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IN THIS ISSUE



- 5** From the SDARWS President
- 7** SDARWS Events Calendar
- 9** SDARWS Staff Directory
- 11** SDARWS Membership Corner
- 13** ATC Call For Papers
- 15** 2018 Rural Water Open Recap
- 18** ATC Award Nominations
- 21** Assisting Centennial Hills Homeowners Association
- 22** USDA Rural Development: Modern Infrastructure is Foundational for Quality of Life
- 23** Where There's Smoke...
- 25** The Importance Of Calling Before You Dig
- 26** NRWA Affinity Program: Bailey Special Risk Cyber Insurance
- 27** Confined Spaces – Know What You Are Getting In To
- 29** Getting in a New Groove
- 31** A Day in the Life of a Circuit Rider: Nick Jackson
- 32** Photos From the Field
- 33** Certification Questions
- 34** From the Executive Director



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FROM THE SDARWS PRESIDENT

RON GILLEN, SDARWS PRESIDENT

WATER PRO

The Early Bird Deadline to register for the WaterPro Conference in Fort Worth, Texas September 17-19, 2018 is August 17, 2018. NRWA puts on a fantastic show which brings in hundreds of vendors and hosts informative training sessions in operations, management, boardsmanship and governance for those involved in water and wastewater utility systems – large and small, municipal and rural. WaterPro features expert speakers from across the water/wastewater industry. Want to hear about new USDA projects or EPA priorities? You can find out at the WaterPro Conference. The WaterPro exhibit hall is filled with vendors and service-providers dedicated to offering high-quality solutions for small and rural water utilities. Find out about all the best solutions for rural water today and tomorrow. For more information on this conference, including registration and hotel reservations, please visit waterproconference.org.

WASTEWATER TECHNICIAN POSITION

SDARWS was recently awarded a second Wastewater Technician position from NRWA. We are currently in the hiring process and hope to have a new employee in place soon. If you are interested in learning more about this position, you will find a job description posted on page 11, or you can visit www.sdarws.com/assets/wastewater-technician-west.pdf for a complete description.

LEADERSHIP SEMINAR

Association staff are busy getting ready for our Annual Leadership Seminar which will be held at the Best Western

Ramkota Hotel in Pierre November 14-15th. This seminar is geared towards Rural Water System Directors and Board Members and includes informational sessions on water rates, asset management, sustainability, financing, and director and manager panels. The cost to attend Leadership is \$160, and includes a meal at the President’s Reception on the evening of November 14th. Members of WaterPro will receive a \$20 discount. Registration for this event will be available on our website at www.sdarws.com, or by calling the SDARWS office at 605-556-7219. Stay tuned for the agenda in the next issue of *ServiceLine*.

ATC CALL FOR PAPERS

SDARWS is looking for presentations for our Annual Technical Conference in Pierre January 8-10, 2019. The ATC is our biggest training event of the year and hosts around 400 individuals. If your company is interested in hosting a training session, please submit your abstract online at: www.sdarws.com/annual-conference.html. For more information, please see page 13.

ATC AWARD SUBMISSIONS

There are only a few more short months before the snow flies, so that means it's time to get in your award nominations for the ATC! Check out the categories on page 18, and get your submissions in before the September 15th deadline. If you have questions on awards, please give the SDARWS Madison office a call at 605-556-7219. ♦

NRWA

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waterproconference.org

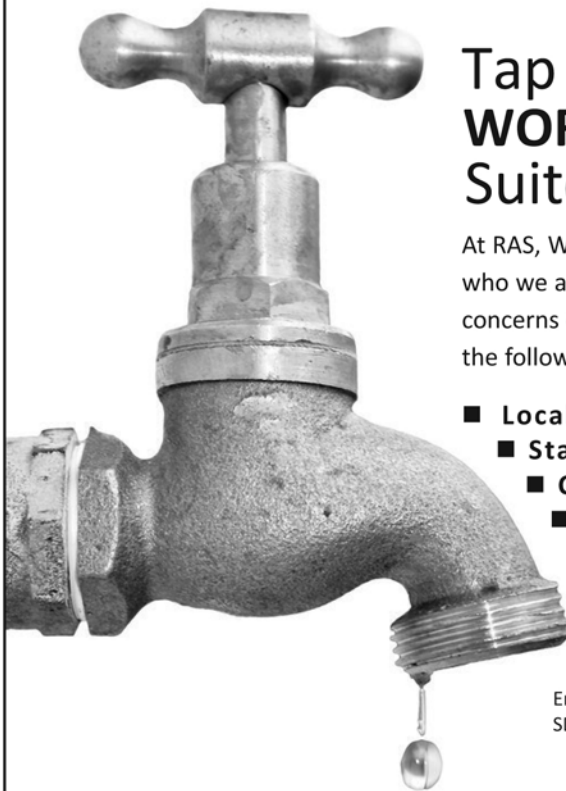


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Events Calendar

AUGUST

7-9 – WATER DISTRIBUTION

Aberdeen Ramkota
1400 8th Avenue NW • Aberdeen, SD

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Water Distribution Exams. This course only covers the material for Water Distribution. Operations Specialists who wish to attempt a Wastewater Collection Exam should attend the Wastewater Collection Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

28-30 – WASTEWATER COLLECTION

Watertown Events Center
1901 9th Avenue SW • Watertown, SD

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Wastewater Distribution Collection Exams. This course only covers the material for Wastewater Collection. Operations Specialists who wish to attempt a Water Distribution Exam should attend the Water Distribution Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

SEPTEMBER

25-27 – INTERMEDIATE WATER TREATMENT

Spearfish Holiday Inn
305 N. 27th Street • Spearfish, SD

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class II & III Water Treatment Exams. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

OCTOBER

16 – BASIC WASTEWATER TREATMENT

Rapid City Ramkota
2111 N. LaCrosse Street • Rapid City, SD

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I & II Wastewater Treatment Exams. This course does not cover the material included in the Stabilization Pond Exam. Operators who will be attempting the Stabilization Pond exam should consider the Stabilization Pond Workshops. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

30 – STABILIZATION POND WORKSHOP

Aberdeen Ramkota
1400 8th Avenue NW • Aberdeen, SD

This course covers the material on the Association of Boards of Certification Stabilization Pond Exams. It does not cover material on Class I or higher Wastewater Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

NOVEMBER

1 – STABILIZATION POND WORKSHOP

Highland Conference Center
2000 Highland Way • Mitchell, SD

This course covers the material on the Association of Boards of Certification Stabilization Pond Exams. It does not cover material on Class I or higher Wastewater Treatment Exams. This is a single day workshop starting at 8:30 a.m. local time and wrapping up around 4:30 p.m.

