



Executive Summary

Introduction and Importance

A considerable part of water quality problems in the network is associated with accumulation of particles in the network. Deposits in networks may originate from the following two main sources: (1) the ingress with water from the treatment plant, and (2) the corrosion of unprotected cast iron or steel mains. Re-suspension of deposits may lead to discoloured water at the consumer's tap, which is a major cause of customer complaints. The processes of the formation of the deposits in pipes are not well understood in detail. The goal of WP 5.5 is the development of a mathematical approach which describes among others the deposit formation. In the next step the mathematical approach should be linked to a hydraulic model. This model will be used to enable a better understanding of the most important processes and, hence, to open the way for efficient operation and maintenance measures (WP 5.6). Data about the formation of sediments in pipes, which can be used for the development of the part of the mathematical approach describing the sediment formation process, are almost not available in the literature. For this reason data are collected within the activities in WP 5.5. The following tables show data from two network areas in the Netherlands and one network area in Germany which are studied within the Techneau activities. The tables represent the actual state of the data collection. They will be completed within the ongoing activities in the project.

Approach

The data base represents an important base for the development of the part of the model which describes the process of the formation of sediments in a network.

Results

The data base shows actual data from two network areas in the Netherlands and one network area in Germany.

More information

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Quality control: Andreas Korth, Sebastian Richardt, Burkhard Wricke (TZW);
Jan Vreeburg, Peter Schaap (KIWA)

Authors: Andreas Korth, Sebastian Richardt, Burkhard Wricke (TZW);
Jan Vreeburg, Peter Schaap (KIWA)

Contact person: Burkhard Wricke, Dr.-Ing.

E-mail: wricke@tzw-dresden.de

Phone: +49 351 852 11 0

Address: Water Technology Center, Dresden
Wasserwerkstr. 2, 01326 Dresden, Germany