

iTracking®

TRACPAC™ 7

The First Do-It-Yourself Solution for Micro Detecting I&I



TRACPAC™ 7

I&I MICRO DETECTION IN 2 SIMPLE “DIY” STEPS

After receiving multiple requests from small and mid-size municipalities for a simple and cost-effective “DIY” I&I Detection system, we are pleased to offer Tracpac 7.

The TracPac 7 is a packaged I&I Micro Detection system designed to quickly pinpoint areas of I&I to between a few manholes. Provided with (7) iTracker® smart sensors, accompanying hardware and auto-analytical software, the TracPac 7, in two simple steps, will accurately locate major areas of I&I after just a single rain event.

It starts with a Smart Sensor

iTracker smart I&I Detection sensors are packed with powerful features that give you the ability to monitor, analyze and alert on a single platform. Designed with Bluetooth capability, sensors can be deployed in just 20 minutes, do not require confined space entry and are maintenance-free.



TRACPAC™ 7

Provided with (7) iTracker® smart sensors, accompanying hardware and auto-analytical software.



- Non-Contact
- Lightweight: 1.9lbs
- 12 Month Battery Life
- (2) - 3.6v Lithium D Cell
- Bluetooth Enabled
- Onboard Data Logger

High Resolution Intelligence

iTracker Smart Sensors deliver a network of high resolution data points that quickly pinpoint I&I down to between a few manholes.

User-Friendly

20 Minute Setup

iTracker sensors can be installed in just 20 minutes without confined space entry.

5 Minute Data Retrieval

iTracker sensors allow for effortless setup and retrieval of data through Bluetooth connectivity.

Cloud Connectivity Makes it Simple

Our cloud connectivity allows you to instantly access actionable reports and on-demand animated videos from any location.



PLAYBACK™ AI-Powered Video Animation

Locating faulty underground wastewater infrastructure has always been a daunting task. Finally, that is all about to change. TracPac 7, along with its groundbreaking AI-Powered Computer Generated Imagery technology (Playback™), is poised to transition the complexities of Inflow and Infiltration (I&I) detection from a difficult and costly process to one that is simple and inexpensive.

With a click of the Playback™ button, users are instantly presented with an animated video showing the relationship between wastewater flows and weather events leading up to the I&I episode in question. Specifically developed AI-Powered algorithms quickly isolate and determine those sites responsible for the greatest volumes of I&I. **The top I&I event at each problematic site is automatically displayed and encircled with a color coded ring for immediate identification.** I&I is quickly isolated to between a few manholes.




Instead of going through the time and expense of utilizing maintenance-prone flowmeters to ascertain increases in wastewater volume during wet weather events, simply use iTracking's TracPac 7 with AI-Powered Analytics and Computer-Generated Imagery to locate with just one click of a button each Major Basin or Basins responsible for excessive contributions of I&I.

Quickly Evaluating the Extent of the Problem

By utilizing just one of the smart TracPac 7 sensors in a specific Major Basin of the collection network and then uploading the resulting data to the Eastech Cloud, iTracking® analytics will automatically generate animated videos (Playback™), Volumetric Change in Flow Graphs and EPA-Guided graphical interpretations detailing the severity of I&I within the area selected for initial investigation.

Select



It is suggested that a single iTracker  sensor be installed at the base of the Major Basin study area to quickly confirm the volumes of I&I presently infiltrating the system while additionally familiarizing utility personnel with the primary features of the TracPac 7 prior to conducting a "Branch" investigation.

Install



iTracker smart sensor installation is accomplished in 20 minutes without the requirement for confined space entry. Simply hang the sensor weighing less than 2 lbs. from a factory supplied spanner bar. Enter manhole number, pipe size and water level into the calibration screen displayed on your mobile phone and the iTracker is ready to begin collecting data. It's as simple as that!

