Inside:

St. Louis Park water supply remains reliable despite challenges

Minnesota Department of Health implements virus study
CASE STUDY

Winona's Wincrest Water Tank Continues to Perform Well

Installed: 2008
Tank Type: Composite Elevated Tank
Storage Capacity: 400,000 Gallons
Engineer: Short Elliott Hendrickson
Contractor: Engineering America

PROJECT OVERVIEW:
Engineering America crews completed the Wincrest water tower in August 2008 for the city of Winona, Minnesota. The 143-foot-tall structure has a capacity of 400,000 gallons and serves the far southwest quadrant of the city.

A life cycle maintenance analysis studied the cost of painting a welded steel water tower over a 50-year life cycle. City officials awarded the project based on a present worth analysis that showed a substantial savings by using Engineering America's Aquastore composite glass-fused-to-steel elevated tank.

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It is that time of year again where dreary white becomes brilliant green, the ice on the lakes melts to uncover the blue waters beneath, and the flags get inserted into the holes on the greens, signaling the opening of the many wonderful golf courses across the state. Then I realize that by term as chair of the section is more than half complete. Where does the time go?

The section leadership has been incredibly busy providing the many opportunities for members to receive training and information, provide opportunities to participate in charitable events benefitting Water For People, and take advantage of opportunities to hone their skills to better serve all members of the Minnesota Section. While there are many activities ongoing and completed, I will highlight just a few in this issue of the Breeze.

**Upper Midwest Regional Meeting of Section Officers**

Early April brought section leaders from many sections across the upper Midwest together in Des Moines, Iowa, to meet and discuss association initiatives and to share section experiences. The goal is to exchange ideas on how to better serve all of our members. Minnesota was well represented with a total of seven members making the trip.

**Water For People concert**

The Water For People concert was held on April 26 at the Medina Ballroom. Two bands provided great rock and country music for all the attendees, who were treated to great food, music, and fun. If you have not attended one of these, I recommend giving it a go in the coming years. Look for golf, running, and motorcycle rides this summer for additional opportunities to support Water For People.

**Training and other events**

Many of the districts across the state held operator schools, and many more are upcoming. I have participated in several of these and am amazed at the great training experience provided by the organizers. Please continue to support these schools as they provide an essential service to the drinking water industry in Minnesota.

Also, the Midwest Regional Water Utility Management Institute was held in March of 2014. This opportunity is sponsored by Hamline University in addition to the section and other water and wastewater organizations in Minnesota. This training benefits those already in or interested in becoming water managers in the state.

Jon Eaton, section director-elect and Dave Wagner, chair of the Water Utility Council, attended the annual Fly-in to Washington, D.C. They met with the staff in the office of each and every Senator and Congressional representative who represent Minnesota in our nation’s capital. Jon and Dave explained our industry’s priorities and why certain current legislation is important to the Minnesotans these people represent.

We have an incredible group of water professionals working on behalf of you, our members, volunteering countless hours to make our section great and providing all with the tools to succeed in your community. I look forward to my remaining months as chair working with all to move the section forward. •
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ACE on horizon

ACE 2014 is on the horizon. It will be my last official AWWA board of directors meeting and event. Although the director position has taken quite a bite out of my schedule, it was worth every minute of it. Being allowed the opportunity to work with AWWA on the association level has been insightful and rewarding. Much like the section board, I will be coming away from this with many new friends. Now they are from all across North America. I want to thank the Minnesota Section and my employer (St. Cloud Technical & Community College) for allowing me the time and supporting me through this term of office.

As a board member I was given the opportunity to participate in several new projects in the past three years. Some of the highlights have been the new AWWA Strategic Plan, including total water solutions; the not-so-popular change to life membership; WIFIA, which has been a major undertaking; and SP2, a large project that is moving forward. Projects for our next director are the affiliation agreement with Engineers Without Borders and ASCE and the India project, allowing AWWA to branch out into new territory.

