

# **GROUNDWATER SCIENCE**

CONSULTING HYDROGEOLOGISTS

## **CAPABILITY STATEMENT**

**Our aim is to be the preferred provider of high quality, efficient groundwater services to our clients.**

**[www.groundwaterscience.com.au](http://www.groundwaterscience.com.au)**

# OUR COMPANY

Groundwater Science is a specialised hydrogeological consultancy company operating since 2011. We are a small firm that works with a select group of clients to ensure their projects receive our full focus.

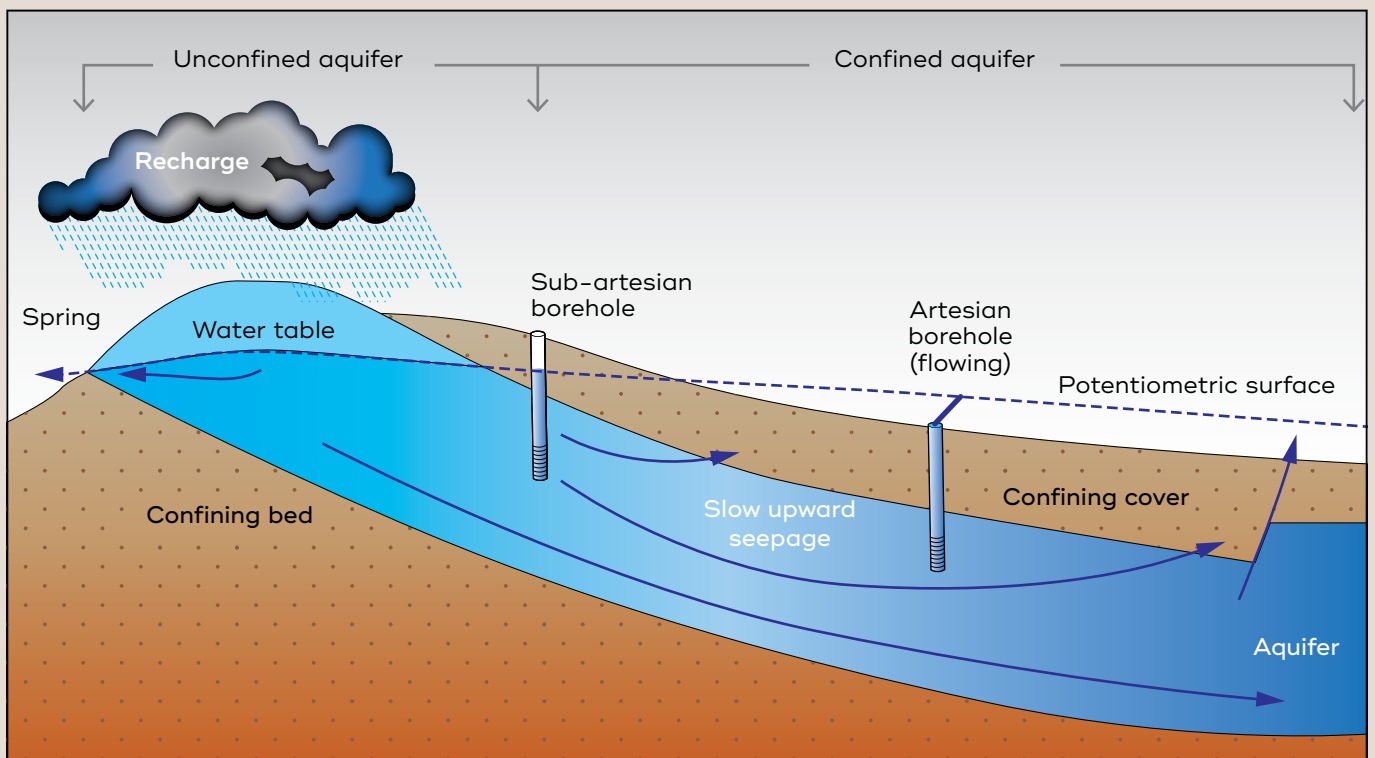
The team's core skills include the development of practical management of groundwater for mining projects, quarries, agriculture, aquifer storage and recovery (ASR) schemes, In-situ Leach (ISL) Uranium Mining and Potash Brine project evaluation in Australia and Internationally.