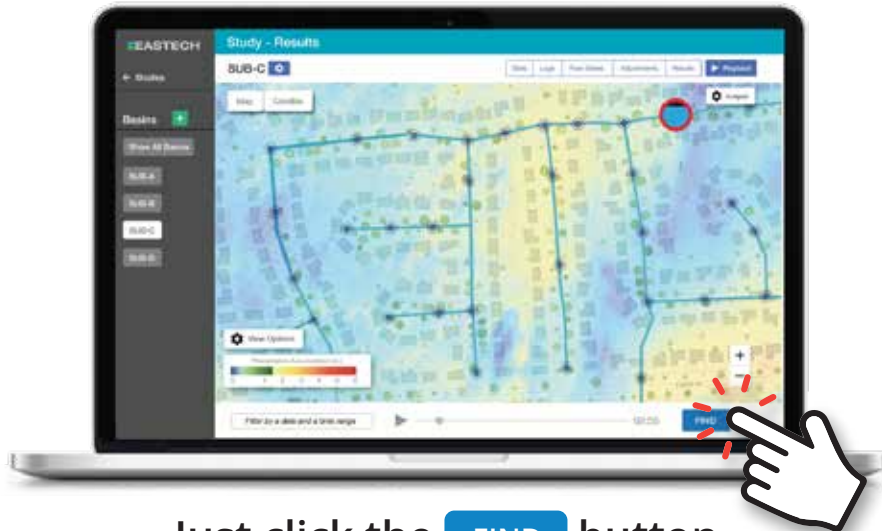
Upload



After one or two rain events, return to the site and retrieve the iTracker by pulling up the stainless chain attached to the sensor housing. With any Bluetooth-enabled mobile device upload the collected data directly to the Eastech Cloud. After uploading the data, iTracking® analytics will automatically generate animated videos (Playback) and EPA-Guided graphs.

Playback Video Analysis

Now... Stop Wondering and Start Watching as Animated Videos and Flow Graphs Automatically Provide Actionable Results



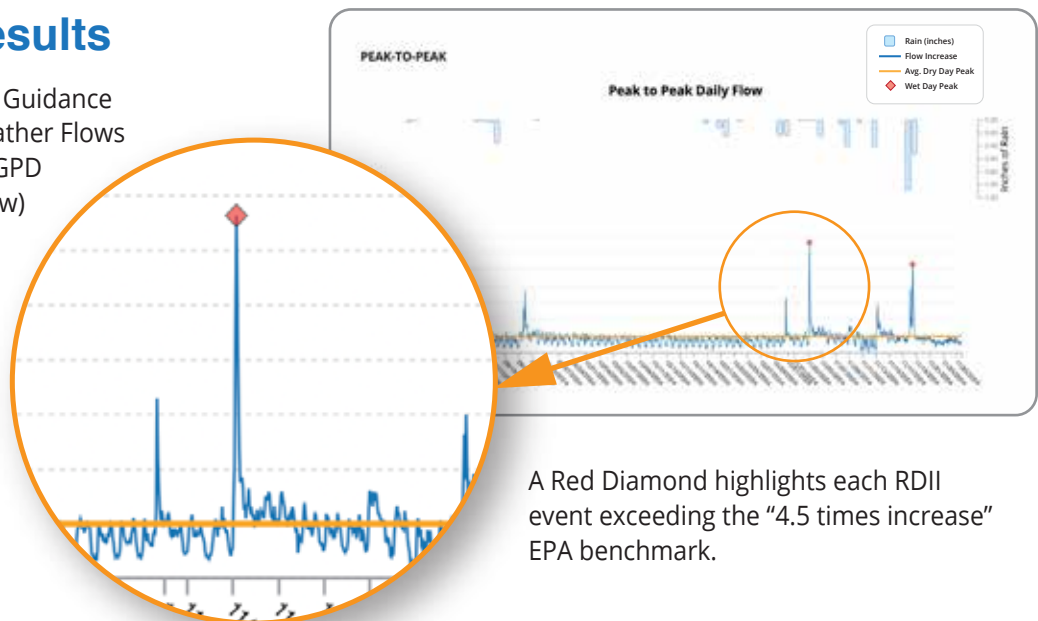
Just click the **FIND** button

With TracPac 7's unique Playback™ feature, the I&I discovery process becomes as simple as watching an animated video of the performance of your collection network under both normal and adverse weather conditions. Simply by clicking the "FIND" button, users can view in historical real-time mode wastewater volumes rising or receding in relation to storm intensity and follow along as dynamic visuals provide a moving timeline of I&I contributions for each Major Basin or Basins.

By combining location, weather and performance data, the top I&I event for each Major Basin is automatically presented in an animated video format with color-coded rings (yellow, orange, red) depicting the severity of the episode.

EPA-Guided Results

TracPac 7 uses the EPA's I&I Guidance recommendations (Wet Weather Flows exceeding 4.5 times the 60 GPD per person average daily flow) as the primary benchmark for identifying each major and micro basin within the wastewater collection network responsible for contributing excessive volumes of I&I.

