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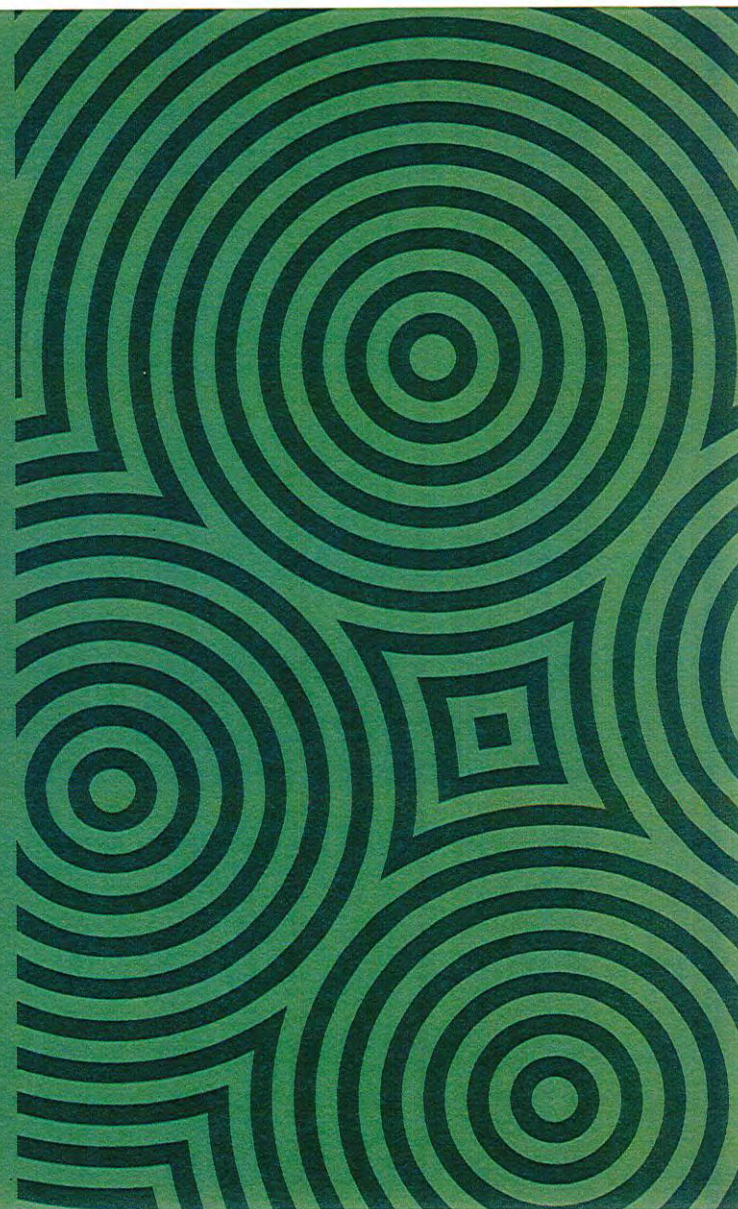


