iTracking® FastTrac™

I&I Detection with the Click of a Button!

Within minutes of uploading collection system performance data to the Eastech Cloud, FastTrac™ Analytics, in combination with a single iTracker®, determine the severity of I&I relating to each wet weather event.

Here's How Quickly iTracking FastTrac Works!

- Select one or more areas of the collection network for I&I investigation.
- Install a smart iTracker sensor in a manhole at the base of the area selected.
- Following a rain event, via any mobile device, upload the data to the Eastech Cloud.

Select

iTracker sensor

Basin studies provide a quick understanding of areas selected for I&I investigation. They quickly identify issues with RDII in larger areas, typically 1 – 2 linear miles in length, making them an ideal starting point for a study when the compromised areas of a system are unknown. A Basin study focuses on measuring the increases in flow due to a rain event and quickly determines if a more in-depth investigation is warranted.

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!

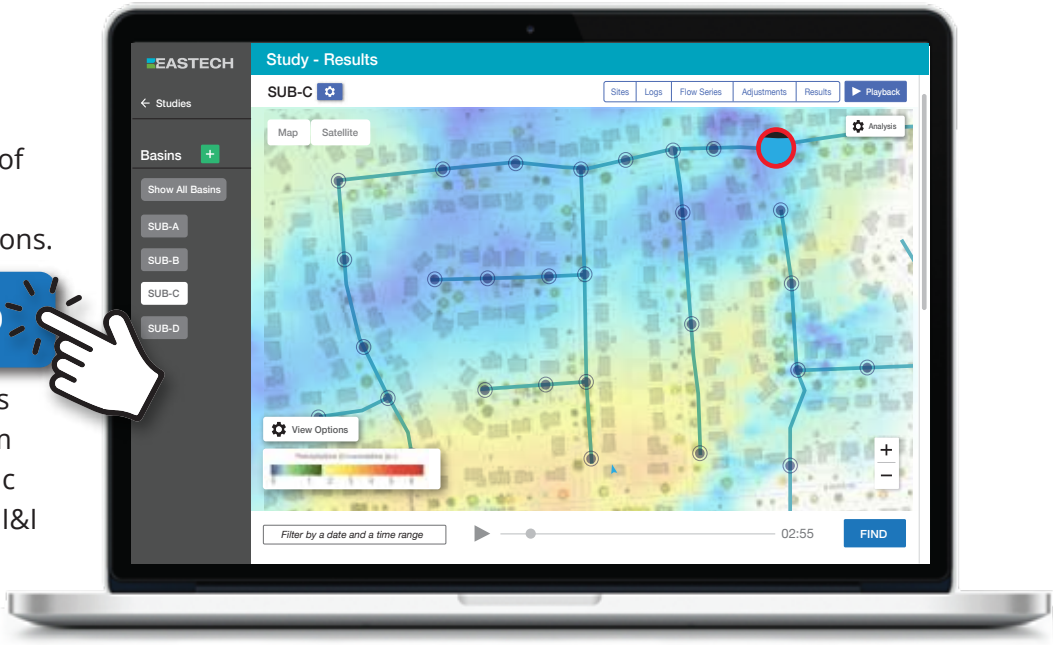
Upload

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, FastTrac analytics will automatically generate animated videos (Playback) and EPA-Guided graphs.

Automated I&I Detection

Data Visualization Videos and Graphs make I&I Detection easy

With **FastTrac'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 or 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.

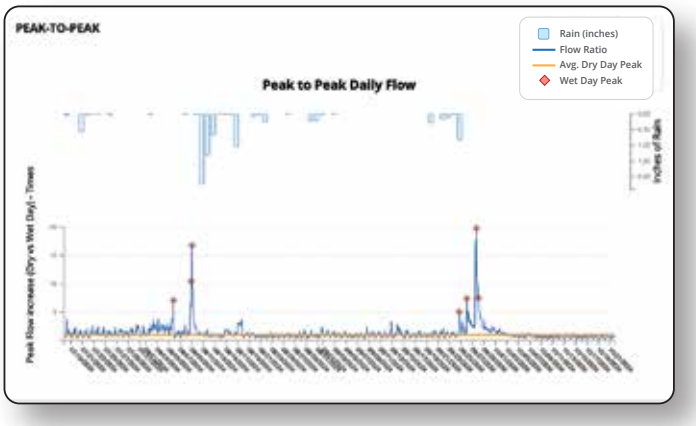


PLAYBACK™

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

PEAK TO PEAK HYDROGRAPH

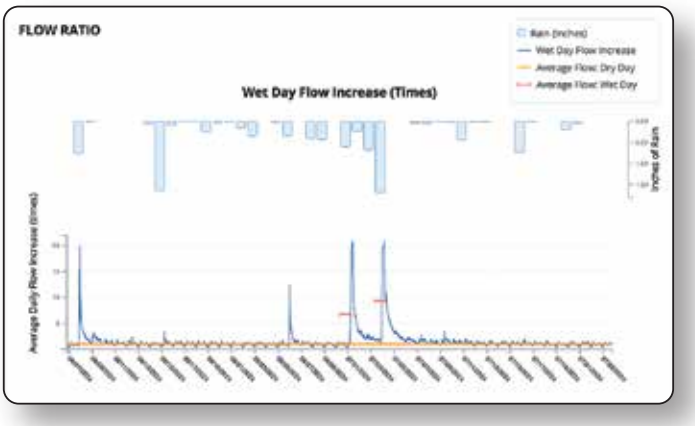
Compares the hourly wet day increase in peak flow "X times" to the average dry day peak flow. Events with excessive I&I are highlighted by a red diamond marker.



PEAK TO PEAK

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).**



DRY vs. WET DAY

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