

H₂Options Review

Sergey Volotovskiy
Water Industry Policy Branch

April 2012



Presentation outline

H₂Options

Context

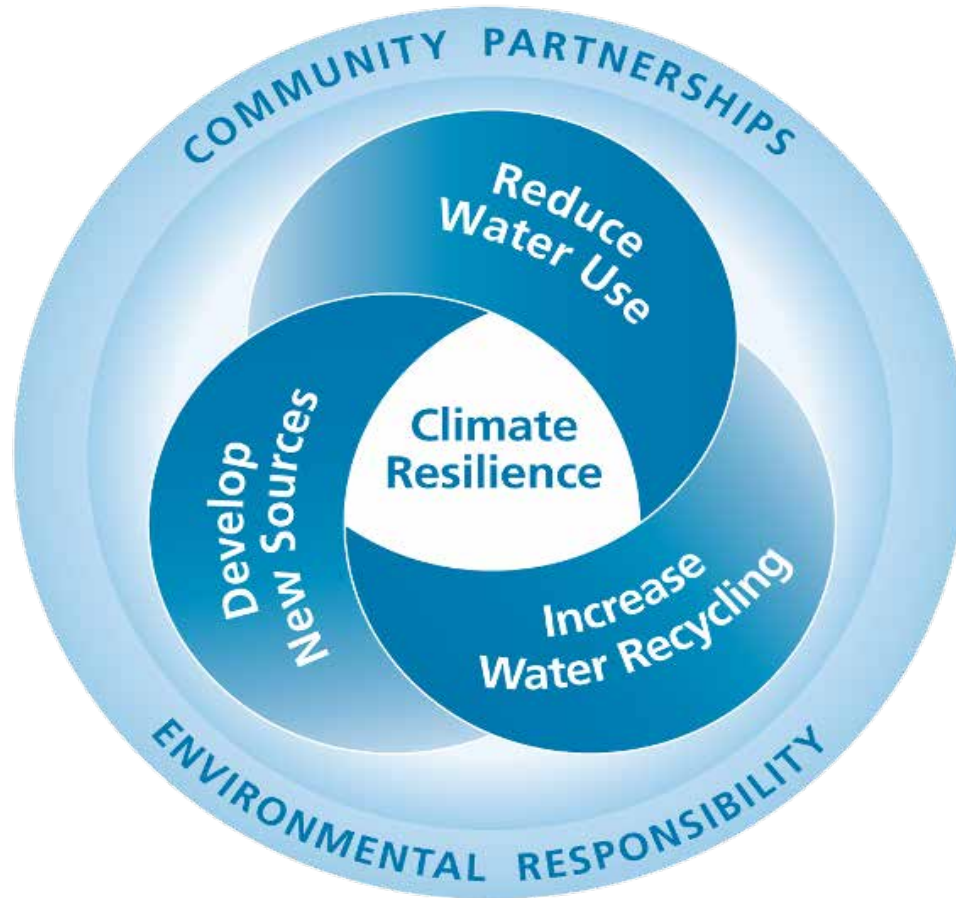
Why we reviewed
H₂Options?

What are the
changes?

How does it work?

Questions

Water Forever: Our 50 year plan



Most non-drinking water solutions at lot scale

Nature	Current State	Future State
Garden Bores	170,000 Perth 20,000 Regions	Possibility of Govt rebate
Public Open Space Bores	60 GL Perth 40 GL Regions	Increasing efficiency
Rainwater Tanks	30,000 Perth 90,000 Regions	Possible subsidy where competitive
Greywater	1 in 5 households report using Limited treatment systems	No longer referral agency
Industry On site	Extensive recycling of process water	Increased use of process water

