11th ANNUAL
Water Conservation POSTER CONTEST

1st Grade

1st - Sylas West
Fox River Academy

2nd - Desi Brooks
Fox River Academy

2nd Grade

1st - Maddie Soppe
Pardeeville Elementary

2nd - Cali Aslesen
Northside Elementary (Sun Prairie)

3rd Grade

1st - Cora Phillips
Woodland Elementary (Appleton)

2nd - Stella Campbell
Woodland Elementary (Appleton)

4th Grade

1st - Leah Vossekuil
Mayville Middle School

2nd - Kami Roller
Pineview Elementary (Reedsburg)

5th Grade

1st - Joslyn Kleist
Phillips Elementary

2nd - Kaia Harris
Mayville Middle School

6th Grade

1st - Haven Siegel
Mayville Middle School

2nd - Alyssa
Amherst Middle School
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Hopefully by the time this message reaches you we will be experiencing spring (according to the groundhog) and a little better weather. Hopefully any flooding issues have not upset your system or have taken a lot of your time. Anything is better than 40 degrees below zero and snow every few days.

This year is the first time I have been to Washington DC for Wisconsin Rural Water. It was very interesting to see all the sites that we see on TV and movies in person. It was also very interesting seeing how our government works (when it’s working) and to experience the legislative part of government. The Congressmen and their staff were very pleased to see us and did everything they could to help us negotiate DC for the most productive meetings. The Congressmen we met were also glad to see people from home and talk with us about our member’s needs. Our elected officials control the money we give them through our taxes and they are anxious to get it back to their constituents in the best ways. I hope our conversations with them will bring in more money for all the infrastructure projects we will be needing here in rural Wisconsin. I did get invited to the State of the Union Address and attended as Congressman Ron Kind’s guest. It was an experience of a lifetime!

Except for a 12 hour layover at O’Hare Airport it was a great time. I would like to thank Kevin Mraz (National Director) and Chris for leading me around.

The Technical Conference was another success and hopefully all the attendees had a good time and got a lot of training. The Exhibit Hall was full of some of the newest technology in the business and hopefully our attendees found something new to help them run their systems. Thanks to everyone who attended. I would also like to acknowledge the retirement of Bob Stanislawski and thank him for many years of service on the board. Also we heard that there is a need for involvement with the legislation concerning PSC 185. Now is the time to stand up and be heard. Please watch for updates and please support our work on this issue.

Thanks again and please everyone be careful this summer while out doing street duties. We’d like to see you again next Conference!

Ramon

Ramon Knudtson, WRWA President, Melrose
Opportunity Knocks

This being the “Year of Water” in Madison, this opportunity, is truly golden.

Chris Groh, WRWA Executive Director

My Grandmother on my Mom’s side lived to be almost 100 years old. Being a good Methodist she had her favorite Bible quotes. Her favorite was “The Lord spoke unto Noah, and Noah said, HUH?” Almost a case of missing an important opportunity! We rarely take full advantage of all the opportunities we get every day. Our biggest opportunity at WRWA is going for it at conference. We do try very hard to bring you the best Technical Conference we can. This year’s conference was very well attended, and we tried again to make it the best conference we ever had. We did not have a record attendance, but we were only 40-50 attendees out of first. We had great training sessions, and probably the best exhibit hall we’ve had in a long time. Our next opportunity will be to put on a really great Operator Expo on August 22nd this summer. Our biggest opportunity before conference was to visit our Congressmen and Senators in Washington DC last February and ask for their help with rural Wisconsin water and wastewater infrastructure funding.

Kevin Mraz, our National Director, Ramon Knudtson, our Board President, Lee Anderson, La Crosse Water Utility, and I visited 5 Congressmen and 1 Senator over 2 days and we had a great opportunity to get our message across to them that rural Wisconsin is in great need of upgrading water and wastewater infrastructure. We were met with interest from everyone we visited. I think they were well aware of our needs, but the means of delivering the money, work and help was best served by WRWA. We were successful in funding our requests fully, and we are in a real strong place for full funding in 2020.

Another opportunity awaits us all this spring in the form of being heard on the legislative work on PSC 185. I will be asking you to submit comments, personally or in letter form, to your local state legislators, and to attend our Municipal Lobby Day on May 22nd at Madison’s Monona Terrace. This will be an opportunity to go to the capital and meet with your representatives and discuss municipal matters with them. Letters and electronic communication works well, but it’s nothing like speaking with someone personally and explaining what will have a great effect on your system and your customers. This being the “Year of Water” in Madison, this opportunity, is truly golden.

You will be seeing more emails from me this year, something I really do try to avoid; but it is so important to stay involved and up to date on information. I don’t want you to hear something way past your ability to have a comment and say “HUH.” Chris
Letters and Emails

To Wisconsin Rural Water Association:
Thank you for the excellent training session on 12/18/18 at the Burlington Public Works Facility. As a water plant operator for the City of New Berlin for over 30 years, I have attended many training courses and seminars throughout the years. Your Water Treatment and Sampling session was another example of a quality informative, nuts and bolts class that will be to all who attended. The speakers: Sarah Nunn (CTW Corporation) and Mike Hanten (Clean Water Testing) kept on point with many expert ideas on pumps and water system maintenance and water sample testing. Scott Giese also added his additional seasoned expertise and knowledge during the session, when it was helpful and appropriate. Over the years, Wisconsin Rural Water Association is one of the very best resources available to us operators in our state. To help ensure the safety and quality of our drinking water.

Sincerely,
Paul Herrenbruck

Hello Wisconsin Rural Water Staff
I’m sending you this e-mail letter to let you know how really good your employees are in helping our operators out through the state of Wisconsin. I (Dennis Pronschinske “Buzzy”) had operational problems at the waste-water plant, and Chris Groh and Kay Curtin spent so much time here in helping me get back into compliance, I can’t thank them enough. Also I would like to Thank Jeff Labelle in helping me on the water side of getting things straight on our Iron Filter Rehab. I really feel all your people our asset to the communities in the State of Wisconsin in helping our Operators.
Again a Big THANK YOU to all Rural water personal
Dennis Pronschinske “Buzzy”
City Of Independence Water/Wastewater Superintendent

To Whom It May Concern:
The City of Elroy Water/Wastewater Department would like to take the time to extend a sincere thank you to Kay Curtin. Kay assisted in troubleshooting problems experienced at our Wastewater Treatment Facility. With Kay’s knowledge and helpfulness, we were able to pinpoint and correct the issues. We appreciate the time she has spent with us. Thank you, Kay and Rural Water, for your continued support.
Sincerely,
Dan Lind, City of Elroy Water & Wastewater Facility

Hello Kelly,
I just wanted to tell you again, thank you for all of your help with setting up our testing program for our well. You made the program easy to understand and helped reduce any second guessing if we were doing something wrong or not testing for the right things.
You and the WRWA are a very valuable resource.
Best Regards,
Phil Secker, Green Bay Packaging, Baird Display Division Assistant Plant Manager / Safety & Environmental Coordinator

Hi Ed,
With the winter being somewhat mild to date I am reminded of all the help you have given us over the years. Your ability to give our small system immediate attention to locating leaks and dealing with water service issues has been a tremendous help.
A Large THANK YOU from the City of Green Lake staff!
Glen, City of Green Lake DPW

I would just like to express a sincere THANK YOU for my Operator of the Year award for District 5.
It is something I Never would have expected. In my 29 year career in 4 different municipalities, I have had the opportunity to work with some outstanding people. I certainly never would have considered myself a nominee for this award.
Once again, Thank You All. It is a Privilege to work with all of you.
Dan Odeen, Shelby Sanitary District #2

Kay Curtin stopped by our Public Works Department this morning to help our DPW fill out the CMOM. Kay was extremely helpful and we appreciate her assistance!
Kayla Steinhorst, Village of North Freedom
CONGRATULATIONS!

Darryl Rutkowski, Wastewater Supervisor, speaks to the Wisconsin Department of Natural Resources Board after receiving the 2019 Wastewater Laboratory of the Year Award. Daryl directly thanks DNR staff for the nomination along with John Amarose, Wastewater Operator and Wisconsin Rural Water.

Chris Groh, Executive Director of Wisconsin Rural Water, John Amarose, Eagle River Wastewater Operator, and Daryl Rutkowski, Eagle River Wastewater Supervisor with 2019 Wastewater Laboratory of the Year Award. Daryl thanks Chris and all the Rural Water staff for their help with this award. Most of the credit goes to Daryl, John and the city of Eagle River.

Steven Geis, Certification Services Section Chief for DNR, John Amarose, Eagle River Wastewater Operator and Daryl Rutkowski, Wastewater Supervisor with the 2019 Wastewater Laboratory of the Year Award.

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What is a TMDL?
Total Maximum Daily Load

What is a TMDL? As defined on the WI DNR TMDL informational page a TMDL is “a pollution ‘budget’ for a water body or watershed that establishes reductions needed from each pollutant source to meet water quality goals. While some waters may be restored through alternative projects such as Watershed Restoration Plans, many issues are addressed through TMDLs.” The WI DNR informational page also states: “A TMDL is developed after consideration of all sources of pollution to an impaired waterbody and is stated as the amount of pollutant that the waterbody can assimilate and not exceed water quality standards. TMDL pollutant loads are determined in consideration of in-water targets that must be met for the waterbody to respond favorably. Targets may be based on promulgated numeric water quality criteria or may be based on narrative criteria developed in consideration of local data and/or nearby reference sites.”

These limits take into consideration point source and non-point source entities. Point sources are systems or entities that have WPDES permits and are discharging to a body of water based on that permit. Municipalities with WPDES permits are considered point sources. Non-point sources are any other sources where rain or snowmelt pick up any waste and deposit them into the water bodies of Wisconsin. A TMDL is designed to have point sources and non-point sources each meet load applications to help impaired waterways.

An example of a loading breakdown was delivered at a TMDL meeting for the Upper Fox – Wolf River watershed that I attended in 2018. I’ll refer to the Upper Fox – Wolf River TMDL study because I am most familiar with it. The study found that sources of phosphorus coming into the Upper Fox – Wolf River watershed was 60% from Agriculture, 20% from individual permits, 15% from background, and the remaining 5% from Storm Water, also referred to as an MS4. The study for the Upper Fox – Wolf River watershed found that the source of TSS was 92% from Agriculture, 4% from individual permits, 2% background, and 2% storm water. The percentages are interesting to say the least. There are 76 permitted wastewater systems in this basin. Of which 56 are municipal and 20 are industrial. So you can see municipalities are contributing less than 20% of the total amounts of phosphorus to this watershed. For the Upper Fox – Wolf River TMDL most municipalities are looking a pounds limit that is around 0.2 mg/l. This limit will be much lower than the 1 mg/l most systems had. The implementation of this limit for communities will come after the TMDL is approved and will be implemented in the next permit or as part of a permit modification.

If you search TMDL on the WI DNR website, there are many resources to see if you are in a TMDL, and it lets you know what the status of your current TMDL. Knowledge is power, stay engaged in the process.

Jesse Hass,
WRWA Wastewater Technician/Trainer Wastewater Specialist
The information I provided for the Upper Fox – Wolf River TMDL does not apply to everyone, it is just an example of some interesting things I noticed with the Upper Fox – Wolf River TMDL. There are many TMDLs across the state that are in different phases of development. If you are in a TMDL that is currently being developed, stay involved. There are also many systems that are not in an area where there will be a TMDL. Some cities will just be given a limit. There will usually be meetings that are held to discuss the impact of the limits you will be receiving. Attend the meetings and pay attention to the DNR website for important dates for meetings and comments. If you search TMDL on the WI DNR website, there are many resources to see if you are in a TMDL, and it lets you know what the status of your current TMDL. Knowledge is power; stay engaged in the process. Ask questions about your phosphorus limits and try to get a definitive timetable on implementation of these limits. Before it comes time to meet these limits, start gathering data for the best ways to do so. Ask other cities what they are planning to do and what technologies they are considering. If you hear of a technology that is working, try to go see it in operation and ask the operators what they like and do not like about the process.