Charles Sturt  
University

# NSW Legislative Council Inquiry into the rationale for, and impacts of, new dams and other water infrastructure in NSW

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29 OCTOBER 2020



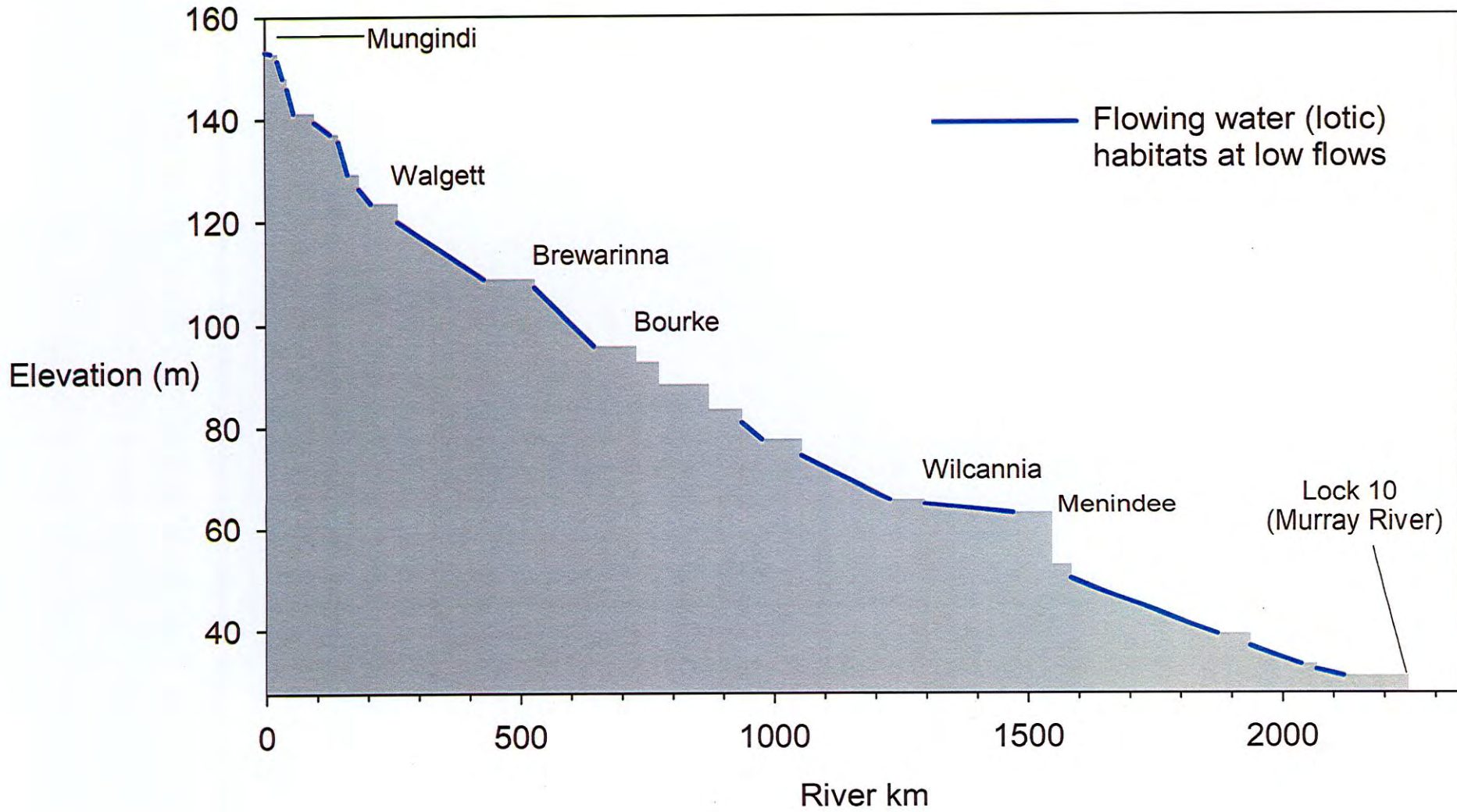


## Western Weirs

Concept of flowing water vs stillwater habitat

Risks, opportunities, alternatives

# Profile of Barwon-Darling River

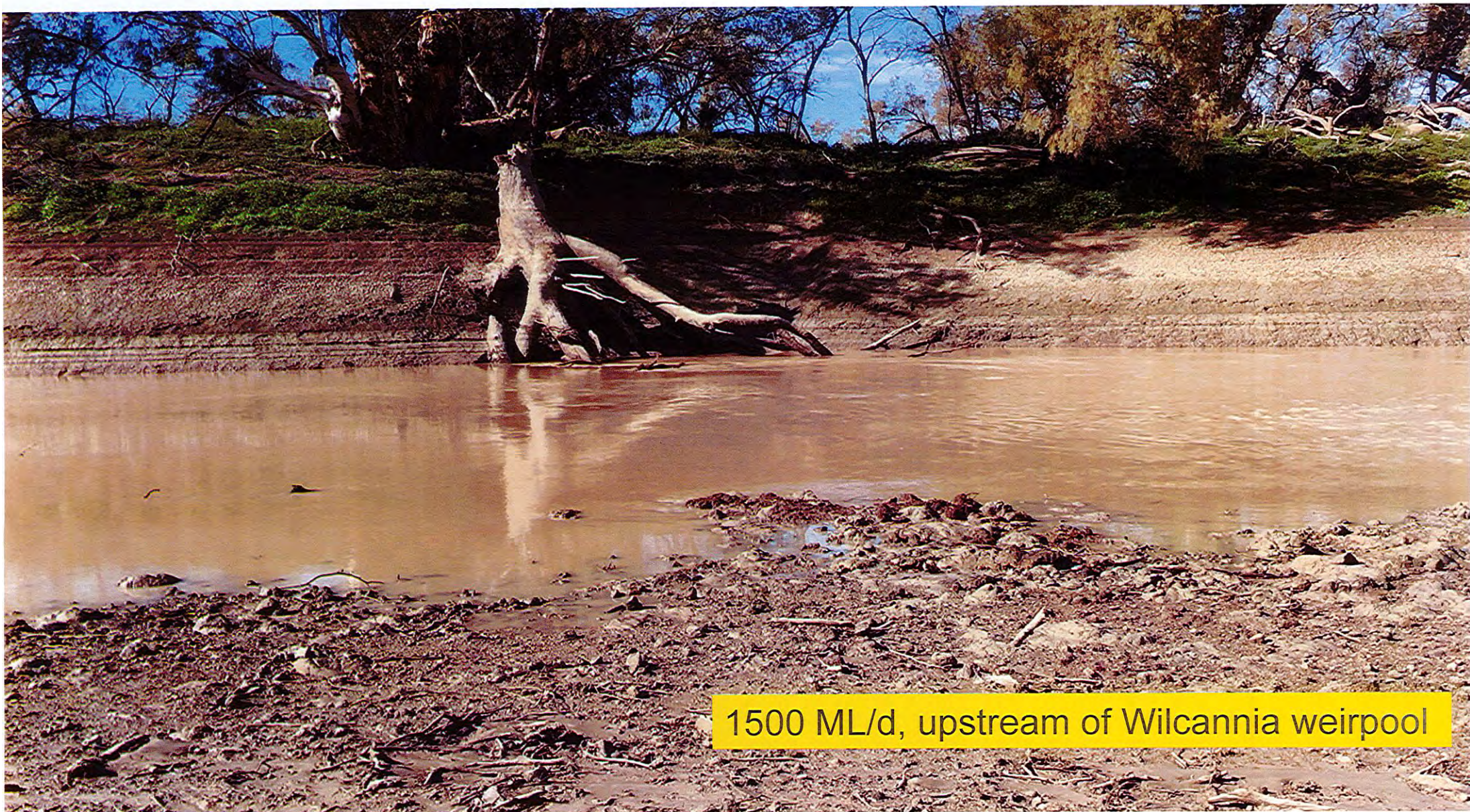






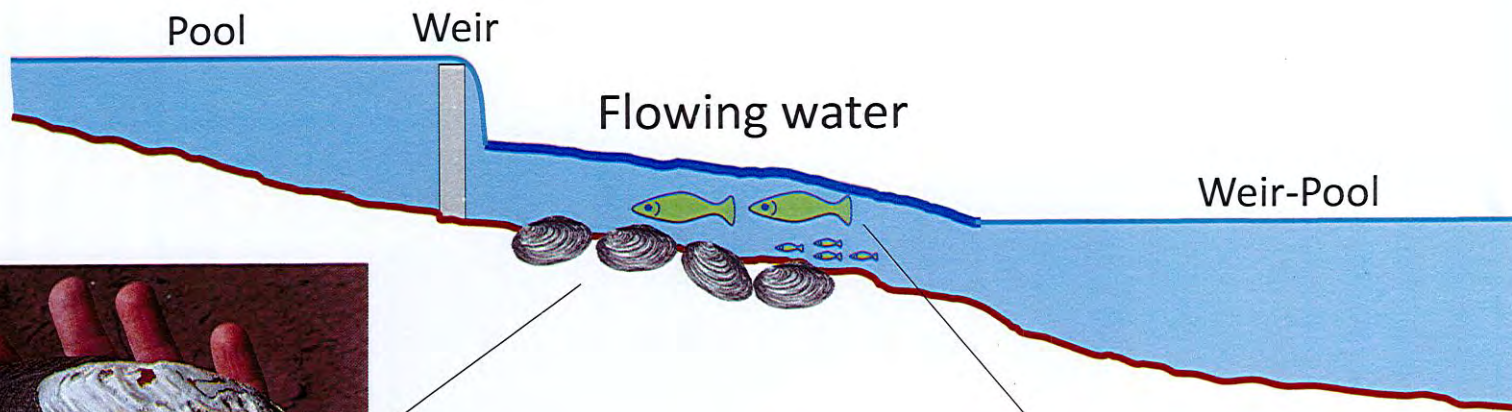
