Interreg North-West Europe Water Test Network

European Regional Development Fund

THE EUROPEAN TEST FACILITY NETWORK FOR WATER INNOVATION

Post-testing form

BASIC INFORMATION ABOUT YOUR COMPANY

Ferr-Tech is the global leader of Ferrate(VI)-applications for revolutionary wastewater treatment. For decades, Ferrate(VI) has been known as the most powerful oxidant in the world. Unlike frequently used chemicals for water treatment, Ferrate(VI) is environmentally friendly. It doesn't produce any harmful byproducts and has non negative effect on human health and environment. Until now, it was impossible to produce Ferrate(VI) stable and preservable. Thanks to ground-breaking research, our founders successfully developed an unique and patented process. They made it possible to produce Ferrate(VI) in a stable and preservable form: FerSol. As a Dutch start-up, we are the first company to provide Ferrate(VI) for industrial application. By purifying your wastewater with Ferrate(VI), you make your water treatment more sustainable while enabling reuse of water.

BRIEF INFORMATION ABOUT THE ACTIVITIES WITHIN WTN

At the test location, we are investigating the possibilities of using FerSol (Ferrate(VI) in liquid form) to purify micro-pollutants and phosphates from the wastewater of the water boards. We look at a combination of technologies: UV and the application of FerSol and we have tested this in various setups.

Ferr-Tech collaborates with Van Remmen company in this project. Ferr-Tech received the wastewater in the Apeldoorn site, did the chemical treatment by using FerSol as the main chemical and sends treated water, after settling time, to the Van Remmen system as an influent with high T10 values. Van Remmen system is based on using UV lamps with high (four lamps) and low (two lamps) radiation possibility plus adding H2O2 to the formation of AOP for oxidizing the pollutants. This system economical best feature is with wastewater having T10 values above 60%. In addition to the combination of technologies described above, also Ferr-Tech investigated the combination of chemical treatment by FerSol combined with Granular Actvivated Carbon (GAC) filtering. The protocol is based upon taking a sample before and after chemical treatment to measure the T10 value, DOC, TOC, Pharmaceutical residuals and pH. Also after the UV treatment, we measure the pharmaceutical residuals.

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WHAT IS THE ADDED VALUE OF WTN AND WHY WOULD YOU RECOMMEND WTN TO OTHER SMES?

The WTN offers access to a well-equipped demo site with a test facility where we have access to the water to test and to demonstrate and further develop our innovation. At this location we are given the opportunity to carry out tests in a practical situation on a larger scale than is possible in our own water lab. By using the accompanying voucher, we have the means to conduct high-quality research and have professional analyzes carried out. It offers a unique oppurtunity to link different complementary technologies.

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LINK TO YOUR WEBSITE AND SOCIAL MEDIA ACCOUNTS

Website:	www.ferr-tech.com
Email address:	info@ferr-tech.com
Twitter:	-
LinkedIn:	https://www.linkedin.com/company/ferr-tech/
Facebook:	-

Please email your testing/innovation pictures to watertestnetwork@scottishwater.co.uk or send them as an attachment of this form.