Minnesota will be in excellent hands in the future with Jon Eaton stepping into my position as director in June 2014, and Minnesota AWWA will also be represented by Uma Vempati as director-at-large. Jon’s long-time involvement with AWWA will provide Minnesota with excellent representation and leadership at the association level. We know how he likes numbers. Uma has the desire, drive, and energy (wish I were his age) to be a key asset to AWWA as the move into India progresses and his engineering expertise with the new agreement mentioned earlier.

In closing, it is obvious that the Minnesota Section will be in great hands into the future. Thanks again for granting me this opportunity to represent Minnesota on the board of directors.

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Summer is upon us

It’s summer (almost). Here is the directory issue with the names and contact information of the who’s whom of Minnesota water. Use it for good and not evil.

Message from the Editor

Summer is upon us

It’s summer (almost). Here is the directory issue with the names and contact information of the who’s whom of Minnesota water. Use it for good and not evil.

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Financial report
As of March 2014, section income for the year was $30,070 and expenses were $34,855 for a net loss of $4,785. Investments were up since the beginning of the year by $6,295 for a total net gain of $1,511. Through December 31, 2013 the balance of the reserve fund was $216,172.52, and the balance of the David Morris Endowment fund was $247,687.20 for a combined value of $463,859.72. The funds had an overall gain of $35,220 in the fourth quarter of 2013.

Regional meeting of Section Officers
Mona Cavalcoli, Lucas Martin, Uma Vempati, Bill Spain, Chris Voeltz, Jim Jones, and Jeff Larson went to Des Moines for the Regional Meeting of Section Officers for Region III, which contains Minnesota, North Dakota, South Dakota, Iowa, Wisconsin, Illinois, Indiana, Michigan, Ohio, and Ontario. The key presentations were on the new strategic plan, philanthropy and collaboration, legislative issues, the new Community Engineering Corps, and membership.

Upcoming Water For People events include golf on May 22, the 5K run on August 8, and the motorcycle ride August 16.

Adam Markos, the membership chair of the Young Professionals Committee, attended the AWWA membership summit in January. Young Professionals Committee chair-elect Jeff Blakely attending the Young Professionals summit in Savannah, Georgia, in February.

Kevin Young of Moorhead Public Service is the new chair of the Scholarship Committee, succeeding Doug Klamerus.

Board highlights

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Proclamation

Advocate the Value of Professional Careers in Water

WHERE AS the following organizations desire to promote skills, knowledge and expertise in today’s water and wastewater industry workforce, and;

WHERE AS this workforce is a critical link to protect public health and the environmental protection of our waterways, and;

WHERE AS the skills, knowledge and expertise embedded in the industry should be respected for its complexity and critical infrastructure responsibilities, and;

WHERE AS it is desired that these workforce positions be viewed as a professional career path for the next generation, and;

WHERE AS the organizations listed below provide leadership and continuous communication to the industry, agencies and the public, thus;

THEREFORE from this day henceforth, will endeavor to project the workforce position of operations personnel as WATER SYSTEM OPERATIONS SPECIALISTS and as WASTEWATER SYSTEM OPERATIONS SPECIALISTS in publications, reports and verbal communications,

We hereby set forth our commitment to this proclamation in the year 2014.

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Minnesota Section of the American Water Works Association
Minnesota Wastewater Operators Association
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4. Special efforts in the training of treatment plant operators.
5. Special acts not directly related to water treatment, but which demonstrate dedication to the public beyond the normal operating responsibilities.
6. Consistent and outstanding contribution to operation and/or maintenance of distribution lines, pump stations, and reservoirs.

**Volunteer of the Year Award**

**Purpose of the Award:** To recognize a member of the American Water Works Association (AWWA) who is exemplary in volunteering their time to the Minnesota Section through active participation in programs or service for a committee, council, or district.

