

# MAR – Adelaide Plains and Angas Bremer

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**Government of South Australia**

Department of Environment,  
Water and Natural Resources



# Legislation Overview

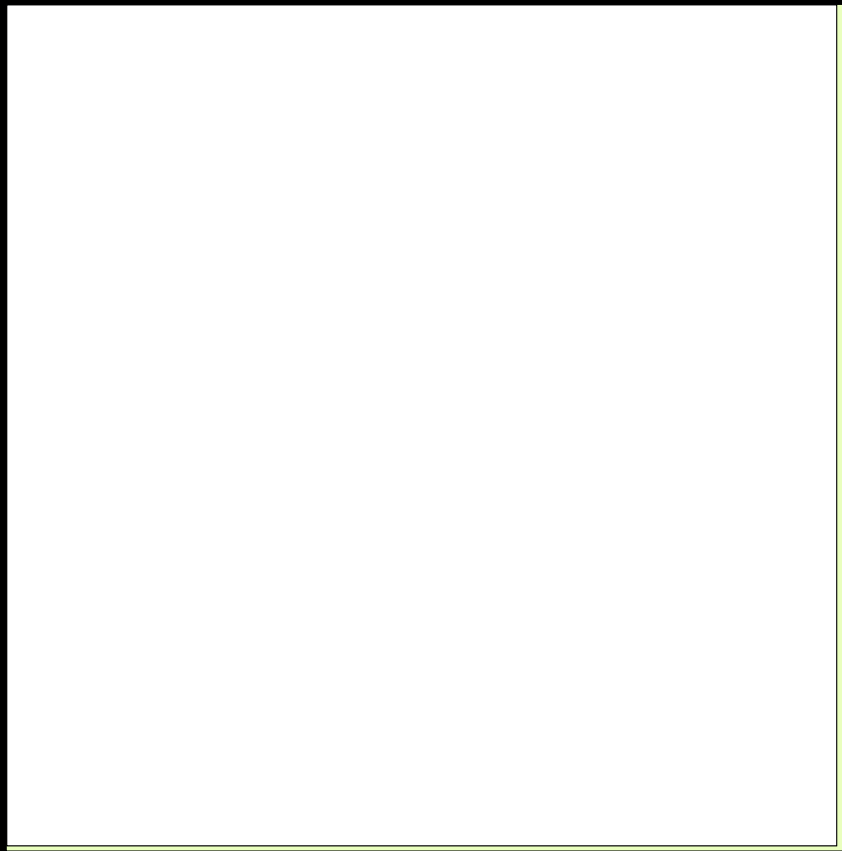