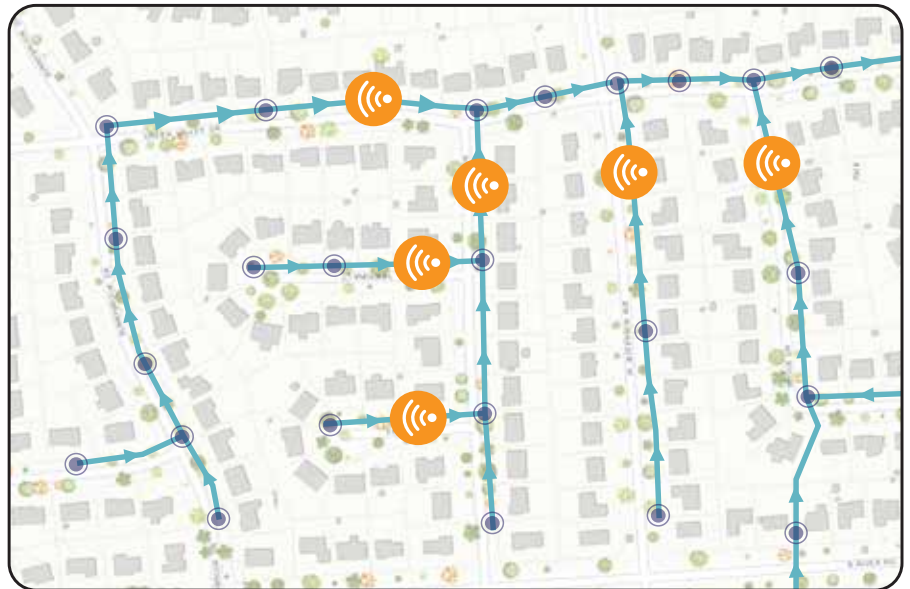


A Red Diamond highlights each RDII event exceeding the "4.5 times increase" EPA benchmark.

Locate which Branches are Responsible for I&I

If a Major Basin selected for investigation proves out to be a substantial contributor of I&I, position **TracPac 7** sensors at the base of each independent Branch making up the Major Basin (shown at right).

It has been proven over thousands of I&I Studies that 80% of I&I resides in just 20% of the collection network. By placing **TracPac 7** sensors at the base of each independent Branch, the 20% of the system contributing 80% of the I&I can usually be discovered after just a single major rain event.



Install



iTracker smart sensor installation is accomplished in 20 minutes without the requirement for confined space entry. Simply hang the sensor weighing less than 2 lbs. from a factory supplied spanner bar. Enter manhole number, pipe size and water level into the calibration screen displayed on your mobile phone and the iTracker is ready to begin collecting data. It's as simple as that!

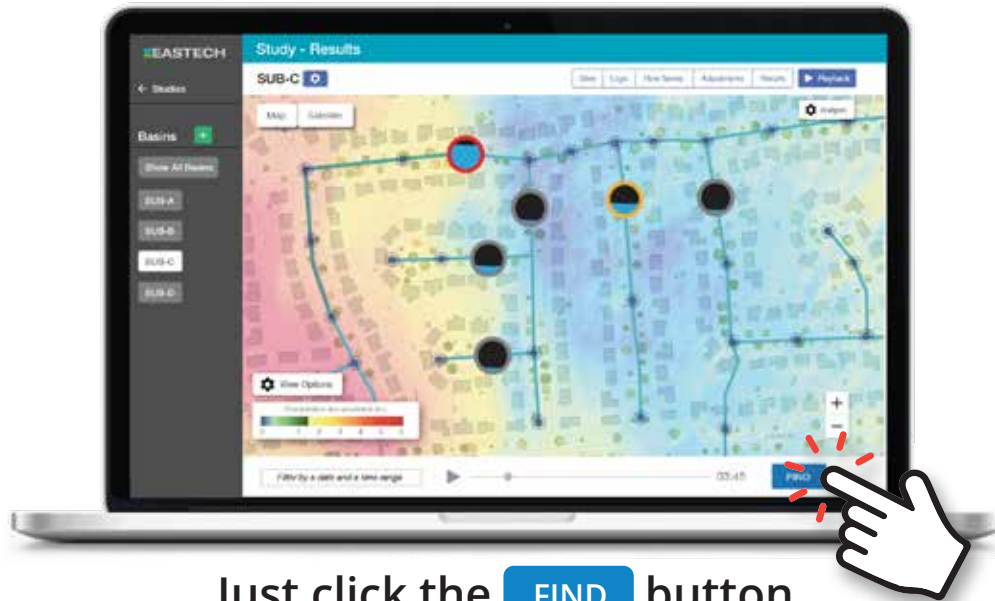
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After one or two rain events, return to the site, retrieve the iTracker by pulling up the stainless chain attached to the sensor housing. With any Bluetooth-enabled mobile device upload the collected data directly to the Eastech Cloud. After uploading the data, iTracking® analytics will automatically generate animated videos (Playback) and EPA-Guided graphs.

