



**ICE WaRM**

International Centre of Excellence  
in Water Resources Management

# MAR Essentials WORKSHOP

This workshop is for anyone thinking about how to begin and maintain a viable Managed Aquifer Recharge project. Presented by the nation's top MAR practitioners and scientists, you will have access to professionals experienced in the planning, feasibility, economic, environmental and scientific aspects of establishing a MAR scheme. This workshop is a joint initiative of NCGRT and ICE WaRM, in association with: Managed Recharge; Wallbridge Gilbert Aztec; WA Water Corporation; CSIRO; WA Dept of Water; City of Mandurah; Pennington Scott; FMG; UWA; City of Kalamunda, supported by IAH and AWA.



## Workshop Chair

**Karen Johnston**  
MANAGED  
RECHARGE

Karen is one of Australia's leading practitioners in Managed Aquifer Recharge (MAR).



## Also featuring...

**Russell Martin**  
Wallbridge Gilbert Aztec (WGA)

**Joining Karen and Russell is a team  
of water professionals including:**

Simon Higginson, *Water Corp WA*  
Don McFarlane, *University of WA*  
Michael Donn, *CSIRO*  
Daniel Nelson, *City of Kalamunda*  
Dale Robinson, *City of Mandurah*  
Don Scott, *Pennington Scott*  
Jordin Barclay, *FMG*

## Who should attend?

People working in:

- Private, public and consulting agencies
- Local, state and Commonwealth Government agencies
- Engineering, environment, agriculture, farming, irrigation, education, research and mining sectors
- Water authorities and power utilities

## Workshop Details:

**When:** Thursday 26 - Friday 27 October 2017

**Where:** Perth

**Included:** Workshop Notes, AM/PM Tea, Lunch

**Registration:** Register via [our website](#)

**Contact Trevor:** +61 8 8236 5211

[tpillar@icewarm.com.au](mailto:tpillar@icewarm.com.au)

## What will be covered?

- Potential for MAR in the Perth region
- Is MAR an option? Preliminary Feasibility Assessment
- Kwinana - Feasibility of MAR using Recycled Water
- Will it work? Technical Viability Assessment
- Minderoo - Viability of Enhanced Recharge using an Upside-Down Weir
- Setting up a MAR site - Implementation and Testing
- Moving to an operational scheme - Issues and Management
- Chichester Range MAR scheme - issues and management
- Regulatory Requirements: Approval Process
- Beenyup - MAR as a Water Resource Management Tool
- 6 Field visits



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### Presenters include:



#### **Karen Johnston, Managed Recharge**

Karen is a Principal Hydrogeologist/Geochemist with 21 years' experience in Managed Aquifer Recharge (MAR), recently establishing a groundwater consultancy specialising in MAR since working with Rockwater.



#### **Russel Martin, Wallbridge Gilbert Aztec (WGA)**

Russell has over 25 years experience as a Geologist and Hydrogeologist, specialising in petrophysics for reservoir characterisation and groundwater resource assessment, development and management.



#### **Simon Higginson, Water Corp WA**

Simon is the Senior MAR Advisor at the Water Corporation of Western Australia, with 12 years of experience in managed aquifer recharge research and operations. He currently leads the hydrogeological investigations, risk assessment process for the Beenyup Groundwater Replenishment Scheme



#### **Don McFarlane, University of WA**

Don has over 30 years of experience in land and water research and management and has been a Director of both water research and management in the state water agency.



#### **Michael Donn, CSIRO**

Mike has been a Senior Experimental Scientist with CSIRO since 2006 and has 18 years of experience as an environmental chemist in the agriculture and environment sectors.



#### **Daniel Nelson, City of Kalamunda**

Daniel Nelson has a diversity of experience and expertise in water management, sporting and recreation facilities, groundwater extraction and sustainability and drove the development of the Shire's MAR Project.



#### **Dale Robinson, City of Mandurah**

Dale is a Groundwater Conservation Officer for the City of Mandurah with a Degree in Environmental Management from Murdoch University. Dale's experience has been through previous work with the private sector for 7 years and then 8 years with State and Local Government.



#### **Don Scott, Pennington Scott**

Don is Managing Director and Chief Hydrogeologist at Pennington Scott and co-led a team that undertook a whole-of-country water mapping project in the United Arab Emirates.



#### **Jordin Barclay, FMG**

Jordin has been a Principal Hydrogeologist for Fortescue Metals Group's Chichester Operations for over 5 years and was a mining hydrogeologist for 15 years in WA, USA, Mexico and Canada.



### Early bird special!

If you register by Monday 25th September you will receive a 20% discount on fees.

### **REGISTER NOW**



### What's included

Presentations by experienced water professionals

- **Course notes** - hard copy and electronic
- **Tutorials, discussions**
- **Linking with other industry professionals**
- **Small group size to allow greater interaction**
- **Catering:** lunch, morning and afternoon tea

**“Without water, the economy dries up...**

Almost half the global economy and more than half the world's population will be exposed to severe water scarcity by 2050, unless more sustainable water resource management practices are adopted.”

International Food Policy Research Institute (IFPRI) and  
Veolia Water