Community bore trials

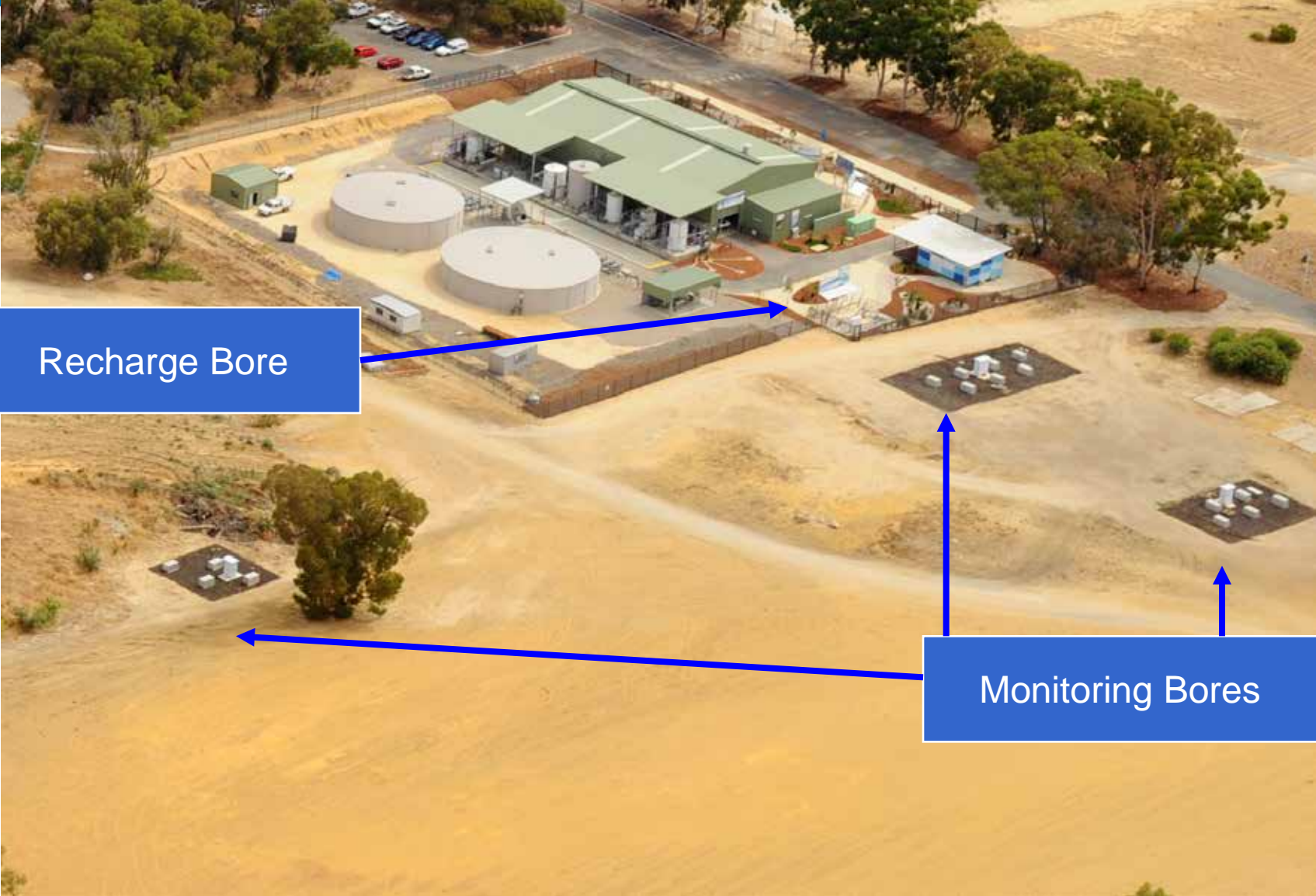


76 wastewater recycling schemes

76 schemes	Community Benefit 53 schemes	Commercial agreements 23 schemes
Only Disposal	35 (eg. irrigation of ovals in Broome)	15 (eg irrigation of vineyard in Mt Barker)
Other	18 (eg. irrigation of Margaret River green space)	8 (eg. Kwinana Recycling Plant)



