



# SmartRain™

## Rain Data Integration

### HOW IT WORKS

The location of SmartRain gauges is determined by specifying latitude & longitude of the desired sites in relation to National Oceanic & Atmospheric Administration's (NOAA) National Weather Service. Combining & calibrating these coordinates with ground-truth physical rain gauges, provides near-real time rainfall rates at the specified location. Locating multiple rain monitoring sites in a given sewer shed reveals 'cause & effect' relationships in the basin. Creating a 'rainfield' using a grid of rain monitoring sites is easily deployed, enabling local variability of rain events to be captured.

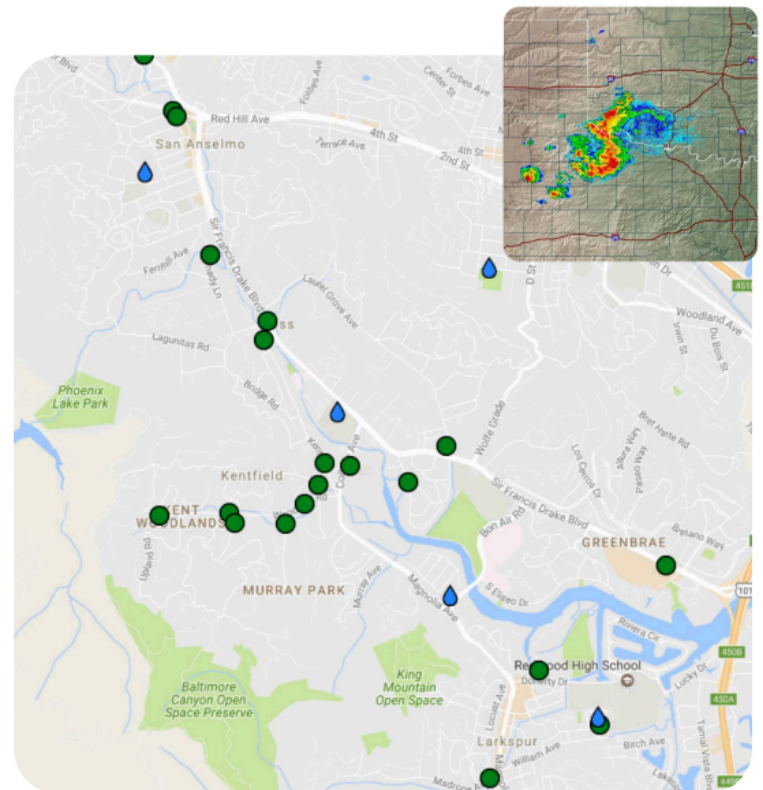
### WHAT IT DOES

Monitoring & analysis of these multi-layered data points obtains precise timing and location of inflow & infiltration (I&I) at various points within your collection system. When SmartRain™ is used in concert with level or flow data it quickly reveals sources of I&I -- these data sets are powerful tools for prioritizing capital improvement projects (CIP) to mitigate I&I impact on your collection system.

## DATA INTEGRATION

SmartRain™ integrates your SmartCover level & flow data with Doppler radar and local rain gauge data. This integration creates an easy method to develop a comprehensive understanding of the relationship between your collection system level or flow affected by rain events. Rain data is acquired from any desired location & presented in the user interface along with level or flow data in a single display.

- Multi-graph view of level or flow with rain data
- Advance warning for high rainfall levels
- Doppler radar with detection resolution to 0.001 inches
- Area coverage 1 km (0.62) miles radius per monitored site
- Easily export data for reports & presentations



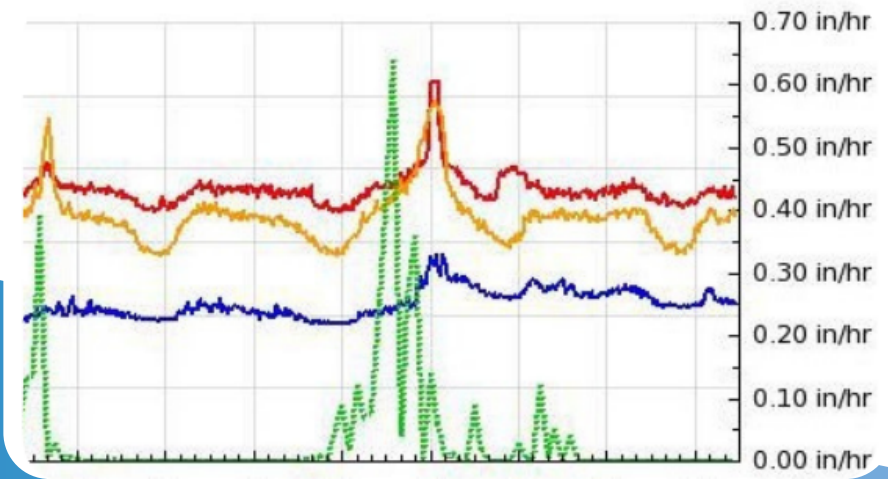
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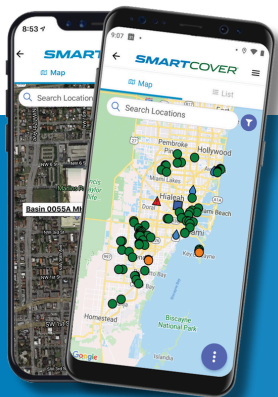
### I&I IMPACT REPORTING

When rain, tidal water or river overflow is processed a sewage, the effect can be higher treatment costs & unanticipated expenses. Analysis from an easy online tool is presented as an I&I Impact Report showing:

- Easily view level or flow data with trend analysis
- Creates a collection system rain influence profile
- Identifies and characterizes the actual sources of I&I
- Lowers the impact of treating rainwater at the plant
- Mitigates overflow risks

Our I&I Impact Report allows you to gain valuable insights into your sewer system for data-based decisions:

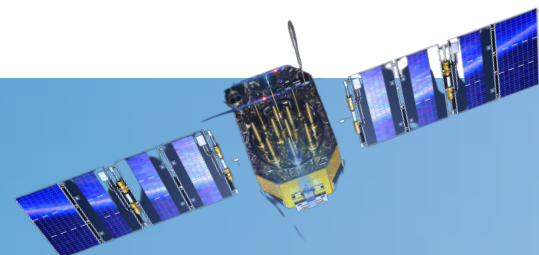
- Prioritize and schedule pipe rehabilitation or replacement by impact level
- Assess repair success and outcomes
- Create more accurate CapEx and O&M budgets



With the SmartCover mobile app, get the insights you want, when & where you need them. Available for both iOS & Android devices.

### SMARTCOVER FEATURES

- Hardware components engineered to function in wet, humid, corrosive conditions
- Flexible patented sensor designs & deployment
- NO CONFINED SPACE ENTRY\* installation or service
- Reduces traffic management resources
- Secure, online dashboard with easy-to-read, visual reports
- Compact, long lasting battery
- Two-way communications permits remote settings management
- Fusion with rain, river & tide data
- Variable timing options for data scan & notifications
- Done-for-you analytics
- Works when there is no power
- Satellite coverage works with sites difficult to access & withstands cellular outages
- Built in tilt switch for real time entry detection
- Encrypted secure servers with redundancy
- Mobile app for iOS & Android
- API available
- Configurations for open channels, canals, holding tanks, lift stations, outfalls, wet wells, reservoirs & utility vaults



With satellite based data transmission, your sewer status connection is maintained even during cell outages & the most severe weather.