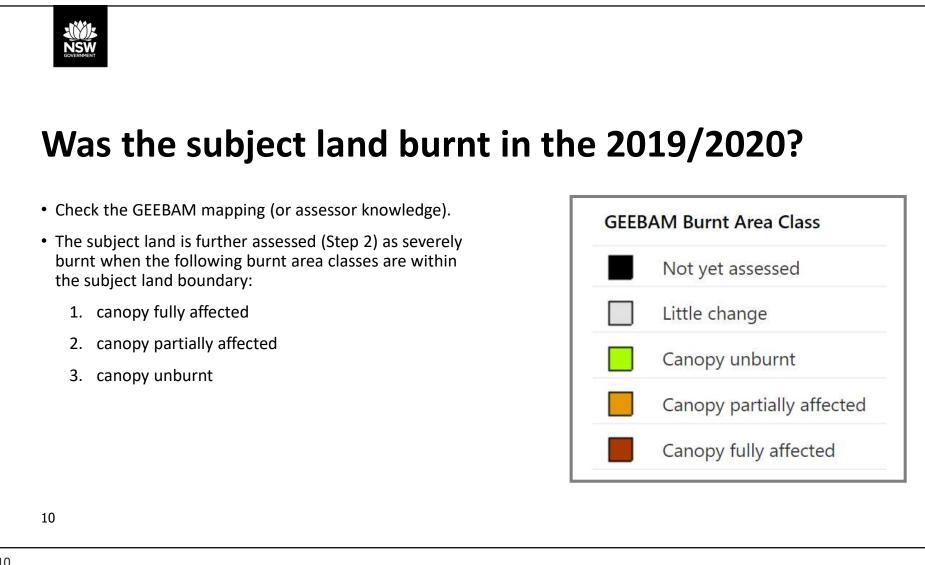


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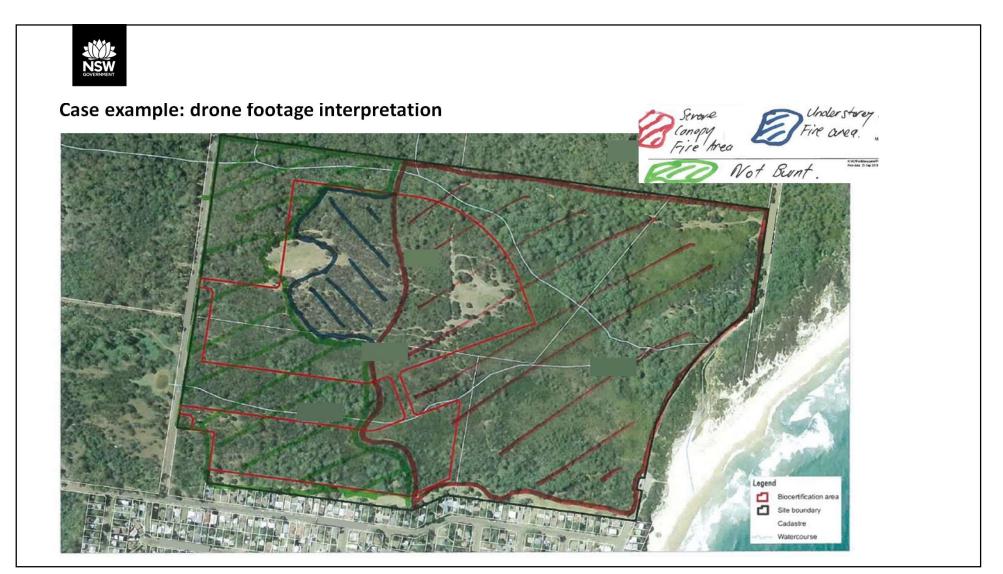