The business principals, Ben Jeuken and Paul Magarey have over 30 years combined experience in groundwater management and are supported by an experienced team of hydrogeologists and associate service providers.



# KEY SKILL AREAS

- ◆ GROUNDWATER SUPPLY DEVELOPMENT
- ◆ GROUNDWATER AND SURFACE WATER MODELLING
- ◆ PERMITTING, WATER LICENSING AND POLICY
- ◆ SALT LAKE BRINE RESOURCE EVALUATION
- ◆ IN-SITU RECOVERY MINING
- ◆ MINE AND QUARRY WATER MANAGEMENT
- ◆ AQUIFER STORAGE AND RECOVERY
- ◆ DRILLING AND WELL CONSTRUCTION
- ◆ WATER TRADING ASSESSMENTS
- ◆ LEGAL SUPPORT AND CLIENT REPRESENTATION





## KEY PROJECTS

<b>GROUNDWATER SUPPLY AND DEVELOPMENT</b>	<b>City of Burnside</b>	<ul style="list-style-type: none"> <li>Development and construction of Irrigation water supply</li> </ul>
	<b>Department of Planning, Transport and Infrastructure</b>	
	<b>Iron Road Limited</b>	<ul style="list-style-type: none"> <li>Identification testing and design of 4 and 15 gigalitre per annum mine water supply</li> </ul>
	<b>Verdant Minerals</b>	
<b>IN-SITU RECOVERY MINING</b>	<b>Heathgate Resources</b>	<ul style="list-style-type: none"> <li>Ongoing technical support for the Beverley Uranium Mine</li> </ul>
	<b>Boss Resources</b>	<ul style="list-style-type: none"> <li>Wellfield design. Field Recovery trial well design and construction for the Honeymoon Mine</li> </ul>
	<b>Environmental Copper Recovery</b>	<ul style="list-style-type: none"> <li>Feasibility study into In-situ Recovery of Copper at Kapunda, SA</li> </ul>
<b>POTASH BRINE PROJECT DEVELOPMENT</b>	<b>Verdant Minerals</b>	<ul style="list-style-type: none"> <li>Karinga Lakes, Lake Lewis, Lake Hopkins, Lake Mackay, Lake Wells, Lake Way, Lake Ballard, Lake Irwin, Lake Marmion</li> <li>Exploration program design</li> <li>Resource estimate</li> <li>Feasibility testing</li> </ul>
	<b>Salt Lake Potash</b>	
	<b>Australian Potash</b>	
<b>GROUNDWATER MODELLING AND IMPACT SCENARIOS</b>	<b>Renascor Resources Graphite Project</b>	<ul style="list-style-type: none"> <li>Mine dewatering and inflow assessments</li> <li>Groundwater impact assessments</li> <li>Dewatering design</li> <li>Technical information to support mining approvals</li> </ul>
	<b>Anglo-Gold Ashanti Tropicana Mine</b>	
	<b>Salt Lake Potash Lake Wells</b>	
<b>AQUIFER STORAGE AND RECOVERY (ASR)</b>	<b>City of Marion</b>	<ul style="list-style-type: none"> <li>Risk assessment</li> <li>Modelling</li> <li>Project design</li> <li>Annual management and reporting</li> </ul>
	<b>South Australian Jockey Club</b>	
	<b>Victoria Racing Club</b>	

## KEY PEOPLE

### Ben Jeuken

Ben is a Principal Hydrogeologist with 16 years' experience in the groundwater and mining industry. He has specialist experience in the areas of:

- ◆ Mine Water Management
- ◆ Groundwater Modelling and Water Supply Development
- ◆ In-situ Recovery (ISR) Mining
- ◆ Potash Brine Project Development

