

## MULTISENSOR SYSTEMS AND SCOTTISH WATER COMPLETE AMMONIA MONITORING TRIAL IN RAW WASTE WATER

**Multisensor Systems** and **Scottish Water** have completed a trial of the MS3500 **Ammonia Monitor for Waste Water** at Scottish Water's Waste Water Treatment facility at Brechin, Angus, Scotland.

The trial was undertaken to understand the performance of the MS3500, to see how the incoming ammonia load impacted the levels during treatment and how processing might be modified in response to the incoming Ammonia load.

Brechin was chosen because of the adjacent meat processing facility and the availability of prior measurements of effluent levels at the site.

The equipment was installed post screens at the head of the works and operated **from April to July 2019**. Data was transmitted through a wireless data connection to allow on line access.



The trial showed that the Ammonia levels measured **trended closely compared to laboratory data** and that the equipment was reliable over the trial period, with low levels of maintenance required.

The data has provided Scottish Water with valuable insights into the performance of the works and future strategies for dealing with high Ammonia loads.

**Brad Weaterton**, MD of Multisensor Systems said “we are very happy with the performance at Brechin of the MS3500, the first Ammonia Monitor designed for waste water influents. The trial showed that the data gathered is extremely valuable in the management of the site and that the MS3500 is reliable and can form part of the instrumentation for an efficiently managed treatment works.”

The Scottish Water Environment Innovation Programme Lead **Tamsyn Kennedy** commented “Scottish Water’s waste water service ambition is to deliver effective and sustainable collection and treatment of waste water every minute of every day. We want to improve how we monitor our treatment works to ensure we deliver this performance and treatment compliance. This project with Multisensor is a positive step on our future monitoring journey.”

The trial was made possible by Scottish Water, Scottish Water Horizons, University of Stirling and Multisensor Systems Ltd.

**Multisensor Systems** ( [www.multisensor.co.uk](http://www.multisensor.co.uk) ) is a UK based developer and supplier of instrumentation for the water industry specialising in the application of electronic nose technology to the measurement of substances in harsh environments.

**Scottish Water** ([www.scottishwater.co.uk](http://www.scottishwater.co.uk)) is a public sector utility and provider of water and waste services to 2.54 million households and 152,000 business premises across the whole of Scotland.

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