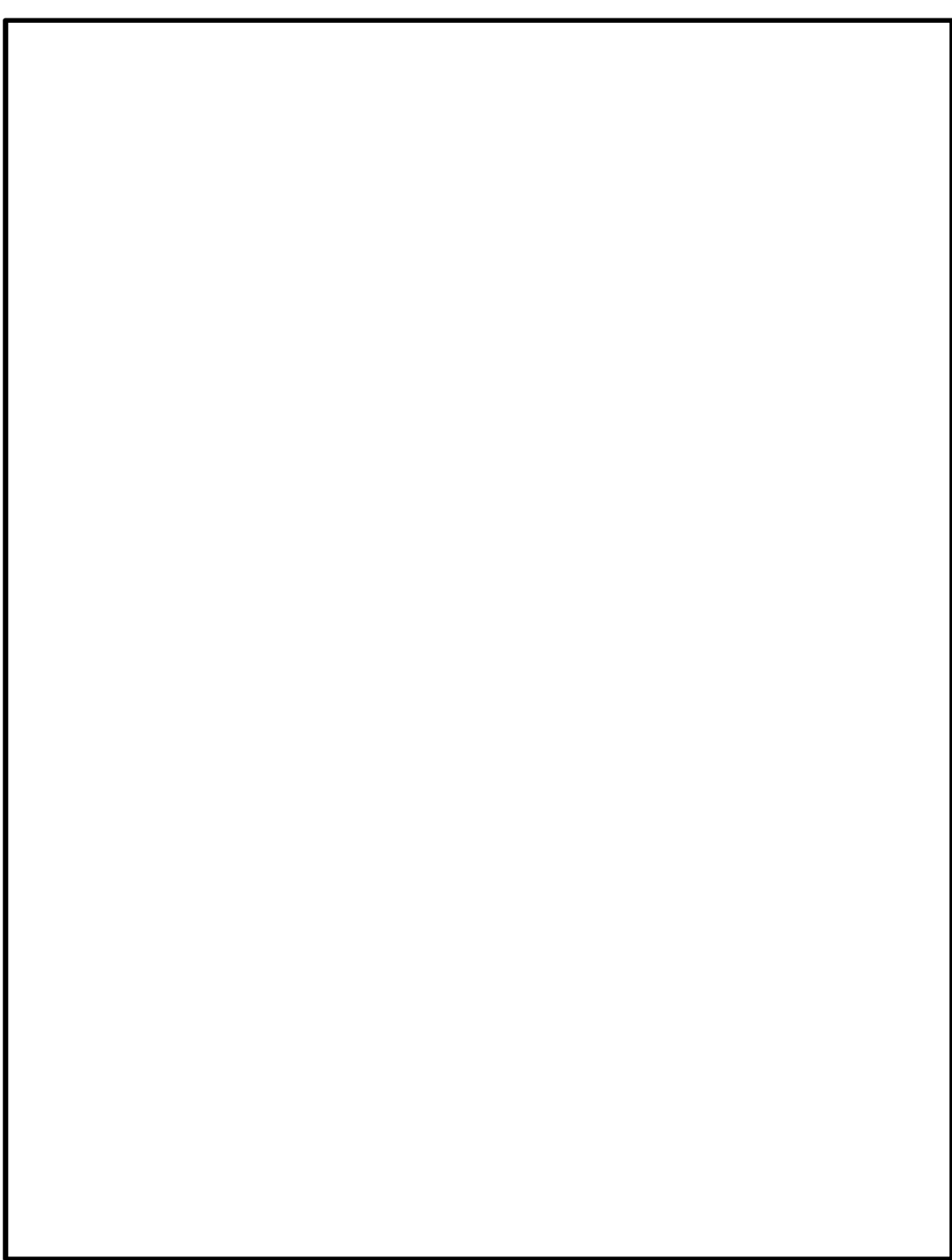
- Environment Protection Act (1993)
  - all MAR schemes, regardless of size, required to adhere to EP Act and EP(WQ) Policy 2003.
- Natural Resources Management Act (2004)
  - Regulates taking of groundwater and surface water.
- 'One stop Shop'?



