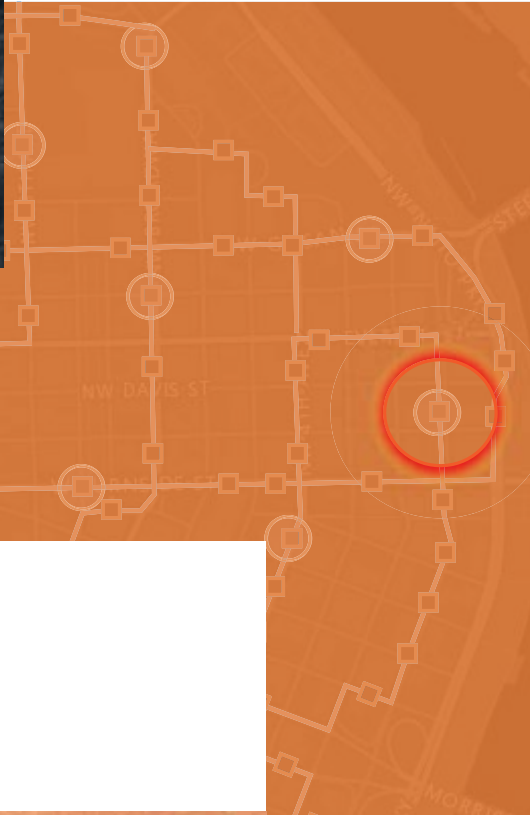




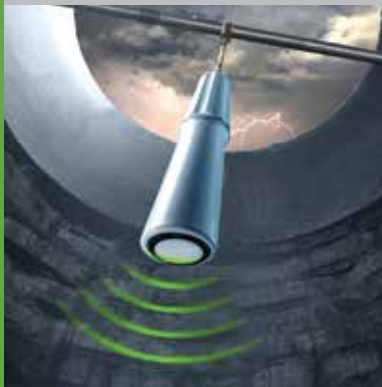
Early Warning Overflow & Backup Prevention



Proactive Monitoring of Sanitary Sewer Systems



Overflow & Backup Prevention



The key to environmental compliance is to never allow the event to happen in the first place. Sanitary sewer overflows (SSOs) and basement backups, besides always having been illegal under the Clean Water Act, are also subject to large regulatory fines. These events can cause health hazards, damage homes and businesses, threaten the environment and pollute local waterways.

Since billions of dollars are not available for capital improvement of our wastewater infrastructure systems, Eastech has developed a low-cost cellular-based sensor (iTracker 1st Response™) capable of proactively alerting O&M personnel in real time of an impending overflow or backup weeks prior to the event actually taking place. This immediacy in response can be critically important when faced with regulatory agency fines, distraught homeowners and potential lawsuits.



Early-Warning Cellular Alerts

Upon wastewater levels reaching a user-defined height, an early-warning text message is dispatched alerting O&M personnel of the possibility of a future sewer surcharge event.



Non-confined Space Installation

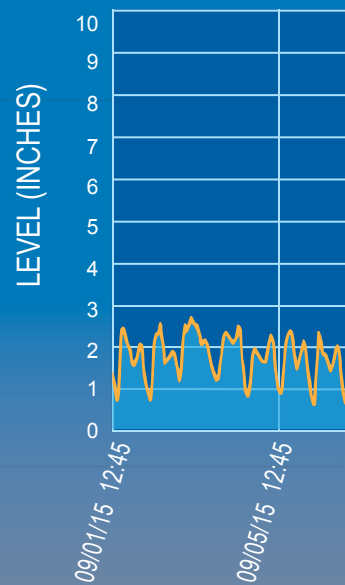
Cellular enabled iTracker 1st Response™ sensors can be quickly and safely installed in 45 minutes from the street level without any requirement for confined-space entry.



