

Ammonia Monitoring in a Wastewater plant in South East England

APPLICATION

Monitoring of Ammonia at the influent of a WWTP

CUSTOMER

WWTP in S. E. England

PROBLEM

The customer needs a way to measure ammonia levels of the wastewater coming into the plant. This will allow them implement feed forward control of their process and to optimise the plant

PRODUCT

MS3500 with 4-20 mA output

WHY MULTISENSOR?

Multisensor offers the only ammonia monitor designed specifically to work at a raw wastewater intake without blockages.

INSTALLATION FACTS

After a successful 1-year trial, three units are being installed in the same WWTP. The first two units monitor two separate wastewater intakes, while the third monitors the point where they merge. The WWTP serves a population

equivalent of 1 million people. Thanks to the MS3500 the operator of the plant will be able to better monitor the ammonia levels, identify where and when peaks occur and take appropriate actions. In terms of savings there is an expectation that the improved process control will result in the instruments paying for themselves in less than 2 years.

Additionally, the system will identify the timing of peaks to locate industrial dumping into the sewer network for prosecution of those responsible.

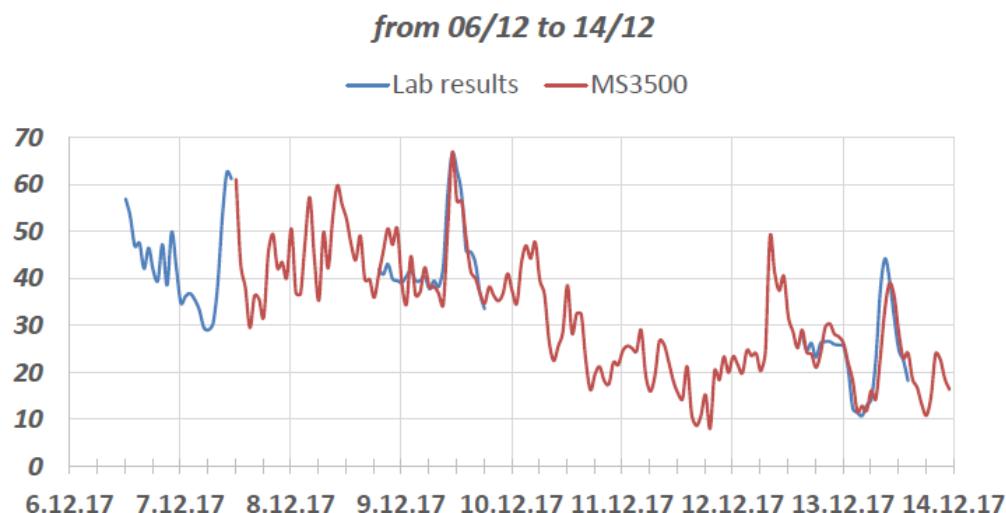
Learn more on the new ammonia analyser by clicking on the image



Photo showing the MS3500, Ammonia Monitor for Raw Wastewater



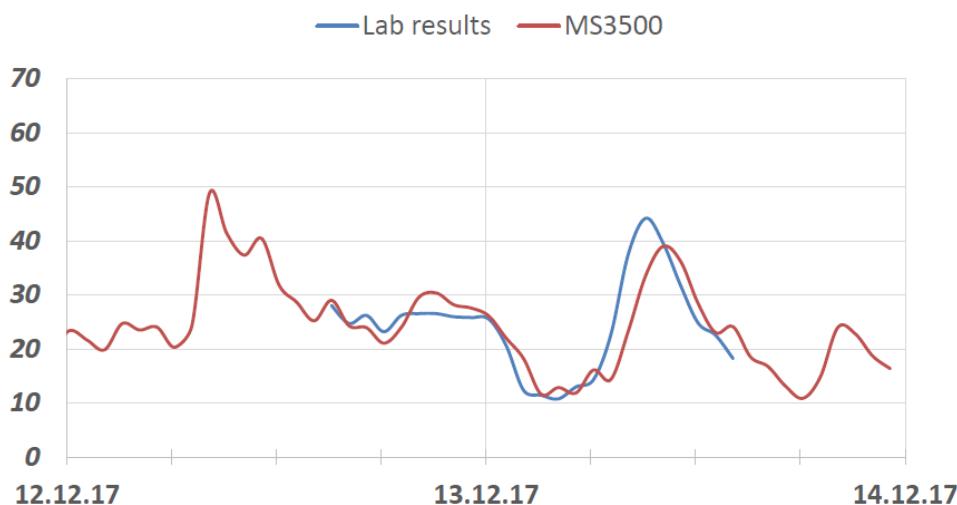
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DATA ANALYSIS

In the graph on the left we can see a comparison running for two weeks between the ammonia monitor and laboratory tests. The Y-axis represents mg/l. We can see that there can be huge variations of the levels at the intake and this highlights the importance of measuring ammonia at the intake to improve process control.

The graph below shows how closely the results match and in a three day period.



USINNG THE DATA

The customer is planning to use the data from the online ammonia analyser to improve its process control and make sure that the system is optimised.