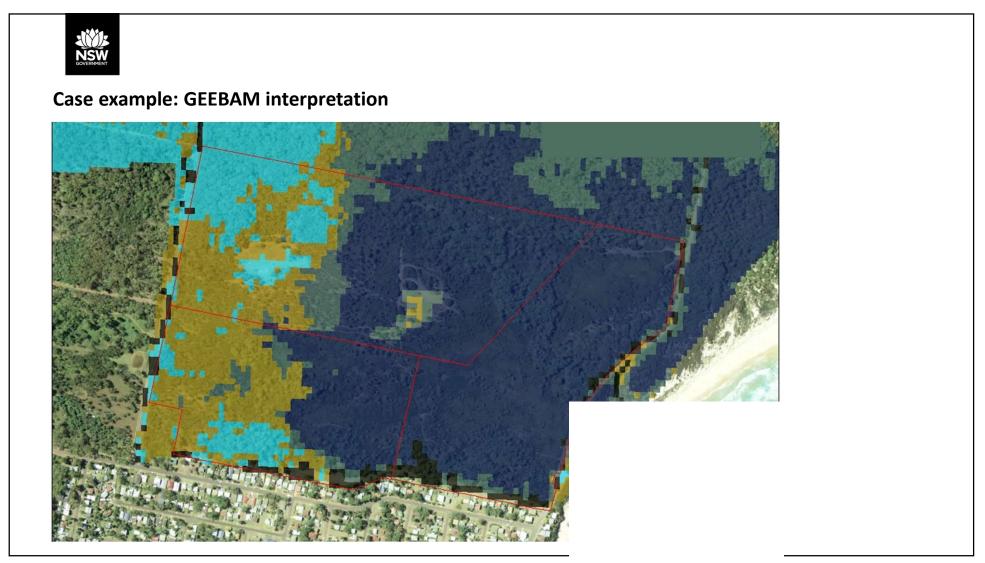


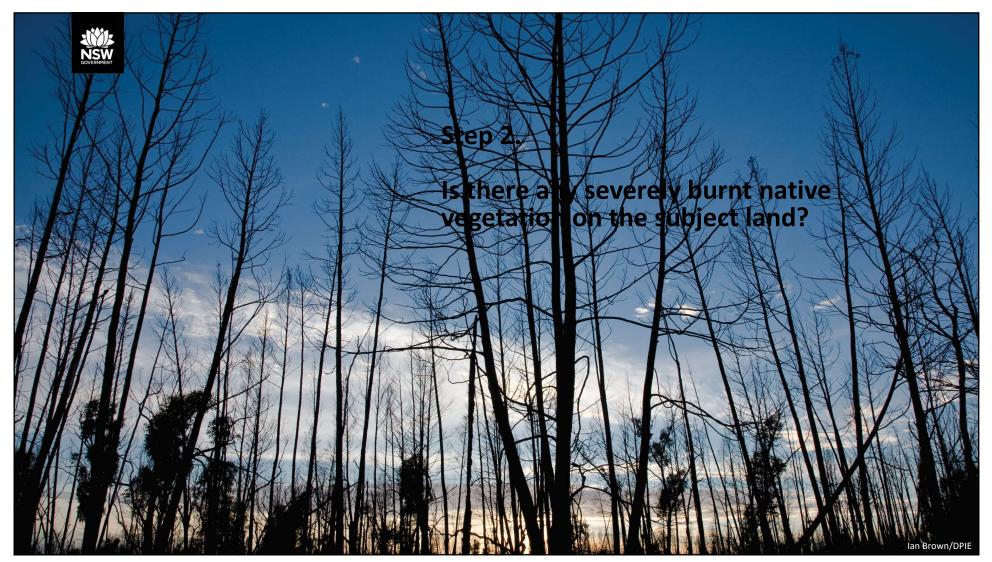


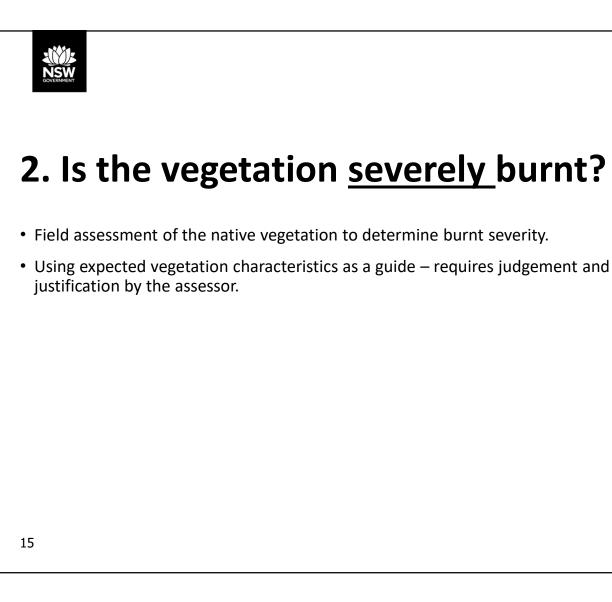














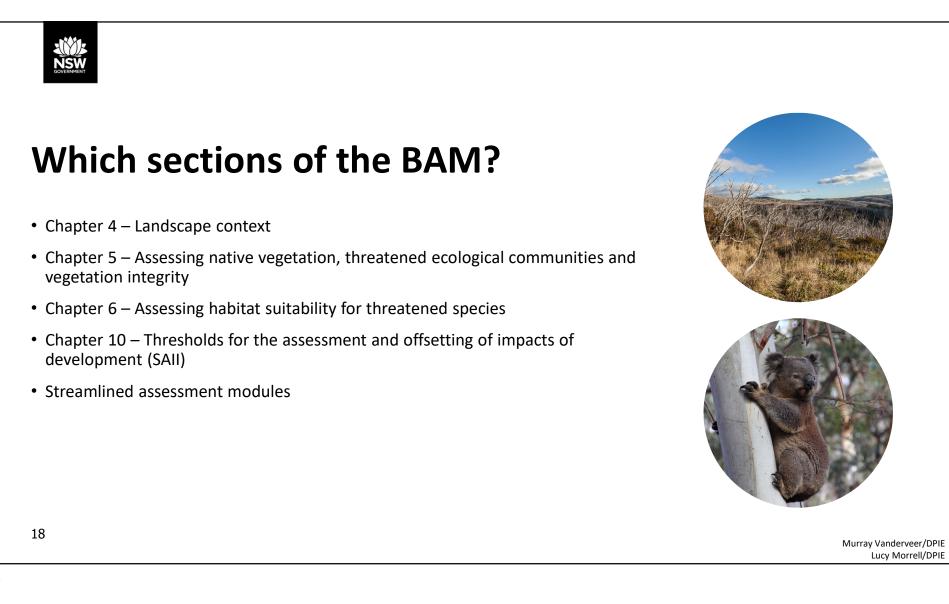
David Croft/DPIE Michael Jarman/DPIE

Table 1. Decision support criteria to help evaluate if native vegetation is severely burnt.				
Species richness	The range of species present before the fire are burnt and/or cannot be identified. Dominant species cannot be easily identified until regeneration occurs.			
Growth form: trees	Canopy trees are killed and/or canopy is consumed or largely consumed with most leaf material charred/scorched. Epicormic growth, if present, is not well developed (<1m lo			
Growth form: shrubs, forbs, ferns and other	All understorey plants are consumed or largely consumed (some charred). Re-growth, if present, is immature (very few species have attained full height).			
Growth form: grasses and grass-like	Ground cover is consumed, or largely consumed. Evidence of ground scorch is present. F growth, if present, consists predominately of new re-sprouting growth (native vegetation			
Logs	Logs (if expected to have been previously on site) are absent or largely consumed.			
Litter cover	Pre-fire surface litter (if expected) is consumed. Soil organic layer is consumed or large consumed. New leaf may be occurring where the canopy was burnt but not scorched			
Ash	White ash deposition and charred organic matter is present to several centimetres depth.			



Decision Maker Agreement

- Recommend agreement is obtained from the consent authority to apply the guideline and specific approach to use prior to full site assessment.
- Important: if any native vegetation is considered severely burnt, the guideline applies to the whole assessment.



Key Principle

Assessing biodiversity values that existed prior to severe bushfire:

- Vegetation cover/extent/condition is determined pre-fire.
- Mapping should be based on pre-fire imagery.



Key Principle

PCT / TEC identification:

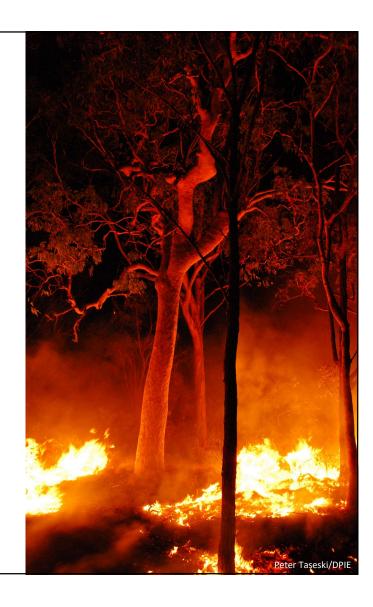
- This will be challenging many of the common indicators are not present. Instead a suite of attributes/resources should be used to support choices.
- Use pre-fire condition to determine vegetation zones. Where condition cannot be determined – allocate vegetation zones by PCT only.
- Important: a vegetation zone may include burnt and unburnt vegetation.



Key Principle

Vegetation integrity:

- Use of the guidelines for VI assessment is based on burn severity in the vegetation zone <u>apply Table 1 again.</u>
- If the vegetation zone has any severely burnt vegetation: apply guideline for assessing VI.
- If the vegetation zone no severely burnt vegetation: apply the BAM for assessing VI.





Key Principle

Vegetation integrity assessments:

- Option 1 Use unburnt section(s) of the vegetation zone and replicate plot data in the BAM-C.
- Option 2 Locate surrogate plots for vegetation zones.
- Option 3 Use of existing VIS data.
- Option 4 Assume benchmark condition.





Key Principle

Habitat suitability for threatened species:

- Important: where the site has <u>any</u> severely burnt vegetation, the guidelines apply to habitat suitability assessments for the entire site (burnt and unburnt native vegetation).
- Assumed presence or expert reports.
- For threatened plants only (that known early fire responders): can survey, with agreement from consent authority.



Key Principle

SAII:

- Assumed presence or expert reports.
- Cannot rely on degraded habitat to exclude.
- Must consider SAII assessment criteria based on best current knowledge of the threatened entity, i.e. the status of threatened entity post-bushfire season.