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Incorporated as a village in 1886 and taking on the status of a city 68 years later, St. Louis Park is a suburb to the west of Minneapolis. It has been home to sports announcer and writer Halsey Hall, filmmakers Joel and Ethan Coen, senator and comedian Al Franken, football coach Marc Trestman, and New York Times columnist and author Thomas Friedman.

Well drillers and plumbers who also made St. Louis Park their home and center of business operations played a major role in the development of a public water system that now serves 49,000 residents. McAlpine Well Company was formed in 1922 and located at 1333 Kentucky Avenue, near Wayzata Boulevard (now Interstate 394). Plumber Gust Hoglund began operations from his home in St. Louis Park in 1924, and within 10 years the village passed its first plumbing ordinance and had its first connection, by the Church of Holy Name, to the municipal water main. The Motzko family, now in its third generation of operation in St. Louis Park, was responsible for many of the early connections to the water supply.

E. H. Renner & Sons, currently located in Elk River, Minnesota, was started in...
“Today, St. Louis Park supplies water to residents from nine active wells, ranging in depth from 286 to 1,095 feet and drawing from the Prairie du Chien-Jordan, Mt. Simon-Hinckley, Jordan-St. Lawrence, Platteville, and St. Peter aquifers.”

St. Louis Park. The well-drilling company’s current president and chief executive officer, Roger Renner, was born into the firm in 1949, along with his twin brother, Ray, who is now the firm’s vice president. The family home and company headquarters then co-existed at 5800 Goodrich Avenue as the company was heading into its third generation of family leadership at the time and was already prominent in providing water to the rapidly growing area.

Today, St. Louis Park supplies water to residents from nine active wells, ranging in depth from 286 to 1,095 feet and drawing from the Prairie du Chien-Jordan, Mt. Simon-Hinckley, Jordan-St. Lawrence, Platteville, and St. Peter aquifers. The city used sand filters to reduce iron and manganese levels, but over time it became apparent that more was needed to keep the water safe.

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A retention pond on 32nd Street and Oregon Avenue frequently overflowed and flooded adjacent homes. In the spring of 1965, the water also overwhelmed a lift station and drew a pair of nearby residents (the smaller of the two is now the editor of the Waterline). The city pumped the water to higher ground through a 12-inch pipe and found that the system wasn’t child-proof. A local miscreant (not one of the two shown in the photo) unscrewed one of the caps on the pipe, resulting in a geyser, shown in the picture on the left with Republic Creosoting in the background.

32nd Street and Louisiana Avenue. Republic Creosoting distilled coal tar and made a variety of products, including creosote that was used to treat rail ties and other lumber at the site. The area was sparsely populated initially, but as the community grew following World War II, the appearance and odors of the site became a cause of increasing concern to residents as well as city and state officials.

The Minnesota Department of Health (MDH) issued a report on the site as far back as 1938, noting pollution at the site from the creosote operations. By this time, problems were evident as St. Louis Park had already closed its first municipal well because of odor problems and a coal-tar taste.

In 1970 the newly created Minnesota Pollution Control Agency (MPCA) sued Reilly Tar and Chemical; two years later, St. Louis Park purchased the land and took over responsibility for the cleanup. The site was deeded to the city’s housing and redevelopment authority and portions of the site later sold to private parties, who constructed a...
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St. Louis Park added granular activated carbon treatment to its plant in Bronx Park and to another plant in the southern part of the city.

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As the property became one of the first Superfund sites in the country in the early 1980s, the MPCA amended its original lawsuit against Reilly Tar and Chemical; in addition, city, state, and federal agencies pursued legal and administrative actions. Reilly hired a consulting firm in Pittsburgh to help it deal with the lawsuits, and a young geologist named Bill Gregg got his first exposure to the issue. More than 30 years later, Gregg is still working on it. “This is my career project,” he said. The parties to the lawsuit reached a consent decree/remedial action plan in 1986, prompting Gregg to move to the Twin Cities, and he has continued to work with the company and St. Louis Park even
while changing employers. For the past three years, Gregg has worked for Summit Envirosolutions, Inc. of St. Paul.

