



PHOTO GALLERY
IN-FIELD AG PTY LTD - BALHANNAH SA

Managing water resources

Living in a state where we are accustomed to drought and water restrictions are a reality, taking the initiative with water saving technology is a key part of our contribution to the agricultural service industry.


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Wine Industry Suppliers Australia
2009 Supplier of the Year

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WISA
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Managing water resources

Living in a state where we are accustomed to drought and water restrictions are a reality, taking the initiative with water saving technology is a key part of our contribution to the agricultural service industry.

Infield can co-ordinate the management of water on your property or project by a variety of means:

- > Assessment of water requirements
- > Water quality testing
- > Chemical treatment
- > Irrigation system design and installation
- > Pump shed construction
- > Dam construction and refurbishment
- > Irrigation system maintenance and troubleshooting
- > Repairs to infrastructure
- > Bore maintenance
- > Drainage and water run-off
- > Soil remediation

Our systems can be used in conjunction with the METOS® range of weather station and soil moisture monitoring equipment. These products offer a variety of solutions to manage your water resources, mitigate frost damage and the impact of pests and diseases. Data collected becomes a valuable tool for future decision making. This technology effortlessly translates into all agricultural pursuits governed by water restrictions.

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Drainage

Example of drainage works in the Adelaide Hills where the client specified nil impact to public access and minimal visible disturbance to site.

From top

- > Excavated drainage line with 50mm ballast and drain coil in place
- > Geo textile fabric to assist with the filtration of dirt particles
- > Trenching works with minimal disturbance to public access and low visible disturbance to site



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Water System Treatment

Most water sources used for irrigation in the Adelaide Hills have contaminants that are naturally occurring, and over time these will foul water distribution systems.

Some of the more familiar contaminants include algae in water courses and dams, and iron bacteria in groundwater extracted by bores. If left untreated, these contaminants can block submersible pump inlets, filters and screens, and collect in irrigation distribution lines blocking emitters such as drippers and sprinklers.

Infield has a range of treatment solutions that will improve water quality and irrigation system performance including on-going treatment options to maintain contaminant free water. New technology allows us to assess your bore or dam and using our recently commissioned **Water Treatment Unit** to carry out any necessary treatment. These treatments are more effective and safer to use both for the operator and the system, and kinder to the environment than traditional chlorine and sulphuric acid treatments.

Infield also supplies and installs systems suitable for continuous water treatment programs.



Water treatment unit

Easy on your pocket

Safe to use - no mixing of chemicals, measuring or pouring

Environmentally friendly

More effective than standard flushing in the removal of iron bacteria bio-film

Restores blocked systems to within 95% of original operating specifications

Portability allows for treatment of individual irrigation blocks

Direct injection into mainlines

No mains electricity required

Up to 1000 kpa pressure

Chemical injection capacity of up to 7.5 litres/hour

Accurate intake of additives

Rapid calibration saves on setup time

System allows batch dosing at fixed intervals

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Weather monitoring technology

METOS[®] products, manufactured by Pessl Instruments in Austria, monitor weather and soil conditions and use sensor readings to automate irrigation and frost control systems. Information provides managers with a valuable tool to reduce running costs and improve yield quality.

The product range includes the new iMetos and soil moisture (SM) family of weather and soil moisture monitoring that automatically upload sensor information to the internet, and the iMetos internet controlled access (ICA) of internet based controllers.

The AG and SM range of machines are solar powered and fully self contained, and offer an extensive range of climatic sensors. The SM range is now able to measure either soil water tension or volumetric soil moisture content. ICA controllers are mains powered and link directly into an irrigation controller or frost control system.

Information obtained from the iMetos systems is accessed via the Pessl Instruments FieldClimate webpage using a user ID and password. Sensor data is displayed in a graphical or tabular format and contains functions to instantly calculate crop evapo-transpiration and degree days.

To view the website go to:

www.metos.at/fieldclimate

User ID - ahvcdemo

Password - demo