14-15 – LEADERSHIP SEMINAR

Pierre Ramkota
920 W Sioux Avenue • Pierre, SD

This annual training event is geared towards Rural Water System Directors and Board Members. Sessions begin at 1:00pm on Wednesday and conclude at noon on Thursday, and includes dinner on Wednesday evening. To learn more, visit www.sdarws.com/leadership.html.

13-15 – WATER DISTRIBUTION

Sioux Falls Ramkota
3200 W Maple Street • Sioux Falls, SD

This course covers the Association of Boards of Certification “Need to Know” requirements for the Class I through III Water Distribution Exams. This course only covers the material for Water Distribution. Operations Specialists who wish to attempt a Wastewater Collection Exam should attend the Wastewater Collection Course. Class begins each morning at 8:00 a.m. local time and wraps up around 4:30 p.m. on Tuesday and Wednesday and approximately 11:30 a.m. on Thursday.

REGISTER FOR CLASSES ONLINE AT:
go.activecalendar.com/sdarws

Course agendas, maps and registration are all available online at www.sdarws.com. All classes are free unless otherwise noted. For more info on these and other events, visit www.sdarws.com or call 605-556-7219.

You can find the “Need to Know” document along with other information @ http://www.abccert.org/testing_services/2017WaterTreatmentExams.asp



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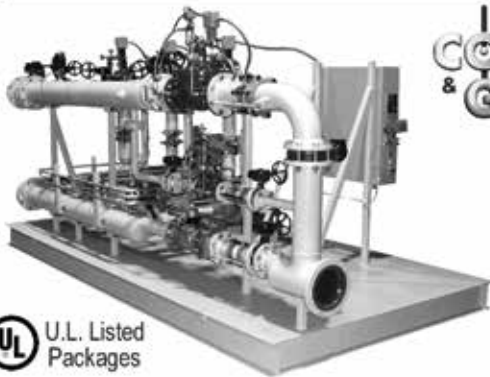
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ARE YOU ON OUR EMAIL LIST?

Don't miss out on event details, training updates, job postings and other important information!

Email info@sdarws.com to be added to our list.

ARTICLE SUBMISSIONS

Does your company have information to share that would be of value to our readership? If so, we would welcome your article submission for ServiceLine Magazine.

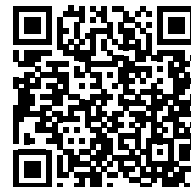
To send us an article, please email: jbame@sdarws.com

NOTE: SDARWS reserves the right to refuse any and all article requests.

JOB OPENING

SDARWS WASTEWATER TECHNICIAN

The position of Wastewater Technician exists to provide technical advice and training assistance to rural and small-town wastewater system operators within the State of South Dakota. The Wastewater Technician will be required to analyze situations, evaluate possible courses of action, make decisions, and give advice and recommendations regarding wastewater system's operations to Association members, as well as to other users and non-members. This position will be stationed out of SDARWS's Spearfish, SD office and the successful applicant will be expected to reside at a mutually agreeable location located in central or western South Dakota, preferably in or near the Spearfish area. Visit www.sdarws.com/assets/wastewater-technician-west.pdf for full position description. This position will close at 5:00 pm (CDT), Friday, August 17, 2018. Applications/Resumes must arrive at SDARWS prior to close.



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SOUTH DAKOTA RURAL WATER'S ANNUAL TECHNICAL CONFERENCE

CALL FOR PAPERS

The South Dakota Association of Rural Water Systems is looking for presentations for our 2019 Annual Technical Conference in Pierre, SD January 8th-10th.

Please submit your abstract for SDARWS's 2019 ATC. Presentation themes may include, but are not limited to the following:

- Drinking water security strategies and tools
- How Water Storage Can Impact Water Quality
- Fair Labor Standards Act
- Hands-on sessions:
 - ◆ Control valve repair kits
 - ◆ Hydrant maintenance and repair
 - ◆ Solution pump repairs (diaphragm and peristaltic)
 - ◆ Repair couplers, saddles, wet tapping
- The importance of Cross Connection Control
- Water Rights for public systems
- Ice Pigging to clean water and sewer pipelines
- Source water protection and sustainability of water supplies
- Climate change, water and energy efficiency, and conservation
- Clean Water Act/SDWA connections, nutrient pollution, and Harmful Algal Blooms (HABs)
- Emerging drinking water treatment technologies and optimization of current technology
- State revolving loan fund tools and techniques/ green infrastructure strategies
- Small systems: TMF, sustainability strategies, technologies, and compliance
- Trench Safety
- Data management (e.g., SCADA, GIS, IT)
- Workforce, operator certification, and/or technical assistance initiatives
- Distribution system issues
- Emerging contaminants in drinking water, both chemical and microbial
- Drinking water research
- Sanitation and wastewater management
- Risk assessment, risk communication and consumer outreach
- Implementation of regulations – challenges and successes

If you would like to make a presentation, please submit a one-page abstract with the proposed presentation title, and the name, title, affiliation, and contact information for the speaker to:

South Dakota Association of Rural Water Systems
PO Box 287
Madison, SD 57042
or email ATC@sdarws.com by September 15, 2018!

OR SUBMIT ONLINE AT

www.sdarws.com/annual-conference.html

ALL SUBMISSIONS MUST COMPLY WITH THE FOLLOWING GUIDELINES:

1. Deadline for submissions is September 15, 2018
2. Abstract submissions are limited to text only.
3. The conference planning committee will select submitted abstracts for sessions.
4. Please include a five sentence biography along with a 500 word abstract or description of your presentation.




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SDARWS HOSTS RECORD BREAKING 32ND ANNUAL TOURNAMENT

By Jeremiah Corbin, SDARWS Source Water Protection Specialist

A field of 177 helped make the 32nd annual Rural Water Open a success on July 17. With that many golfers, some modifications to the traditional format were required. This year we implemented a dynamic course layout that utilized all 27 holes that Elmwood has to offer. This format kept the pace of play manageable while giving each team 18 different holes to golf.

At shotgun time the field consisted of 44 four-person teams. This year marked the 4th annual Water PAC Putt challenge. Along with raising \$1,160, for Water PAC, this 19th hole offered a refreshing glass of beer to thirsty participants. Thanks to Thompson Innovation for sponsoring the 19th hole putt challenge.