It is going to be an interesting next 5 to 10 years as most systems try to meet lower phosphorous limits. Stay on top of things, tour plants, and go to classes and conferences to try and be as informed as you can. Meeting any lower limit might be a financial burden for many communities. Do research on different funding options so you know what loans and grant are available for your community.

Jesse
You'd have to agree that most municipalities could use a bit of extra money these days, and you're limited on how to generate it for your utilities without raising rates (and we know how popular that is). Septage haulers in the state are also limited on where they can dispose of their waste, especially during a long snowy winter such as this. It's a win-win situation if a wastewater treatment plant can take and treat their holding or septic tank waste, while charging for the service.

BUT, (and you know I'd have a “but” in there somewhere) there are some conditions where you may not be able to take extra waste.

1. If your plant is currently up to its design load. Look at your O & M manual or talk to your design engineer.

2. If you have a small pond system, especially if it’s not aerated. These generally are not able to handle large amounts of organic waste.

3. If it is porta-potty waste. Only larger facilities are able to handle the extremely high BOD and TSS.

4. If you don’t know what you’re getting. I can’t stress enough that you need to be sampling each and every load of this waste. Even if you don’t test the sample for anything else, take a pH of it and store it until the waste is theoretically through your plant. If your sludge age is 10 days, keep the sample for 10 days.

5. If you allow disposing of the waste when operators are not on duty, you need to be there to take samples, and monitor the process, and keep track of the amount that your plant is accepting. Ninety-nine percent of haulers are honest and great to work with, but it only takes one to put your plant over its permit limits or worse. Many times the hauler doesn’t even know what they’re bringing to you, and how it affects your facility. Communicate with them. Explain your concern. I learned from experience many years ago that just one 3,000 gallon load of pesticide unknowingly brought from an orchard holding tank will kill out the microorganisms in a large facility. After that, I started sampling each load.

6. If it is waste from an industry, and not a household, you need to test it for BOD, TSS, ammonia nitrogen, phosphorus, and anything else that may be of concern and charge accordingly. The industry should also have provided you with their Safety Data Sheets prior to your agreement to take the waste. Remember that it’s costing your facility to treat and dispose of phosphorus, BOD, solids, etc.

7. If the waste is supposed to be holding tank waste, but it looks like sludge. There seems to be an epidemic of people trying to save money by pumping the clear water out of their holding tanks. The hauler probably doesn’t realize that they’re doing this, but it plays havoc on the loading in your facility. You’re also charging them for holding tank waste when what you’re receiving is more like porta-potty strength waste. Also, when discovered, the hauler needs to inform them that this practice is illegal.

8. If you have no way to remove solids. The ideal setup is a septic intake station with solids removal. This may be worth consideration if you take large amounts of waste. USDA Rural Development has funding for these types of improvements.

Make sure that your municipality has a good contract that protects your facility when receiving septage or industrial waste.
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Since the early 1990s Wisconsin Rural Water Association has been assisting municipal water systems with developing source water protection plans. For the last nine years I have been working as the Source Water Specialist for Wisconsin. Recently a utility approached me for assistance with source water protection (SWP) because they really didn’t know much about it. After going over the process they suggested that it might help other utilities gain a better understanding of the program if I write an article on SWP and how WRWA assists utilities with it. While I think that most operators know what SWP is all about, our journal reaches other individuals such as clerks, board members and others. So whether you have never heard of source water protection before or you have been in the industry for years and just want to refresh your memory, I hope this article will provide a good overview of the program.

Source water protection is a preventative approach that protects drinking water by working to prevent contaminants from entering surface waters or groundwater aquifers that serve as the water source for a drinking water supply. When done correctly, SWP avoids potential health risks, costly treatment systems or replacing contaminated water supplies. The SWP program has its origin in the Safe Drinking Water Act. Originally passed in 1974, the SDWA regulated the nation’s public drinking water supplies for the protection of public health. The original SDWA focused primarily on treatment for providing safe drinking water; however in 1996 an amendment recognized and outlined a six step process for source water protection.

The six steps outlined in the 1996 amendment of the SDWA are:

1) Delineate the source water protection area. This step determines the area that contributes water to a drinking water supply. For a surface water supply this would be the watershed or watersheds that primarily contribute water to the river or lake from which the water supply draws its water. In Wisconsin we have a majority of the public drinking water systems are groundwater systems.

The Wisconsin Rural Water Association Source Water Protection program works with communities to develop and implement SWP plans.
For systems using groundwater the SWP area is the land area where precipitation infiltrates into the ground and becomes groundwater and could eventually end up being pumped out of the ground by the well.

2) Inventory known and potential sources of contamination. A variety of land use practices could lead to contaminants being released into the ground and flowing towards the well. All known land use activates in the source water area that could potentially lead to groundwater pollution need to be documented.

3) Determine the susceptibility of the public water system to contaminate sources within the SWP area. Inventoried threats need to be evaluated to determine the nature and severity of the threat to the likelihood that they will contaminate the water source.

4) Notify the public about threats identified in the contaminant source inventory and what they mean to the water source. The public plays a critical role in acting to prevent contamination.

5) Implement management measures to prevent, reduce or eliminate risks to the water supply. Management measures are specific to each water source and the kind’s potential contaminant sources present. Measures can include working with landowners or businesses that pose a threat to the water source or instituting land use controls such as zoning ordinances.

6) Develop contingency planning strategies that address water supply contamination or service interruptions. It’s important to have plans in place for an alternative or replacement water supply in the event of short or long-term water supply disruptions.

In Wisconsin the SWP program is overseen by the state drinking water program within the DNR. For groundwater systems the DNR requires a wellhead protection plan for every new municipal supply well drilled since 1992. For wells drilled before 1992 wellhead protection plans are not required however the DNR encourages water systems to develop them. Requirements for wellhead protection plans and what needs to be in each plan are found in NR 811.12(6).

The Wisconsin Rural Water Association Source Water Protection program works with communities to develop and implement SWP plans. When developing a plan we start by meeting with utility personnel and other people interested in providing input into the plan. Then we inventory potential contaminant sources within ½ mile of each municipal well. Once the initial meeting and contaminant source inventory are complete we work on drafting the plan. Once the first draft is done we have a second meeting to go over the plan, talk about any concerns identified by the plan and develop the management strategy. After the second meeting the plan is typically ready to be finalized and sent to the DNR. The DNR reviews and approves the plan. When a community has an approved plan, they receive additional preference points when applying for Safe Drinking Water Act funding. One of the most effective methods of protecting source water is by managing land use near a well using an ordinance. A community can adopt a zoning overlay district to provide additional protections for the water supply. We are able to help draft those ordinances and can even work with village boards or city councils to review and adopt the ordinance. If you are interested in developing or updating a source water protection plan or wellhead protection plan for your community feel free to contact me. Andrew
### PSC WATER RATE INCREASE ORDERS ISSUED
#### DECEMBER 1, 2018 – FEBRUARY 28, 2019

<table>
<thead>
<tr>
<th>Utility Name</th>
<th>Order Issued</th>
<th>Overall % Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior Water Light and Power Company</td>
<td>12/20/18</td>
<td>8.45%</td>
</tr>
<tr>
<td>Reeseville Water Utility</td>
<td>12/11/18</td>
<td>21.23%</td>
</tr>
<tr>
<td>City of Mauston Municipal Water Utility</td>
<td>12/14/18</td>
<td>34.05%</td>
</tr>
<tr>
<td>Lake Mills Light and Water Department</td>
<td>12/14/18</td>
<td>19.88%</td>
</tr>
<tr>
<td>Village of Sussex Water Public Utility</td>
<td>12/21/18</td>
<td>27.85%</td>
</tr>
<tr>
<td>Village of Sussex Water Public Utility</td>
<td>12/21/18</td>
<td>12.43%</td>
</tr>
<tr>
<td>Waterloo Water and Light Commission</td>
<td>01/02/19</td>
<td>28.11%</td>
</tr>
<tr>
<td>St. Croix Improvements Inc.</td>
<td>01/16/19</td>
<td>-15.42%</td>
</tr>
<tr>
<td>Village of East Troy Municipal Water Utility</td>
<td>01/31/19</td>
<td>-9.87%</td>
</tr>
<tr>
<td>Kimberly Municipal Water Utility</td>
<td>02/11/19</td>
<td>23.46%</td>
</tr>
<tr>
<td>Sharon Waterworks and Sewer System</td>
<td>02/25/19</td>
<td>7.4%</td>
</tr>
<tr>
<td>Burlington Municipal Waterworks</td>
<td>02/26/19</td>
<td>16.12%</td>
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<tr>
<td>Melvina Municipal Water Utility</td>
<td>02/26/19</td>
<td>62.51%</td>
</tr>
<tr>
<td>Poinette Municipal Water Utility</td>
<td>02/28/19</td>
<td>10.87%</td>
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### PSC CONSTRUCTION AUTHORIZATIONS ISSUED
#### DECEMBER 1, 2018 – FEBRUARY 28, 2019

<table>
<thead>
<tr>
<th>Utility Name</th>
<th>Order Issued</th>
<th>Construction Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paddock Lake Municipal Water Utility</td>
<td>01/14/19</td>
<td>$4,438,000</td>
</tr>
<tr>
<td>Cobb Municipal Water Utility</td>
<td>02/01/19</td>
<td>$738,270</td>
</tr>
<tr>
<td>Sextonville Waterworks Sanitary District</td>
<td>02/15/19</td>
<td>$37,520</td>
</tr>
<tr>
<td>Lomira Municipal Water Utility</td>
<td>02/22/19</td>
<td>$2,458,274</td>
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<tr>
<td>Lyndon Station Municipal Water Utility</td>
<td>01/23/19</td>
<td>$1,003,350</td>
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<tr>
<td>Alma Center Water Utility</td>
<td>01/31/19</td>
<td>$963,500</td>
</tr>
<tr>
<td>Niagara Municipal Water Utility</td>
<td>12/21/18</td>
<td>$116,227</td>
</tr>
<tr>
<td>Spring Valley Waterworks</td>
<td>02/22/19</td>
<td>$478,452</td>
</tr>
</tbody>
</table>

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NEW TANKS — Rick DiZinno
(270) 826-9000 ext. 2601
EXISTING TANKS — Patrick Heltsley
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5.5“ x 8.5” Portrait
4.25“ x 5.5” Portrait
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Hello everyone. The 31st Technical Conference is history and I want to thank all that were there. The support for Rural Water has been incredible. Networking with your peers has a value as much as the actual training sessions. The experiences of other operators can give you a good insight on how you can solve or avoid problems at your system.

Driving home today, I ran across several spots with high water signs and water standing on the road. As an industry we have the duty to prepare for bad things to happening. Floods, vandalism, power outages, hazardous material spills, the list can go on. Preparing for disasters, or everyday problems, develops resiliency in our system. Resiliency is the means by which you can recover from problems large or small and get back to normal operations. Sometimes the problems are small, sometimes they are very large, such as a flood or tornado. One small event should not have a great effect on the system and we should have the plan, and means, to solve the problem quickly. Our plans for catastrophic problems, or disasters, should also help us recover quickly and put our systems back into production quickly. America’s Water Infrastructure Act of 2018 is going to require utilities to dust off and update the Vulnerability Assessment and Emergency Response plans we all did as a result of a 2002 bill. These plans were developed to sustain our systems and keep providing public and environmental health though periods of adversity. When was the last time you reviewed your Vulnerability Plan or Emergency Response Plan?