# Types of MAR Schemes

- Domestic (Roof rainwater collection)
  - Regulated by DEWNR through a WAA Permit (Drainage & Discharge) issued under NRM Act.
- Small or Large scale (< 20 ML/yr or >20 ML/yr)
  - Source water - mains water, groundwater, surface water (watercourse/stormwater), recycled water (including reclaimed).
  - EPA Licence or DEWNR WAA permit to inject water.
  - EPA and DEWNR work together to ensure consistency of assessment and advice, and monitoring and reporting requirements.

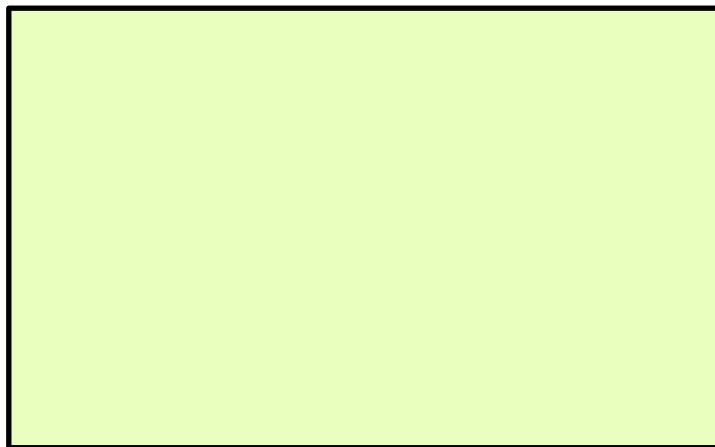
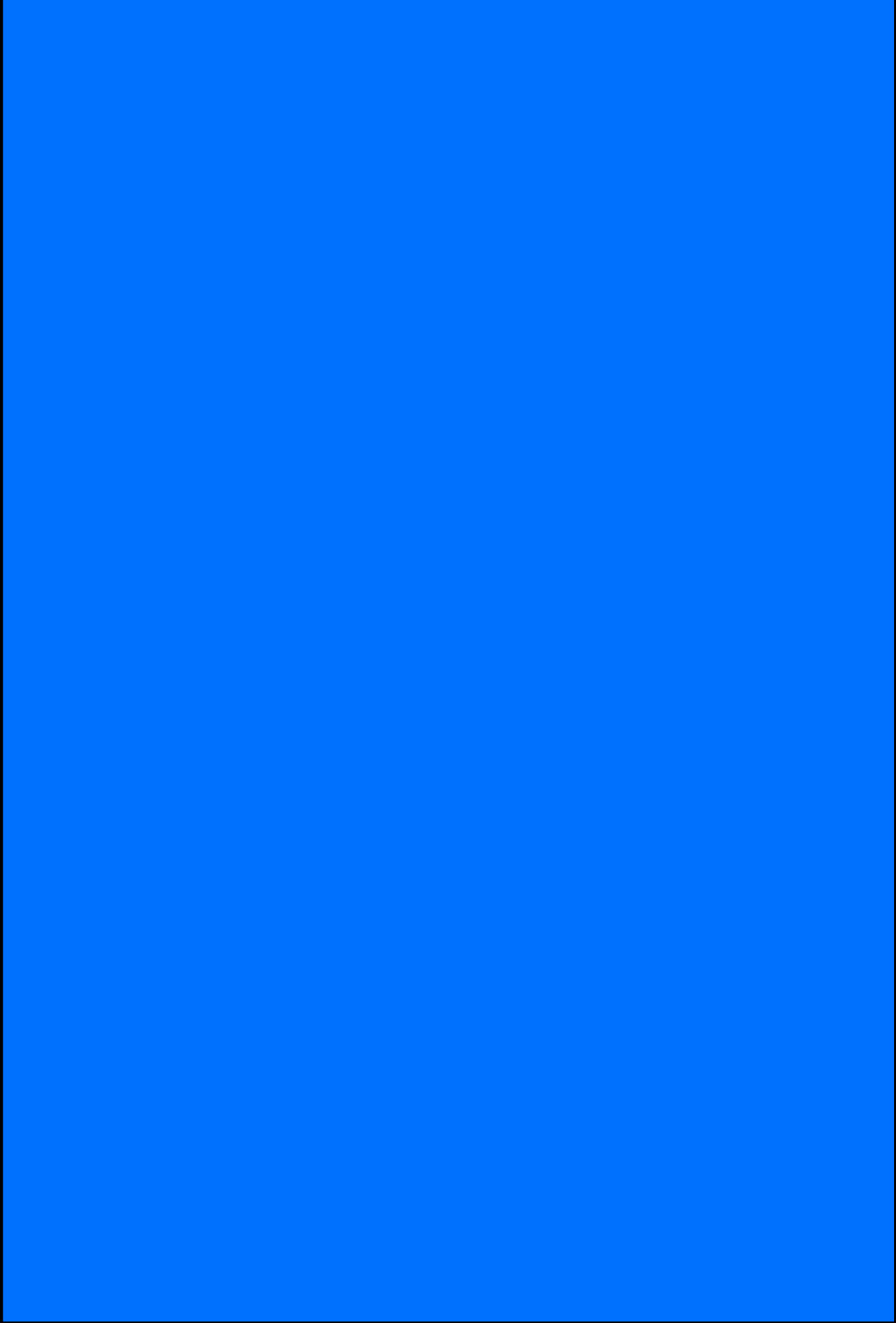




