Environmental Technology Centre, Murdoch University: Demonstration of decentralised wastewater recycling in urban villages

Project No: 034 04G

Description:

Environmental Technology Centre received a grant of $205,000 towards this $2.15 million research project to conduct a wastewater recycling trial to demonstrate:

- the performance and reliability required to meet regulatory standards
- effects on soil and vegetation
- pathogen disinfection
- nutrients prevented from infiltration to groundwater
- maintenance issues of the systems
- the effective amount scheme and bore water saved in the long term.

The trials are situated at various locations in the South West of Western Australia.

Progress/Status of research:

The project has been extended to include two additional research outputs and will now conclude in 2009. The new outputs will examine the management arrangements required for decentralised wastewater recycling and development of a model to identify appropriate decentralised wastewater recycling systems in relation to the local environment. The extension has required no additional funding.

Demonstration of decentralized wastewater recycling in urban villages - a Premier's Water Foundation Project
Information sheet
Environmental Technology Centre, Murdoch University (PDF file, 961kB)

Publications from ETC Murdoch University provided to the Department of Water:

Decentralized Wastewater Treatment and Recycling Systems (DeWaTARS) in WA Urban Villages: Development of a Legislative Framework; Honours Thesis, Beth Strang B.Sc, 2005, revised 2006, (PDF file, 577kB)

Technical Report 1 - Decentralised Wastewater Treatment and Recycling Systems (DeWaTARS) in WA Urban Villages: a Legislative Framework and a regulatory tool for their management in WA urban villages (PDF file, 787kB)

Investigation of decentralised wastewater recycling for irrigation of public open space in urban villages – Development of a model for reliable management systems and improved protection of public health and the environment within the Perth Metropolitan Region; Honours Thesis Shaun Jamieson B.Sc (Environmental Technology) (PDF file, 976kB)

Technical Report 2 - Investigation of decentralised wastewater recycling for irrigation of public open space in urban villages – Development of a model for reliable management systems and improved protection of public health and the environment within the Perth Metropolitan Region (PDF File, 312kB)