

MISSOURI WATER LINES

A PUBLICATION FOR MISSOURI'S WATER AND WASTEWATER INDUSTRY




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Waterworks Refunding Revenue Bonds

Proceeds were used to refund the District's outstanding Series 2005A, 2006B & C, and 2007D Waterworks System Revenue Bonds.

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Proceeds were used to refund the City's Series 2009A Combined Waterworks and Sewerage System Revenue Bonds.



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\$1,377,000
Waterworks System Revenue Bonds

Proceeds were used to extend and improve the District's Waterworks System.

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Proceeds were used to refund the City's Series 2004 Sewerage System Revenue Bonds and Series 2005 Combined Waterworks and Sewerage System Revenue Bonds.

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\$6,270,000
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Proceeds were used to acquire Real Property, construct and equip a new community park, including the construction of three baseball fields, two soccer fields, trails/walkways, playground areas, and parking areas.

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\$4,618,720
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Proceeds were used to refund the City's Series 2015 and 2018 Certificates of Participation.

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\$4,150,000
Refunding and Improvement Certificates of Participation

Proceeds were used in part to facilitate the construction of a dam and lake in the Little Otter Creek watershed as a storm water control, water supply and recreation project in the county.

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\$3,835,053
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Proceeds of the Bonds were used to pay and cancel the District's outstanding USDA Loans.

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\$291,503
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Proceeds from the Bonds were used to refund the City's Taxable General Obligation Bonds (Build America Bonds – Direct Pay).



PWSD No. 8 of Clay County, Missouri


\$448,176
Waterworks Refunding Revenue Bond

Proceeds were used to refund the District's outstanding Series 2012 Waterworks Refunding Revenue Bonds.

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\$337,656
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Proceeds were used to refund the City's Series 2018 Combined Waterworks and Sewerage System Revenue Bonds.



PWSD No. 3 of Taney County, Missouri

\$6,000,000
Certificates of Participation

Proceeds were used to construct a storage tower, two wells, a wellhouse, a booster pump station and a generator.

Contact Jon Benson, Brock Goehl, Charlie Zitnik, or Steve Goehl at 1-800-206-0634

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About the cover: MRWA Apprenticeship Coordinator Billy Everett takes a unique selfie during a Delta Regional Wastewater Apprenticeship class. The picture was taken from inside a section of clay tile pipe used for a wastewater tapping hands-on class. Billy took the picture to better show the class the smooth edge cut by today's tools. To learn more about the MRWA Apprenticeship Program, flip to page 38 & 39.

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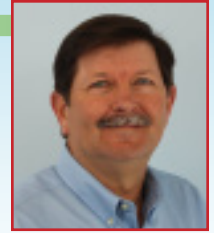
Missouri Rural Water Association Mission Statement:

"To be the leading source of professional services, support and representation for water and wastewater utilities."

Missouri Water Lines is published by General Printing Service, 1910 N. Providence, Columbia, Missouri 65202, (573) 443-8890 and is distributed free to water/wastewater systems, board presidents, mayors, suppliers, individual members and associate members. Call the MRWA office at (573) 657-5533 for copy deadlines. Subscription rates are \$15.00 yearly to help cover printing and postage costs. To subscribe, send names and addresses with prepayment to: Missouri Rural Water Association, 901 Richardson Drive, Ashland, Missouri 65010.

From the Executive Director

Howard Baker, MRWA Executive Director



as·so·ci·a·tion

noun

1. (often in names) a group of people organized for a joint purpose.

[Definition of an Association | Internal Revenue Service](https://www.irs.gov/charities-non-profits/definition-...)

<https://www.irs.gov/charities-non-profits/definition-...>

Jan 21, 2022 — In general, an **association** is a group of persons banded together for a specific purpose.

You can find several different worded definitions, but they all mean the same thing; we work together. And, as members of the Missouri Rural Water Association we all have jobs to do. Whether you are an Operator, Manager or Board/Council Member, you have one of the most important jobs of any profession; producing clean, safe drinking water and/or responsibly treating wastewater to protect the environment. The staff at MRWA is here to help you get that job done.

We offer several services to our members, and occasionally I hear someone say, “I didn’t know that you did that.” I sometimes forget to consider that Missouri’s water/wastewater industry is constantly welcoming new Operators, Managers and Board Members. And even some of MRWA’s long-standing members may not know about everything we offer, so I’d like to share some of what we offer with you now.

