Oldcastle Infrastructure™
A CRH COMPANY

CIVILSENSE™

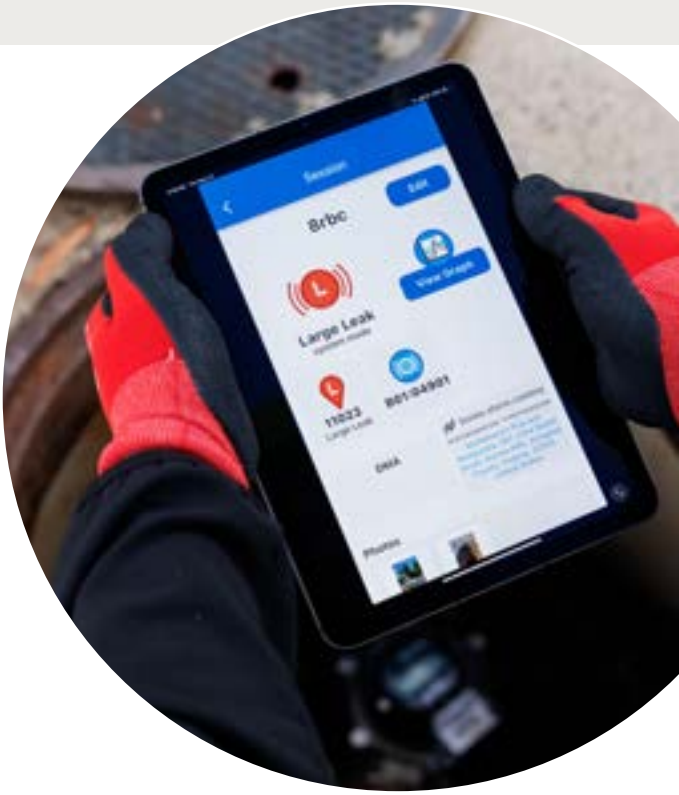
Self-Service Network Monitor

Identify and address issues before they escalate.

Network Monitor is a fixed, subscription-based potable water network monitoring solution that uses IoT-connected sensors and AI to detect and size leaks in pressurized distribution systems. It provides utilities with continuous visibility of their distribution networks, providing a more complete picture of network performance so issues may be identified before they escalate.

How Network Monitor Works

The solution continuously analyzes acoustic and kinetic data from sensors attached to the network to identify leaks, rank them by size, and deliver alerts through our user portal or API. The AI processes thousands of data points in seconds, ensuring rapid detection and accurate classification of anomalies. Users can scale alert frequency or sensor coverage based on seasonal demand, special events, or emergency conditions.



Everything You Need for Continuous Monitoring

- **Sensors:** Compact versatile hardware for high-definition data capture.
- **Predictive AI:** Our market-leading cloud-based algorithm delivers accurate leak detection, size and location results from acoustic and kinetic pipeline data.
- **Relays:** Encrypted dial-home IoT devices for automated data transfer.
- **CivilSense Portal:** Track progress and review all your activity 24/7 on your desktop or via API to your existing platform.

Smarter Monitoring Without the Limitations

Unlike threshold-based or limited-data systems, the solution uses AI trained on water systems across multiple countries, with no data limits, no calibration, and automated clustering of duplicate detections for efficient field investigation. Traditional systems often suffer from noise interference or sampling restrictions, leading to missed leaks or false positives. The solution's optimized sensor deployment minimizes blind spots, ensuring measurable improvements in detection accuracy. Its hardware requires no charging, calibration, or maintenance, reducing operational overhead significantly.

Faster Leak Response, Better Resource Use

Self-service Network Monitor empowers utilities to save water faster by prioritizing impactful leaks, reducing wasted effort, validating repairs, and improving overall operational efficiency with rapid alerting. By accurately pinpoint leaks and ranking them by size, utilities can allocate skilled resources strategically, focusing on the points of greatest economic or environmental impact. The solution's continuous monitoring allows for proactive prevention of large-scale leaks and supports long term asset planning.

Backed By Proven Industry Leadership

Oldcastle Infrastructure is the foundation communities build on.

For more than 50 years we've partnered with our customers to solve North America's biggest infrastructure challenges. Across water, energy, and communications we bring more than 16,000 precision-engineered products, matched with design expertise, maintenance support, and on-time delivery. We innovate in material science, technology, and digital solutions to deliver what customers need today, and for the decades ahead.

As part of CRH, we're backed by one of the largest, most trusted infrastructure companies in the world. Our unmatched scale, experience and product breadth means that we deliver what no one else can—full-scale solutions.





CivilSense™ is an intelligent water platform designed to transform how municipalities, utilities, and engineers manage, protect, and expand their networks. This end-to-end suite of smart water solutions fuses advanced AI, deep industry expertise, and powerful technology into one unified platform designed to help ease water network management. With CivilSense, teams can spot risks before they escalate, predict costly failures and blockages, and unlock new efficiencies across inspection, repair, remediation, and replacement.

Self-Service Network Monitoring Starts Here.

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Trusted partnerships.
Full scale solutions.

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