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Environment and Landscape Matters
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5 February 2025

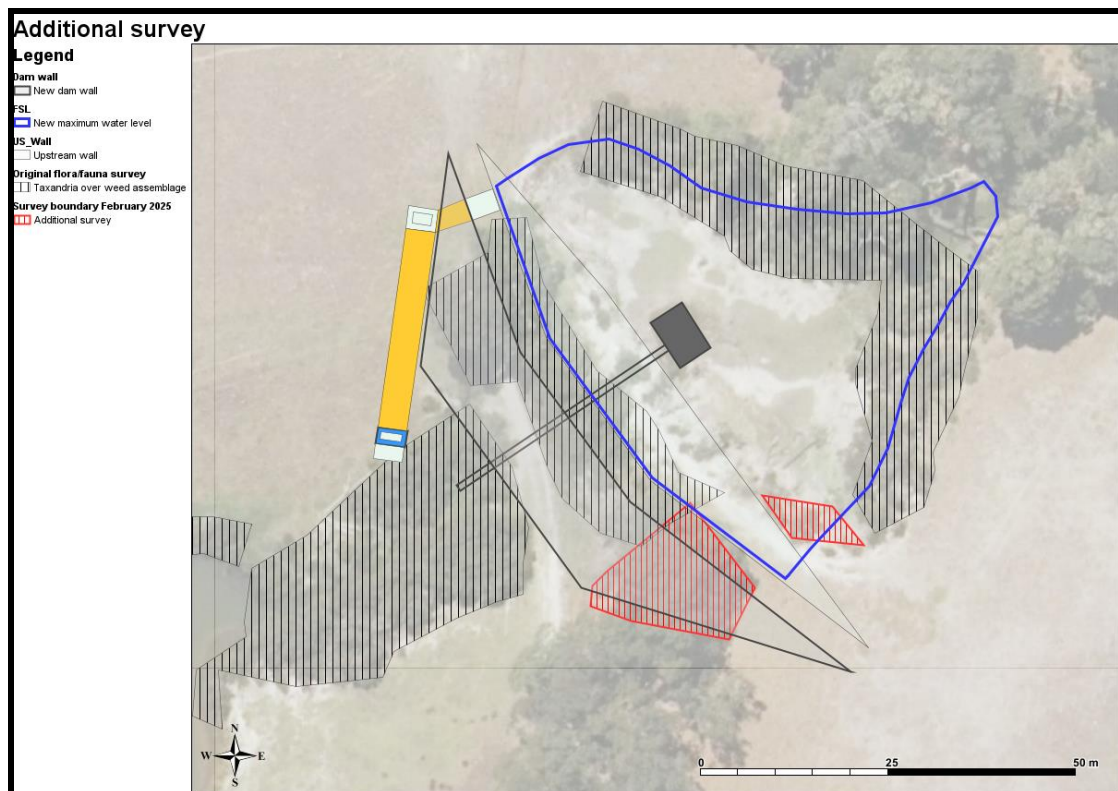
SW Hydrology
Chris Mulcahy

Dear Chris,

Updated survey information: Lot 2280 Bramley River Rd, Margaret River

Background

At the request of the owner of Lot 2280 Bramley River Rd, Mr Crane, NSA PL returned to the dam site to review remnant vegetation beyond the original vegetation polygons requested for assessment. The final dam design informs this boundary (Map 1).



Map 1: Original survey area, new dam high water mark and additional vegetation review

