

## UV Disinfection Gaining Popularity for Potable Water

The City of Milbank, SD, is the latest installation in South Dakota for the TrojanUVSwift™ Disinfection System designed specifically for the potable water market. The UV Disinfection System was a part of a pump station and chemical building project engineered by Banner Associates, Inc., and installed by KHC Construction of Marshall, MN.



Milbank, SD turns to Trojan UV for disinfection

chlorine, provides a multiple barrier protection strategy against the pathogens Cryptosporidium and Giardia.

The TrojanUVSwift is a medium-pressure, high intensity reactor contained in a very small footprint. The UVSwift was selected because of the Acti-Clean Dual Action Cleaning System that reduces O&M costs by as much as 30%. This patented system from Trojan utilizes a

The City of Milbank currently draws ground water from a well but also has a second source from a nearby spring. Although the SD DENR deemed the spring water source to be considered groundwater, the City of Milbank and Banner & Associates decided to be proactive and design a UV disinfection system to eliminate public safety concerns typically associated with surface water sources. The UV disinfection system, combined with a small dose of

combination of chemical and mechanical cleaning to automatically remove deposits on quartz lamps and sensor sleeves. The dual action cleaning system is approximately 50% more effective than mechanical wiping alone, which translates into better lamp performance, more reliable dose delivery, and reduced O&M costs related to manual bulb cleaning. This is the third UVSwift System installed in the State of South Dakota.

## Economic Dryer Works Wonders in Fairmont, MN

Engineering America, Inc., is proud to announce that the Fenton dryer at Fairmont, Minnesota, is producing Class A Biosolids. The MPCA certified the Class A status in October as part of the city's permit.

The dryer was started up in June 2006 as part of a larger plant expansion designed by Howard R. Green Company. Gridor Construction, Inc. was the general contractor.

The engineer and city officials selected Fenton Model RK36 because the indirect batch dryer was clearly the most economical means of producing Class A Biosolids, due to the smaller size of the dryer and the building required to house the system.

Fairmont is presently drying two batches of 24 percent solids three days per week, for a total of about 265 dry tons per year. The Class A Biosolids being generated are 90 percent dry.

The city is encouraged because two nearby golf courses have expressed a strong interest in the product after lab testing, according to Fairmont Public Works Director Butch Hybbert.



Fenton Model RK36 dryer in Fairmont, MN

*Expansion  
project with  
Aquastore®  
Glass-Fused-  
To-Steel  
ground storage  
reservoirs has  
positive impact  
on production  
and storage  
capabilities.*

## **EAI Completes Large Water Storage Expansion for Kingbrook Rural Water**

Engineering America, Inc. recently completed a large water storage expansion project by adding three new Aquastore® Glass-Fused-To-Steel ground storage reservoirs totaling 1,271,000 gallons for Kingbrook Rural Water System located in Arlington, SD. The expansion was engineered by DeWild Grant Reckert of Rock Rapids, IA.

Planning for the expansion began back in 2005 when high water demands in the summer months almost exceeded the production and storage capabilities of the rural water system. The expansion added new ground storage reservoirs

near the cities of Junius, Chester, and Lake Preston. Kingbrook Rural Water now has a total of seven (7) Aquastore Glass-Fused-To-Steel Tanks erected by EAI dating back as far as 1984. The Kingbrook Rural Water system currently serves over 3000 individual rural customers in eastern South Dakota. None of the Kingbrook Aquastore tanks has ever required painting and they never will.



**Kingbrook Rural Water's  
Junius Tank**



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## **Upcoming Trade Shows and Events**

- **March 4-6: Minnesota Rural Water Association Annual Technical Conference – St. Cloud, MN**
- **March 28: Minnesota Pollution Control Association Waste Water Operators Conference – Northland Inn, Brooklyn Park, MN**
- **April 9-11: Wisconsin Rural Water Annual Conference – Green Bay, WI**
- **April 21-24: National Rural Water Rally – Washington, DC**
- **May 19-21: Central States Annual Meeting – Bloomington, MN**
- **June 8-11: AWWA ACE National Water Conference – Atlanta, GA**
- **July 22-24: Minnesota Waste Water Association State Conference – Mankato, MN**
- **Sept. 15-19: Minnesota AWWA Annual Water Conference – Duluth, MN**