FORCE MAIN PERFORMANCE MONITORING AND BURST ALERTING

WASTEWATER NETWORKS

Syrinix
A Badger Meter® Brand

Today, when many utilities are faced with aging infrastructure and restricted budgets, a burst on a wastewater force main can have significant consequences for both the utility and the environment. And in more remote areas, bursts can go undetected, resulting in substantial pollution events with heavy costs – both financial and environmental. High-resolution data and precision timing can save time and money and minimize environmental impacts.

PATENTED HARDWARE

Automated burst alerts	Automated burst notifications reduce response times and save money.
External sensor designed to minimize clogging/ ragging	Specifically designed for challenging wastewater environments, data continues to be provided without reduction due to clogging / ragging.
Always-on 128Hz sampling	High-resolution insights allow users to understand asset performance in detail.
High Delivery Pressure Alerts	Provides early notification of blocked wastewater pipelines.
Low Delivery Pressure Alerts	Provides early indication of worn / failing non-return valves and failing pumps.
High Static Head Alerts	Indicates possible trapped air impacting performance / efficiency.
Low Static Head Alerts	Provides early indication of failing non-return valve.

PIPEMINDER ONE
EXTERNAL SENSOR

PROPRIETARY PLATFORM

Powerful highly intuitive "RADAR" user interface	See what you want and need in detail without lengthy training / roll-out programs.
Third party data import and display	Easily import third-party data into RADAR for a "single screen view" including SCADA pump / valve status changes.
Configurable automated filtering and alerts	Avoid data-overload and focus easily on what you need to with customizable alerts to highlight when important changes occur.
Secure cloud-based platform	See what you need to see from wherever you need to see it, auto-scaled for your device.
Customer API and simple data integration / export tools	Easily integrate your network data with simple to use tools and APIs for importing and exporting data sets and alarms.
Advanced GIS and Google Maps integration	Including satellite views and GIS overlay options to see your network as it actually is.

DATA-LED INSIGHT ON YOUR NETWORK

For the Operator

- **Save time**
- **Save money**
- **Focus on what you want / need to see**
- **Respond faster to events**

For the Utility

- **Provide great service**
- **Protect the environment**

"The PIPEMINDER monitor and RADAR platform were very user friendly and easy to install, maintain and evaluate. Syrinix support was excellent."

Dianne Mathews, P.E.
Senior Engineer

Western Lake Superior Sanitary District (WLSSD)

Western Lake Superior Sanitary District

WLSSD provides wastewater treatment for 17 communities and 3 large industrial facilities in a 530 square mile region, treating about 14 billion gallons of municipal and industrial sewage annually.

In 2019, **WLSSD** hired a consultant to evaluate their force mains to identify vulnerabilities in the network; recommendations ranged from $185,000 to a $1 million in capital improvements! To verify the model results, **WLSSD** turned to Syrinix to provide insights based on high-resolution data provided by Syrinix's **PIPEMINDER** monitoring solutions. Syrinix' analysis verified some of the model results while also identifying specific problem areas, including identifying transient events due to power outages. The **PIPEMINDER** captured four significant transient events when the pumps shut down due to a power failure. Transients were documented and showed significant additional pressure on the pipes that could
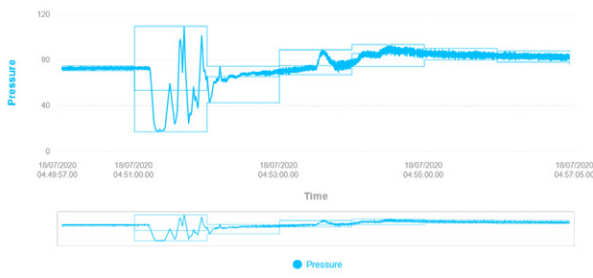

cause a failure if they continued. This data enabled the team to highlight the importance of determining the cause of the outages and to work with the utility to identify the cause and mitigate the problem. Altogether, data-led insights provided by Syrinix technology helped **WLSSD** make informed decisions, save money, and improve system availability.

Read the article in *Water and Wastes Digest* or watch the interview with Dianne Mathews.
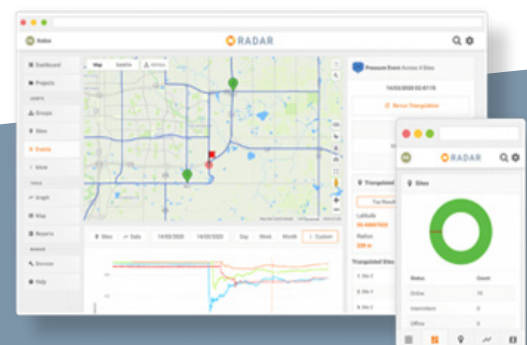
About Syrinix

Syrinix is an award-winning global market leader in developing intelligent pipeline monitoring technologies, including the PIPEMINDER-ONE series for water and wastewater monitoring, the RADAR cloud-based network analysis platform, and Syrinix Intelligence analysis and consultancy services. Syrinix helps cost-conscious utilities move network management from reactive to proactive, detecting and mitigating network issues before they become failures.

www.syrinix.com