



# AYYEKA CSO MONITORING- APPLICATION NOTE

## WASTEWATER COMBINED SEWER OVERFLOW (CSO) REMOTE MONITORING MADE EASY WITH LOW-COST SECURE SOLUTIONS

### CHALLENGE

Obtaining secure accurate real-time level and flow information is crucial to preventing costly Combined Sewer Overflow (CSO) events and for routine environmental reporting.

With Ayyeka's Combined Sewer Overflow (CSO) solution, level can be measured using a level switch, a submersible hydrostatic level sensor, an ultrasonic non-contact level sensor, or a radar level sensor. Information received through the Ayyeka Wavelet is securely transmitted over three different communication networks, including 4G cellular. The DNP3 cybersecurity protocol ensures that your utility's information is protected at all times.

Ayyeka's CSO remote monitoring solution provides low cost, efficient and data-secure CSO/SSO alarming and captures the data needed for both historical and real-time reporting. Functionalities include the measurement and reporting of overflow duration. Actionable data derived from Ayyeka systems can drive improved system performance and operational planning.

### APPLICATIONS

- ▶ Prevent CSO events through real time level monitoring
- ▶ Easily connect your existing flow meter
- ▶ Obtain immediate alerts and alarms
- ▶ Get historical time-stamped data
- ▶ Avoid fines for non-compliance with environmental protection legislation
- ▶ Reduce pollution resulting from overflows
- ▶ Pair with Ayyeka rain gauge monitoring for storm distribution mapping and analytics

### BENEFITS

- ▶ No need to purchase or maintain software
- ▶ No need to rely on others to program your device remotely
- ▶ Low cost
- ▶ SCADA friendly: Rest and Soap APIs make integration easy.
- ▶ Delivered box ready and ready for installation off the delivery truck
- ▶ Fast and easy to deploy in the field
- ▶ Receive immediate alarms about impending overflows via SMS and/ or email
- ▶ Bluetooth-ready. Can be controlled through smartphone apps.
- ▶ Includes futureproof 4G and LPWAN communications technology
- ▶ Automatic external power detection (Special orders not needed)
- ▶ Automatic external antenna support (special orders not needed)
- ▶ Obtain historical level information in both graphical and time stamp formats
- ▶ Avoid costly and hazardous inspection visits for environmental reporting

