

BAXTER & WOODMAN NEWS

Consulting Engineers

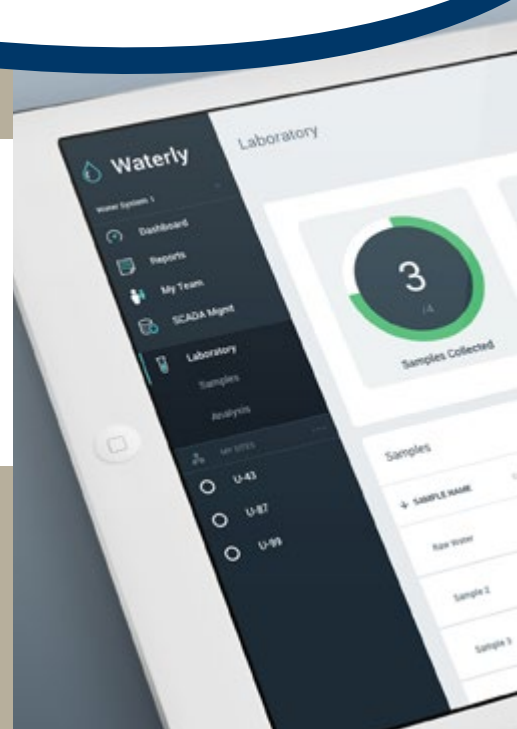
Making a positive difference through innovative engineering solutions

TECHNOLOGY SPOTLIGHT

WATERLY



Collect data on a tablet. Automate your reporting. Take back your time.



Waterly is a subscription-based software data collection and reporting tool designed to help operators easily collect water system data and assemble regulatory and operations reports. Waterly minimizes errors and significantly reduces the time it takes to produce reports. Operators are then able to spend their time actually operating their system, rather than pushing paper.

WHY WATERLY?

Improve efficiency. Eliminate handwritten reporting by collecting data on a tablet. With Waterly, water operators spend less time collecting data and creating reports - allowing more time to manage the water system.

Improve accuracy. Operators can avoid performing calculations by hand on a scratch sheet of paper or spending time scrutinizing a large tabular report at the end of each month. Waterly allows your community to set expected ranges for each datafield and then automatically checks the data live as it is entered.

Improve system insight. How much water did your facility pump during this month last year? How much salt did your facility use in your softening process over the course of the summer? Waterly provides these answers and more with just a few clicks. Through powerful data analytics, you can compile complex system information quickly and easily.

HOW CAN I GET STARTED?

Visit the Waterly website at www.waterlyapp.com or contact Tim Foerster at tim@waterlysoftware.com to schedule a quick Demo.

"This would save me two to three hours per week."

Municipal Water Operator

"This is incredibly useful for small water systems like us. Just about everybody does this by hand right now. Operators are always looking for a better way to do things - and this is it." *Local Mayor*



Visit youtu.be/wewDMkBPuUg to view a short video tour of Waterly.

See how collecting data on a tablet can lead to faster, easier, more accurate reporting.

October 2018

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WATER SYSTEM CHALLENGES

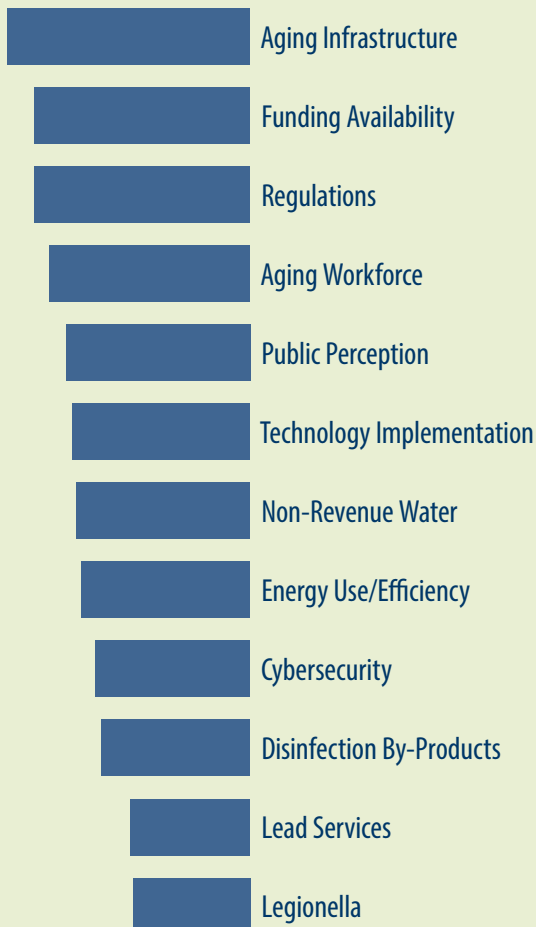
We turn on our faucets many times a day, often without considering some very important questions about the water that comes out of the tap.

