

## FACT SHEET *Decentralised wastewater treatment systems*

### Ecowise can help your company meet regulatory and engineering requirements for wastewater treatment

Decentralised wastewater treatment systems are an integral part of wastewater management. This is particularly the case in non-metropolitan and urban fringe areas where sewer is unavailable, and population expansion is placing pressure on existing infrastructure. In addition, wastewater and greywater treatment systems have emerged as a popular option for water reuse, due to demand on restricted potable water in both reticulated and non-reticulated areas. Thus wastewater treatment and reuse is being embraced in commercial developments where it is economically practical, a requirement of local planning, the only means of treatment, water for irrigation is required, and a sustainable outcome is desired.



**Greywater treatment system**



**Reclaimed water notice**

Ecowise Environmental has a highly experienced team of engineers and scientists with specialist expertise in decentralised systems. By working in partnership with our clients, Ecowise has developed and implemented reliable, on time and cost-effective advice that addresses regulatory and operational objectives in diverse environments.

### Our services

#### Engineering services, including:

- process engineering
- design support and review, including evaluation of new technologies and benchmarking
- validation, verification and accreditation programs
- evaluation of individual and treatment train performance including design and implementation of monitoring programs, and data interpretation
- regulator liaison and compliance reporting to regulators and council
- risk management planning
- HACCP analysis.

#### Analytical services, including:

- sampling services
- chemical and physical analysis
- microbiological analysis
- pathogen analysis including *Cryptosporidium*, *Giardia* and species identification
- virus analysis for human virus groups
- FRNA phage challenge. These facilitate the determination of viruses breakthrough in a system or land application area. The FRNA phage MS-2 is used as a substitute for human viruses.
- microscopy including bacterial identification
- microbial quantification and community analysis using FISH (fluorescent in-situ hybridisation) probes and DGGE (density gradient gel electrophoresis)
- dye or conservative salt tracers. These facilitate the determination of effluent breakthrough in a system or land application area.

Ecowise has successfully provided these services to many companies over the last five years, and is well recognised by regulators and certifying bodies.

### Certification

Ecowise operates consulting services certified to ISO 9001.

Our laboratories have NATA accreditation to ISO 17025 for over 200 analytical parameters.

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