These were never intended to be a one and done document. They are living documents and should be reviewed and updated occasionally. Keep in mind that if a disaster, major or minor, occurs at your system you need a plan for recovery. If you pull out your VA or ERP and it has old, outdated information, contacts or phone numbers, you will be held responsible. There were tools to assist systems back when we all developed these plans, and there will be tools to help again. We're still waiting for more info from EPA, but when it comes we will be ready to get out and help you review and redevelop your plans.

As of now the requirement is for utilities serving over 3,300 to review/redevelop VAs and ERPs, but it will surely be recommended for all public utilities. Improving your Cybersecurity program will be part of that. We will be offering Cyber Security training this summer, so stay tuned and watch for our weekly training announcements and also our website.

Scott
Hello Everyone,

Oftentimes during my onsite visits I get asked by the OTM/NN water operators, “what more can I do for my water system.” In most cases I tell them to start practicing “Preventative Maintenance.” Practicing Preventative Maintenance goes a long way for any water system and the operator maintaining the system. I put together just a few helpful tips to get you started to working towards practicing and developing Preventative Maintenance skills.

• Record well pump running times and pump cycle starts.
  From the hour meter and cycle counter. Record the running times and number of cycle starts for your well pump. Be sure to take these readings at about the same time every day. Comparing daily numbers will alert you to potential well problems.

• Checking and recording water levels in your storage tanks
  You should check the water level in each storage tank daily to ensure that the tank levels are within the normal operating range.

• Inspect well pumps, motors and controls
  System operators should always be on the lookout for any defects in the system. Look, listen and feel for unusual sounds or vibrations.

• Clean pump house and grounds
  Keeping your pump house grounds clean will help with overall maintenance and operation of your system.

• Operate all valves within your distribution system
  All valves in the system should be inspected and exercised routinely. The frequency of inspection depends on the type of valve. But you should inspect valves at least twice a year. The inspection should include completely closing, reopening and reclosing the valve until it seats properly. Leaking or damaged valves should be scheduled for repair.

• Inspect Fencing and gates
  Treatment, storage and pumping facilities should be inspected at least twice a year to ensure that they provide adequate protection against vandalism and unauthorized entry. Warning signs should be posted to deter trespassing.

• Investigate customer complaints
  Complaints are often the first indication of a significant or potentially significant problem and should be investigated immediately.

• Inspect heater operations during the winter months
  Heaters should be checked throughout the winter or on a daily basis to determine that they are working properly.

These are just only a few steps you can take to begin Preventative Maintenance for your small water system.

By George Taylor
Wisconsin Rural Water Association
Small Water Systems Circuit Rider

We are always here to assist your water needs. George
WISCONSIN RURAL WATER ASSOCIATION

WRWA MEMBERSHIP (Annual Fee)

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<tr>
<th>Category</th>
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JOURNAL ADVERTISING RATES

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How many public employees have to die in the street before we care! What comes first, budget or fatality. After the death, people want to spend money. But, what about before someone gets seriously hurt or killed?

I hear about crazy drivers (trust me I also see my share) all the time. My question is, are you doing your part?

Let’s start with high-visibility clothing. I see jetting operations for example all the time. Sometimes no high-visibility clothing and most of the time Class 2 vest only. Sometimes one cone and sometimes 3 cones around the open manhole (I guess so it is protected). Why are we not separating ourselves from traffic and why are we not wearing Class 3 clothing? Is it money?

✔ Short sleeve Class 2 t-shirts - $12.00 compared to short sleeve Class 3 t-shirts - $15.00
✔ Long sleeve Class 2 t-shirts - $15.00 compared to long sleeve Class 3 t-shirts - $18.00
✔ Bomber Class 3 jackets are $35.00 - $50.00

So what are you worth? I see locators all the time, no protection, Class 2 vest and their backs to traffic. You have a better chance of being seen with Class 3 clothing on. Which means you have a better chance of going home. Class 3 is when the wearer must be conspicuous through the full range of body motions at a minimum of 1280 feet, and must be identifiable as a person.

You should consider certain specific conditions such as atmospherics, sight/stop-distances, training, regulations, proximity, etc.

✔ Vehicle speed should not be considered in isolation to these variables.
✔ Extreme conditions might exist which require performance levels in excess of Class 3.

What about arrow board signs? Are your vehicles equipped with them? Pickups, utility vehicles, etc. Point is, are you trying? Or, do we accept this is okay and not try to get money in the budget! Every year try and get money in the budget, one arrow board sign, 28” cones (required for high-speed and night time), or better warning signs. Most individuals don’t want to have to put out 28” cones; they’d rather have smaller ones.

Do people see them? Additional, Class E pants at night, when flagging, inclimate weather, extreme conditions, etc. Also, Hi-Vi protective helmets when working in the street.

WHEN IS ENOUGH, ENOUGH; BEFORE OR AFTER SOMEONE DIES!

Vince Matarrese,
Advanced Safety Technology, Inc.

Working in the street is one of the most dangerous jobs there is.
Most supervisors or managers don’t even have a copy of the 2009 Manual on Uniform Traffic Control Devices (MUTCD): http://wisconsindot.gov/Pages/doing-business/local-gov/traffic-ops/manuals-and-standards/wmutcd/wmutcd.aspx

Do they know what the minimum requirements are? No! Do they care? You can answer that one.

Someone just told me shadow vehicles aren’t recommended. For mobile operations, a shadow vehicle may be positioned prior to the work operation to protect workers from vehicle intrusions as the operation moves with the flow of traffic. For this application, the shadow vehicle is occupied by a driver and also should be equipped with a TMA. When equipped with a lighted arrow panel or static signing, shadow vehicles used in mobile operations also serve to warn approaching drivers that the shoulder or travel lane is occupied by work activities and that the driver must move into the adjoining open lane. FIELD GUIDE FOR THE USE AND PLACEMENT OF SHADOW VEHICLES IN WORK ZONES - Federal Highway Administration (FHWA), U.S. Department of Transportation (DOT)

If you read this and see me, ask me about in front of my house.

I will never believe it, even though I’m still told anyone can do that job. Working in the street is one of the most dangerous jobs there is. I don’t care if you are a utility worker, street department, police officer, fire department, etc. You don’t have control of your work area!

Remember, it’s all about going home. vince
Hello Everyone! I am Annie, the new Circuit Rider in the southern part of the state. Grateful to be a part of WRWA, and looking forward to meeting all of the members out there. We’ve all just experienced a good old-fashioned Wisconsin Winter. It has been a long time since we have seen one like this. Haven’t had this many snow days in a while. Never thought we would see the end. The calendar swiftly went from January to April 1. If you haven’t had time to do all of your favorite winter activities, you missed out. There certainly was not a shortage of snow. Even in the southern part of the state, snowmobile trails were open more than one weekend as opposed to years in the past. It was nice to see the trails open again for all to enjoy.

Speaking of time flying, this may be the year your DNR water sanitary survey is due. Have three years gone by already?

How do you prepare for the survey? Let’s take a look. Some items on the checklist may include:

**IS THE SOURCE ADEQUATE IN PROTECTION, PHYSICAL COMPONENTS, AND CAPACITY?**
- Has an acceptable wellhead protection program been designed and implemented?
- Are unused wells properly abandoned and reports on file with the DNR?
- Are all sources adequately protected from unauthorized access to facilities, such as fencing, gates around facilities, security systems in place, buildings and windows locked and secure, security lighting installed to deter vandals and break-in’s, and good landscaping practices.
- Are well construction reports on file with the DNR and are wells accurately maintained?
- Are the source capacity and the back-up source sufficient to meet current and future demands?

**STORAGE FACILITIES**
- Is the storage capacity sufficient to meet water use demands?
- Are interior inspections done every 5 years with a complete drain down every 10 years.
- Are acceptable contamination prevention methods implemented and the storage facility protected from flooding?
- In the case of ground reservoirs, is emergency power available for pumping?
- Are adequate security measures in place at the storage facility?
WELLHOUSE – PUMP FACILITIES
- Is the type of pump(s) and capacity of the pump(s) appropriate and sufficient for the system?
- Does the discharge piping and its subordinate parts meet NR811 requirements?
- Are the pumping controls in good working condition?
- Is there emergency power available to operate the pumps?
- Is the raw sample tap acceptable, and are there any unprotected cross-connections?

WATER TREATMENT
- Is the current treatment acceptable for public health?
- Are softening, sedimentation and filtration processes adequate and in good working order?
- Are the chemical pumps in proper operation, transfer lines and injection points free of build-up?
- Is the chemical storage protected from contamination with an overlapping cover, sealed openings, and made of approved material?
- Are chemical storage / spill containment practices sufficient with chemical handling and spill response protocols in place?
- Is the water system protected from accidental chemical overfeed with an anti-siphon device and power outlet linked with the well pump power?
- Are there any unprotected cross connections within the water system facilities?
- Is the treatment facility O & M complete, and appropriate testing and record keeping practices being used for the testing of the water quality?

DISTRIBUTION SYSTEM
- Be sure your distribution system map is available and up to date.
- Are there adequate fire flows throughout the distribution system, and is there adequate system pressure throughout the distribution system? (minimum of 35 psi)
- Hydrant flushing and valve exercising programs should be current? Hydrants flushed every 2 years, and valves every 4 years.
- Does the system have an acceptable cross-connection control ordinance and inspection program?

WATER QUALITY MONITORING AND REPORTING
- Is the monitoring site plan on file with the DNR up to date, or does it need to be reviewed or expanded?
- Are the sampling faucets, locations, and the sampling procedures acceptable?
- Are bench sheets, on-site logs, monthly operational reports, and cross connection reports accurate and up to date and readily available?
- All customer water quality complaints documented and kept on file?

OPERATOR CERTIFICATION
- Is the operator certified with the appropriate grade of certification, and fulfilled continuing education requirements?
- Is the “operator -in-charge” assigned to the water system and on file with the DNR?

This is a good opportunity to employ good housekeeping measures. Sweep, mop, a fresh coat of paint will look really nice. Pick up any debris laying around such as unused containers, remove and properly dispose.

Remember, your DNR engineer is there to help you, and so are we, just give us a call anytime.

Again, looking forward to seeing you all soon! Annie
It's that time of the year again for flushing fire hydrants. Some of you may have already completed your spring water main flushing, but even if you are done you may want to do some “hydrant fire flow testing”. We have written a few articles in the past on fire flow testing but I thought I’d add a few more bits of info to answer some of the questions we receive on this.

Info from NR 811 on “water main design” and “hydrants” that I thought might answer some of the questions:

**NR 811.70 Water main design.** The design of water mains and distribution systems shall meet the following requirements:

4. **PRESSURE.** All water mains, including those not designed to provide fire protection, shall be sized after a hydraulic analysis based on flow demands and pressure requirements. The minimum and maximum normal static pressure in the distribution system shall be 35 psi and 100 psi, respectively, at ground level. The system shall be designed and operated to maintain a minimum residual pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow.

5. **DIAMETER.** The minimum diameter of water mains to provide water for fire protection and to serve fire hydrants is 6 inches. Larger mains are required if necessary to allow the required fire flow while maintaining a minimum residual pressure of 20 psi at ground level at all points in the distribution system.

