



MOVING WATER FORWARD

Drinking Water

Tap a private water company for reliable quality and value.

Private water companies have been meeting the essential drinking water needs of millions of people and businesses for generations. Our members are also pioneering efforts to help ensure an adequate supply of safe drinking water for the future.

Every day, in cities and small towns, apartment buildings and offices, nearly 73 million people benefit from the expertise, resources and commitment of a private water service provider. People may not realize all that goes into treating and delivering drinking water that meets or exceeds quality standards, but private water companies do. And they continue to provide this important service and critical resource at a great value.

Forward Thinking

American Water • Seattle, Washington

Successfully responding to the water supply challenges of a major city requires big ideas and the resources to successfully see the project through from inspiration to operation. For the City of Seattle, the solution was provided by American Water. The Tolt Water Treatment plant, a design/build/operate (DBO) project completed by American Water in partnership with the city, provides 30 percent of Seattle's annual water supply.

But it's more than what the new facility provides that makes it innovative. It's what it saves. Through a public-private partnership with the City of Seattle, the project saved \$70 million based on the city's own estimates.

Forward thinking allowed for the creation of a treatment plant featuring an efficient design and smaller footprint. That meant an immediate savings in materials and construction costs as well as ongoing savings due to more efficient energy consumption.



SCOPE:

First major DBO project in the U.S., provides 30 percent of Seattle's annual water supply

SAVINGS:

Project saved \$70 million for the City of Seattle

DETAILS:

www.amwatersolutions.com

DRINKING WATER FACTS

- Private water systems produce 4.6 billion gallons of water every day, or about 1.7 trillion gallons per year.¹
- One billion dollars invested in water infrastructure can support 28,500 jobs.²
- Drinking water systems face an annual shortfall of at least \$11 billion in funding needed to replace aging facilities to comply with federal water regulations.³
- Approximately 7 billion gallons of treated drinking water is "lost" per day, primarily due to leaks in drinking water pipelines.

¹ U.S. Environmental Protection Agency, 2000 Community Water System Survey

² U.S. Conference of Mayors, Associated General Contractors of America

³ American Society of Civil Engineers "Report Card for America's Infrastructure" 2009

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Quality Assured

SouthWest Water Company • Silver Plume, Colorado

Advances in technology have made drinking water safer as well as more cost efficient to treat and deliver over the years. But innovative technology only works when it is put into practice, and that's exactly what SouthWest Water Company did for the small community of Silver Plume, Colorado.

SouthWest Water saw that the treatment process that was in place no longer met new, stricter surface water regulations. It also did not have the capacity to meet the community's needs. SouthWest Water implemented a solution that addressed both of these concerns—a microfiltration facility that is as innovative as it is easy to operate and maintain.

Today, the drinking water treated and delivered by the facility meets or exceeds state and federal drinking water standards. Operation of the system requires only a few hours of on-site work once per week, and quality is assured through remote access of the Supervisory Control and Data Acquisition (SCADA) system that operates the facility.



SCOPE:

0.2 million-gallons-per-day facility

METHOD:

Sodium hypochlorite and microfiltration membranes

DETAILS:

www.southwestwater.com

Efficiencies Delivered

Aqua Maine • Rockport, Maine

When it comes to drinking water, most Americans are fortunate enough to be able to turn on a faucet and enjoy immediate access. How that water gets there is a more complex process that requires significant infrastructure.

In 2010, Aqua Maine opened a state-of-the-art water filtration system in Rockport, Maine to help ensure that their nearly 8,000 customers had access to the best water available. With help from federal and state grants, the plant was designed to exceed new environmental regulations, and did so on-budget and on-schedule while creating filtration efficiencies, reducing the amount of water wasted, and employing a smaller building footprint while delivering a better product to consumers. Beyond the water-based improvements, the facility contains solar panels for a “green” way to support increased power needs. The facility also meets LEED standards.

The efficiencies delivered by the new Rockport facility reduced the size of a rate increase that would otherwise have been necessary to ensure adequate safe water.



SCOPE:

New state-of-the-art filtration system serving 8,000 customers

SAVINGS:

Efficiencies resulted in reduced projected rate increases

DETAILS:

www.aquaamerica.com

About the NAWC: The NAWC is the voice of the private water industry and the only organization that represents this group of quality water service providers, innovation drivers and responsible partners. In conjunction with our members, we engage with others looking for fresh and powerful solutions to water-related challenges.

We invite you to contact us to learn more about the private water industry and the solutions our members are creating. Together, we're moving water forward.

CALL: 202.833.8383 to speak about a wide range of water issues

VISIT: www.nawc.org for access to additional resources

JOIN:    for the very latest information