Groundwater Replenishment Trial



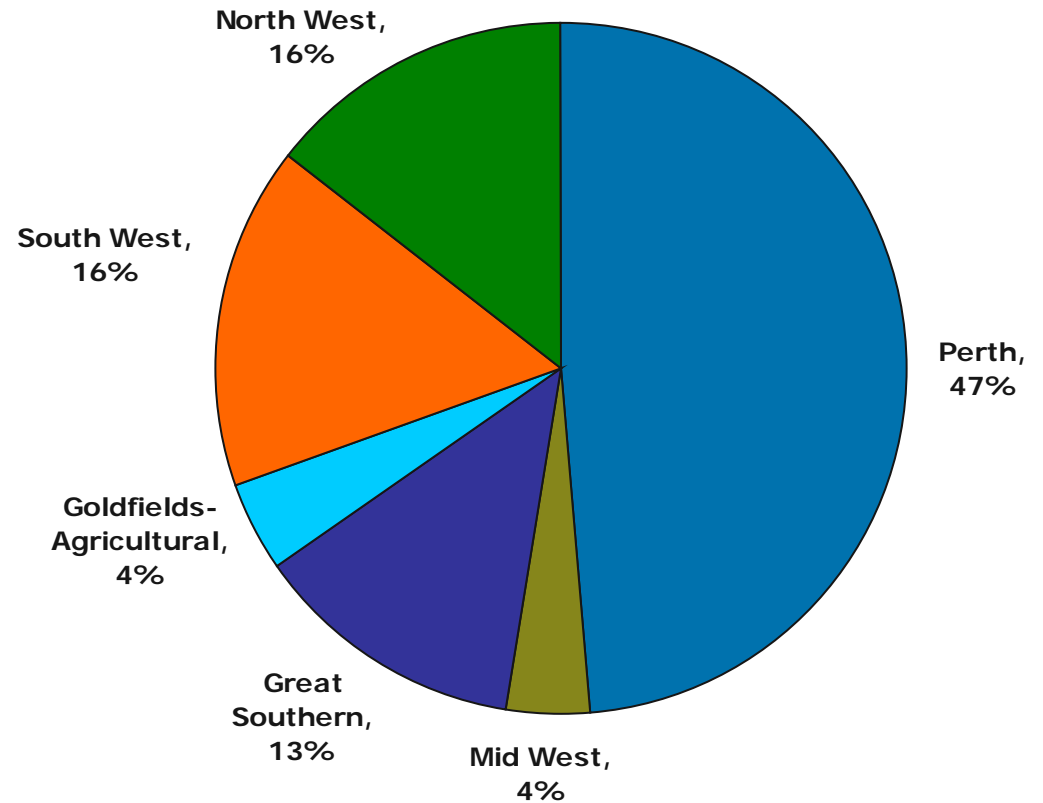
Recharge Bore

Monitoring Bores

Water Corporation – recycling around the State

Total recycled water
supplied in 2010-11

19.6 GL

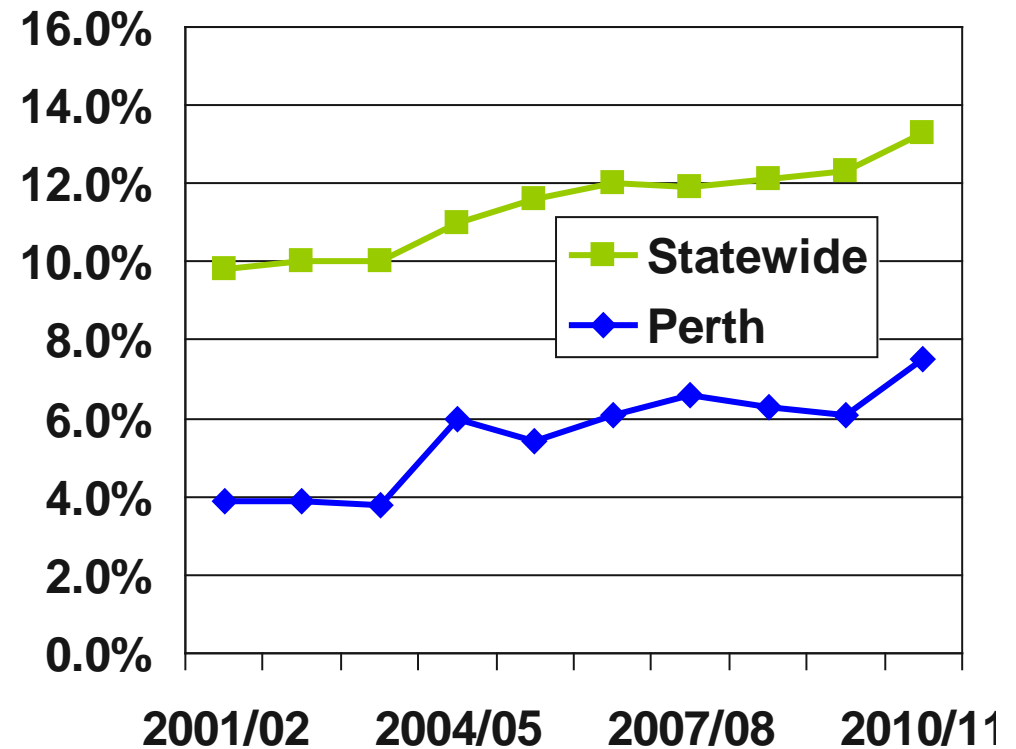


Water Corporation – recycling around the State

Perth-Peel 7.5%

Regions 50%

Statewide 13.3%



Previous version of H₂Options



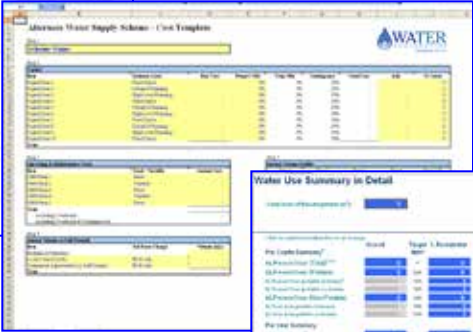
The 5 step guide – “Waterwise Land Development”



The 7 step guide – “Alternative Water Supplies”



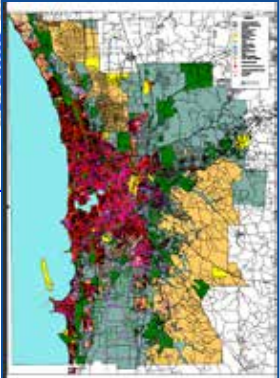
Sewer Mining Guidelines



Water Costing Tool



Water Balance Tool



Alternative water supply map (metro)

Why review H₂Options?

DoW Draft Approval Framework



No need for us to have a detailed step-by-step guide for establishing a non-drinking water scheme

Project experience and new studies (i.e. Perth Residential Water Use Study 2009)



Update to reflect

Our role in NDW schemes is clearer



Need to communicate

Stronger water efficiency focus from us (including Waterwise brand)



H₂Options links to, but doesn't duplicate, water efficiency message

Stakeholder feedback



Focus on what land developers and consultants need

Stakeholder engagement in review

- UDIA Water Committee
- Shelley Shepherd
- David Horn
- Jeff Foley
- Stewart Dallas
- Sandy Biagioni
- Jarrod Rendell
- Russel Perry

H₂Options 

Revised H₂Options



Sewer mining info sheet



Dual reticulation info sheet



Request for advice



Water Balance Tool



Web pages



Alternative water supply map (metro)

What does the new H₂Options look like?



<http://www.watercorporation.com.au/h/h2options.cfm>

(Accessible from Land Developers, Waterwise Land Developments and Water Recycling web pages on our website)

The Water Corporation...