When it comes to golfing, the Rural Water Open brings out an assortment of talent. Scores were competitive this year with 20 teams posting scores below par. Scores ranged from thirteen under to ten over. Due to the nature of the dynamic field, scoring was based on score under or over par based on the particular 18 holes a team played. Also, tiebreakers were decided by hole handicap, and the club professional, Danny Sinksen determined final rulings. Again, we did not have mulligans at this year's tournament, but rumor has it they will make a return in 2019, for a price. The Corporate Sponsors that helped make this event possible are listed on page three. Without their support, it would be impossible to award prizes to all players. All of the team prizes, in each flight, were awarded prizes based on Corporate Sponsor donations.

Following Rural Water Open traditions, the tournament format included four-person teams playing an 18-hole scramble with no Championship or Amateur Division. After the scores were posted and verified by the Club Pro Danny Sinksen, all team scores were listed from lowest to highest and then the field was split into thirds with 15 teams in three flights. To summarize, the 1st flight teams ranged from -13 to -4; 2nd flight ranged from -4 to -1 and the 3rd flight ranged from -1 to +10. The Rural Water Open's version of the Golden State Warriors (Team Munson) finished in the first flight a respectable 4th overall at -8. Congratulations to the winning teams!

Our first-place team from the 1st flight consisted of a team sponsored by HydroKlean. Our winner from flight 2 was a Team from Kingbrook captained by Randy Jencks. The winner of the 3rd flight was Team Turd Herders led by Todd Stelmacher from Visu Sewer. Our last place team was Deb Springman and the gang from East Dakota WDD with a ten over.

Our Flag Prize Winners Included: Dave Brecke, Closest to the Pin on #4W, he won Titleist DT Golf Balls donated by Qualified Presort. Joe Munson had the longest drive on #7W, and that earned him \$100 provided by Great Northern Environmental. Conrad Pick from team Munson drained the longest putt on hole 9W he earned \$100 and assorted golf merchandise from AE2S for the rest of his team. Sid Munson won \$100, provided by HRGreen, for being closest to the pin on hole 12N. Sid also won the hole prize on 16N for closest to the pin and received a Big Frig Cooler donated by Dakota Pump and Control for his efforts. Jeremy Hinke sunk the longest putt on hole 17N

...continued on page 16

GOLF RECAP: continued from page 15...

winning his team golf balls donated by Dakota Pump and water mugs donated by Bartlett & West. Jim Auen won \$100 donated by Ditch Witch for closest to the pin on #5E. Barry Berg with East Dakota had the longest drive on hole #7E and received a \$100 donated by DGR Engineering. Travis Steffenson with the Sioux RWS team sunk the longest putt on hole #9E scoring himself \$100 and winning his team assorted merchandise provided by Midwest Boring.

The Government Relations Committee's Water PAC was again held on a par three hole. Due to the expanded footprint of playing all 27 holes, a second Water PAC on the green challenge was added. The Water PAC hole gives each golfer who purchases a \$10 chance an opportunity to be entered into a drawing for \$100 if they hit their drive on the green; if they do not make the green they were still entered into a consolation prize drawing. This year the East Water PAC hole, sponsored by DSG, raised \$1,030 and the West Hole, Sponsored by Core and Main, raised \$980. The contribution to Water PAC from the 2018 Rural Water Open totaled \$3,170. Special thanks go to SDARWS Past-President Dan Carlson, Vice President Dale Thompson, Government Relations Committee members Larry Wasland and Glen Gilbertson, along with SDARWS' Communications and Marketing Coordinator Jennifer Bame, and Executive Director Kurt Pfeifle for manning the Water PAC holes.

Dan Zulkosky (Mr. Z) with the City of Tea was the lucky winner of the Water PAC drawing for the East 8 Water PAC hole and Jake Fitzgerald won the \$100 drawing for the West 8 Water PAC hole.

The 19th Hole Putt Challenge returned to offer another wrinkle to the golfing experience this year. Participants attempted to sink three balls from about six feet. For each putt made, the challengers were entered into a drawing. The challenge turned out to be quite a feat! We had 116 attempts at the challenge. Tyler Rasmussen won \$100 for the drawing of the individual that sunk all three balls, and he was one of five that made all three putts. Wade Broom made two putts and was drawn for a Rural Water Watch, Tom Geppert made one of the three putts and was awarded a rural water silver ball marker.

Numerous other door prizes were awarded to participants in the Water PAC challenges. These prizes were donated by our associate members, Including HDR, Hawkins Water Treatment, Direct Automation, and others. Thanks for your contributions!

Additionally, I would like to thank Direct Automation for sponsoring the Flyboy donuts and coffee, Lifestyle Health Plans and Risty for sponsoring the drink cart tickets, and Sioux Valley Environmental (SVEN) for providing each golfer with a ball to start the day.

In conclusion, we would like to thank all the sponsors, participants, and volunteers who helped make this event successful. Golfers, please remember to check out our Corporate Partners on page three, and when they stop by your facility let them know you appreciate their generosity and continued support. Mark your calendars for the 2019 Rural Water Open, it will take place on July 16, once again at Elmwood. To see more pictures from this year's Rural Water Open, like our Facebook page @SDRuralWater. ♣



RURAL WATER OPEN SPONSORS



First Flight Winners: Team HydroKlean



Second Flight Winners: Kingbrook/Jencks



Third Flight Winners: Turd Herders



Last Place: Team East Dakota



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South Dakota Rural Water AWARD NOMINATIONS

Do you know someone who is doing a great job? Goes above and beyond the call of duty? Has your water system achieved excellence this year – or has overcome some amazing challenges?

Give recognition where it is due by completing our Awards Nomination Form. Awards will be presented at the Awards Brunch at the ATC – January 10, 2019. **Application deadline is October 26, 2018.** Eligible nominees must be affiliated with a system member in good standing. The online form can be found at www.surveymonkey.com/r/ATCAwards, or through a link on our website at: www.sdarws.com/annual-conference.html.

WE ARE ACCEPTING NOMINATIONS FOR THE FOLLOWING CATEGORIES:

RURAL WATER SYSTEM OF THE YEAR: a member system who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water system.

RURAL WATER MANAGER OF THE YEAR: Recognition for a manager of a Rural Water System for outstanding performance in operating a Rural Water System.

RURAL WATER OFFICE PERSON OF THE YEAR: Recognition for an administrative employee of a Rural Water System for outstanding performance in office management and procedures.

RURAL WATER SYSTEM OPERATIONS SUPERVISOR OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working a supervisory role for a Rural Water System, and has demonstrated outstanding leadership ability and/or accomplishments in drinking water.

RURAL WATER SYSTEM OPERATIONS SPECIALIST OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working for a Rural Water System with outstanding leadership ability and/or accomplishments in drinking water.