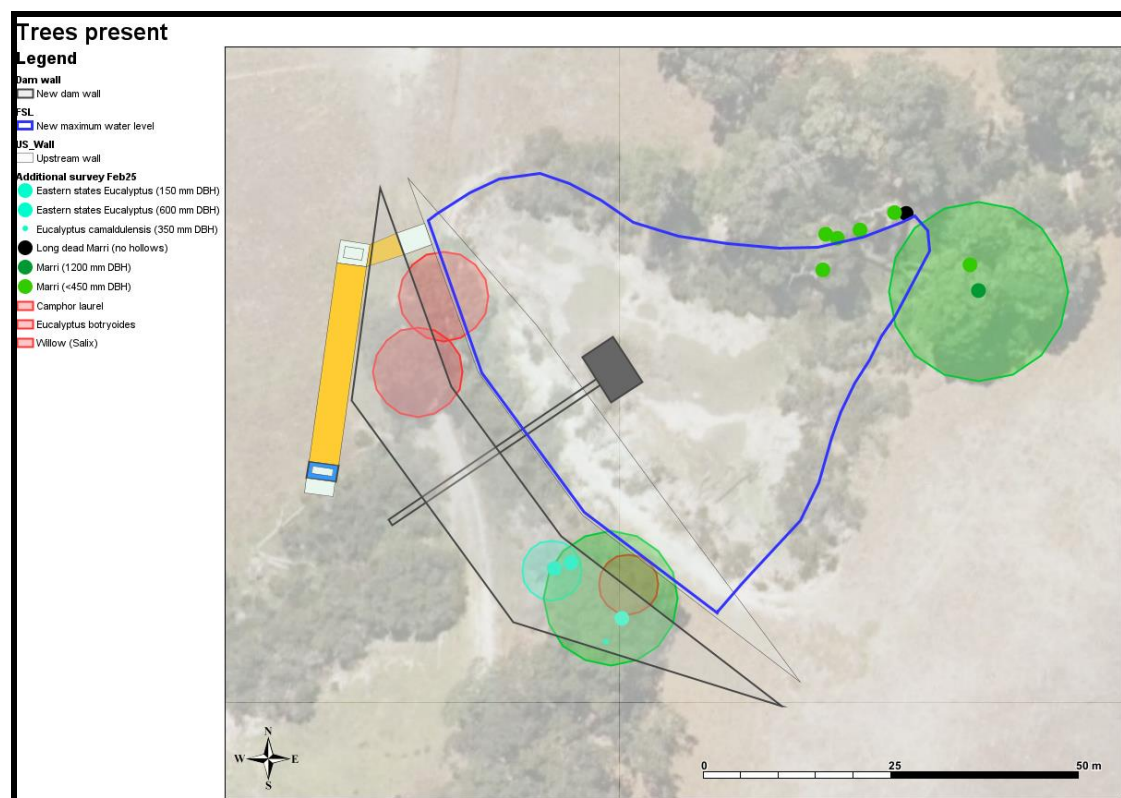
The flora and targeted fauna survey, focusing on habitat requirements of Western ringtail possum and Black cockatoo, was undertaken on Monday 20th January 2025. Attention was given to all trees within the developable area and on the upstream boundary where waterlogging may impact upon tree health.

Results

The additional vegetation impacted upon by the revised design is completely degraded and is characterised by regenerating *Taxandria linearifolia* shrubland over a chaotic weed assemblage with occasional *Juncus pauciflorus* and *Lepidosperma tetraquetrum* on the upstream end.

There are seven Eastern states eucalypts ranging from 150 mm diameter to 600 mm diameter at breast height (DBH) that will require removal to facilitate dam construction (Map 2). These are part of an established, planted shelterbelt.

In addition, there is one mature Willow at the northern end of the current dam wall and one juvenile Camphor laurel to be removed from the southern end.



Map 2: Locally indigenous, Australian and exotic trees present

At the high water mark at eastern end, there are four Marri and one Blackbutt (< 450 mm DBH) within and adjacent the future inundation area and one long dead Marri trunk.

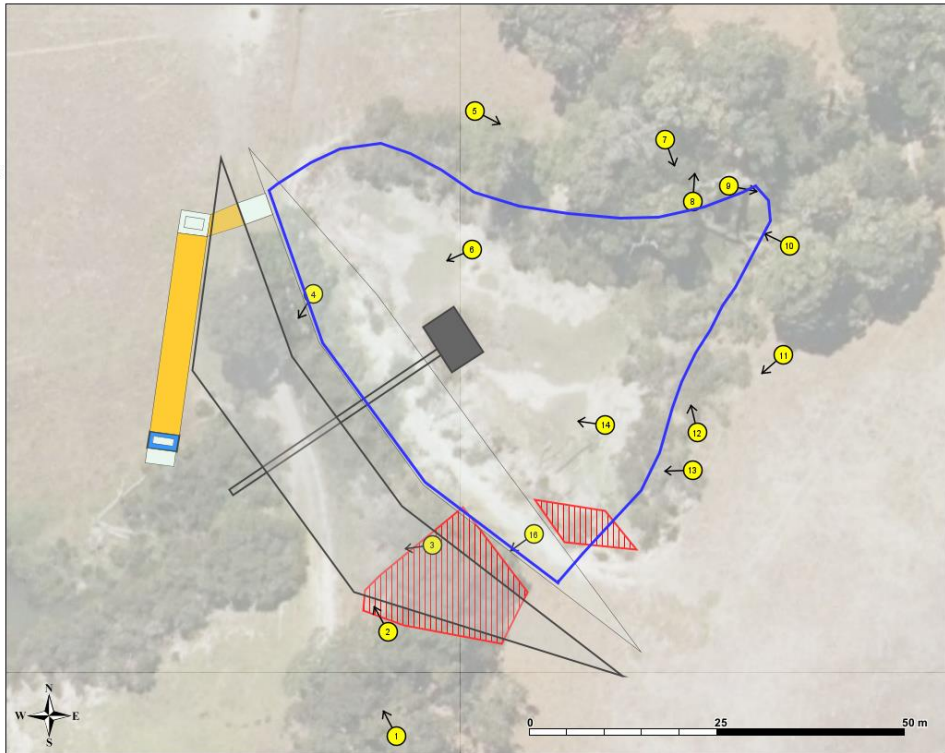
There are no significant hollows nor evidence of nesting/roosting mammals or birds within the trees assessed. The trees are likely used intermittently by fauna foraging.