Zero Maintenance

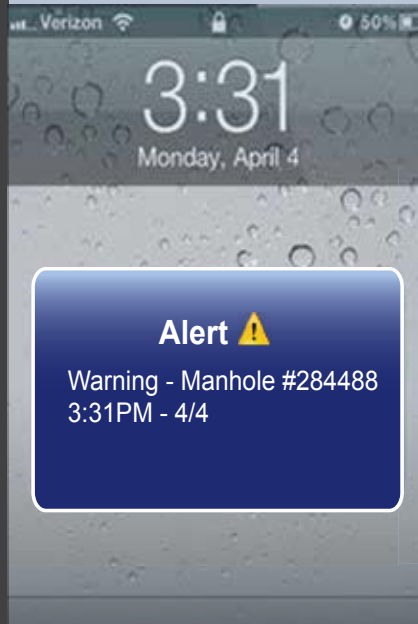
Above-the-flow iTracker 1st Response™ sensors never come into direct contact with the media. Repetitive maintenance, along with loss of critical data, is no longer an issue.

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iTRACKER 1st Response™

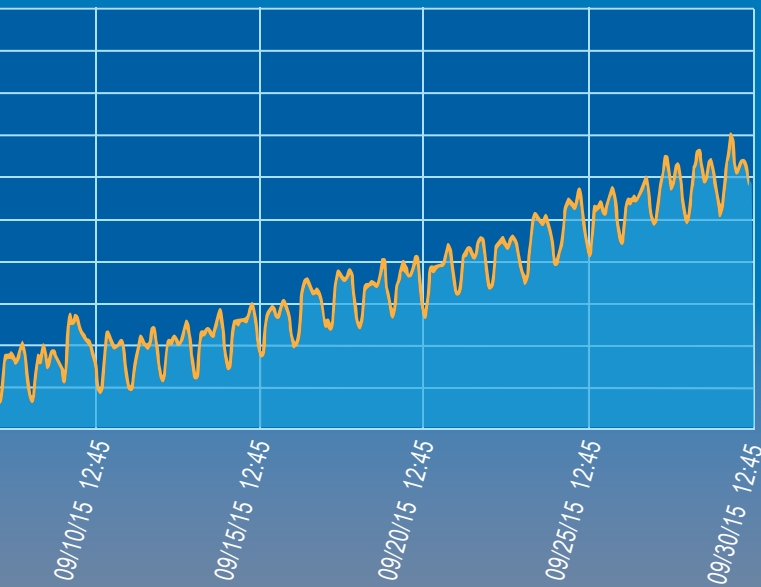
The iTracker 1st Response™ is a fully integrated, battery powered Sanitary Sewer Overflow and Back-Up Prevention Monitor capable of alerting municipal personnel within minutes of an impending overflow or basement back-up condition.



Cellular alerts are initiated, event duration is recorded and historical files are compiled for later analysis.

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EARLY WARNING

Cellular Alerts

Upon wastewater levels reaching a user-defined height, early-warning cellular text messages are dispatched alerting maintenance personnel of the possibility of a surcharge event or residential back-up. To confirm that an alert was received, a user response must be activated otherwise the alert will be resent on a continual basis. Depending upon desired battery life (up to 3 years), manholes may be monitored at pre-determined, user-selectable time intervals.

The 1st Response™ provides O&M personnel with access to historical data informing them of exactly what had previously transpired within the collection system leading up to an early warning alert.

As can be determined from historical data, the overflow alert was initiated by a gradually increasing downstream blockage problem.

iTRACKER
1st Response™

SPECIFICATIONS

Environmental Rating: Submersible IP67/NEMA 4, 4X
Material of Construction: HDPE
Weight: 1.9 lbs
Temperature: -4 to 158F (-20 to 70C)

BATTERY

Description: 3.6v Primary Lithium D Cell (Tadiran TL5937)
Battery Life: 5-Minute Sensing Interval – 1 Year
15-Minute Sensing Interval – 2 Years
60-Minute Sensing Interval – 3 Years
Low Battery Alert: Standard (Text Alert)

ANTENNA

Cellular: In-Road Burial
Cable Length: Standard: 10ft Optional: 30ft

SENSOR CHAIN

Material: Stainless Steel
Chain Length: Standard: 10ft Optional: 30ft

COMMUNICATIONS

Cellular: All Providers with SIM Card

TEXT ALERTS

Recipients: As Required

DATA LOGGER

Integrated: USB Interface

WARRANTY

Factory: 1-Year



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