MUNICIPAL WATER/WASTEWATER SYSTEM OF THE YEAR: a municipality who puts forth exceptional efforts to properly manage, operate, and maintain their drinking water and wastewater system.

MUNICIPAL MANAGER OF THE YEAR: Recognition for a municipal manager for outstanding performance in managing a municipality.

MUNICIPAL OFFICE PERSON OF THE YEAR: Recognition for an administrative employee of a municipality (i.e. clerk, finance officer, etc.) for outstanding performance in office management and procedures.

MUNICIPAL OPERATIONS SPECIALIST OF THE YEAR: Recognition for a State of South Dakota Certified Operator who is actively working for a municipality with outstanding leadership ability/accomplishments in water.

CARROLL ANDERSON MEMORIAL: The Carroll Anderson Memorial Award is a tribute to the exemplary work of Carroll Anderson who gave generously of his time, talents, and efforts to the Kingbrook Rural Water System and the South Dakota Association of Rural Water Systems. This award recognizes an individual's outstanding voluntary contributions to the advancement of rural community water systems in South Dakota, and is the greatest tribute the Association can bestow recognizing an individual's contributions to both the member system and to SDARWS.

FRIEND OF RURAL WATER: This distinguished honor is awarded to agencies, organizations, or individuals who have lent a hand in supporting this fantastic phenomenon we call Rural Water. The ability to provide life's essential need, water, to all the citizens of South Dakota was not done by one person or organization; it is a collective effort encompassing many.

SPIRIT OF RURAL WATER: This award is presented to an individual, business or group that goes above and beyond for a rural water system or rural water cause. South Dakota Rural Water wants to recognize exceptional rural water advocates that stand out from the pack because of their commitment to rural water issues and/or their passion for the job. Eligible candidates include rural and community water consumers, employees, directors, as well as lawmakers, businesses, or any person or group that puts forth a noble effort to advance rural water.

DONALD B. POSPISHIL: This award honors the work of Don Pospishil who dedicated many years of his life to helping small water systems across South Dakota. The Donald B. Pospishil Award is awarded to individuals who demonstrate leadership abilities in the water supply field, provide quality services to consumers, and exhibits professionalism and dedication while operating and maintaining a small water system.

South Dakota Rural Water
2018 AWARDS NOMINATION FORM

This form is also available online at: www.surveymonkey.com/r/ATCawards
or through a link on our website at: www.sdarws.com/annual-conference.html

Name of Nominee _____ Title _____

Employer _____ Years with System _____

Name of person making nomination _____

Address _____

City _____ State _____ Zipcode _____

PLEASE INDICATE AWARD:

- | | |
|--|--|
| <input type="checkbox"/> Rural Water System of the Year | <input type="checkbox"/> Municipal Office Person of the Year |
| <input type="checkbox"/> Rural Water Manager of the Year | <input type="checkbox"/> Municipal Operations Specialist of the Year |
| <input type="checkbox"/> Rural Water Office Person of the Year | <input type="checkbox"/> Carroll Anderson Memorial |
| <input type="checkbox"/> Rural Water Operations Supervisor of the Year | <input type="checkbox"/> Friend of Rural Water |
| <input type="checkbox"/> Rural Water Operations Specialist of the Year | <input type="checkbox"/> Spirit of Rural Water |
| <input type="checkbox"/> Municipal Water/Wastewater System of the Year | <input type="checkbox"/> Donald B. Pospishil |
| <input type="checkbox"/> Municipal Manager of the Year | |

SUPPORTING INFORMATION: Please provide a narrative for why this nominee deserves the award. (Outstanding accomplishments, contributions to system and state association, certifications, awards, exemplary work on legislative Issues, leadership, civic activities, etc.) Feel free to add additional pages if needed.

DEADLINE TO APPLY IS OCTOBER 26, 2018

Please complete this entry form and mail to:
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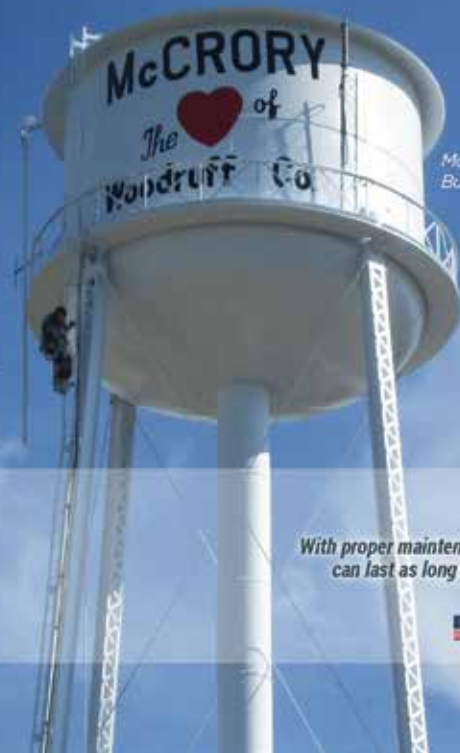
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ASSISTING CENTENNIAL HILLS HOMEOWNERS ASSOCIATION



**By Brant Ager,
SDARWS Circuit Rider**

SDARWS was contacted by Lial Kofoed, the certified water operator for Centennial Hills Home Owners Association concerning two failed bacteriological samples. SDARWS was also referred to this system by SDDENR.

Centennial Hills HOA is not required by DENR to perform mandatory routine disinfection. After a water main

break due to freezing, the system received their two bad samples from two separate sample sites. The failed samples are believed to be caused by poor water main replacement installation techniques, coupled with substandard installation disinfection and flushing.

We decided to shock chlorinate the entire system starting at the well with a 2.0ppm solution and push the concentration to the top of the system into the storage tank by using the leak detection trailer. 500gal of the system's own water was used to fill the leak detection trailer's tanks, and 65ml of 5% sodium hypochlorite



was mixed in to achieve a concentration of 2.0ppm. We monitored the progress of the solution moving up through the system by pulling water from flush hydrants and house spigots, taking chlorine tests at each draw point. Once a near 2.0ppm sample was received, taking in consideration chlorine demand, the next draw point was tested and repeated until the concentration reached the tank.

We were satisfied with a chlorine residual of 1.39ppm at a house near the storage tank and a 0.67ppm residual in the storage tank (note – the home is located between the source well and the storage tank). SDARWS understood that the disinfection process would reduce the free chlorine levels due to chlorine demand. Seeing the demand proved that the shock chlorination was working to disinfect the water mains, and leaving a residual afforded the system with future protection.

We conducted follow up chlorine tests a couple of weeks later to ensure that the disinfection of the water mains was taken care of. The house near the tank still had a 1.07ppm residual, and the storage tank had a 0.63ppm residual. Having seen the initial demand and a lasting residual meant that the water mains were clean.