Additional photographs (1-15) were taken to show the degraded vegetation within the developable area (Map 3).

Photopoints

Legend

- Dam wall
- New dam wall
- FSL
- ▬ New maximum water level
- US_Wall
- Upstream wall
- Final photopoints
- Survey boundary February 2025
- ▨ Additional survey



Map 3: Photopoints

Photopoint 1: Looking along the downstream side of the current dam wall



Photopoint 2: South west corner of current dam wall with regenerating *Taxandria* and sparse *Juncus pauciflorus* over weeds



Photopoint 3: Looking west adjacent the current dam wall



Photopoint 4: *Eucalyptus botryoides* on north end of dam wall



Photopoint 5: Looking east showing Marri and Taxandria



Photopoint 6: Looking northwest within existing dam floor at Willow and *E. botryoides*



Photopoint 7: Marri (450 DBH) without hollows



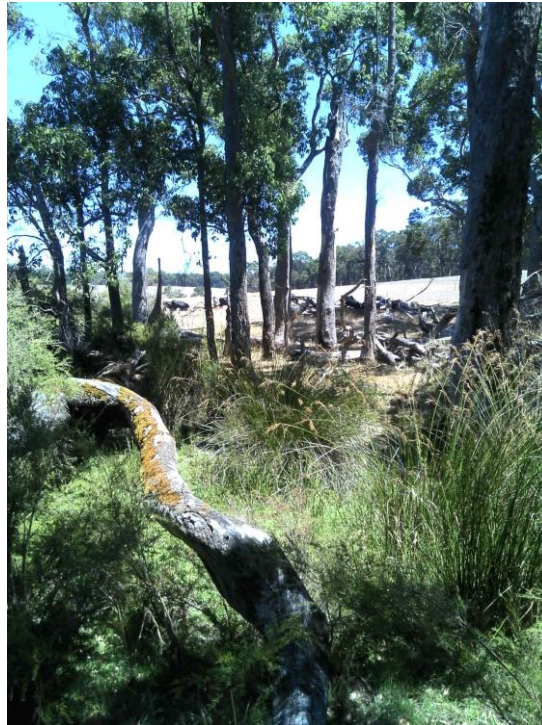
Photopoint 8: Young marri on upper margin of future high water mark



Photopoint 9: Long dead marri without hollows



Photopoint 10: Gully at upstream end looking northwest across trees shown in previous photographs. Note, the *Lepidosperma tetraquetrum* will be salvaged and transplanted at construction.



Photopoint 11: Regenerating *Taxandria* over weed assemblage that is characteristic of the vegetation around the dam and soak.



Photopoint 12: Looking north of north east at the Marri that may be impacted by higher water levels



Photopoint 13: Vegetation on south bank of existing dam



Photopoint 14: Current dam floor and wall



Photopoint 15: Eastern states Eucalypt over Camphor laurel



Conclusion

NSA PL considers that:

- There are no significant trees or vegetation that will be impacted by the proposed re-design of the dam.
- Future revegetation of the dam margins will benefit fauna.
- There was no direct evidence of Black cockatoo or Western Ringtail possums, nor evidence of their use of the trees proposed for removal. NSA PL considers wildlife use of the trees and vegetation is likely to be transient and the removal of the vegetation will have negligible impact on the habitat benefits of Lot 2280 when considered in its entirety.

Should you have any questions, please do not hesitate to contact me on 0438 397 787 or by email nsassociates@bigpond.com.

Thanks,

A handwritten signature in black ink, appearing to read 'Nicole Siemon'.

Nicole Siemon