



CSO & SEWER MONITORING

HELPS PREVENT FLOODING AND REDUCE POLLUTION

"THE PRODUCTS ARE QUICK AND EASY TO INSTALL, ENABLING US TO GIVE CUSTOMERS DELIVERY AND IMPLEMENTATION TIMES WITH A GREAT DEAL OF CONFIDENCE, SOMETHING WE DO NOT BELIEVE WE WOULD GET WITH OTHER TELEMETRY UNITS."

Combined Sewer Overflows (CSO) from waste and surface water are designed to alleviate pressure on the network by discharging excess flow at a controlled point to prevent flooding upstream.

These discharge points can release untreated effluent into the environment with the potential to cause pollution and environmental damage. This risk is why so many wastewater companies choose to provide permanent telemetry to monitor these assets.



THE PROBLEM

As regulations on discharges and CSOs, and their enforcement, become evermore stringent, failed compliance fines, are becoming extremely expensive and increasingly public.

THE RISK

An increasing trend towards financial penalties across regulated markets globally means the risk of incidents can now be monetised by organisations, alongside the environmental risk they are trying to manage.

THE SOLUTION

Recording the effluent level in real-time via a remote telemetry unit is the most effective way to control CSO. High levels and spillage risks are alarmed; data is stored for future analysis and producing discharge reports.

HOW DOES THE METASPHERE SOLUTION WORK?

Metasphere's Point Colour RTUs take inputs from multiple sensors, such as ultrasonic, radar and submersible pressure for this application, measuring level and flow. These sensors are monitored on a predefined interval, relevant to both the site and the sensors being deployed.

Point Colour RTUs can be configured to dynamically increase the measurement rate and dial in, if one of the user-definable alarm levels is breached.

Data can be sent back to either:

- **Metasphere's data** visualisation service, **Palette**: users can view the data, and use email and SMS alarm functionality for receiving alarms out of hours.

or:

- Client's FTP or DNP3 servers, where alarms can be generated by the user, or data can be used to perform control functions.



FIND OUT MORE!

If you would like to monitor sewers and CSOs, get in touch to find out how **Point Colour** RTU devices can transform your network:



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