



Project 216

Inspection IWT Systems Oosterwold Almere

In Oosterwold Almere a new concept of developing a residential area is executed in collaboration with the municipalities of Almere and Zeewolde, the province of Flevoland, the regional water authority Zuiderzeeland and the Central Government Real Estate Agency. The future residents of Oosterwold decide how and where to build their houses, they design the roads and paths as well as the surrounding infrastructure of public space and they choose how to treat their wastewater. For cleaning the wastewater, most of the residents of Oosterwold selected an individual wastewater treatment system (IBA). The discharged wastewater from the IBA must meet the water quality regulations imposed by the regional water authority. However, there is a suspicion that the wastewater exceeds those water quality regulations.

Objective

The research objective of this project was to analyse and determine how the discharged water of 66 addresses in Oosterwold does not meet the water quality regulations.

Method of approach

The research was divided into 3 phases. The first phase was contacting the owners of the IBA-system in Oosterwold, and collecting basic information needed for the research. Phase 2 was visiting the IBA-system of the owners that CEW had contacted. The visit included taking samples of the influent water as well as the effluent for further analysis at the laboratory, interviewing the owner of the IBA, and taking pictures of the IBA. Phase 3 was processing the data from the visit and the laboratory analysis. Factsheets with analyses of probable causes and probable solutions were produced.



In the report for the municipality an overview was made showing the probable causes of not meeting the water quality regulations and the type of solutions available to the owners of the IBA to improve the process in their IBA.

Results

Factsheets were made and sent over to the owners of the IBA-systems who had requested advice. A report for the municipality was made containing an overall conclusion of the functioning of the IBA-systems in general.

Facts

Project number: 216
Project name: Inspection IWT Systems Oosterwold, Almere
Customer: Municipalities of Almere and Zeewolde, S. Berkhout and W. Brouwer.
Partners: Wetsus Academy
Students: Sjoerd Timmer, student MBO Life Sciences
Others involved: Bob van Bijnen, CEW; Inge van der Velde, CEW; Bob Laarhoven, CEW; Peter van der Maas, Van Hall Larenstein University of Applied Sciences.