6. **FIRE PROTECTION.** The minimum flow requirement for water mains serving fire hydrants is 500 gpm at 20 psi residual pressure at ground level at all points in the distribution system. **Note:** It is recommended that the actual fire flow design be based on the capacity of any fire pumper which may be connected to the water main and the type of services or buildings to be protected. It is also recommended that the local fire department be consulted to discuss needed fire flows before constructing water system improvements.

**NR 811.71 Hydrants.**

2. **SIZE.** Fire hydrants shall have a bottom valve size of at least 5 inches, one 4.5-inch pumper nozzle, and 2 2.5-inch nozzles unless the waterworks has established other hydrant criteria which are in accordance with AWWA standards C502 and C503 in effect at the time of design and are approved by the department. The connecting main between the supply main and the hydrants shall be a minimum of 6 inches in diameter.

Some steps you may want to follow for doing the fire flow testing:

1. Flush the hydrants to be tested. (This will prevent damaging the equipment from sand, stones or other particles.)

2. You will need a “hydrant pressure gauge” and a “pitot (PEE-TOE) gauge”. A hydrant pressure gauge is a standard pressure gauge tapped to a hydrant cap. It also may have a small petcock to release air from the gauge. A pitot gauge measures the total pressure of flowing water. It has a blade, a tube, a velocity pressure gauge and a petcock or it may be a diffuser with a built-in pitot stem and gauge.

3. Select a hydrant to test available (static) and remaining (residual) pressure.

4. Send a partner with a pitot gauge to the first hydrant “downstream” from the test hydrant. This will be the flow hydrant.

Remember to estimate and record the water used in flow testing/flushing hydrants on your annual water report!
5. Install a hydrant pressure gauge on a test hydrant, slowly open the test hydrant, release any air through the petcock and then close the petcock.

6. Slowly open the hydrant completely.

7. Read the hydrant pressure gauge and record the available (static) pressure on a hydrant card.

8. Signal your partner to open the flow hydrant slowly. When the hydrant is opened completely and the water is flowing clearly, your partner should take a reading with the pitot gauge. (Insert the pitot blade at least 1 ¼” away from the nozzle opening and hold it steady.) If you have a hydrant diffuser with a built-in pitot stem and a gauge all you have to do is read the gauge when it quits fluctuating.

9. As your partner is reading the pitot gauge, read and record the remaining (residual) pressure on your hydrant.

10. When you are finished, signal your partner.

You should now have a flow reading (gallons per minute) from the flushing hydrant and a static and residual pressure reading from the hydrant you are testing.

Insert your readings in this formula to determine your hydrant fire flows:

\[ Q \text{ at } 20 \text{ psi} = Q_f \times (P_{\text{stat}} - 20 \text{ psi})^{0.54} / (P_{\text{stat}} - \text{Press})^{0.54} \]

Where:
- \( Q_f \) = flow hydrant discharge (gpm) at pitot pressure
- \( P_{\text{stat}} \) = residual hydrant "static" pressure
- \( \text{Press} \) = residual hydrant "residual" pressure

For Example:
- \( Q_f = 1200 \text{ gpm} \)
- \( P_{\text{stat}} = 60 \text{ psi} \)
- \( \text{Press} = 46 \text{ psi} \)

Then: \( Q \text{ at } 20 \text{ psi} = 2,115 \text{ gpm} \).

Solution: \( 1200 \times (60 - 20)^{0.54} / (60 - 46)^{0.54} = 2115 \)

In order to do this calculation you will need a calculator that has an "x" raised to the "y" power function key. Calculate the value in the parenthesis first then hit the "x^y" key, then 0.54.

If you don't have a scientific calculator you can do this on an Excel spreadsheet on a computer using the formula: \( = ( \ldots )^{0.54} \). This raises the value in the parenthesis to the 0.54 power.

Remember to estimate and record the water used in flow testing/flushing hydrants on your annual water report! Also, estimate and record the water used in fire fighting! This is very important when looking at your annual “water loss” on your PSC Report.

Call if you have any questions, or need assistance, or if you want to borrow any fire flow equipment.
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Kasco Marine
KLM ENGINEERING
KUNKEL ENGINEERING GROUP LLC
L & S ELECTRIC INC.
L – R Meter Testing & Repair Inc.
L.F. George
L.W. ALLEN, LLC
LANE TANK CO INC.
Locators & Supplies, Inc.
M.E. Simpson Company Inc.
MacQueen Equipment, Inc.
Maguire Iron Inc.
MARTELLE WATER TREATMENT INC.
Martenson & Eisele Inc.
Master Meter, Inc.
McCann’s Underground Inc.
McCarthy Well Company
MCMAHON
MEAD & HUNT INC.
Metering & Technology Solutions
Metron-Farnier
Michels Corporation
Mid America Meter Inc.
MIDWEST METER, INC.
Midwest Testing LLC
Monroe Truck Equipment, Inc.
Morgan & Parmley, LTD
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mPower Innovations
MSA PROFESSIONAL SERVICES
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Prinsco, Inc.
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Red Flint Sand & Gravel, LLC
R.N.O.W., INC.
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Sabel Mechanical LLC.
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SERWE IMPLEMENT, LLC.
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SHEPHERD TECHNOLOGIES
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Synergy Sales LLC
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THE EXPEDITERS, INC.
Thein Well Company
Therma-Stor LLC
Therma-Tron-X, Inc.
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Tri-State Pump & Control, Inc.
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UEMSI/HTV
USEMCO Inc.
UTILITY SERVICE COMPANY INC.
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Victaulic
VIERBICHER ASSOCIATES INC.
VISU-SEWER INC.
Wachs Utility Products
WASTEBUILT ENVIRONMENTAL SOLUTIONS
Water Conservation Services, Inc.
Water Remediation Technology (WRT)
WATER SURPLUS
Water Tower Clean & Coat, Inc.
WATER WELL SOLUTIONS SERVICE GROUP INC.
Water Works Services
Wegner CPAs
Werner Electric Supply Company
WILLIAM/REID LTD.
Wisconsin Pump Works
Wonderware Midwest
XYLEM WATER CO. US INC

Members in “BLUE BOLD & ALL CAPS” are Corporate Members
Members in “RED BOLD & ALL CAPS” are Corporate Gold Members
Over the course of its more than 160-year history, Mueller Water Products has balanced steady, expansive growth with its roots as an innovative, family-owned business originating in Decatur, Illinois. The company was founded in 1857 by Hieronymus Mueller, a German immigrant who evolved to a career as an inventor and entrepreneur. Creating new and innovative products from faucets to sporting goods, Mr. Mueller and his sons obtained over 500 patents for various inventions. Over time, Hieronymus settled on water distribution products, having invented water pressure regulators, the first sanitary drinking fountain, and a method to “hot tap” pressurized water and gas lines using a machine that remains the industry standard to this day with only slight modifications.

Today, Mueller Water Products is North America’s largest manufacturer of water distribution products including engineered valves, fire hydrants, metering products and systems, as well as devices for leak detection and pipe condition assessment.

The company serves some of the world’s largest cities and water utilities while maintaining a focus on quality, durability and service, making it the manufacturer of choice for small towns to large cities to private water utility companies.

This balance of service, innovation and reliable solutions is on clear display in Wisconsin, where the company serves the state’s largest city as well as a small town directly across the Montreal River from Michigan. While these customers don’t look similar on paper, they are linked by their enthusiasm for the reliable local service provided by Mueller representatives.

Hurley, WI, is home to just over 1,500 people, located across from the city of Ironwood in the Upper Peninsula of Michigan. While Hurley’s water needs may not be the most extensive, they rely on Mueller durable service brass products to ensure that water service connections are made securely and is distributed safely and efficiently to all the residents.

In contrast to Hurley, the city of Milwaukee, relies on Mueller fire hydrants and gate valves. Though robust Mueller water distribution products can be found throughout the city of 1.5 million people, their hydrants are undoubtedly the most eye-catching in the immediate vicinity of Fiserv Forum, home of the NBA Milwaukee Bucks.

Opened just in time for the start of the 2018-2019 NBA season, Fiserv Forum hosts a wide range of concerts and events in addition to home games for the Bucks and Marquette University’s Golden Eagles men’s basketball team. With the help of a Milwaukee Water Works crew member, the fire hydrants surrounding Fiserv Forum now stand out in vivid purples and greens, the team colors of the Milwaukee Bucks. These inspired hydrants were the idea of Chad Schuster, a backhoe operator for Milwaukee Water Works. His original masterpiece caught the attention of both the Milwaukee Water Works superintendent as well as Bucks Team President Peter Feigin. Soon enough, Schuster had designed and painted 15 hydrants to be installed around the arena. With this inspired designed Mueller hydrants are providing Milwaukee on and off the court, through both reliable water distribution products and a major dose of Bucks pride.

In the decades since Hieronymus Mueller created his eponymous water products company, Mueller Water Products has grown to serve some of North America’s largest utilities, with its products being specified by the United States’ 100 largest metropolitan areas. The Company also continues to expand its product offering through acquisitions, the latest being Krausz Industries, a manufacturer of pipe couplings, grips and clamps. The company is also investing heavily in domestic manufacturing capabilities and new technologies in many of their 15 global manufacturing facilities.

Today, Mueller Water Products employs over 3,000 people throughout the world, with experienced sales and product representatives ensuring that each customer receives exceptional service, whether they’re in Houston or Hurley. With the Company’s focus on quality and reliability, it’s no surprise that Mueller Water Products has found a broad range of customers among the hardworking cities of the Midwest and the opportunity to help their teams win along the way.
ICE FISHEREE NORTH: A GREAT SUCCESS

Back in February I was involved in an event in Chetek that I thought was incredible. The event was the Fisheree North, held on the Chetek chain of lakes. What made this event so incredible were the snow storms. The Tuesday night before the Wednesday Class on Pumps and Motors was a blizzard dropping 7+ inches of snow. 14 out of 30 Operators signed up made it to the class, some after plowing all night. Later on Wednesday The Fisheree North held a Meet and Greet at Gilligan’s on Lake Pokegama This was very well attended by Operators and Sponsors. After registration and a meal that began at 5pm, you were allowed to begin fishing until 2pm Thursday afternoon.

I was surprised by how many fished all night. Thursday dawned cloudy and snowy, dropping another 8 inches of snow throughout the day. A lot of the time you could not see across the lake because of whiteout conditions. This didn’t stop the participants from enjoying the day. Many fish were caught with the Winners being Josh Gruber Team B&M 30.5” Northern, Troy Metz Team B&M Bass 16”, Dean Bergstrom Team CBS2 Walleye 16” and the Team event was won by CBS2 with 10 panfish weighting 8 lbs 6oz. Door prizes were also a part of the day, with many participants being drawn for some great prizes donated by both participating Team Sponsors and nonparticipating Vendors.

This event was a great success considering the whims of Mother Nature, but would never have been without the hard work of some very dedicated individuals. Jeff LaBelle, WRWA Technical Assistance Director

The inaugural Fisheree North sponsors were Advanced Drainage Systems, B&M Technical Services, CBS Squared, Cedar Corporation, Cooper Engineering, Core & Main, Crane Engineering, Ferguson, First Supply, Graef, LW Allen, Mac Queen Equipment, Northern Lakes Services, and Short Elliot Hendrickson. Thank You to all of the sponsors that made this event such a success by taking time to sponsor teams, and donate really nice door prizes.

This event was a great success considering the whims of Mother Nature, but would never have been without the hard work of some very dedicated individuals. Justin Thompson from Advanced Drainage Systems was the driving force behind bringing this event to Chetek. The committee put together by Justin consisted of Jon Strand CBS2, Cory Luft Core & Main, Jesse Claflin B&M Technical Services, Dean Bergstrom City of Cumberland (WRWA Board Member) and Dan Knapp of the host City of Chetek. This group of people put a lot of time and effort into this event, and with their dedication, I see this event growing in the future. Chetek is a great location for this event with many resorts, cabins and motel to make the stay enjoyable, with some really good fishing to boot. So make plans to join us on future Fisheree Norths, as Team sponsors, Door prize donators and attendees, you won’t regret it ...

