

Project Data Sheet

PROJECT

**UKWIR Strategic
Infiltration**

CLIENT




- Sewerage
- Rivers
- Coastal
- SUDS
- Land Drainage
- Hydraulic Modelling
- Flood Risk Assessments
- Drainage Area Planning
- Asset Management
- Flood Alleviation
- Flooding Investigations
- Feasibility Study
- Drainage Design
- Environmental Aspects
- Inundation Modelling
- Surface Water Management

Currently there is no recognised method to make the best economic and sustainable decision with regard to accepting infiltration flows or rehabilitating the sewer network to reduce them. With climate change, growth and urban creep increasing the load on the current sewer networks therefore it is becoming more important to understand the causes of infiltration, and the economic viability of preventing them, against the cost of accepting them. Richard Allitt Associates are heading a group of consultants to establish whether strategic infiltration can be assessed using specific decision making tools.

The project will consider two categories, technical and economic. The technical objectives include deriving a risk based methodology to assess infiltration at an individual pipe scale and also at the catchment scale. The methodology also needs to be able to assess the effects of various intervention strategies. The main economic objectives will be to identify the monetary value and carbon footprint of infiltration and from there, consider the total catchment infiltration, establish the economic feasibility of accepting infiltration in the system versus addressing it.

The aim of this project is to create decision making tools which will make robust decisions on both economic and technical factors. Currently there is no standardised way of assessing the risk of infiltration of a pipe within a network. By pooling the knowledge and experience of industry experts, a standardised method for this will be available for use across the country.

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