In conclusion, SDARWS ensured the safety of drinking water to Centennial Hills residents. Centennial Hills has since taken routine bacteriological samples and came back with a negative for total coliform. This is a great example of the diversity of the leak detection trailer and the skill that SDARWS has. If your system needs assistance, please give us a call at 605-556-7219.💧

Results	
Lial Kofoed (CENTENNIAL HILLS HOME... Site:	
Chlorine, Total High CLH	52 ppm
Chlorine, Total High CLH	59 ppm
Chlorine, Total High CLH	41 ppm
Chlorine, Total High CLH	66 ppm
Chlorine, Total High CLH	55 ppm
Chlorine, Total High CLH	58 ppm
Chlorine, Total High CLH	43 ppm

**Results from the shock chlorination
at Centennial Hills Homeowners
Association**

Modern Infrastructure is Foundational for Quality of Life



By Julie Gross, USDA Rural Development State Director

Today many rural communities are in need of new or updated water or wastewater systems but lack the full financial means to resolve the issues they are experiencing. I would highly recommend those community leaders look to USDA Rural Development for assistance as \$4 billion in loan funding is currently available, this is nearly triple the normal obligation.

Loans are available to small towns (populations 10,000 or less) to construct a water tank, install new water or sewer lines, or build a waste water treatment plant, along with a myriad of other projects. I encourage communities to not miss this opportunity to file an application that will help build upon their community's infrastructure. To submit an application, you can use the interactive RD Apply tool or you can contact me directly or reach out to one of our field staff.

President Trump has made investing in American infrastructure a priority for our economic growth. With infrastructure investments, the full potential of not only South Dakota's economy, but the nation's as well, can be unleashed and rural job opportunities can be created.

Rural Development understands the importance modern and reliable water systems have in helping rural communities thrive. From economic opportunity to public health and the environment, modern infrastructure, including water infrastructure, is a foundation for enhanced quality of life and prosperity in rural America.

Today, we find ourselves at the threshold of opportunity to repair, rehabilitate, and modernize outdated infrastructure and establish a foundation for the future. Does your community have a plan in place to enhance system reliability and safety? Whatever stage of development you may be at, our agency may be able to help.

In South Dakota we have utilized the water and environmental programs with much success. For example, our agency recently awarded Aurora-Brule Rural Water System, Inc. in Kimball funding totaling \$1.7 million to help alleviate low pressure and capacity issues, as well as aid in providing additional water resources to meet current demands and future growth. This project has six different elements within Aurora-Brule's infrastructure. The first element includes the water treatment plant. Funds will be used to replace motors, high-service pumps and variable frequency drives, as well as investing in innovative new pumps, air compressors and air dryers for efficient use of the systems. The second and third elements include the replacement of two booster stations and constructing four miles of new water mainlines. The fourth element includes a one-mile extension of current 14" water mainline to aid in delivery of water to customers. The fifth and sixth elements include the recoating and cleaning of two water towers in Aurora-Brule's service area. This project will affect about 3,000 rural users in South Dakota.

I can't express enough, what a tremendous opportunity this funding provides to rural communities to replace old lines or outdated, inefficient systems with modern infrastructure that is foundational for quality of life. Call today so we can help improve the condition of your community. It would be my honor to help you and partner with your local community to address its infrastructure needs. Please call me at (605) 352-1100 or email me at julie.gross@sd.usda.gov. ♦

Julie Gross is the State Director for the USDA Rural Development in South Dakota. USDA Rural Development's mission is "To increase economic opportunity and improve the quality of life for all Americans." There are eight Rural Development office locations throughout the state of South Dakota. Visit our website at: www.rd.usda.gov/sd.

To learn more about the places that are eligible for assistance visit www.rd.usda.gov/sd or contact a USDA Rural Development Specialist:

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RAPID CITY

**Dylan Tramp
605-858-6679**

WHERE THERE'S SMOKE...



**By Bill Thorson,
SDARWS Wastewater
Technician**

The rainy season is supposed to be in the spring of the year. This year has shown some rather interesting weather patterns in that winter stayed later than expected and then spring showed up to the party about the time summer was due on stage. With all of the weather theatrics, wastewater system operational specialists are having a

hard time coping, much less keeping up. Keeping up with inflow and infiltration (I & I) that is to say. Many towns and cities have older collection systems built with the best that the engineers and contractors had to work with at the time. Clay pipe sewer systems were the norm in the “old days,” but the old days are long past. Anyone familiar with VCP or vitreous clay pipe knows that rain clouds mean extra water to have to deal with coming from the collection system into the treatment system. The clay pipe joints may not be sealed as well as when it was installed, or some of the sections of pipe and connections of services may not be in the best of shape after all this time. There may also be some old connections to the storm sewer pipes that have been overlooked or forgotten existed. All this means I & I when the bucket rains come falling. Lagoons or treatment plants are designed to handle a given range of “liquids” and too much at one time can have an adverse effect on the hydraulic loading and treatment of the wastewater. Some towns have relined or replaced much of the collection system and have cut down I & I drastically. Still I & I can be a problem for a treatment system in many communities. How can a system find problems with I & I issues? One solution is to smoke test a portion or all of the system and locate the areas where I & I is prevalent. A smoke blower machine is put over an open manhole, and liquid smoke is fed to the machine which converts it to smoke. The smoke is forced into the collection system. Any openings in the system, such as broken cleanouts or open service lines, will allow smoke to reach the surface. Once these areas are located, a plan can be implemented to fix the I & I issues. Fixing the worst problems first is a start and as budgets allow more can be found and repaired each year. Televising can also show some I & I issues, but unless the problem is in the main lines, not all issues will be readily found. The best times to smoke test are during a relatively dry time of the year like August or September. If you have a significant increase in flows during or immediately after a significant rain event, smoke testing the collection system may be needed. Give South Dakota Rural Water a call if you would like assistance in finding I & I issues. The benefits can well outweigh the costs. ♠





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THE IMPORTANCE OF CALLING BEFORE YOU DIG



**By Mike Moeller,
SDARWS Technical Assistance/
Training Specialist**

In 2005 the Federal Communications Commission made 8-1-1 the universal number for location services for underground public utilities. Before that time every “call before you dig” service had its own 800 number to call making it confusing for contractors that work in different regions. The 8-1-1 number is easy for anyone to use from a homeowner that is going to dig

holes in their yard for a fence to large construction companies that will be driving pilons in the ground for a new bridge. The 8-1-1 number will have every underground utility located for you in the specific area you choose.

