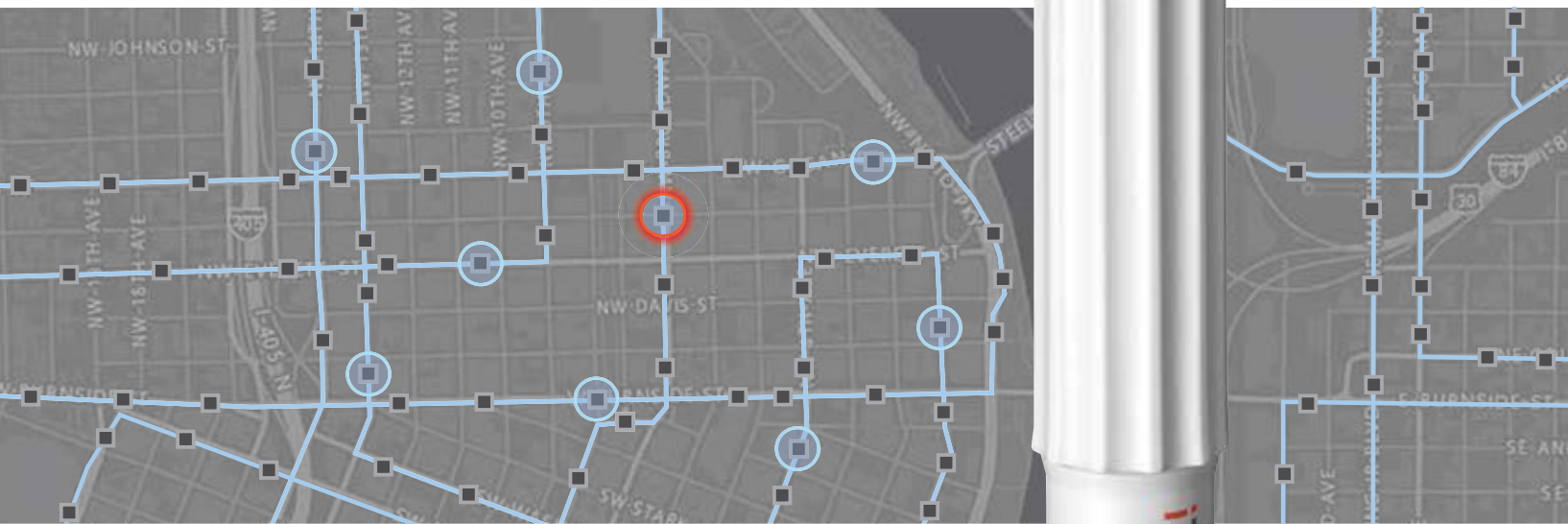


iTracking[®]

A Round-the-Clock Window into
Collection System Performance



I&I Micro Detection



Overflow Prevention



Condition Assessment



Model Validation



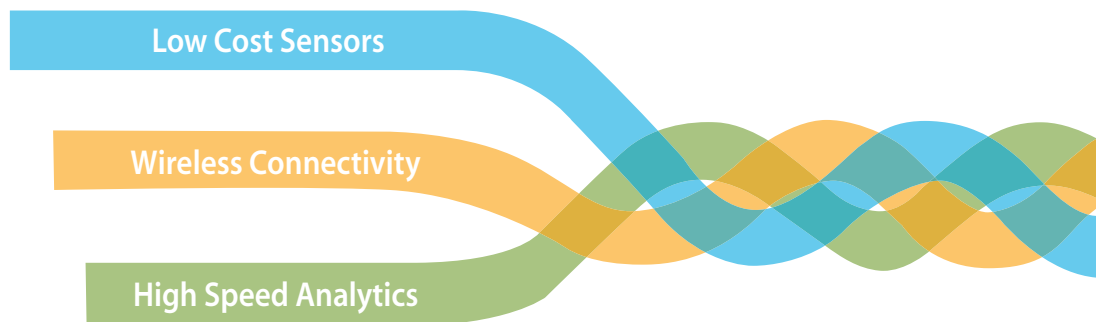
iTracking®



Introducing a new digital technology that cost effectively provides real solutions for wastewater collection networks.

