Sewage Treatment Works uses modern technology to eliminate routine operator rounds and potential environmental hazards

RESULTS
• Overspill protection system installed on final settlement tanks with reduced cost due to elimination of wiring
• Routine inspection rounds eliminated as tanks can now be continuously monitored remotely
• Site now avoids risk of overflow from tanks and hence avoids potential environmental hazards

APPLICATION
The Rosemount™ Wireless 702 Discrete Transmitter used with local Emerson 1410 Wireless Gateway to continuously monitor tank level for overspill protection. The Rosemount 702 detects via a relay output from the level transmitter that a tank high level has been reached and the site is then able to take further action.

CUSTOMER
Sewage Treatment Works in the UK

CHALLENGE
Sewage Treatment Works has many aged assets. In this instance, the site has a range of final settlement tanks that they relied on routine rounds for tank inspection in order to avoid overflow of waste into a local river, which carries a major environmental risk.

The site wanted to eliminate these risks and looked to identify a cost-effective solution that could ensure they would be able to reliably and continually monitor the tank levels using tried and trusted technology. Local Rosemount experts were contacted and asked to help identify and implement a solution.

SOLUTION
Sewage Treatment Works installed a Rosemount Wireless 702 Discrete Transmitter with an Emerson 1410 Wireless Gateway on each settlement tank that was supplied with and interfaced to a site-approved interface detection system on each of the tanks for the overspill protection system.
Each of the Rosemount 702 transmitters sends data to a host system using a WirelessHART® network and this allowed the site to monitor these critical tank levels continuously, avoiding the need to routinely send personnel out into the field for the sole purpose of checking the tank levels. Rosemount carried out a successful pilot with the site and subsequently upgraded all the final settlement tanks with the new Rosemount Wireless monitoring systems.

RESOURCES

Rosemount Wireless Monitoring