Even with the ease of the 8-1-1 number there are still instances where people make the mistake of digging and now having locates done. Recently I came across such an instance. I was assisting a rural water system with some leak detection when the manager's phone rang. It was a contractor local to the area who had just dug up a water main. The system manager and myself went to the location of the dig and found his water main ripped in half and water flowing down the trench. The contractor was putting in an irrigation line for a rancher and was in the middle of a pasture when he hit the water main. When we asked the contractor why he didn't call for locates his reply was “I didn't think there would be anything in the middle of this pasture.” This incident caused multiple hours of down time for the water system and users in the area of the break. In this case the contractor was lucky that it was just a two-inch water main that he had hit and repair parts were on hand to repair it. If it would have been a bigger water main and the possibility of parts not being on hand it could have led to days of users being without water and a very costly repair cost.

In any event the simplicity of the 8-1-1 program is there for everyone to use. It doesn't matter if you are digging a hole for a flag pole in your yard or digging a drainage ditch in the middle of a field the possibility of underground utilities being present is always increasing. Everything from water mains to fiber optic cables are being buried everywhere and easements are used all the time to cross private property. Always call 8-1-1 to get the utilities located it may save you a lot of down time and possibly an expensive repair bill in the end. ♦

NRWA AFFINITY PROGRAM SPOTLIGHT: BAILEY SPECIAL RISKS CYBER INSURANCE

Bailey Special Risks has partnered with NRWA to provide cyber security insurance to water and wastewater systems. This exclusive program offers Beazley Breach Response, a unique insurance, loss control and risk mitigation service that notifies and protects the customers of utilities that have suffered a data breach.

COVERAGE HIGHLIGHTS

- Coverage features include data breach notification and credit monitoring or identity monitoring services for up to 100,000 affected individuals, with separate coverage limits for third party claims.
- Breach response coverage includes forensic and legal assistance, notification costs, credit monitoring services for each person notified, loss prevention services and identity theft-related fraud resolution services.
- Crisis management sublimit for public relations and extraordinary notification expenses.

LOW PER-INCIDENT RETENTIONS

Policy also provides a separate \$1 million limit of liability for privacy, network security and media claims; enhancements are available for first party and other exposures


GET EXPERIENCE ON YOUR SIDE

In managing a data breach, it's your reputation that's on the line. It's smart to have a partner who's been there. Things happen too quickly; there's too much to learn. Beazley Breach Response pioneered the concept of data breach insurance that focuses first and foremost on response. Beazley coordinates the IT experts and specialized lawyers to help you establish what's been compromised; assess your responsibility; and notify those you have to. In addition, they coordinate credit or identity monitoring for your customers and PR advice to help you safeguard your reputation. Beazley also indemnifies your losses from lawsuits or regulatory actions. To date, Beazley has helped more than 2,000 clients manage data breaches swiftly and successfully – more than anyone else. They can't guarantee your cyber security: no one can. But they can put you in control of your response.

Contact SDARWS for more information, or contact Bailey Special Risks to obtain a quote. Rates are affordable and backed by a Best "A" Rated insurance underwriter, with 25 years of experience and licensed in all 50 states.

A DEDICATED TEAM OF EXPERTS

Beazley is unique among insurers in having a dedicated business unit, BBR Services, that focuses exclusively on helping clients manage data breaches successfully. A thicket of state and federal regulations governs how and when customers must be notified after a breach has occurred, and the risk of reputational damage from a mishandled breach is high. The BBR Services team focuses on the coordination of the expert forensic, legal, notification and credit monitoring services that utilities need to satisfy all legal requirements and maintain customer confidence. In addition to coordinating data breach response, BBR Services is responsible for maintaining and developing Beazley's suite of risk management services, designed to minimize the risk of a data breach occurring.

If you want to learn more, please contact SDARWS at 605-556-7219. 

Data Security Claims Examples

Water Treatment Plant in North Carolina

A laptop stolen from the facility held the names and social security numbers of the city's volunteer firefighters.

Water Department in Connecticut

Documents with the names and social security numbers of 26 people were found scattered by the Quinnipiac River.

Municipal Water District in California

Two computers were stolen from the district office. One included names and credit card numbers of customers.

City in Mississippi

Video surveillance cameras caught two intruders stealing hard drives from 18 computers. Data files contained names, addresses, and social security numbers of current and former city employees and registered voters, as well as bank account information for employees and customers.



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CONFINED SPACES

KNOW WHAT YOU ARE GETTING IN TO



**By Steve Attema,
SDARWS Safety Training
Specialist**

Confined Spaces can have deadly consequences if proper procedures are not followed. Most of the deaths in confined spaces are due to hazardous atmosphere, although there can be other dangers. Just because you have entered a confined space before does not mean there is no danger this time. Conditions can become hazardous and there may not be enough time to safely exit the space. Another issue

with confined spaces is would be rescuers becoming victims themselves because they succumb to the same conditions as the original entrant. A tragic accident can become worse when someone without proper rescue gear attempts a rescue.

Lets get a clearer understating of what you need to know about confined spaces. First off, a confined space:

- is large enough so a person can enter and perform work,
- has limited options for entry and exit,
- is not designed for continuous human occupancy.

To be considered a confined space it must meet all three of these criteria. In addition, if the space meets any of these criteria it is a Permit Required Confined Space (PRCS):

- hazardous atmosphere or the potential for it,
- has an engulfment hazard,
- has a hazard that can entrap a person,
- contains any other serious hazard.

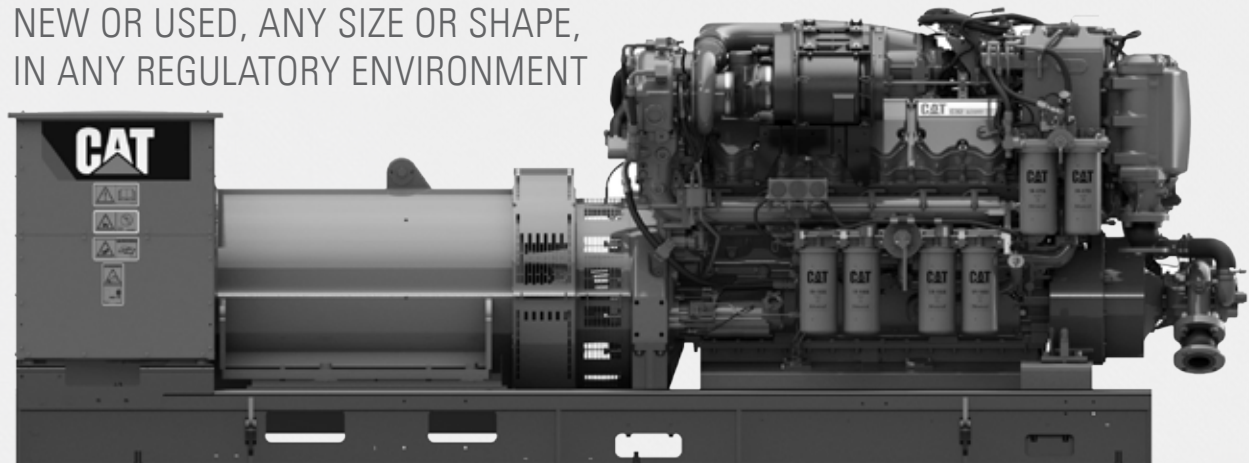
An inspection of your system should be done to determine if any spaces the employees enter are considered Permit Required Confined Spaces. If there are any a Permit Required Confined Space Program should be developed to safely enter these spaces. This program will include items such as:

