Water Reclamation Technologies for Safe Managed Aquifer Recharge

Editor(s): Christian Kazner, Thomas Wintgens, Peter Dillon

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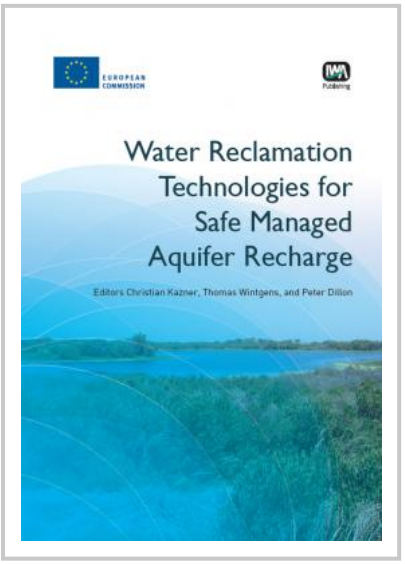

Water Reclamation Technologies for Safe Managed Aquifer Recharge has been developed from the RECLAIM WATER project supported by the European Commission under Thematic Priority 'Global Change and Ecosystems' of the Sixth Framework Programme. Its strategic objective is to develop hazard mitigation technologies for water reclamation providing safe and cost effective routes for managed aquifer recharge.

Different treatment applications in terms of behaviour of key microbial and chemical contaminants are assessed. Engineered as well as natural treatment trains are investigated to provide guidance for sustainable MAR schemes using alternative sources such as effluent and stormwater. The technologies considered are also well suited to the needs of developing countries, which have a growing need of supplementation of freshwater resources. A broad range of international full-scale case studies enables insights into long-term system behaviour, operational aspects, and fate of a comprehensive number of compounds and contaminants, especially organic micropollutants and bulk organics.

Water Reclamation Technologies for Safe Managed Aquifer Recharge depicts advances in water reclamation technologies and aims to provide new process combinations to treat alternative water sources to appropriate water quality levels for sustainable aquifer recharge.

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