- has demonstrated capability in the NDW area
- is keen to work with NDW proponents
- has updated H₂Options to assist
- encourages early engagement
- is only one potential NDW service provider

How H₂Options can support NDW solutions



Restraining forces

Cost and funding

Groundwater availability

Policy gaps

Driving forces

Technology and industry capacity

GWR trial / operations

Improved WWTP performance

Increased scheme water costs

National & State guidelines

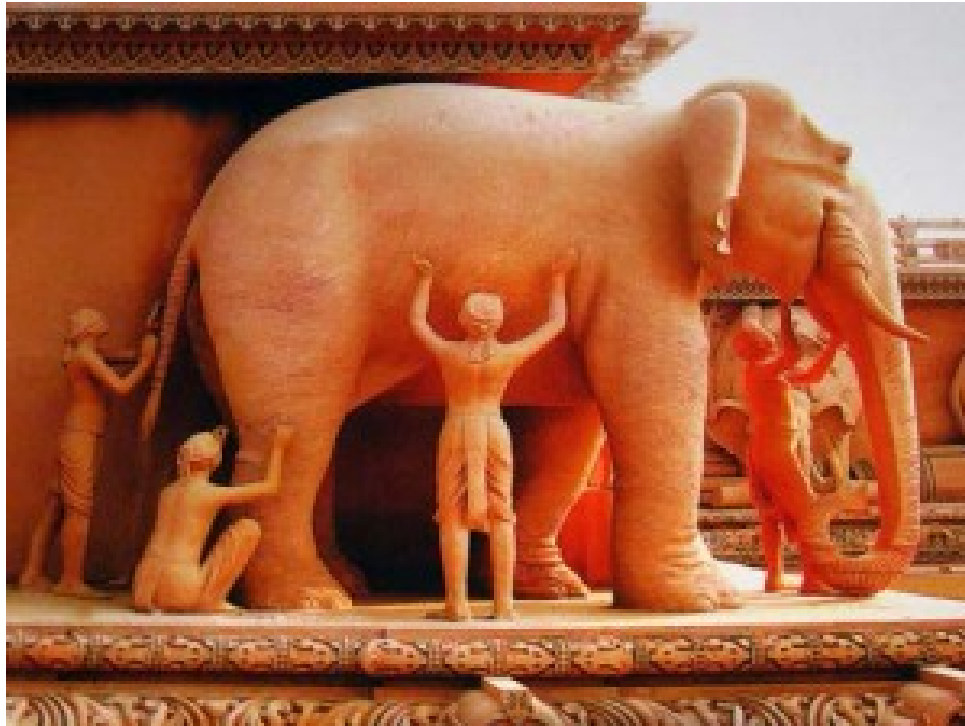
Community support

Security of supply

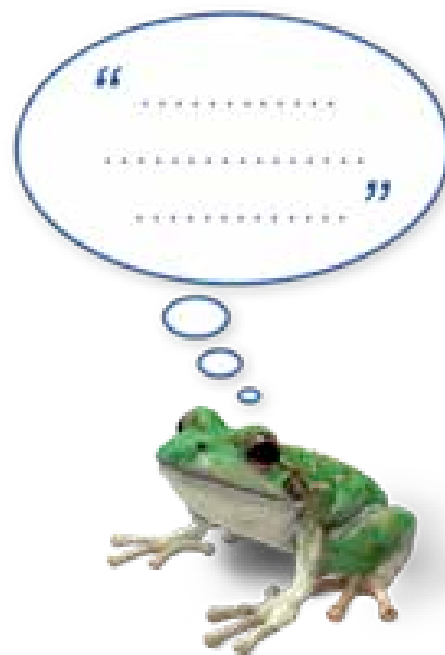


Early engagement with proponents

(What does this have to do with NDW?)



Any questions?



Thank you!

Sergey Volotovskiy

Strategy and Policy Advisor, Non-Drinking Water

Water Industry Policy Branch

(08) 9420 3867

sergey.volotovskiy@watercorporation.com.au