- use of a permit entry system,
- testing for hazardous atmosphere (Hydrogen Sulfide Levels, High or Low Oxygen Levels, Carbon Monoxide Levels and Explosive Atmospheres),
- ventilation to provide clean air to the space,
- Personal Protective Equipment,
- Non-Entry Retrieval Units.

In general, a wastewater system will have more potential for hazardous atmosphere than a water system, but all confined spaces should be treated as a permit required confined space until it can be proven otherwise. Know the space you are getting into before you or someone you know becomes a statistic. ♦

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GETTING IN A NEW GROOVE



**By Jeff Fossum,
SDARWS Circuit Rider**

Well, by now, most of you have heard that Morris Elcock has retired from the South Dakota Association of Rural Water Systems (SDARWS). I would like to thank Morris for doing such a GREAT job all those years! This makes it quite a task to fill the shoes of a Circuit Rider and keep the expectations high! Sometimes I wish Morris would have been a more mediocre worker with a sub-standard knowledge of the water field. Do not fear all you Morris FANS: Morris told me, “You can call on me to pick my memory at any time!”

I am one of “The New Guys” with his picture in the last edition of the *ServiceLine*. As of six months ago, I never would have imagined that I would be in this position of Circuit Rider. I ask myself, “What did I get myself into?” All I had to do at my old job after 32 years, was stay in the groove and keep things moving. I knew what needed to be done and when to do it. I really was in an old groove, some would say in a rut. So, I applied for the Water Circuit Rider position. After discussing the opportunity with my wife and a co-worker I asked myself, “Why you would even want to change jobs at this stage of your career?” But then I thought, why not take a chance on a new groove? Thankfully, past SDARWS Executive Director Denny Davis, SDARWS saw something in me and thought that I would be a good addition to this crew. Now I am HERE!

I am getting in the “new groove” of a being a Water Circuit Rider for the Association. With your help and guidance from my co-workers, I will continue to figure out my new responsibilities and face the new challenges of making this groove successful. I will need from you, assistance in determining your needs and goals in my role as your Circuit Rider. I feel that the core foundation and values of my new groove as your Circuit Rider are as follows:

- Have a smile and a handshake to greet you each time I see you.
- Visit onsite (as many as I can) Association members and operators, during my first year.
- Become more aware of the knowledge that my co-workers have to offer, as it is a team effort.
- Acquaint myself with the equipment the Association owns to better assist you as operators.
- Acquire new equipment (after reviewing the need with Kurt Pfeifle, our NEW Executive Director).
- Attempt to remember your names.
- Learn new lessons from each of you as we get better acquainted.
- Accept each challenge as an opportunity to learn.

Ok! Association Members and co-workers, the task is ours as we work together to strengthen our community with better communication. As I visit on-site with you, I hope to get your input on projects in the pipeline, so together we can prepare for the future. Also, I'll listen to your pain points working towards using my years of experience and field of contacts, to derive a plan of attack. What additions do you feel I should add? Will you let me be just a name in the “directory” and let me coast, or will you put me to task assisting you with issues and problems as they arise?

The choice is ours together as to how I will fit into the new groove. If you'd like me to stop by and assist with a water issue you have, please give me a call at Morris' old number – 605-201-9561. ♦



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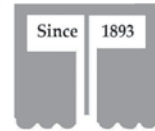
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A DAY IN THE LIFE OF A **CIRCUIT RIDER**

NICK JACKSON



What was your first job? My first job was working construction with my Father, my first employment was a Clerk/Cashier mostly at night for 7-Eleven.

What was your first water related job? My first job related to water was while in the military as a Vertical Engineer encompassing Plumber, Electrician, Carpenter and Masonry.

But in the civilian world, employed with the City of Custer in 2004 in charge of the Water Distribution and Treatment.

What does your typical day as a Circuit Rider entail? Consist of most anything that entails water or onsite training of personnel to emergency requests. Can be leak detection, locating of services, rate studies, system evaluations, Vulnerability Assessments, Emergency Response Plans, GIS mapping, flow/pressure testing, shock chlorination, treatment techniques, training, working with compliance issues and emergency disasters. Whatever I can do, to assist water systems to make things easier and run smoothly for their water system.

What's your favorite thing about being a Circuit Rider? Most every day is different, even when planning ahead, many times things happen and we adjust

to system needs. But what really I enjoy most, is seeing a smile from someone who thought their world was coming to an end because of a situation, but together we can make most everything right again.

What's the most challenging job you've ever undertaken as a Circuit Rider? I would say the most challenging task I would say, responding to a water disaster that left three counties without water when an ice storm knocked down power poles to most everyone. A back-up generator had faulted at the water plant and the river inlet station kept pumping water to the water plant flooding the whole lower level. Every single conduit, electrical component, air actuating valves, turbidity device, pumps, motors, compressor, just everything had to be cleaned, repaired or replaced before we could pump and treat potable water to the three counties. What could have taken several weeks to complete, was done in a week with the cooperation, coordination and team work of everyone involved. And a few paid back returned favors collected.

How do you think rural water systems could operate more effectively? It has and already is being utilized, every water system is connected Nationwide through Water Pro to every other water system. If a problem or situation should arise, just ask on the website and somewhere, someone has dealt with the same situation and will advise you, what to do and what not to do to correct the issue. There is always an answer to every problem, together we can always work it out.

What's the best advice you could give to rural water systems? Utilize all your resources, just ask, communication is the key to most every situation. Even within the military, some of the best solutions and ideas came from the lower ranks everyone is important. Always plan ahead for the future, time moves so fast, we have trouble keeping up.