For decades the woodtreating process left lumber dripping with creosote that percolated into the water table. On-site waste disposal was through ditches that flowed to an adjacent wetland. Beyond that was the discovery on the site of an abandoned production well from 1917 that Gregg characterizes as “a poster child for the well code.” A down-hole camera in the well detected openings in the casing that allowed for contaminants to enter the Prairie du Chien aquifer. “If not for this well,” Gregg said, “a lot of the problems wouldn’t exist.”

Initial sampling was performed by MDH on St. Louis Park water in 1978, and several wells exceeded the guideline limit established by the World Health Organization. As a result, the city shut down six wells over the next three years, causing supply issues and resulting in water restrictions in St. Louis Park.

In 1979 MDH found a significant increase in breast cancer in women in St. Louis Park but concluded in a report to the Minnesota legislature six years later that it was unlikely that it was related to water contamination. “Neither the 1978 testing by MDH nor the subsequent testing that continues to this day has detected cancer-causing chemicals in the city’s water supply wells above safe levels,” Gregg emphasized.

However, one recommendation of the report was the creation of a statewide cancer surveillance system “to enable the systematic collection and analysis of cancer incidence data.” The Minnesota Cancer Surveillance System was established on January 1, 1988, and all cancers in Minnesota residents are reported to the Minnesota Department of Health.

Treatment
Dealing with supply issues and eventually treating the water to remove creosote chemicals was a major task for longtime water superintendent Scott Anderson, who recently retired; it is an ongoing one for Anderson’s successor, Jay Hall, and others in the utility, such as supervisors Bruce Berthiaume and John Laumann.

The city has added two water treatment plants with granular activated carbon (GAC). One, constructed in 1985, is located in the well field by Bronx Park, off Minnetonka Boulevard and Jersey Avenue. Hall said that water from two of the wells on the site passes through the sand and carbon filters. The other GAC plant, built in 1991, is in the southern part of the city, at 41st Street and Natchez Avenue, near the border with Edina.

Carrying on
With the consent decree nearing its 30-year anniversary, some objectives have been achieved, but the creosote remains buried at the site. “St. Louis Park groundwater will probably continue to require testing long into the future,” says Gregg.

The St. Louis Park Historical Society, which in 2001 produced a book on the city’s history titled Something in the Water, wrote, “Having a creosote plant in our town has been a mixed blessing. Of course there was the smell in the air, the taste in the water, and the fear of a health risk. On the other hand, the plant provided much-needed employment for many people over a period of some 65 years and produced valuable building products instrumental to the early growth of St. Louis Park and area railroads. It’s gone now, cleaned up and decontaminated—in fact, St. Louis Park has some of the most tested water in the state. But there are still some who wonder if there is ‘something in the water.” •

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P: 763-323-3560  
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New Prague Utilities  
Commission  
118 Central Ave N  
New Prague, MN 56071-1534  
P: 952-758-4401

New Ulm Public Service  
310 1st St NE  
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Nicol, Bob  
Infrastructure Products, Inc.  
10110 28th Ave N  
Plymouth, MN 55441-3217  
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2700 Blue Waters Rd Ste 100  
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P: 651-256-2452

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dave@waterthinktank.com

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Oswald, John  
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Paxton, Timothy  
4709 Woodstock St S  
Fargo, ND 58104-4246  
P: 701-797-7294  
timothy.paxton@gmail.com
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Our concern for the environment is more than just talk

As we continue to deliver valuable information through the pages of this magazine, in a printed format that is appealing, reader-friendly and not lost in the proliferation of electronic messages that are bombarding our senses, we are also well aware of the need to be respectful of our environment. That is why we are committed to publishing the magazine in the most environmentally-friendly process possible. Here is what we mean:

- We use lighter publication stock that consists of recycled paper. This paper has been certified to meet the environmental and social standards of the Forest Stewardship Council® (FSC®) and comes from responsibly managed forests, and verified recycled sources making this a RENEWABLE and SUSTAINABLE resource.
- Our computer-to-plate technology reduces the amount of chemistry required to create plates for the printing process. The resulting chemistry is neutralized to the extent that it can be safely discharged to the drain.
- We use vegetable oil-based inks to print the magazine. This means that we are not using resource-depleting petroleum-based ink products and that the subsequent recycling of the paper in this magazine is much more environment friendly.
- During the printing process, we use a solvent recycling system that separates the water from the recovered solvents and leaves only about 5% residue. This results in reduced solvent usage, handling and hazardous hauling.
- We ensure that an efficient recycling program is used for all printing plates and all waste paper.
- Within the pages of each issue, we actively encourage our readers to REUSE and RECYCLE.
- In order to reduce our carbon footprint on the planet, we utilize a carbon offset program in conjunction with any air travel we undertake related to our publishing responsibilities for the magazine.

So enjoy this magazine...and KEEP THINKING GREEN.
When making purchasing decisions about products and services in the wastewater industry throughout Minnesota and beyond, please support the companies whose advertising makes the Breeze magazine possible. You will find them quickly with our convenient, easy to use Buyers’ Guide. On the following pages, you will find information that will help you meet your purchasing requirements throughout the year ahead. The initial section of this Guide lists categories of products and services along with the various companies that can provide them to you. The following section provides an alphabetical listing of those companies, as well as the contact information you will need to reach them.

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In memoriam

Phil Zollinger, water plant supervisor at St. Paul Regional Water Services, died March 6 at the age of 57. Phil had a heart-related issue at work and was taken to the hospital, where he died. Phil began in public works for the city in 1996 and came to the water utility in 1996. He was promoted to water maintenance supervisor in 2004 and water plant supervisor in 2009. Phil also chaired the Minnesota AWWA Safety Committee.

Dave Schuler, the chief engineer for St. Paul Regional Water Services died of cancer April 18 at the age of 61. He worked for the utility for nearly 35 years as a chemist, water quality specialist, water quality manager, and chief engineer.

New public health sanitarians

The Drinking Water Protection Section of the Minnesota Department of Health has a new pair of public health sanitarians who are working on the virus monitoring pilot study.

Dane Huber (on the left in the photo) is from Northfield and graduated from St. Olaf College in 2006 with a degree in biology and environmental studies. He has worked in the Inorganic Chemistry Unit in the MDH Public Health Laboratory as an environmental analyst. Dane’s other work experience includes an internship with Ramsey County as an environmental resource technical intern and two seasons as a fly-fishing guide at a remote Alaskan lodge near Bristol Bay.

Jared Schmaedeke is from Matteson, Illinois, a southern suburb of Chicago. He worked as a hazardous materials technician for Environmental Restoration LLC, transferring chemicals and cleaning up a variety of spills from semi-trucks being destroyed by trains. He has also inventoried storage tanks (above-ground and underground) and worked with hazardous materials for a Fortune 500 company.

For a full agenda, visit www.awwa.org/ace14
Governor Mark Dayton proclaimed May 4-10, 2014 as Safe Drinking Water Week in Minnesota, and representatives of the Minnesota Department of Health (MDH), the Minnesota Section of American Water Works Association, and the Minnesota Rural Water Association met with Yvonne Prettner Solon, the lieutenant governor. During the week MDH released its annual drinking water report, which notes the 40th anniversary of the federal Safe Drinking Water Act. It also covers the results of monitoring done in the past year, and is online at http://www.health.state.mn.us/divs/eh/water/com/dwar/report2013.pdf.

As part of the SDWA anniversary, MDH produced a short video on the significance of this landmark federal legislation. The video features former governor Al Quie and former vice president Walter Mondale, both members of Congress when the act was passed, as well as Congresswoman Betty McCollum and Steve Schneider of St. Paul Regional Water Services. The video is online at http://youtu.be/inLZwGZSvSc as well as through health.mn.gov/water. It can also be accessed with a QR reader by scanning the image below.