Do we have enough? Is it clean? Will it last?

Planning, prioritizing and paying for improvements needed to replace aging water infrastructure in order to meet the current demand and regulations can be a challenge. Baxter & Woodman surveyed water utilities to identify the biggest challenges facing them today. From funding to cybersecurity, discover what hurdles other utilities are working hard to overcome.

Survey RECAP >

CHALLENGES RANKED



3 BIGGEST CHALLENGES

- Aging Infrastructure
- Funding
- Regulations



Public Works Staff cite **Aging Infrastructure** most often as Challenging.

Elected Officials cite **Funding** most often as Challenging.

40%

of respondents are somewhat or very concerned about the **availability of their current water supply.**



Survey Says...

“Training and retaining workforce after turnover from retirements.”

“Public perception and understanding of the true costs of water and infrastructure maintenance.”

“Staff and resources shortage, not enough personnel to fulfill job requirements.”

“It is challenging securing buy-in from Village staff for technology and infrastructure improvements.”

WATER SYSTEM CHALLENGES

A Resource

Danielle Gallet, Water Resource Strategist, Urban Planner and author of *Drinking Water 1-2-3*, offers these suggestions to help communities with their water system and supply concerns.

Why is examining water system supply concerns so important?

What's at stake? Public health and safety, including contamination and service disruptions due to crumbling infrastructure and aging water treatment systems. Municipalities and their residents are finding themselves hard-pressed to pay the escalating costs of collecting, treating and delivering drinking water. Increasing pollution concerns that threaten our drinking water sources. And, yes, some groundwater sources that may be unusable in 5–10 years.

While our water supply issues are significant, *they are fixable*. Local leaders hold the key to making sure our communities are safe and have sustainable drinking water systems now and into the future. If you are a community official, start a proactive dialog with your water managers, public works, planners and finance folks. Work towards embedding 21st century water management best practices into everyday routines.

Drinking Water 1-2-3 Guide offers critical questions we can ask to improve key aspects of our water management. What are some of these questions?

- What current or emerging water pollution issues do we have in our drinking water source(s)?
- How are we keeping track of our drinking water infrastructure conditions to ensure our system remains safe and sustainable?

- Do we partner with our neighboring communities on drinking water issues?
- Do we conduct annual water loss audits? Are we using the approved methodology and free software from the American Water Works Association (AWWA) to conduct those audits?
- Where can we implement rainwater reuse on our municipal properties to reduce demand for drinking water for outdoor irrigation purposes?
- What is our asset management program, and what kind of tools do we use?

MORE RESOURCES

Other resources are available to help with water supply, service, and maintenance challenges:

- <https://www.awwa.org/>
- <https://www.isawwa.org/>
- <http://drinkingwater123.metroplanning.org/> (although this guide was originally created for Northern Illinois water utilities, many of the principles apply to water systems everywhere)



B&W can help...

Committed to protecting and preserving the water supply and staffed by recognized experts in the field, the Baxter & Woodman water group specializes in long-term system planning, design, construction, and operation of water supply, treatment, storage, and distribution systems.

Contact Jerry Groth, PE at ggroth@baxterwoodman.com to discuss how Baxter & Woodman can help your community achieve its water infrastructure investment goals.

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ELKHORN WATER TREATMENT PLANT RECOGNIZED AS A WIAWWA PROJECT OF THE YEAR

The City of Elkhorn's Water Treatment Plant project has been named a 2018 Wisconsin Section American Water Works Association Project of the Year. This award recognizes excellence in engineering, design, or construction in the Wisconsin drinking water industry.

The City of Elkhorn's Centralia Water Facility was aging and in need of replacement. After overcoming several obstacles, including political and financial

constraints, construction began in late fall of 2016 and was completed in 2018.

Elkhorn's new treatment facility includes:

- hydrogen sulfide, arsenic, and iron removal equipment,
- clearwell storage,
- radionuclide reduction with ion exchange softening, and
- chemical feed additions for ammonia removal, arsenic co-precipitation, corrosion control, fluoridation, and disinfection.

The facility also allows for future biological ammonia removal. The biological ammonia removal has the potential for significant cost savings in sodium hypochlorite use.

With the completion of this project, the City will now be able to confidently provide a source of clean, reliable drinking water for many future generations of Elkhorn residents and businesses.