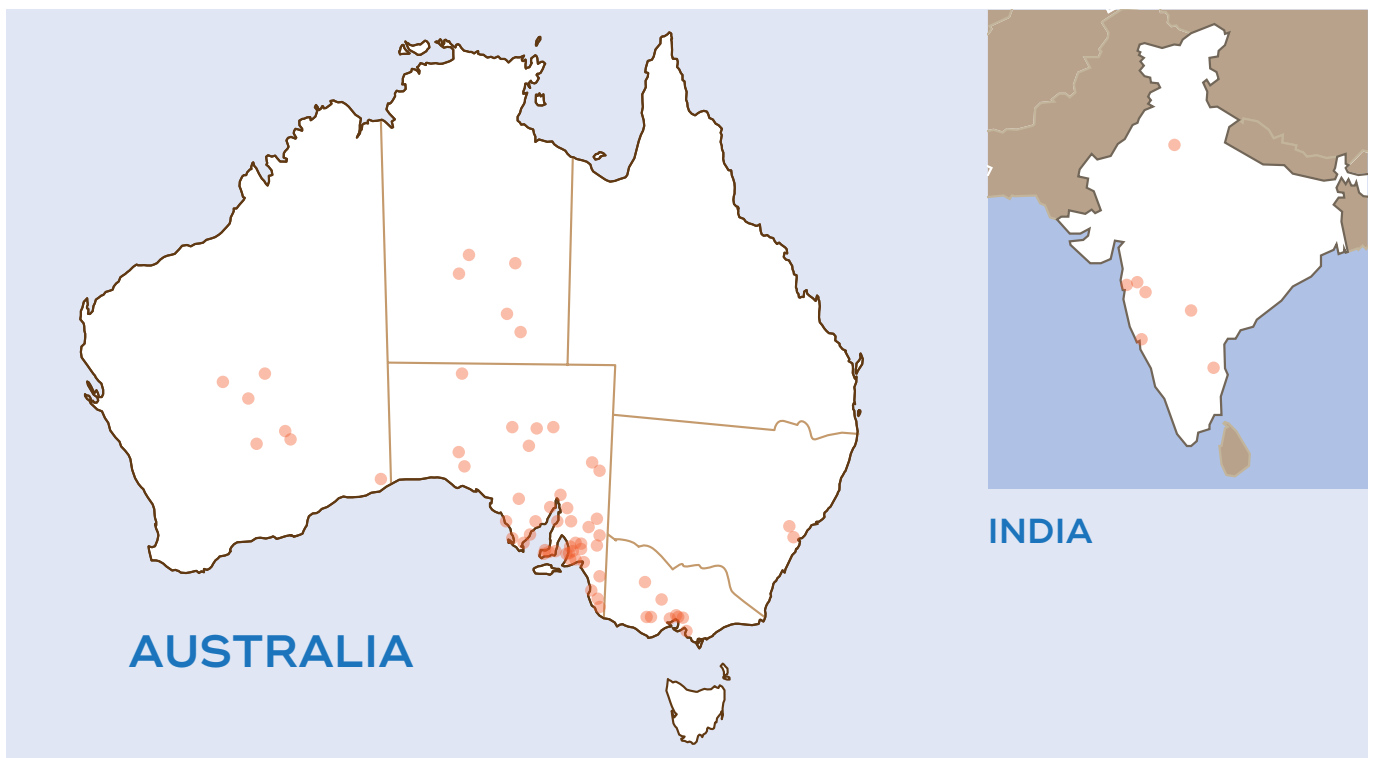
### Paul Magarey

Paul is a Senior Hydrogeologist with 15 years' experience in the groundwater and natural resources management sectors. He has specialist experience in the areas of:

- ◆ Aquifer Storage and Recovery (aquifer reinjection)
- ◆ Groundwater Supply Development, Geological Interpretation and Construction of Wells
- ◆ Mine and Quarry Water Management
- ◆ Approvals, Permitting and Water Licensing

## WHERE WE WORK

Groundwater Science is based in Adelaide, South Australia and conduct work in the Asia-Pacific Region. Locations of current and previous projects are provided in the map below.



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SCIENCE

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