From the Waterline, Minnesota Department of Health

Steve Schneider, Minnesota AWWA; Aggie Leitheiser, Minnesota Department of Health; Lt. Governor Yvonne Prettner Solon; Robyn Hoerr, Minnesota Rural Water Association.
Minnesota Department of Health implements virus study
By Anita Anderson and Lih-In Rezania, Minnesota Department of Health

Background
The Minnesota Department of Health (MDH) has implemented a study of viruses in groundwater by conducting virus monitoring on a set of representative public water supply wells. This study was requested by the Minnesota legislature and is currently funded for two years through the Clean Water Fund.

Waterborne viral illness outbreaks have been associated with groundwater sources. In addition, it is unknown whether these viral contaminants are responsible for a significant portion of endemic (non-outbreak) illnesses or if they are responsible for outbreaks with no known cause. National surveys have shown that approximately 30 percent of drinking water wells may be contaminated with human pathogenic viruses. MDH would like to determine if this national occurrence rate is a good estimate of virus contamination in Minnesota or if the following factors might lead to a different incidence rate in our state:
- the requirements of the Minnesota Well Code
- management practices for contaminant sources
- unique climatologic or geologic factors

Some of you may remember participating in a virus study in the late 1990s. The current study will cover a wider range of well characteristics and use improved virus detection techniques that are now available.

Year one
The first year of the study will involve bi-monthly sampling at approximately 75 public water systems. These public water systems were randomly selected from a list that represents year-round, non-disinfecting, groundwater public water systems in Minnesota. This sampling should allow us to get the big picture of virus occurrence in Minnesota and will help determine what sources should be sampled in the second year of the study.

If we discover that viruses are a problem in Minnesota, we would like to be able to predict which sources are most likely to be subject to contamination. Viruses behave differently from bacteria, so the coliform bacteria sampling that is currently conducted is often not a good indicator of virus occurrence. Existing regulations do not require continuous disinfection of all public water supplies, but groundwater supplies that are subject to contamination need to provide treatment to protect public health. Virus analysis is expensive; therefore, we would like to be able to use other tools to predict virus occurrence. Additional data will be collected on the wells being sampled in order to refine MDH’s methodology for identifying wells that are at risk to pathogen contamination. The data will help by linking the presence of viruses in a groundwater source to factors such as well construction, geologic sensitivity, and chemical and biological water quality parameters.

Year two
A parallel study starting in May of 2015 will evaluate the association between source water virus concentration and community acute gastrointestinal illness incidence rate. Community illness will be tracked in study communities and related to the presence and type of viruses in source water.

Summary
The work of this project will provide information critical to determining if virus contamination presents a human health risk in Minnesota groundwater. The data generated will be used to identify critical factors that contribute to the protection of drinking water sources and to reduce the public health risk should pathogens be present.

2014 Drinking Water Institute to be held in St. Paul

Water Works! A Drinking Water Institute for Educators will be held at Minncor Industries this summer from Monday, August 4 to Wednesday, August 6. Each year Minnesota science teachers attend the three-day Institute, learning about drinking water and about ways to develop inquiry-based activities that can be incorporated into their existing science curriculum. The program is free to interested teachers, who will receive college credit for their participation.

Water Works! is sponsored by the Minnesota Department of Health and the Minnesota Section of AWWA and is conducted through a partnership with Hamline University’s Center for Global Environmental Education.

More information is available on the MDH website at health.mn.gov/water/institute/index.htm.
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<td><a href="http://www.pollardwater.com">www.pollardwater.com</a></td>
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<td>800-992-1275</td>
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<td>763-559-2837</td>
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<td>763-541-4800</td>
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<td>888-320-4292</td>
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To reach water professionals through Breeze magazine and its targeted readership, contact Darrell at your earliest convenience to discuss your company’s promotional plans for 2014/15.

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