Eastech has developed a newly patented breakthrough technology (iTracking®) for determining the operating performance of wastewater collection networks on a “round-the-clock” basis. Through the unique coupling of low-cost sensors, wireless connectivity and high-speed analytics, it is now possible to cost effectively deliver extremely reliable solutions for the efficient and sustainable operation of these valuable underground assets.

iTracking...technology that gets results!





One Great Technology, Four Great Solutions

Finally, advancements in digital technology have reached a point where it is now possible to create an intelligent wastewater network capable of:

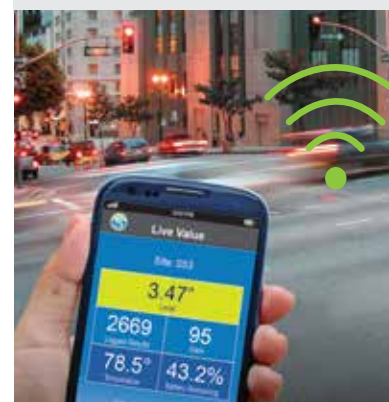
- Micro Detecting Inflow & Infiltration
- Preventing Sewer Overflows & Backups
- Proactively Assessing Infrastructure Condition
- Empirically Validating Hydraulic Models



Low Cost Sensors

Wireless Connectivity

High Speed Analytics



Low Cost Sensors

Advanced technology iTracker® sensors, weighing just 1.9 pounds, monitor wastewater collection system performance on a continual basis without the requirement for confined-space entry, repetitive maintenance and “in the road” data collection. Operating data is safely and effortlessly retrieved through either Wi-Fi or Cellular enabled technology.

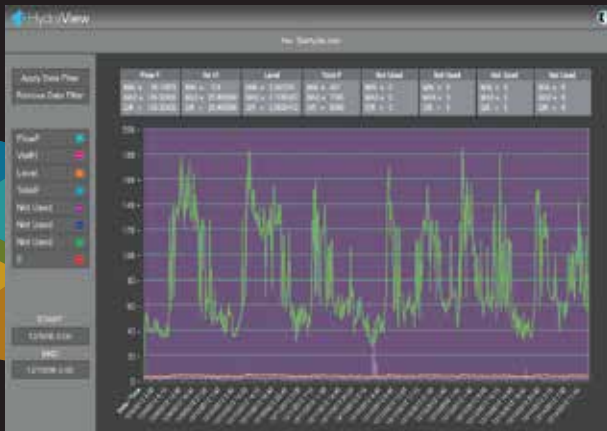
Wireless Connectivity

Operating information is safely and effortlessly retrieved through Wi-Fi or Cellular enabled technology. By eliminating the requirement for hazardous “in the road” data collection, engineering and city personnel are able to recover sewer system performance parameters from the convenience of their vehicle, nearby sidewalk or office desktop.



High Speed Analytics

Advanced proprietary transform algorithms, operating within the iTracking® software program, consistently analyze collection network performance in reference to changing conditions within the system. By the simple push of a button, bar charts, hydrographs and automated reports are clearly presented detailing the daily performance characteristics of the collection grid under investigation.



Inflow & Infiltration Micro Detection



Pinpoint I&I Through
High Resolution Monitoring

Inflow & Infiltration (I&I) is usually the number one concern when addressing the condition of wastewater infrastructure. Thousands of sewer evaluation studies have confirmed the fact that 80% of the I&I is located within 20% of the collection network. iTracking® technology provides the ability to install within any basin under investigation the necessary quantity of low cost sensors in order to create an efficiently functioning “intelligent grid” capable of pinpointing I&I to within a pair of adjoining manholes.



Pinpointing sources of I&I requires high resolution monitoring to within a pair of adjacent manholes.

see Bulletin A1

Sewer Overflow and Backup Prevention



Proactively Respond to
Problematic Situations

All overflows and basement backups are illegal under the Clean Water Act and are subject to large governmental fines. This is why the key to this type of environmental compliance is to never allow the event to occur in the first place. Cellular enabled iTracker® Sensors monitor collection system performance in real time in order to proactively alert operating personnel of an impending toxic spill or backup weeks before the event would ultimately occur.