Jeff
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### District 4: Northwest

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*Associate Members (Over 10,000 pop.)  **Other Than Municipal
A LEGACY OF LONGEVITY IN WATER STORAGE

After a quarter of a century, Lake Hallie's Aquastore® Tank remains corrosion-free. For the past 25+ years, a CST Aquastore® bolted glass-fused-to-steel tank has served the potable water needs of the Village of Lake Hallie, Wisconsin. Since the Village of Lake Hallie was incorporated in 2003, eleven years after the tank was built, the tank is actually older than the town itself! Their bolted steel tank performed so well that the Village hadn't given it much thought. In 2015, when the village needed additional water storage to accommodate the area's continued growth, they decided to continue the legacy of longevity by constructing a second Aquastore® in the form of a composite elevated tank.

Great Plains Structures, an Aquastore® tank builder in the Upper Midwest, was asked to inspect the original 25-year-old tank. “The water department told us the existing Aquastore® tank hadn’t received any maintenance since it was built,” said Bill Barr, co-owner of Great Plains Structures. Gary Spilde, Village trustee said, “Having an Aquastore taught us an important lesson about downtime and expense. We’ve had zero downtime, not a single day with that 25-year-old tank, and the positive impact of something like that on our budget has been considerable. That’s one of the main reasons we chose another Aquastore® for our second tank.”

The inspection of the Lake Hallie tank by Great Plains Structures was fairly routine. The focus of the inspection was to examine the tank’s overall integrity; specifically, the porcelain enamel coating, a proprietary coating developed by A.O. Smith back in the mid 1940’s and carried forward today by CST Industries of Dekalb, IL. After the inspection, Bill Barr of Great Plains Structures stated, “The worst thing we saw was a combination of neighboring tree moss and mildew on the exterior and an interior that needed new sealer installed on the vertical and horizontal bolt seams.” Lake Hallie then hired Great Plains Structures to power-wash the exterior porcelain coating to bring back its glass shine, seal the joint lines on both the exterior and interior, and install a passive cathodic protection system. “Total down time for the village was less than five days and the cost associated with this rehabilitation was approximately $50,000. Both the downtime and the cost were a fraction of what a typical painted tank would have required after 25 years. “Any painted surface is going to
fade over time and that’s not an image a growing municipal utility like Lake Hallie wanted to project. A glass-fused-to-steel tank’s porcelain coating is applied and fused to high strength steel at 1500 degrees Fahrenheit in a quality-controlled factory environment and will never need to be blasted or painted, said Barr. Great Plains Structures builds and services Aquastore® tanks across eleven states and recommends to all its clients to follow their state guidelines and supporting agencies for routine tank inspections, which is typically every three years. “Tank inspections are simple and straightforward,” said Barr, “and in some instances, failure to inspect can mean costly and unnecessary future repairs and downtime.”

Lake Hallie is a proud community of 6,448 residents—still young and growing. And the future looks as bright as the lasting finish on both of its Aquastore® tanks.

Currently, there are over 220 Aquastore® tanks in service in the state of Wisconsin. Since 1980, Aquastore® tanks have been an integral part of storing Wisconsin’s rural water, a testament to the longevity of glass-fused-to-steel tanks.

**ABOUT GREAT PLAINS STRUCTURES**

*Great Plains Structures* is a specialty contractor based in Vadnais Heights, MN formed by five owners with a combined experience of more than 100 years in the water and wastewater industry with their primary focus on building a legacy with the Aquastore® storage tanks. Whether it’s Municipal or Industrial, our consultative focus is on providing the right product for the right application. The most successful tank projects are those that begin as client partnerships, with thoughtful planning and communication. Our tanks, which are made in USA, provide the most sustainable choice for water and wastewater storage. We provide expert project planning, budgeting, schedules, and tank designs that allow you to make informed decisions that address your storage challenges and exceed your expectations.

We take pride in providing the highest quality bolted tanks, guided by best construction practices, working proactively and efficiently with our entire project team to maximize quality, safety, productivity, and value. *Great Plains Structures* provides complete tank construction services including project management, construction oversight, and our own, factory certified construction crews for every tank we install. Our dedicated team provides turn-key services that include site preparation, piping, concrete, and complete tank erection. *Great Plains Structure’s* service department offers complete tank inspections and preventative maintenance services for your potable water or wastewater system.

As an owner of an Aquastore® glass-fused-to-steel water or wastewater storage system, you selected a tank with the lowest maintenance requirements of any tank available today.
WHAT’S INSIDE MATTERS

DON’T SETTLE FOR LESS THAN THE BEST

SPECIFY VITRIUM™ PREMIUM TiO₂ TECHNOLOGY

The interior of ALL Aquastore® tanks feature proprietary Vitrium™ coating technology enhanced with titanium dioxide for the toughest glass available.

GET THE QUALITY YOU DESERVE

• Tough TiO₂ glass formulation provides longer life
• White interior is easier to inspect than darker coatings
• Electrostatically applied base coat application ensures consistent quality
• Factory certified "holiday-free" sheets
• Designed for use in both cold and hot climates
• Designed, fabricated, shipped and supported within the USA

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At A Glance …

31st Annual Technical Conference

WISCONSIN RURAL WATER ASSOCIATION

31st Annual
TECHNICAL CONFERENCE

WRWA SPRING 2019 / www.wrwa.org
WRWA 31st Annual Technical Conference - Award Winners

Thank you to everyone who participated in the WRWA 31st Annual Technical Conference and helped make it a success.

Congratulations to this year’s winners!

Award Winners not shown:

Operator of the Year: District 4 - Seth Petersen - Luck
Lifetime Achievement: Jeff Moore - Adams
Lifetime Achievement: Mike Bartels - Village of Avoca
Lifetime Achievement: Dave Magnussen - Horicon
Friend of Rural Water: Joe Kniseley
Business Member of the Year: USA Bluebook
Service Award: Gayle Mathews
Service Award: Mark Jerome
Service Award: Bob Stanislawski
31st Annual TECHNICAL CONFERENCE

Raffle Prize Winners

70" Big Screen TV
Adaptor Inc.
Alan Kunz

Yeti Cooler Tundra 45
Water Well Solutions
Karl Rasmussen

Sportsman Outdoor Package
WRWA Board & Staff
Leland Anderson

Box of Booze
Sealing Systems
Charles Setter

Orion Otter 10x42 Binoculars
McMahon
Paul Gagas

Hummingbird
ICE 45 Fishing Flash
CTW
Bill Miller

Guided Bear Hunt & A-bolt
CBS Squared
Brent Hangartner

Hummingbird Telix 5 Fish Finder
Xylem
Lee Schwier

Legend 24 Gun Safe
Core & Main
Clifford Stenulson

Rola Dart Hitch Mount
Drydon Equipment
Mike Stoffel

Benchmade Limited Edition
Folding Knife
Drydon Equipment
Jerry Doriott

Garmin XERO A1i Bow Range
Martelle Water Treatment
Curtis Hebbe

4-16x44 Rifle Scope
Sensus
Scott Groth

2 Club Box GB Packer
Game Tickets
Delta 3
Dennis Baldwin

Tailgate Gas Grill Package
Fischer-Harris
Randy Dorn

$500 Cash
Western WI Water Professionals
Jennifer Buetow

Callaway Epic Flash Golf Driver
EnerGenics
Rob Radloff

DeWalt 4 tool Combo
Dixon Engineering
Eric Olson

Stihl Chainsaw Package
Robert E. Lee & Associates
Chad Schuebel

Stihl Blower 350/430
Hardy Pro-Air
Travis Thull
RAFFLE PRIZE WINNERS

Stihl Chainsaw Model MS 211
SUEZ Water Advanced Solutions
Ryan James

$400 Cash
Northern Lake Service
Shawn Bigelow

2 Weekend Passes to Kohler Grand Cretex
Ross Babock

Packer Memorabilia
Crane Engineering
Scott Halbrucker

Browning BPS 12 Gage Municipal Well & Pump
Dale Andreae

FoxPro Banshee Skull Camo Caller
Advanced Safety Technology
Jeff Gaede

Holy Stone HS700 FPV Drone
L&S Electric
Richard Pavloski

RN Fishing Charter for 4
Hydro Corp
Wayne Castle

Air Riffle with Case
Ruekert & Mielke
Brent Leech

1250 Watt Invertor Generator
Cedar Corp
Bill Blashka

Fleet Farm Gift Cards
Copperhead
Matt Huston

St. Croix Rod, Reel & Tackle
Visu-Sewer
Andy Steisel

Toro Blower & Trimmer
Mueller Company
Nick Smaby

One Night Stay at the Chula Vista General Engineering
Brad Hangartner

Trappers Turn Golf Package for 4
American Flow Control - Waterous
Tony Averbeck

$550 Kalahari Gift Card
MSA Professional Services
David Nieting

$350 Cabela’s Gift Card
Brent Strand
Hangartner

Duke Single Ladder Stand
A.Y. McDonald
Brad Gretschmann

Fuji Mountain Bike
Southwest Water Operators
Sarah Nunn

Wicked Ridge Crossbow Package
L.W. Allen
Norm Baker

Packer Gift Package
Ayers Associates
Brian Richichi

Savage Axis 243
Hawkins Water Treatment
Kevin Mraz

Brewer Game Package
with 2 Front Row Seats
raSmith
Jim Koback

Guided Musky Trip
Wisconsin River
Envirotech
Jeff Peterson

Milwaukee Packout Tool Box
First Supply Group
Cody Dickrell
RAFFLE PRIZE WINNERS

Great Lakes Fishing Adventure
Northern Sewer Equipment
Seth Ricker

2 Layout Blinds & Field Bag
Tri-County Waterworks
Ethan Pickett

Hunters Widow Coach Purse
Becher-Hopper
Brad Gretschmann

Weber Grill
Monroe Truck
Michael Roberts

$500 Cabelas Gift Card
J.F. Ahern
Joshua Kern

$250 Cash
Town & Country Engineering
Loren Schwier

Ruger 223 Rifle
Sabel Mechanical
Mark Gruber

Milwaukee Tool Package
Ford Meter Box
Ronnie Mumm

St. Croix Rod Fishing Package
Advanced Drainage Systems
Mitchell Brown

Milwaukee Brewers Game Package
Dorner
Mark Gruber

20’ Jayhawk 2 man
Ladder Tree Stand
Baxter & Woodman
Brad Gretschmann

$33 Eskimo Stingray Ice Auger
Vierbicher
Steven Deegan

Henry Classic 44 Magnum
Cooper Engineering
Jessica Morrison

Yeti Hopper Two 30 Can
Werner Electric
Anton Skof

Jiffy Electric Auger
Etna Supply
Dale Thoma

Otter XT Resort Fish House
Etna Supply
Gary Ovaska

Kayak Package
ISG
Alex Vaness

45 QT Denali Cooler
& Case of Beer
Dakota Supply Group
Andrew Bartman

S33 Eskimo Stingray Ice Auger
Clearas
Tia Pitas

$250 Visa Gift Card
Cummins Power
Scott Holzem
RAFFLE PRIZE WINNERS

Glendel Buck & 6x6 Block Targets
American Leak Detection
Jeff LaBelle

Yeti Cooler
Wisconsin Pump Works
Timothy Hayden

Callaway Irons
Neenah Foundry
William Colby

REI Yeti Outdoor Package
Jasper Engineering
Mike Ertl

Sony Turntable/Speakers/Records
M.E. Simpson
Gary Ovaska

Husqvarna 435e Chainsaw
Quality Flow
Dale Thoma

Trappers Turn Foursome 18 Holes
Tappers Turn & American Flow Control
Steven Jones