1500 ML/d, Wilcannia weirpool



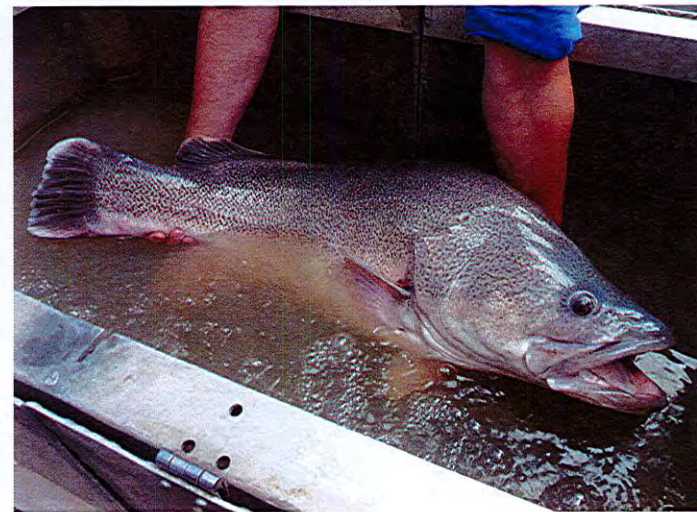


1500 ML/d, upstream of Wilcannia weirpool





River mussels  
- Aboriginal middens for 15,000 years

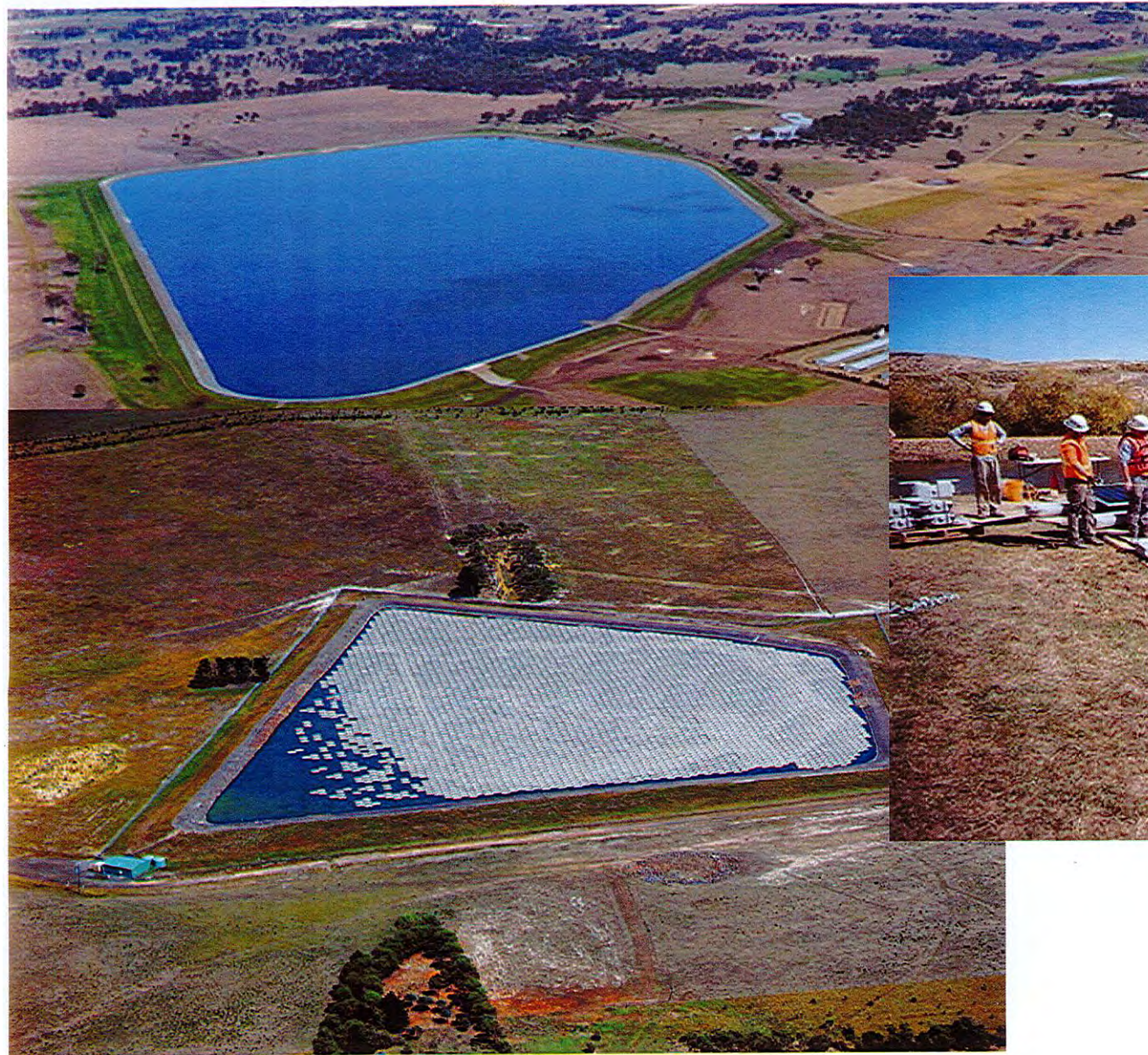


Murray cod