- **Legislative** - We have a strong presence at the State Capitol tracking legislation and opposing bills that could have a negative impact on your system and its operation. This would be a hard thing to keep up with on your own. We saw bad legislation this year, and with your help, none of those bills passed.
- **Training** - We provide free and fee-based training for certification renewal hours, Operator Certification, Board and Council training, Certified Office Professionals, and Apprenticeship training.
- **Technical Assistance** – We offer free technical assistance for water and wastewater systems including operations, maintenance, financial and managerial issues, and training. Additionally, we can also help with funding sources.
- **Energy Assessment** – We offer free assistance on finding waste and reducing energy costs.
- **Source Water Protection** – We offer free assistance with building and updating protection plans.
- **S.U.B.S. (Small Utility Billing Software)** – This is an MRWA software solution; our billing system is designed for systems with 500 connections or fewer.
- **GIS Mapping** – We offer fee-based mapping services of your water and wastewater infrastructure.

MRWA also has specialized leak detection equipment, flow meters, line locators, smoke blowers, sewer cameras, water and wastewater test kits, FLIR cameras, generators, and even a drone. And of course, the MRWA staff and the years of experience they hold working in this career field dealing with operations, permits and regulations. The MRWA Staff is our biggest asset; they truly care and want to help in any way they can.

With all that is going on with the Lead and Copper Rule, we understand that we will be learning right along with you on how to deal with the new regulations. But that is exactly what an association does, when we all work together and share our knowledge, we grow.

If you would like to know more about our programs, you can call the office or myself. We would be glad to visit with you anytime. You may also visit our new website www.moruralwater.org. And finally, if you know of a service that MRWA doesn’t offer that you would like to see us provide, let me know. Times are changing and MRWA will move with those changes to continue our service to you.



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Got Water?

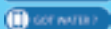
If you do, you're fortunate. We all forget that sometimes. Water must be managed so it's there when we need it — whether for drinking, bathing, or activities vital to our local economies like agriculture and manufacturing.

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President's Message

David Waller, MRWA Board President



The Lead and Copper Rule Revisions and How to Implement the Requirements to Obtain Compliance

The recently enacted changes to the Lead and Copper Rule (LCR) are a challenge that has left many of us wondering how we will comply with the terms of this updated rule, when the guidance is still in the formation stage and the answers to our many questions are not readily available.

The water industry has faced many regulatory challenges over the years. With the ability to accumulate data from many sources and determine the effect of contaminants on public health, the EPA has promulgated numerous rules and goals since their creation in 1970 by President Richard Nixon. Complying with these rules and regulations has often seemed like a task beyond the ability of our operators; to remain in compliance while convincing customers to fund the technology necessary to remain in compliance. To the credit of the water industry, we have always risen to the challenge, driven by our desire to deliver safe, potable, and affordable water to all our customers.

Recently the EPA modified the LCR with sweeping new requirements. There is no argument That **lead** in any amount is a health risk and the goal of testing and determining where high levels of lead are being consumed by customers, and that removing, or assisting our customers in removing, their lead service line if they have one, is a goal worthy of our efforts. The new rule changes the testing methodology and implements a requirement that all systems develop, maintain, and continually update a lead service line inventory and from that inventory develop a lead service line replacement plan to aid in the removal of all lead service lines on both system and customer sides of the meter.

Typically, when a rule is finalized, the requirements are well thought out. What is expected of the industry is usually provided along with what documents, tests and reporting requirements are going to be required to stay in compliance. That does not appear to be the case with this rule. Having sat through numerous webinars held by groups including National Rural Water Association, Association of State Drinking Water Administrators, Missouri Department of Natural Resources, and other private companies, many of us are still unsure of how to comply with the rule. The one thing they all seem to have in common is that there are no clear-cut answers to what certification will be accepted for the service line on either side of the meter for the inventory. The lead service line inventory (LSLI) requirement is the first step in compliance with the rule and is due, by October 16, 2024. The LSLI is due to MoDNR or EPA on that date, depending on who has primacy over the implementation of the rule on that date and we have been told this is a firm date not likely to change even though other changes might be considered to the rule as the implementation moves forward. MoDNR's timeline for developing a state rule indicates that the final rule might be after that date. Below is a link to a presentation given to the Water Protection Forum on Feb 17, 2022. It provides some good timelines for the rule and the state's anticipated rulemaking process. Some of the data might have changed by the time this magazine makes it to you, but the history is good and the anticipated timeline for rulemaking should still be accurate. <https://dnr.mo.gov/document/lead-copper-rule-efforts-dnr-presentation> (Fig 1)