Husqvarna 435e Chainsaw
Quality Flow
Dale Thoma

RAFFLE PRIZE Winners not shown

• Addorable Puppy - Hydro Klean, John Tachen
• Kayak Package - Short Elliott Hendrickson, Jerry Leque
• Fish Locator Flasher - P.J. Kortens, Mark Duerr
• Helix 5 Fish Locator - Badger Meter, Julius Weisensel
• Rugid Cooler with Meat - Serwe Implement, Bryan Viitala
• Generac 2000 Generator - Ferguon/Davies, Bob DeMars
• Apple Watch - EJ (East Jordon Iron Works), Tom Hinde

• $500 Cabelas Gift Card - MacQueen Equipment, Julius Weisensel
• Helix 5 Fish Locator - KLM Engineering, Michelle Schrantz
• $250 Fleet Farm Gift Card - Team Laboratories, Joe Kottwitz
• Turkey Package - Kunkle Engineering, Aaron Herzberg
• Stainless Steel Fire Ring (Honoring Vets) - American Structures, David Bekkum
• Go Pro Hero 7 - Insituforn, Tom Hinde
• PSE Compound & Case - Great Lakes TV & Seal, Eric Van Laanen

31st Annual
TECHNICAL CONFERENCE

Thank for your support!
Mission
“Assisting, educating and representing our members in the wise use of water resources”
PRESIDENT’S MESSAGE

By Ramon Knudtson (Melrose)

Welcome Everyone to the 2019 WRWA 31st Annual Technical Conference! As usual the Rural Water Staff and Committees have been very busy getting ready for this year’s Conference and I would like to thank them for all the work they do. 2018 was another successful Conference in La Crosse, and again we found we had to make a few changes due to vendor requests. This year I feel that the experience will be the best one we ever had. Thank you to all the people that made suggestions and helped us work out the logistics of these changes. We are always looking to improve the Conference and we welcome any suggestions you may have for the future.

2018 was a year of changes. We elected Kevin Mraz as National Director, and we welcomed Bill Miller from Bloomer as the new District 4 Board Member. Both Kevin and Bill will be great additions to the Rural Water team. We had a chance to hire a new Water Circuit Rider and we gained a new Energy Efficiency program which will bring in another employee.

In 2018 we were able to retire the debt to the WRWA Technology Center. This allowed us to pay for 5 water training sessions and offer them to our membership for no fee to our members. We offered fee free training in each district, and the classes were well attended.

Hopefully we can make this an annual tradition. These training sessions shows that all the money spent for the Sportsman’s Raffle comes back to you. We are also able to buy several pieces of loaner equipment.

I would again like to thank all the vendors and the Sportsman’s Raffle Committee for their work and service to WRWA. Remember when you buy a ticket for a raffle prize all the money comes back to the WRWA and on to you. Thank you to all the vendors that donate to our association.

Funding for 2018 turned out to be very good. We were very seriously worried last year due to being zeroed out in president Trump’s budget. Thankfully, our congressmen valued rural American infrastructure and funded us to historic levels. This year we have maintained those levels and WRWA will be in good financial footings for another year! Keep your letters of support coming so we can show our elected officials that we do provide an essential service to rural America.

We owe much of our success to the input and involvement of water & wastewater industry representatives on our committees and Board. If you’re interested, or have any questions on how you can become involved, please contact me, your Board member or the WRWA office. Have a great 2019, be safe in everything you do and enjoy the conference.

NATIONAL DIRECTOR’S REPORT

By Kevin Mraz (Algoma SD)

In June 2018 I had the great honor and privilege to be chosen to represent our State of Wisconsin as your Wisconsin Rural Water Association National Director. First and foremost, I have to give so many thanks and praise to the previous Director Roger Freund for the excellent reputation he has built for Wisconsin among all the United States and Porto Rico that NRWA serves. Our Wisconsin utilities are true leaders in the nation for exceptional water quality and level of customer service!

At the national level I was seated at the September National Rural Water Association Conference in Fort Worth, Texas and am serving on the Regulatory, Legislative, and Conference Committees. These committees require substantial research and effort to help guide the national conversation regarding water issues such as lead service lines and PFAS contamination in the drinking water and the wastewater treatment facility solids created from these generating industries. NRWA is also taking a stance on Phosphorus and Nitrate by actively seeking non-point source reductions as a cost-effective alternative versus the great expense to reduce the very small loading from WWTP discharges. I look forward to reaching out to many of you for your expertise regarding how these regulations impact your utility and to collect your suggestions with the intent to bring them to the national level.

In February, WRWA Executive Director Chris Groh, Board President Ramon Knudtson, and I travelled to Washington DC to meet with our elected officials, their staff and federal agency representatives. We delivered a message to them to continue funding resources to Rural America in order to provide safe & affordable drinking water and help protect our valuable natural resources. Our message was that continued funding will allow maintenance and upgrades to existing infrastructure, enable Rural America to add needed infrastructure and to continue WRWA and NRWA to ensure that technical assistance and training is available. These grassroots efforts have provided our legislators and their staff the knowledge that Rural Water delivers an essential service to all of Rural America. Our Annual Washington DC rally was a success, several congressmen from WI are very strong supporters of our concerns and needs for continued SDWL and CW funding along with pushing for new assistance to meet the Clean Water Act of 2018. Your WRWA president Raymond Knudtson represented us at the State of the Union Address, regardless of your political persuasion, it brought me great honor to see him attend to show the importance of our water utilities and the services we provide including fire protection. A huge thank you to Congressman Ron Kind for extending this invitation to Mr. Knudtson.

One of our accomplishments is bringing the national conference to Milwaukee in September of 2021(mark your calendars). I hope to see many of you there as you will find numerous interesting programs and lectures to learn from.

As emerging issues or concerns arise please feel free contact your local WRWA staff or reach out directly to me. Our Association has a wealth of information and assistance and I am here to make sure you all benefit.
Executive Director’s Report

by Chris Groh (Eau Claire)

The first year of a new Executive Director is busy with making the Association into their own vision of what they would like to present to all the members. This year I have been trying to make the Association a little more open, incorporating new ways of doing things and generally making management more streamlined and easier. If I did my job correctly, my staff would be more involved and have taken ownership of their work. I hope that all the WRWA members have noticed that we have become more responsive and have offered more resources to make their work easier.

Once again this year WRWA has grown by adding a new program for Energy Efficiency. This position goes along with the sustainability and asset management portion of our industry. WRWA was started as an Association that helps water and wastewater systems run their systems in compliance and efficiently. Now there is a program that encompasses the energy aspect of sustainability. As of this writing there has been 18 energy audits and it is becoming a very successful program. We are saving systems a lot of money in energy bills and efficient system operations.

Also this year WRWA has been offered a third Water Circuit Rider position. Funding from 2018/2019 has allowed several states to hire an additional circuit rider to help reduce wait time for help and offer more visits to help operators run their systems better. We have brought on Annetta Vorueden (former operations specialist at Johnson Creek) and she is currently on the road working with systems across southern Wisconsin. The addition of another circuit rider really does allow a faster response and more timely stops to help our member operators.

Last year at this time we had just paid off our technology center. With the money we did not have to pay towards that mortgage, we ran a series of fee free water training sessions. The plan is to offer these fee free sessions yearly. This will once again allow operators to attend a free water class from WRWA staff and vendors. This was a common practice many years ago before the funding for water training was stopped. The return of these limited sessions again shows that our training is a valued resource.

Legislative issues have been largely nil in 2018 due to elections and the lack of willingness of legislators to commit to an issue. As it turned out, after the elections, legislation kicked in bigtime and the end of 2018 became very busy. The new administration is planning changes, PSC is planning action on PSC185, and we have been busy looking at regulations that will affect municipal systems. Specifically we are dealing with construction authorizations (meter replacement) and funding lead pipe replacement through the Leading on Lead program.

An Association’s success cannot be possible without the continued support of our membership. We currently have 672 communities, sanitary districts and tribal entities as system members. These members not only support us by paying membership fees, but also by supporting the professional development of their employees by allowing them to attend our training & events and serve on our committees & Board. In 2018 we made 2,175 technical assistance visits to systems all across the state and wrote 12 wellhead protection plans. By the end of 2018 there were 15 Energy Efficiency Audits written which will save thousands of dollars per year through process changes and new equipment purchases that have short payback periods. Volunteers from the individual Water Industry Professional membership supports us by assisting at events, sponsoring our youth education programs and by raising money for scholarships. We are very thankful to each system and member for your support of Rural Water. Without our membership we would struggle to serve the entire state. We encourage any system or operator to join Rural Water and help support yourselves and others in the state working in the water/wastewater industry.

Many good things have happened in 2018 due to the great relationship between WRWA and the vendors who have worked so hard to support WRWA. The 172 business vendors pay dues and buy booth space at our Technical Conference and Expo; they also sponsor our other events such as the golf outing and Ice Fisherees. Through the donation of raffle prizes for the Sportsman’s Raffle, we are able to buy several pieces of loaner equipment and defray the costs of the fee free water training sessions. We always encourage operators to use our business members for needed services and to thank them for their support of Rural Water.

2018 began on a very low note for federal funding of USDA Rural Development and WRWA. The president saw fit to eliminate both these programs, which would have ended all the technical assistance and training of small systems across the United States. At the 2018 WRWA Rural Water Rally last February, where we met and talked to our congressional Representatives, we were funded at historic high levels. Thankfully our Congressional Representatives and Senators told us that a majority of them recognize their rural constituents and the infrastructure building and maintenance needs. USDA Rural Development received $1.1 billion for Loans and Grants and along with it Rural Water was able to continue it’s ability for assistance and training. Never has writing a letter of support been so important. We will be asking you again for letters of support for us to present to our congressional and Senatorial supporters. If Rural Water ever helped you out with a problem we would like to hear from you by way of a thank you letter. It’s amazing how a congressman will perk up when he sees a letter, signed by an operator or board member from his/her district! This is an invaluable thing you can do to keep us serving you and your fellow operators.

Personally, I would like to thank everyone for their support of Wisconsin Rural Water Association. Your support brings so many services to you and your fellow operators and systems. I would encourage any operator, board member, system manager or business owner to look at joining WRWA and help support the industry. We can be the largest group to help ourselves and Rural Water can lead the way into the future with your help. Please feel free to contact me with any questions or concerns.
Technical Assistance to operators of water and wastewater systems in Wisconsin is the backbone of our service to our members. WRWA conducted 2175 actual on-site technical assistance visits in 2018 in addition to over 5719 phone calls to small systems across the state. WRWA currently has nine field staff providing onsite technical assistance to water & wastewater systems in the state. The breakdown in onsite Technical Assistance visits in 2018 was:

- Municipal Water - 751
- Municipal Wastewater - 626
- Sourcewater - 107
- OTM/NN Water - 600

2,084

WRWA technical assistance is provided in a number of areas, including:

**REGULATORY COMPLIANCE** - assistance in meeting both state and federal regulations including such areas as sampling & monitoring, monitoring site plans, monthly reporting, Consumer Confidence Reports, water conservation, and DSPS safety codes.

**UTILITY MANAGEMENT** - assistance in finding and applying for construction loans & grants, budgeting, record keeping, customer relations, water & sewer rates, human resources, wages and employee benefits.