Flowing water specialists



Alternative to weirs:  
off-stream storage



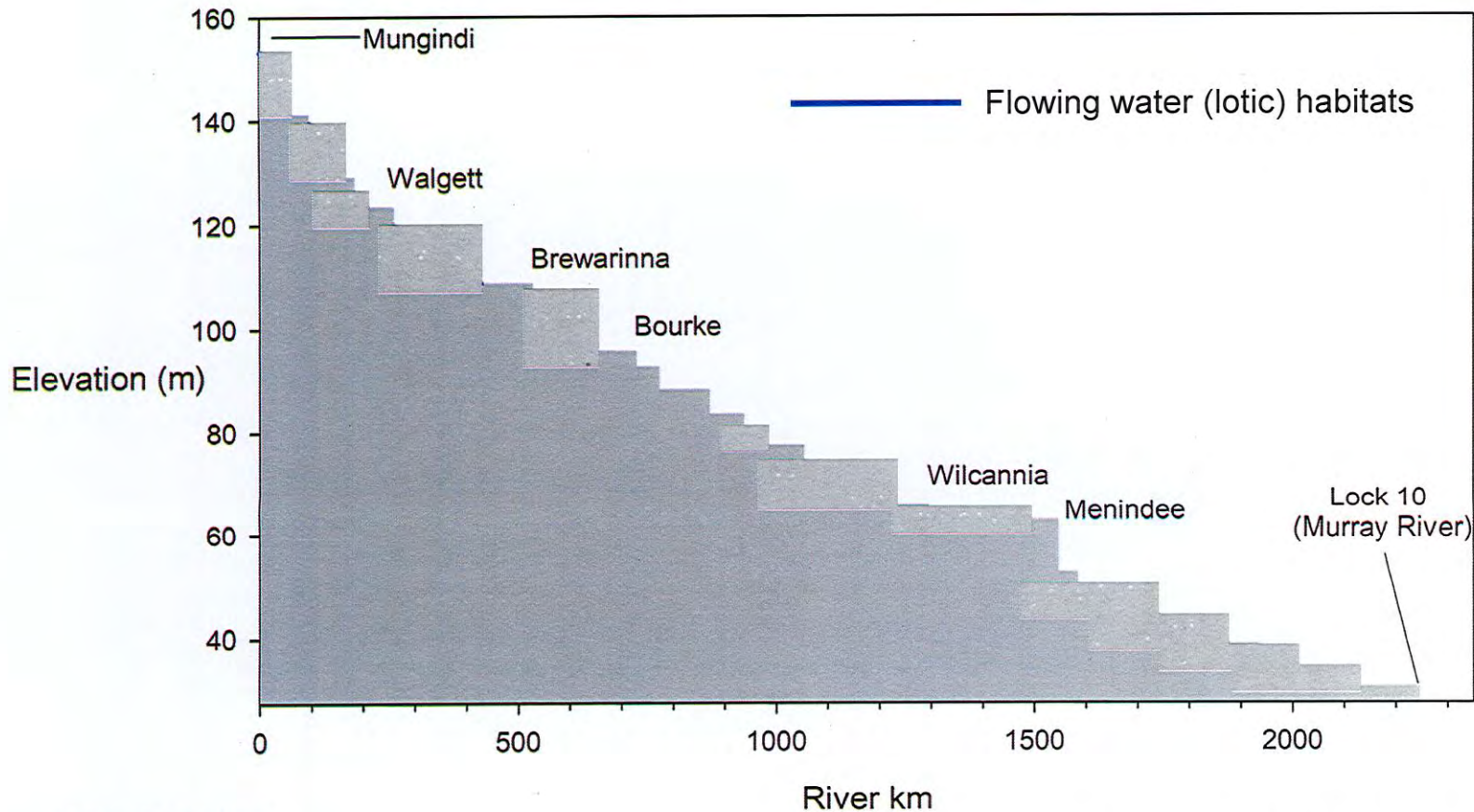


## “Western Weirs” Project – water security

### Spectrum of options

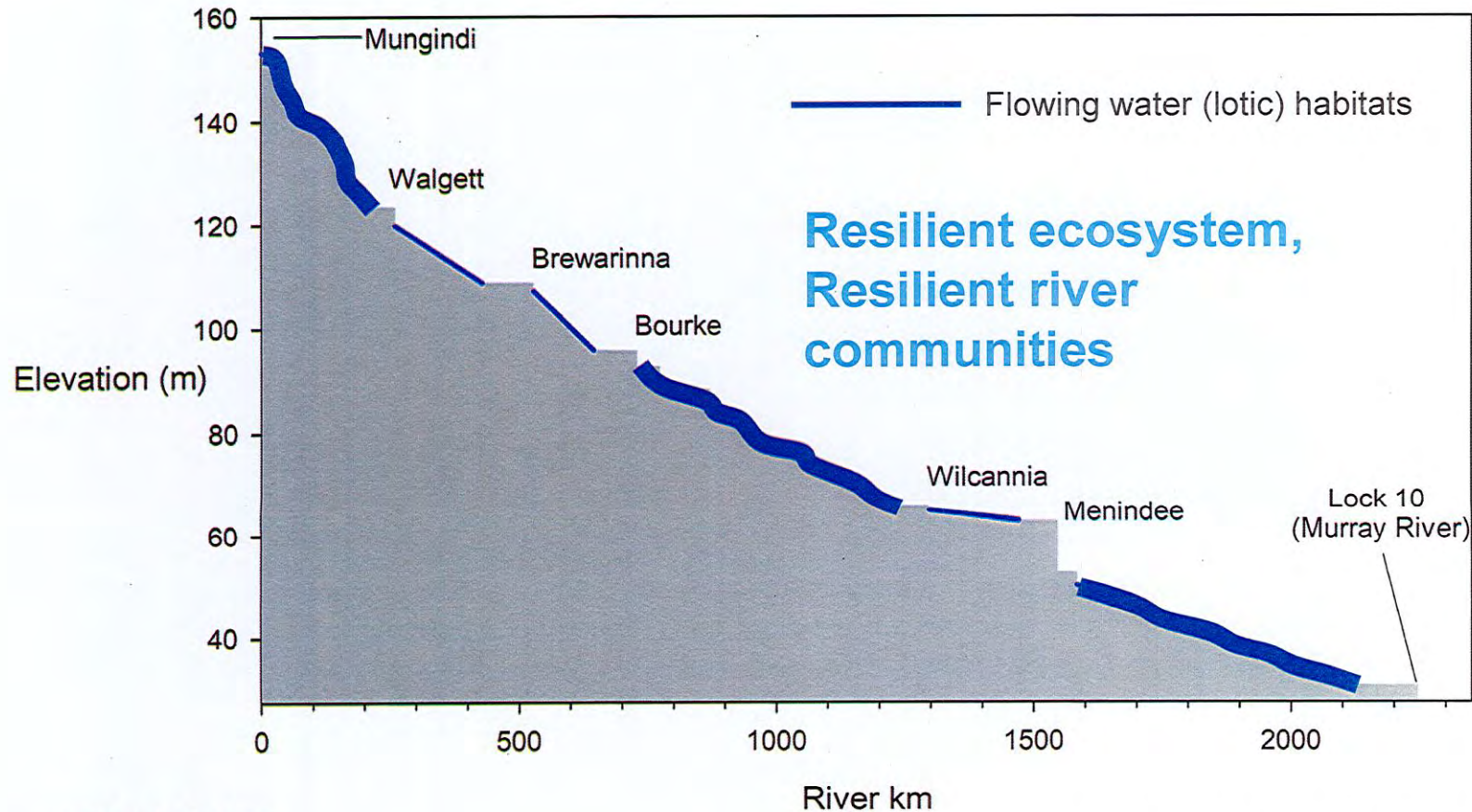
#### At one end:

- More/higher weirs
- Less flowing water
- Less nursery habitat
- Less fish





## “Western Weirs” Project – water security



### Spectrum of options

#### At the other end:

- Off-stream storage
- Less weirs
- More baseflow