

## Case Study

# CSO Monitoring and Reporting Solution - Springfield, MA

Massachusetts cities and sewer operating entities are required by law to meet stringent reporting requirements regarding spills. They are currently experiencing new pressures for reporting combined sewer overflows (CSOs), as follows:

***The Sewage Notification Data System is the MassDEP electronic reporting system described in 314 CMR 16.07. Permit holders should report CSO, SSO, and partially treated discharges and overflows into the Data System. Reports should be submitted within 18 hours of issuing the Public Advisory Notification. A second report with verified data should be submitted by the 15th of the following month.***

### Requirement for Immediate Public Reporting

The initial overflow notification on a public website must be within 2 hours of activation. Additionally, individuals may opt-in to receive event email notifications which must be in English and other major languages of each city. After passage of the new requirements in January 2022, permit holders had less than six months to implement and launch their public-facing website and email notification systems.

### Springfield's Implementation Plan

With the implementation date of July 6, 2022 looming, the City of Springfield, Massachusetts needed a public reporting solution that would meet the new requirements without significant additional resources.

Fortunately, in 2004 the city had invested in comprehensive monitoring and data analysis services from ADS Environmental. With more than 20 TRITON+® flow monitors already in place at key locations and ADS's PRISM™ software-based turnkey management services delivering near real-time data, Springfield had a strong foundation for enabling the new public reporting mandates.

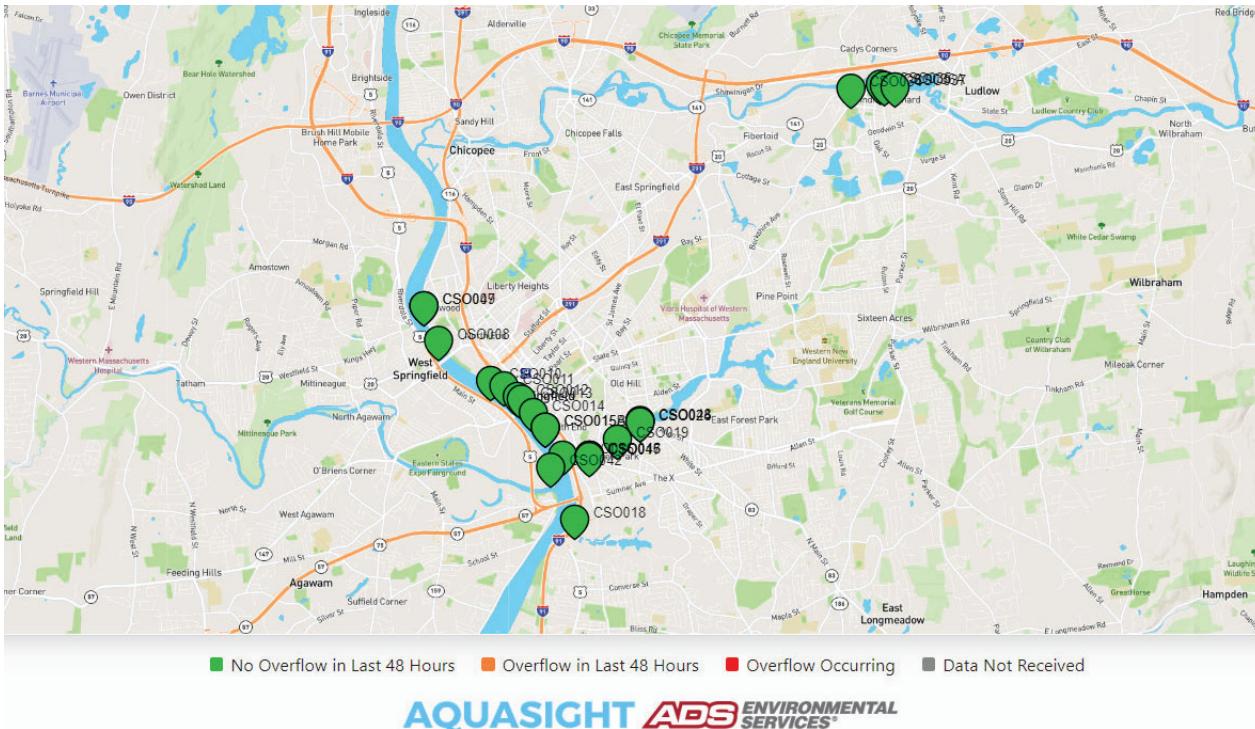


Springfield, MA downtown (Courtesy of City of Springfield, MA)

## Partnership for Comprehensive Reporting

ADS Environmental Services partnered with Aquasight to incorporate public reporting into the system by building on the existing turn-key ADS hardware and software infrastructure. The ADS flow meter system and PRISM™ flow metering software were coupled with the Aquasight ACE™ Intelligent Sewer Solution in less than 8-weeks.

Aquasight implemented algorithms into ACE™ that integrated data from ADS flow monitoring devices via an interface to the existing PRISM software. The ADS data was then incorporated into Aquasight's powerful GIS centric, analytical, reporting, and email notification feature.



Aquasight ACE™ Public Notifications Website using data from ADS Flow Metering site locations

[Click here to see live website view](#)

## Summary - A Better Solution with Built-in Responsiveness, Flexibility and Scalability


Springfield now has an automated tool for seamless reporting including discharge location, discharge time, estimated volume, time of discharge end, affected water bodies, and affected communities. With the flow metering and public reporting system, Springfield can now seamlessly and easily meet regulatory requirements while also giving the public a new awareness of overflow events, promoting greater safety.

In addition, by creating the compliant public reporting solution on top of proven ADS monitoring and management services, Springfield has the advantage of built-in flexibility and scalability for expanding the number and location of monitoring sites. The integrated ADS and Aquasight end-to-end monitoring and reporting system is also readily adaptable for other jurisdictions to quickly meet public reporting mandates for CSOs and SSOs, both within Massachusetts and nationwide.

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