What advice would you give to a young person who wants to embark on a water career? Choosing a career is a monumental task. Not only do you have to do for the rest of your life, but there is also a ton of advice that can steer you in the wrong direction. "Follow your passion, and you'll never work a day in your life, you'll enjoy what you do." Within the water career, one is not "just" an operator, one is an Operation Specialist. Skilled in many aspects that's always challenging, technical advancements and a vast need for them who can make a career with no real end in sight. ♦

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PHOTOS FROM THE FIELD



SDARWS Wastewater Technician Bill Thorson hosted a Smoke Testing Workshop this past June in Vermillion.

SDARWS Source Water Protection Specialist Jeremiah Corbin conducting a Sustainable Utility Management (SUM) conference in Mitchell, SD. The SUM program is a collaborative effort of US EPA and Rural Development.



On June 20th, we joined Pat Schmitt from Electric Pump who conducted a class on pump and control panel troubleshooting.

Dave Van Cleave and Clyde Jones from the City of Rapid City took the Advanced Wastewater Treatment class on a tour of the Rapid Wastewater Treatment Plant this past May.



To see more pictures of SDARWS in action, follow us on Facebook
www.facebook.com/SDRuralWater

CERTIFICATION PRACTICE QUESTIONS

1 THE MOST IMPORTANT USE OF CHLORINE IN WATER TREATMENT IS

- a. as an aid to coagulation.
- b. as an algacide.
- c. to oxidize iron and manganese.
- d. as a disinfectant.

2 YOU ARE CHLORINATING A WELL SUPPLY AND THE CHLORINE DEMAND JUMPS FROM 0.9 MG/L TO 3.0 MG/L. THIS IS INDICATIVE OF

- a. pollution.
- b. weak chlorine.
- c. more water being pumped.
- d. all of the above.

3 CHLORINE GAS IS

- a. lighter than air.
- b. heavier than air.
- c. the same as air.
- d. none of the above.

4 CHLORINE IS VERY CORROSIVE WHEN COMBINED WITH

- a. alum.
- b. moisture.
- c. carbon.
- d. fluoride.

5 CHLORAMINES ARE FORMED BY THE ADDITION OF CHLORINE AND

- a. ammonia.
- b. soda ash.
- c. liquid nitrogen.
- d. sodium fluoride.

6 ALL CHLORINE CYLINDERS ARE REQUIRED TO CONTAIN AT LEAST ONE FUSIBLE METAL SAFETY DEVICE (PLUG) DESIGNED TO MELT AT BETWEEN

- a. 158 to 165 degrees F.
- b. 100 to 120 degrees F.
- c. 200 to 212 degrees F.
- d. none of the above.

7 ONE VOLUME OF LIQUID CHLORINE CONFINED IN A CHLORINE CYLINDER UNDER PRESSURE WILL YIELD ABOUT _____ VOLUMES OF GASEOUS CHLORINE.

- a. 260
- b. 360
- c. 460
- d. 560

8 THE SUCTION END OF A FORCED VENTILATION SYSTEM INSIDE A CHLORINATOR ROOM SHOULD BE LOCATED

- a. near the floor.
- b. on the roof.
- c. above the window.
- d. six foot above the floor.

9 GAS CHLORINATORS, WHEN OPERATED AT A HIGH RATE OF WITHDRAWAL FROM THE CHLORINE CYLINDER, CAN RESULT IN

- a. an explosion.
- b. overheating of the gas cylinder
- c. ice formation on the chlorine cylinder
- d. no effect.

10 A HYPOCHLORINATOR

- a. measures an adequate amount of chlorine gas in the water supply.
- b. is used to feed a hypochlorite solution into a water supply.
- c. is the most economical means of chlorinating a water supply.
- d. is used to reduce hardness and turbidity.

(1) C 2) A 3) B 4) A 5) D 6) D 7) C 8) D 9) B 10) A



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- Valve Box Centering Adapters



FROM THE EXECUTIVE DIRECTOR

KURT PFEIFLE, EXECUTIVE DIRECTOR

“THE POWER OF AN ASSOCIATION.” This simple statement was a common theme at the most recent In-Service conference put on by the National Rural Water Association (NRWA), a conference attended by most of the employees at SDARWS. But what do these words really mean? Simply put, when people or businesses combine their expertise and influence, they have the power to accomplish what could otherwise not be accomplished alone... in short... **THERE IS STRENGTH IN NUMBERS!**

Your National Association, NRWA, combines the strength of other Rural Water Associations across the nation (every State is represented) to preserve and protect issues and interests on a federal level e.g., 1926(b) territory protection, sensible EPA regulations, funding for RD Water & Environment Programs, including Circuit Rider and Technical Assistance Programs. These are only a few of the issues NRWA deals with on an ongoing basis.

Most certainly, your State Associations lends its strength and influence to NRWA, but the real power of SDARWS comes from its membership. It's through the active participation of our members that SDARWS can accomplish so much! Your Association provides a myriad of technical services to the membership (see sidebar), these services are very valuable to many of our members and plays an important role in the sustainability of these systems. These services provided here are tangible, you can readily see and in most cases quantify (monetarily and otherwise) the effect they are having. The Association also offers many services that are not tangible or readily quantifiable. By way of example, historically, there have been efforts to tax water, SDARWS and its members have had success in pushing back those efforts. The US Corps of Engineers has, on previous occasions attempted to charge for water storage within the reservoirs of the Missouri River. SDARWS was instrumental in securing changes to South Dakota Law to bring fairness and clarity to Rail Road crossings. We engage annually with the Legislature to ensure that South Dakota water and wastewater interests are heard and protected.

Your State and National Associations are hard at work every day representing your interests on a state and national level. They are there to help the membership broaden its knowledge, enhance networking opportunities, to be a leader in the industry (both water and wastewater), be a mentor to those in its ranks, to give back to the communities and the varied membership we serve. To inspire and motivate those in the water and wastewater industry to become involved and stay motivated and be proactive to the causes we care about. ♦

SDARWS SERVICES

- Certification Training
- Wastewater Training
- Safety Training
- Board of Directors Training
- Capacity Development
- Compliance Assistance
- Leak Detection
- Valve Location
- Line Tracing
- Smoke Testing
- Flow Testing
- GPS Distribution System Mapping
- GPS Collection System Mapping
- Pipe Thawing (up to 2")
- Chlorinator Operation
- Video Inspection
- Emergency Response Planning
- Source Water Protection
- Water Rate Analysis
- Distribution Operation & Maintenance
- State & Federal Legislative Action
- Regulatory Oversight
- NRWA Fleet Program Assistance
- NRWA Loan Fund Assistance

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