Watch the
TRACPAC 7 Video at
smartwastewater.com

Playback shows you a moving timeline of I&I contributions for each independent branch



Just click the **FIND** button

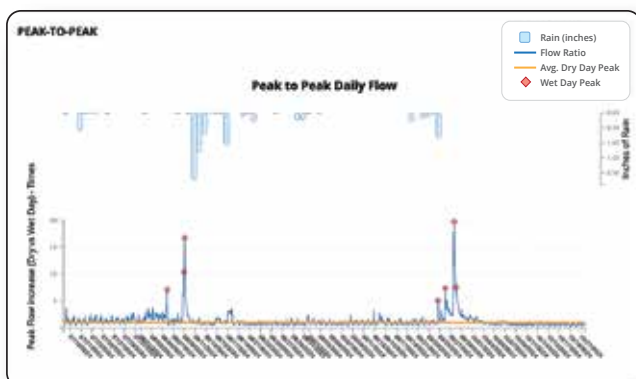
Users can view in historical real-time mode wastewater volumes rising or receding in relation to storm intensity and follow along as dynamic visuals provide a moving timeline of I&I contributions for each monitored location.

By combining location, weather and performance data, the top I&I event for each Branch is automatically presented in an animated video format with color-coded rings (yellow, orange, red) depicting the severity of the episode.

Once the Branches responsible for the majority of I&I are located, a further investigation can be initiated that employs either smoke testing, CCTV or additional TracPac 7 sensors to pinpoint the cause of the problem to between a set of manholes within each Branch.

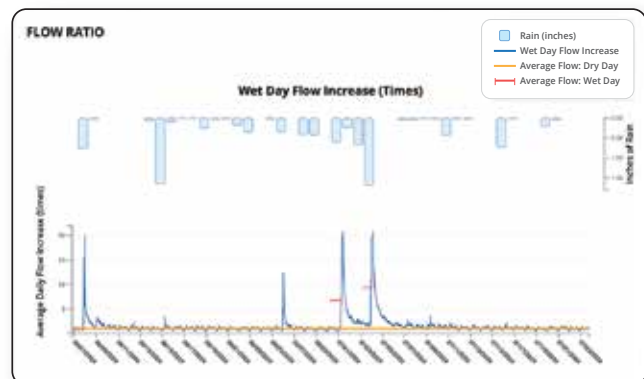
PEAK TO PEAK HYDROGRAPH

Compares the hourly wet day increase in peak flow “X times” to the average dry day peak flow. Events with excessive I&I are highlighted by a red diamond marker.



I&I SEVERITY HYDROGRAPH

Marks each day where the total daily flows reach or exceed 4.5 times the normal dry day flows (EPA Guidance).



PRICING

TRACPAC 7™

TracPac 7™ I&I DETECTION PACKAGE

\$19,775.00

Provided with (7) iTracker® smart sensors, accompanying hardware, Playback™, AutoAnalysis Software and AutoReporting.

Additional iTracker® Smart Sensor (Bluetooth Enabled).

\$2,825.00

To initiate the Cellular Connectivity Option on any TracPac 7 iTracker, please add the following:

Cellular Upgrade (one time charge)

\$150.00

Cellular Connectivity (annual charge)

\$360.00

The above pricing is based upon the first year of TracPac 7™ purchase and implementation. The pricing includes everything listed above and everything required to conduct a successful I&I Detection Study. No hidden or additional costs.

Each following year, the only costs incurred will be \$3,360/annum for the Cloud-Based Analytical Software platform that includes AutoAnalysis, AutoReporting and Playback.



Success Program

More Than Your Typical Support

We take pride in delivering the best customer service and the highest level of support. Your 100% satisfaction is our promise.

TracPac 7 Online Training

Eastech offers comprehensive training services through multiple channels to ensure 100% success of TracPac 7 I&I Study projects.

Project Support

- One-on-one hardware, connectivity and software familiarization and training.
- TracPac 7 sensor field installation training session.
- Web-based I&I Study analysis assistance.