**DISTRIBUTION** - assistance in solving distribution system problems such as line location, leak detection, valve exercising, hydrant maintenance & repair, conducting hydrant flow tests, troubleshooting water quality problems, inflow & infiltration, manhole rehabilitation, sewer line televising, pipe thawing, grease trap maintenance, cross connection control, jobsite safety, tower painting and inspection.

**TREATMENT** - assistance in troubleshooting water and wastewater control systems, treatment plant optimization, chemical addition equipment repair, advice on new treatment plant processes and treatment system monitoring.

**EMERGENCY RESPONSE** - assistance in all types of emergency situations including well problems, water contamination, loss of pressure, tornados, flooding, freezing, and severe winter conditions.

**SOURCEWATER PROTECTION** - assistance in completing wellhead protection plans, vulnerability assessments, potential contaminant inventories.

**SYSTEM OPERATIONS** - assistance such as compliance with DNR & PSC regulations, safety program development, ordinance templates, maintaining cross connection control programs and completing sustainability assessments.

**LOANER EQUIPMENT** - WRWA provides a wide variety of equipment for use by our membership. This saves communities the cost of having to purchase and maintain expensive equipment that they may only use occasionally or in emergency situations such as line locators, leak detectors, sewer cameras, valve turners, pumps, generators, flow testing, pipe thawers, pressure recorders, chemical feed pumps, portable samplers and dozens of other tools and pieces of equipment.
WRWA TECHNICAL ASSISTANCE

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WRWA TRAINING

WRWA is the leading provider of training again in 2018 in the state of Wisconsin to those in the water and wastewater industries. In fact, the Wisconsin Rural Water Association is one of the leading trainers of water and wastewater systems in the nation.

In 2018, WRWA conducted a total of 221 training sessions and events. These were attended by 5302 operators, managers, administrative personnel, plumbers and private business representatives. The training for 2018 was as follows:

<table>
<thead>
<tr>
<th>TYPE</th>
<th>NO. OF SESSIONS</th>
<th>LOCATIONS</th>
<th>TOPICS</th>
<th>ATTENDANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal Water Training</td>
<td>59</td>
<td>25</td>
<td>23</td>
<td>1144</td>
</tr>
<tr>
<td>Municipal Wastewater Training</td>
<td>30</td>
<td>23</td>
<td>12</td>
<td>617</td>
</tr>
<tr>
<td>Safety Training</td>
<td>64</td>
<td>33</td>
<td>8</td>
<td>855</td>
</tr>
<tr>
<td>OTM/NN Training</td>
<td>66</td>
<td>21</td>
<td>10</td>
<td>767</td>
</tr>
<tr>
<td>Events</td>
<td>2</td>
<td>2</td>
<td>47</td>
<td>1,919</td>
</tr>
<tr>
<td></td>
<td><strong>221</strong></td>
<td><strong>104</strong></td>
<td><strong>100</strong></td>
<td><strong>5,302</strong></td>
</tr>
</tbody>
</table>

WRWA MEMBERSHIP

The Wisconsin Rural Water Association offers ten different membership levels—one individual, six system levels and three business levels. WRWA's total membership currently stands at 1167 members. The breakdown of membership is:

<table>
<thead>
<tr>
<th>INDIVIDUAL MEMBERSHIP</th>
<th>NO. OF MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Industry Professionals (WIP)</td>
<td>317</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SYSTEM MEMBERSHIP</th>
<th>NO. OF MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTM/NN</td>
<td>77</td>
</tr>
<tr>
<td>Under 1,000</td>
<td>245</td>
</tr>
<tr>
<td>1,001 - 2,500</td>
<td>143</td>
</tr>
<tr>
<td>2,501 - 6,000</td>
<td>89</td>
</tr>
<tr>
<td>6,001 - 10,000</td>
<td>41</td>
</tr>
<tr>
<td>Over 10,000</td>
<td>76</td>
</tr>
<tr>
<td></td>
<td><strong>671</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BUSINESS MEMBERSHIP</th>
<th>NO. OF MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Associate</td>
<td>101</td>
</tr>
<tr>
<td>Corporate</td>
<td>52</td>
</tr>
<tr>
<td>Corporate Gold</td>
<td>26</td>
</tr>
<tr>
<td></td>
<td><strong>179</strong></td>
</tr>
</tbody>
</table>

WRWA’s system members currently provide water and wastewater services to around 4 million Wisconsin residents.
WRWA currently has eight different federal programs and three different state programs. Internal income and expenses come from such areas as membership dues, advanced training, events, advertising, interim finance, raffles and donations. WRWA has never focused on the donations aspect, so we wish to thank everybody that has donated either their time or money to WRWA. The list of donations are too many to list here, but a short list of donors include:

<table>
<thead>
<tr>
<th>Hustisford</th>
<th>Elcho SD</th>
<th>Three Lakes SD 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brokaw</td>
<td>Kent Oberle</td>
<td>Ettrick</td>
</tr>
<tr>
<td>Junction City</td>
<td>Town of Fulton</td>
<td>Brooklyn</td>
</tr>
<tr>
<td>Neillsville</td>
<td>Plainfield</td>
<td>Lake Delton</td>
</tr>
<tr>
<td>Tony Kremm</td>
<td>Rome</td>
<td>Almena</td>
</tr>
<tr>
<td>Plainfield</td>
<td>Brooklyn</td>
<td>Plainfield</td>
</tr>
<tr>
<td>Winter</td>
<td>Seymour</td>
<td>Rome</td>
</tr>
<tr>
<td>Rothschild</td>
<td>New Auburn</td>
<td>Iron River SD1</td>
</tr>
<tr>
<td>Sister Bay</td>
<td>Fall River</td>
<td>Merrimac</td>
</tr>
<tr>
<td>New Holstein</td>
<td>Fox Marquette Estates</td>
<td>Maine</td>
</tr>
<tr>
<td>Drummond SD1</td>
<td>Bayfield</td>
<td></td>
</tr>
</tbody>
</table>

If you would like to further support WRWA with a donation of money, volunteer time or join the Water Industry Professionals, please call our office for more information.
### WRWA Committees
*denotes WRWA Board Members

#### Board Committees

**EXECUTIVE**
- Ramon Knudtson - Chairman
- Dean Bergstrom - Vice-Chairman
- Bob Stanislawski (Clintonville)
- Kevin Mraz (Algoma SD)

**AD-HOC**
- Ramon Knudtson – Vice-Chairman
- Kevin Mraz (Algoma SD)
- Bob Stanislawski (Clintonville)

**FACILITIES**
- Hershel Marks - Chairman
- Tom Tietz - Vice-Chairman
- Chris Jensen (Birnamwood)
- Bill Miller (Bloomer)
- Gene Larson (Black River Falls)

**BOARD DEVELOPMENT**
- Dean Bergstrom - Chairman
- Chris Jensen - Vice-Chairman
- Bill Miller (Bloomer)
- Tom Tietz (Cambria)

#### Membership Committees

**AWARDS**
- Chris Jensen (Birnamwood)
- Larry Gates - Vice-Chairman
- Bill Miller (Bloomer)
- Gene Larson (Black River Falls)
- Darrin Parsons (N. Fond du Lac)
- Kevin Mraz (Algoma SD)
- Alan Kunz (Core & Main)
- Jesse Claflin (B&M)
- Linda Kuhn (Amery)

**LEGISLATIVE**
- Darrin Parsons - Chairman
- Dean Bergstrom - Vice-Chairman
- Kevin Mraz (Algoma SD)
- Dave Magnussen (Horicon)
- Bob Berry (Adams)
- Keith Jereczek (Dodge SD #1)

**EVENTS**
- Gene Larson – Chairman
- Hershel Marks - Vice-Chairman
- Tom Tietz (Cambria)
- Larry Gates (Prairie du Chien)
- Dave Dodge (Adaptor Inc)
- David Jensema (Martelle Water Treatment)
- Mike Stoffel (Ayers Associates)
- Jim Ballantine (Badger Meter)
- DoraLee Piering (Energenecs)
- Alan Kunz (Core & Main)
- Doug Gries (Ferguson-Davies)
- Jesse Claflin (B&M Technical Services)
- Jon Strand (CBS Squared)
- Bryan Unterweger (L.W. Allen)
- Todd Hanson (Sparta)

**TRAINING**
- Bob Stanislawski - Chairman
- Hershel Marks - Vice-Chairman
- Larry Gates (Prairie du Chien)
- Darrin Parsons (N. Fond du Lac)
- Mark Thurow (Water Well Solutions)
- Jon Strand (CBS Squared)
- Patrick Harrington (Municipal Well & Pump)
- Scott Holzem (Wisconsin Dells)
- Bob DeMars (West Baraboo)
- Bob Berry (Adams)
- Brad Ruenger (Fox Lake)
- Chuck Dodge (Core & Main)
WRWA BOARD OF DIRECTORS

PRESIDENT
Ramon Knudtson (District 3)  Melrose

VICE-PRESIDENT
Dean Bergstrom (District 4)  Cumberland

SECRETARY/TREASURER
Bob Stanislawski (District 1)  Clintonville

NATIONAL DIRECTOR
Kevin Mraz (District 2)  Algoma SD

PAST PRESIDENT
Chris Jensen (District 1)  Birnamwood
Darrin Parsons (District 2)  N. Fond du Lac
Tom Tietz (District 2)  Cambria
Gene Larson (District 3)  Black River Falls
Bill Milller (District 4)  Bloomer
Larry Gates (District 5)  Prairie du Chien
Hershel Marks (District 5)  Boscobel

WRWA STAFF
Chris Groh- Executive Director
Sue Wojtalewicz- Chief Financial Officer
Jeff LaBelle- Technical Assistance Director
Scott Giese- Education Director
Andrew Aslesen- Sourcewater Specialist
Jesse Haas- Wastewater Trainer/Circuit Rider
Kay Curtin- Wastewater Trainer/Circuit Rider
Ed Hendzel- Municipal Water Circuit Rider
Annetta Von Rueden- Municipal Water Circuit Rider
Kelly Thomas- OTM/NN Water Circuit Rider
George Taylor- OTM/NN Water Circuit Rider
Renee Koback- Member Services Coordinator
Lori Degen- Administrative Assistant

E-mail: wrwa@wrwa.org  •  Website: www.wrwa.org
MAJOR ANNOUNCEMENT!

Crane ONLINE is going live Spring 2019!

Quickly access equipment YOU need with YOUR pricing 24/7.

Pre-register for Crane ONLINE now for fast and easy access to pumps, pump parts, and a large selection of valves.

Go to www.craneengineering.net/preregister to get signed up before the store opens!

Get Ready for Summer!
Lean on Crane and our manufacturer partners for the highest quality equipment, support and training this summer!

Our team includes experts to support municipalities across Wisconsin:
- Professional Engineers
- Journeymen Electricians
- Journeymen Machinists
- Project Managers
- Licensed Operators
- Factory Authorized Service Techs

Get a jumpstart on summer projects. Call today!

Call 920-733-4425 or go to craneengineering.net
28th Annual
Water Supply Regulatory Affairs Seminar
WEDNESDAY, MAY 1, 2019
The Pyle Center, 702 Langdon Street, Madison, Wisconsin

Jointly sponsored by:
Wisconsin Section American Water Works Association • Wisconsin Rural Water Association • Wisconsin Department of Natural Resources • Public Service Commission of Wisconsin • Municipal Environmental Group

WHO SHOULD ATTEND
♦ Local Government Officials Towns, Cities & Villages
♦ Utility Personnel Operators, Supervisors, Clerks & Management
♦ Utility Board/Council Members
♦ Consulting Firms

CONTINUING EDUCATION CREDITS
Earn 5.5 Waterworks Continuing Education Credits OR Professional Development Hours by attending the Water Supply Regulatory Affairs Seminar.