Preventing overflows and basement backups requires proactive, not reactive, maintenance procedures.

see Bulletin A2

technology that gets results...



Wastewater Infrastructure Condition Assessment



Dynamically Manage the Collection Grid

In a major industry report, 60% of those surveyed believed that implementing strategic solutions for the purpose of economically intervening in order to extend an assets life is one of the primary benefits of real-time analytical data. Currently, wastewater conveyance lines are cleaned on a pre-set “scheduled” basis. iTracking® technology allows for these procedures to become “Dynamic” by not only delivering cost-saving information regarding “when and not when” to clean sewer lines but also by providing proactive alerts of problematic conditions hidden within the network.



Effectively assessing conveyance system condition requires replacing a “Best Guess” system with one that is “Dynamic”.

see **Bulletin A3**

Fact-Based Hydraulic Model Validation



Empirically Develop Collection System Models

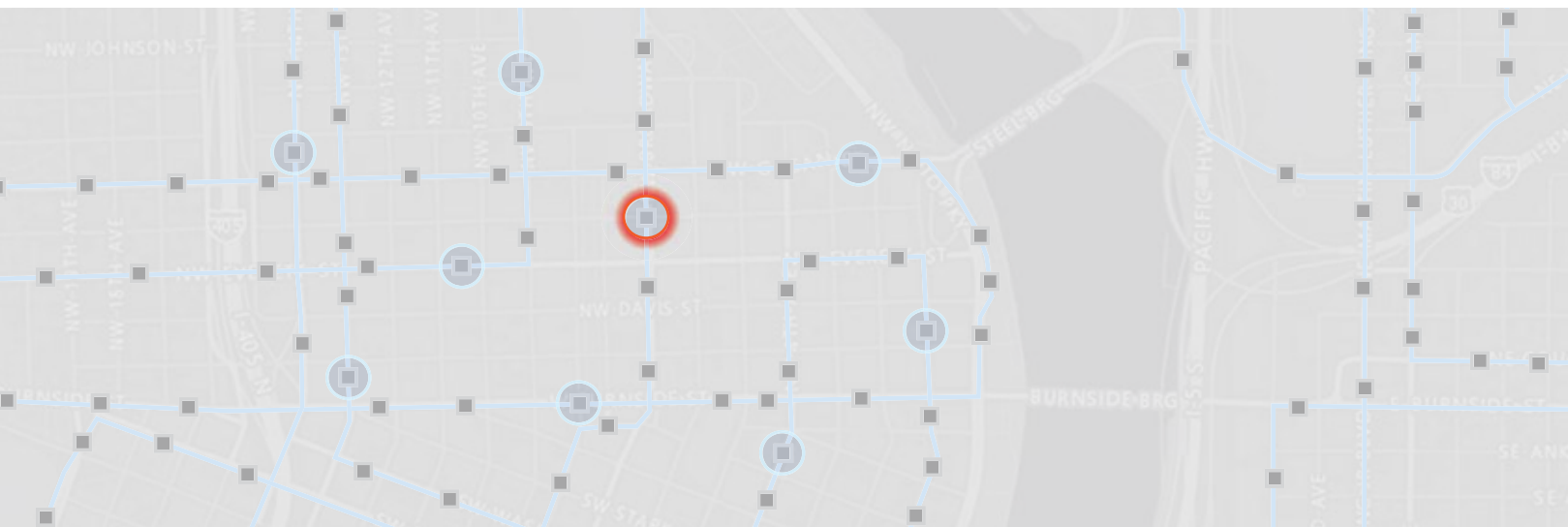
A hydraulic wastewater collection model should have the capability to simulate and predict flow at all times and locations based upon actual measurement of volume. Unfortunately, until the present, this has not been technically nor economically practical. iTracking® technology provides hydraulic model developers with the tools to empirically, rather than theoretically, validate their models utilizing “fact-based” data sets for analysis of collection system performance at a fraction of the cost of current conventional methods.



Developing reliable hydraulic models requires the ability to validate model assumptions with “fact-based” data sets.

see **Bulletin A4**





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