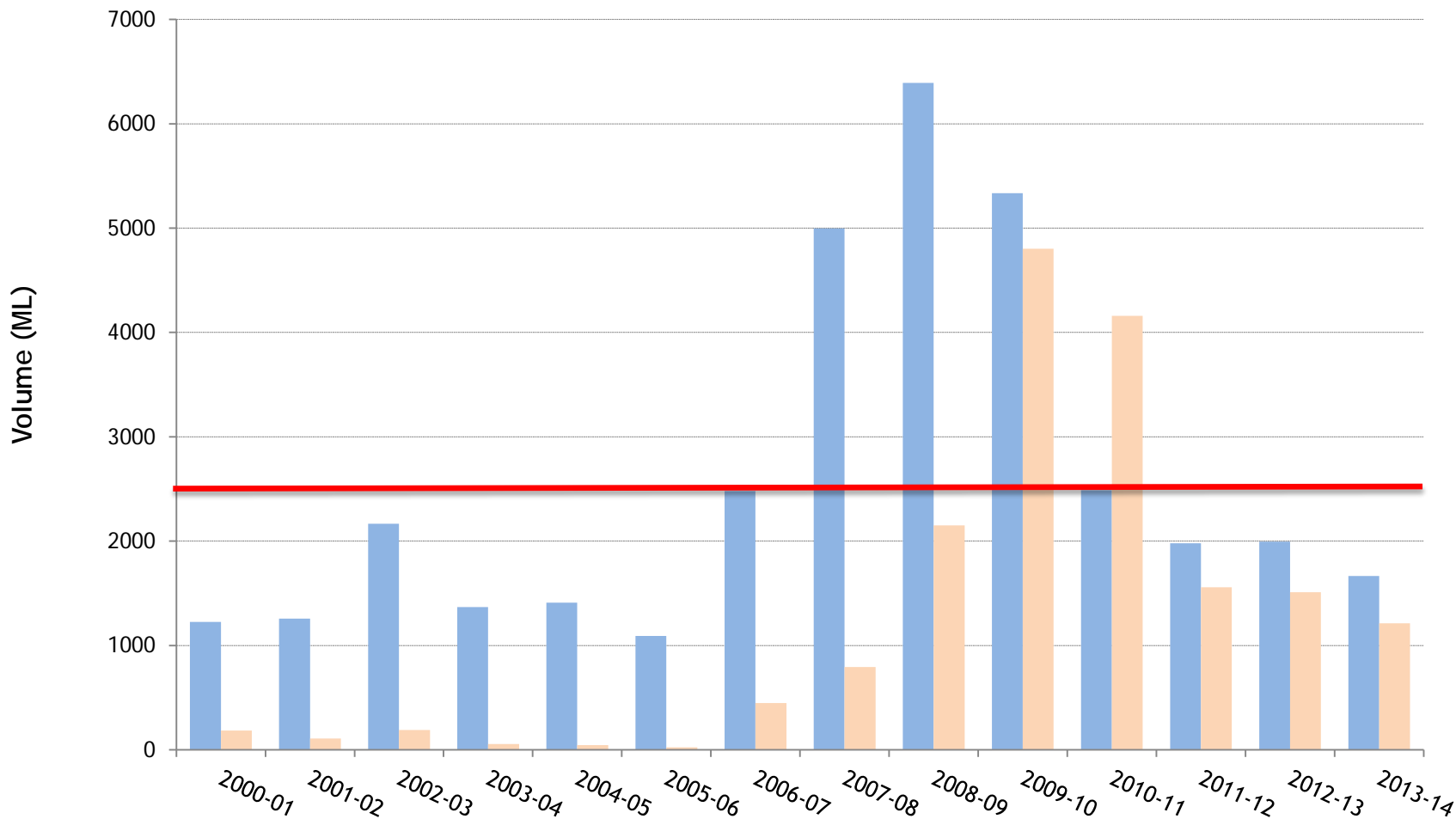
# Angas Bremer PWA

- A WAP in place since 2001 restricted total annual artificial recharge allocation volume to 2.5 GL/yr.
- 2007 drought conditions – on scientific advice, volume of injection increased to 7.5 GL/yr.
- Late 2008, targeted gw modelling determined an increase up to 13.5 GL/yr was feasible.
- Adopted by DEWNR Licensing in late 2010.





■ Total extraction      ■ Managed aquifer recharge



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# Adelaide Plains PWA

- Schemes status – MAR ART!
- No WAP – is this a bad thing?
- Development of policy using consultant, proponent and regulator experience, research, fit for purpose thinking and consultation.
- Limiting factors – now and into the future.
- Injection vs extraction.



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# Future Questions

- Are these schemes operating at below proposed capacity?
- Why?
- What are the restrictions – source water, environmental factors (ie carp, water quality issues) turbidity issues, well/aquifer issues, fractured rock vs sedimentary, limited aquifer capacity, over-promising and over-estimating scheme viability, costs?



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# Thanks to

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- Russell Martin - Aqueon



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