AGENDA
8:25 AM – 8:30 AM Welcome
Chris Groh, Wisconsin Rural Water Association

8:30 AM – 9:30 AM Perspectives from Washington D.C.
Alan Roberson, Association of State Drinking Water Administrators (ASDWA)

9:30 AM – 10:15 AM PSC Update
Andy Galvin and Denise Schmidt, PSC of Wisconsin

10:15 AM – 10:30 AM BREAK

10:30 AM – 10:45 AM Getting to Know the New Chairperson of the Public Service Commission
Rebecca Valcq, PSC of Wisconsin

10:45 AM – 11:30 AM Cybersecurity Risks
Jeff Thomas, PSC of Wisconsin

11:30 AM – 12:30 PM LUNCH

12:30 PM – 12:45 PM Leadership Changes at the Department of Natural Resources

12:45 PM – 1:30 PM DNR Regulatory Update
Steve Elmore, Wisconsin DNR

1:30 PM – 2:15 PM Groundwater Quantity and the Central Sands Lakes Study
Adam Freihoefer, Wisconsin DNR

2:15 PM – 2:30 PM BREAK

2:30 PM – 3:30 PM PFAS – What We Know and What We Don’t
Joe Grande and Amy Barrilleaux, Madison Water Utility; Sarah Yang, Wisconsin Department of Health Services

REGISTRATION FORM - 2019 Regulatory Affairs Seminar

Pay with credit card OR make check payable to: Wisconsin Section AWWA

Registration Fee (Please Check One):
___ $99.00 Professional    ___ $10.00 Student

We Accept: ___ Visa ___ MasterCard
___ Discover ___ American Express

Name on Card__________________________
Signature ____________________________
Card # _______________________________
Card Expiration Date ______/______ V-Code ____________
Amount Charged $ ____________________

Fax Registration: (414) 423-7011
Email Registration: jill@wiawwa.org

For more information contact WIAWWA:
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Who among us does not rejoice with the onset of spring? Melting snow, honking geese, dabbling ducks, the first blackbird or robin – and the sweet, fresh aroma only spring air can provide. These are but a few of the early signs we've seen during the change of seasons.

After a night's rest on the open water of Lake Dubay, a dozen geese flew low over our house, honking with delight and telling those that would listen of picked corn and soybeans exposed on windswept fields. Earlier this month, the neighborhood sandhill cranes returned to the farms south and north of our place. Then we welcomed a small flock of robins back to our horse pasture and their white pine sanctuary. By the time this ink is dry, blackbirds and woodcock should have come home to roost.

For those of us that live in the land of four true seasons, spring has a deeper, personal meaning. It’s a time to celebrate the homecoming of creatures that inhabit our woods and fields for no more than six, or seven months. That includes a host of migrant birds – their numbers too numerous to list in this space. Local resident creatures that survived winter’s wrath, emerge from the recesses of deep woods and swamps – either from hibernation or solitude - and live to reproduce once more.

Suddenly, the sun stays up at the end of the day until well past seven. The extra hour of sunshine granted for energy’s sake by the rascals on the east coast means little to our cardinals - whose biological clocks operate by foot-candles of sunlight, not daylight savings. The sun rises and sets at the same time each day as far as they’re concerned. Despite weekly schedules and alarm clock settings, sunrise and sunset are still measured at our home by the exact time the cardinals start and end their days at the feeders.

Experts concur that a pleasant chemical reaction occurs when we’re exposed to more daylight and the warmer temperatures of spring. I delight in the notion that wild creatures also feel better this time of year. As demeanors improve and spirits rise, so too does one’s energy level. I suppose, that’s reason enough to allow us some extra, end of the day outdoor time. Perhaps, this time, something worthwhile has trickled out of Washington.

I’ve watched the snow melt and the rain fall for nearly fifty springs along this stretch of the Wisconsin River valley. Each and every year, with few exceptions, spring reveals much more than it leaves behind. In recent years, young sturgeons now congregate to spawn below the dam at Dubay. Black bears, rolling out of their deep winter nap, were once considered a rare sight – but are now measured as common. Canadian geese, formerly flying by on their way to northern breeding grounds, now stop and raise families on our local backwater sloughs. Sea gulls have colonized islands on nearby flowages and fly over the house on a regular basis. Flocks of turkeys, in numbers.

Now surpassing the abundant deer herd, were non-existent here a few years back – as were fishers, who made their presence known during a past spring visit to our chicken coop. Eagles, seen on occasion years ago, are daily visitors to our backyard – and turkey vultures now circle the neighborhood, searching for leftovers. Bluebirds, thought by many to be the first true sign of spring, arrive on time and brighten up the neighborhood with their blue and red plumage and rich warbling whistle.

Spring has once again arrived along our creek. In town and out, it’s also knocking on your back door. Take some time to soak in the extra hour of daylight the politicians so generously gave us this week. Join me in welcoming back the living things that make our neighborhoods complete.

Yours in good health, Ken

Ken M. Blomberg is the past Executive Director of the Wisconsin Rural Water Association. Ken has written 2 books since his retirement. Autographed copies his first book, UP THE CREEK, are now available for $16.33, postage paid. A portion of the sale proceeds will be donated to WRWA’s scholarship program. Send checks payable to Ken M. Blomberg, 2099 Mayflower Road, Junction City, WI 54443.
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The Village of Whiting is seeking applications for a Utilities Operator. This individual will be expected to perform a variety of skilled and semi-skilled tasks as required for the efficient operation of the water system, wastewater facilities, lift stations, collection system, and other related equipment. This position also requires assigned duties in public works and parks, rotational on-call/weekend duties, and the ability to obtain the necessary WI DNR water/wastewater operator certifications. The Village of Whiting provides a competitive benefit package. Salary is dependent on qualifications. An application and job description may be picked up at the Village of Whiting Municipal Building, 3600 Water Street, Stevens Point WI, 54481 or at https://villageofwhiting.org/. For further questions please email nicschmeiser@villageofwhiting.com. If interested please submit an application, resume, and cover letter to: Village of Whiting-Utilities Operator, 3600 Water Street, Stevens Point, WI 54481. Application deadline is April 19th, 2019. The Village of Whiting is an Equal Opportunity Employer.

The Village of Whiting is seeking applications for a half-time Deputy Clerk/Treasurer. Responsibilities include, but are not limited to carrying out the statutory duties of a Wisconsin Village Clerk and Village Treasurer as defined in Sections 61.25 and 61.26 of the Wisconsin Statutes. Duties include election administration support, licensing, accounts payable and accounts receivable, records management, tax collection, utility billing, payroll, customer service, and assisting with employee benefit administration. This position also coordinates the collection and deposit of taxes and the accounting of Village funds, and maintains all official Village records, Ordinances and Resolutions. A valid State of Wisconsin driver’s license is required. Salary is dependent on qualifications. This half-time permanent position is an opportunity to grow into a professionally satisfying career. An application and job description may be picked up at the Village of Whiting Municipal Building, 3600 Water Street, Stevens Point WI, 54481 or at https://villageofwhiting.org/. For further questions please email annettestashek@villageofwhiting.com. If interested please submit an application, resume, and cover letter to: Village of Whiting-Deputy Clerk/Treasurer, 3600 Water Street, Stevens Point, WI 54481. Application deadline is April 19th, 2019. The Village of Whiting is an Equal Opportunity Employer.

Delta 3 Engineering, Inc., located in Platteville, WI, is seeking a motivated person for a full-time position with the firm as a Wastewater Engineer. The applicant must possess a Bachelor of Science degree in Civil, Environmental, or Chemical Engineering with a Wastewater/Water background or similar educational qualifications and the ability to obtain a Professional Engineer (P.E.) License in the State of Wisconsin or Iowa. Practical work experience as a water/wastewater process engineer is a plus. Job duties to include: comprehensive engineering planning, design, analysis and operational studies of water and wastewater process and treatment systems; and oversee and review construction of wastewater and water projects. Please submit your resume with references and salary requirements to: Delta 3 Engineering, Inc., Attn.: Mr. Bart Nies, P.E., 875 S. Chestnut Street, Platteville, WI 53818. bart@delta3eng.biz, www.delta3eng.biz

The Village of Suamico Water/Sewer Utility is looking for an experienced, self-motivated professional to fill the role of Water/Wastewater Utility Operator. This position is responsible for the operation and maintenance of the Suamico Water Utility and Wastewater Collection System which serves thousands of residents and businesses. This is a full time hourly position. The starting hourly pay range is $24.13. The Village offers health insurance, dental insurance, life insurance, participation in Wisconsin Retirement System, deferred compensation, flexible spending, and paid vacation. An Associate degree from an accredited college with specialization in engineering technology or a related field is preferred. Five years of distribution system and collection system is preferred. Electrical and Pump
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Midwest Contract Operations, Inc. (MCO) is looking for an Operations Specialist that will be responsible for overseeing the daily operations of the water and wastewater treatment facilities of the Allenton Sanitary District, Allenton Wisconsin. Duties will include process control testing, permit testing, preventative maintenance and inspection of associated equipment, and completion and submittal of required records and reports. MCO will provide training for the position and assist the applicant in obtaining the required operator certifications. The applicant should have a mechanical aptitude, an understanding of microbiology and chemistry, and feel comfortable speaking and presenting to village boards. It is expected the applicant will live within approximately 30-minutes of the Allenton area. Email resume and salary requirements to rwvoigt@mco-us.com or send via mail to: Mr. Paul Much, Midwest Contract Operations, Inc., P.O. Box 2108, Neenah, WI 54957-2108

Wastewater Operator/Maintenance Worker position available with the Village of Ephraim in Door County Wisconsin. Primary duties include the completion of all operational and maintenance related activities in the Public Works Department as well as being part of a working team. This is a full time position offering a competitive benefits package including a no-deductible health insurance plan with dental coverage, enrollment in the Wisconsin Retirement System and annual compensation reviews. There is also tuition reimbursement plan for job related training. Applications must be received by 4:00 pm on Tuesday, April 23, 2019. Interested parties can contact the village office or the village website for a job description and application. Village of Ephraim, PO Box 138 – Ephraim, WI 54211. 920-854-5501 – www.ephraim-wisconsin.com. The Village of Ephraim is an Equal Opportunity Employer.

The Village of Fox Crossing is seeking applications for a full-time Water Maintenance Worker vacancy. This role performs a variety of tasks related to the installation, maintenance, repair and operation of the water and sanitary systems. The position requires a high school diploma or GED and one year of related experience. While direct experience is not necessary, mechanical aptitude is required. The successful candidate will be reliable, possess a strong work ethic, display initiative on the job and thrive in a team setting. A CDL license is required. The starting wage is $20.48 per hour. A $.15 increase will be issued when each of the following certifications is attained: Ground Water Distribution, and Zeolite Softening. The full job description and application is available at: http://www.foxcrossingwi.gov/employment/. This position will be posted until filled.

The Lake Geneva Utility Commission is recruiting to fill a full time Water Utility Operator position. The primary focus of this position will be the operations, maintenance and field activity records related to the water distribution system. This position will also routinely work with Wastewater Utility personnel to assist in performing maintenance activities related to the wastewater collection system and treatment operations. Pay ranges between $19.18 – $28.68 per hour DOQ. Full posting and job description is available at www.lgutilitycommission.org or by calling 262-248-2311.
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- **Office Closed for Labor Day**: September 2, 2019
- **WRWA Annual Conference (La Crosse)**: March 17 – 20, 2020

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