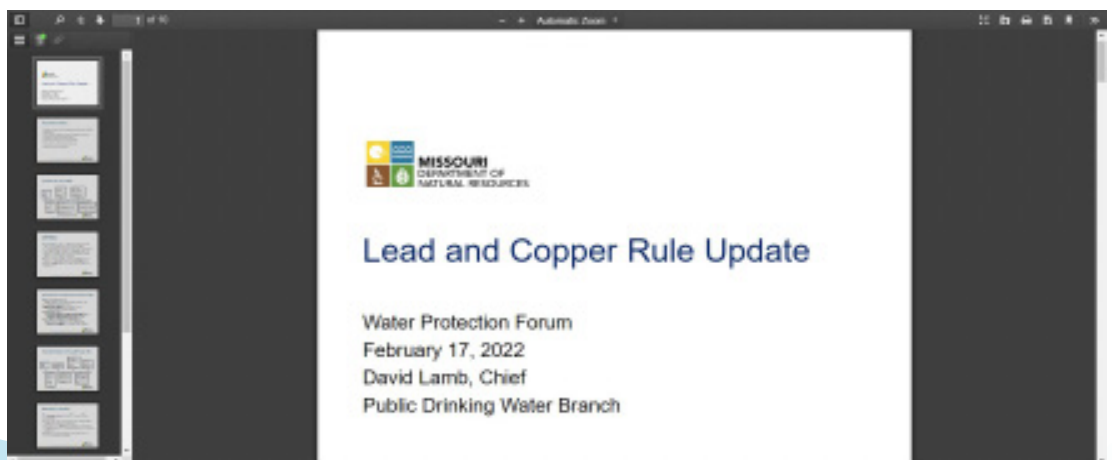


Figure 1

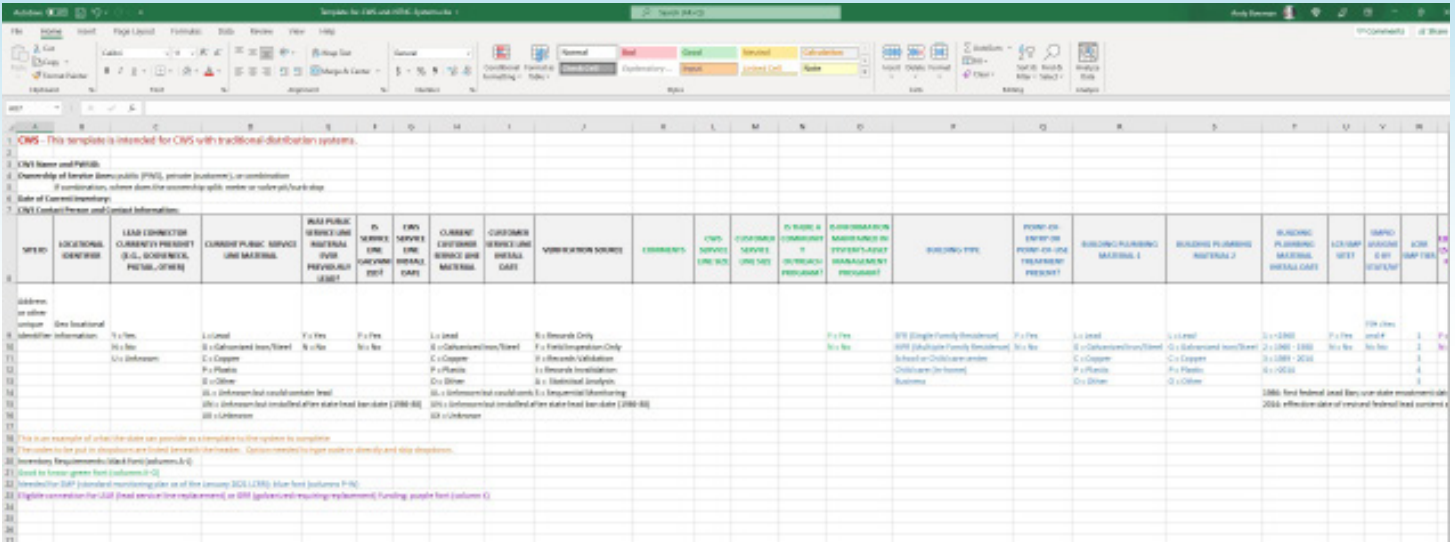


Figure 2

The question on most people’s minds is how to build an inventory and what goes into it. The Association of State Drinking Water Administrators (ASDWA) has created an excel spreadsheet template for Community Water Systems (CWS) available online at: <https://www.asdwa.org/lead-and-copper-rule-lcr/> (Fig 2). This spreadsheet may be modified to meet your system’s unique needs and contains columns to collect a wide range of information about the service lines within your system. It has been recommended that you collect as much information as possible while scouring your records to create a complete record of the types of materials used as service lines in your system. Hopefully you have records going back to the beginning of your utility that you can tie to each location.

Where to start and what to do if the records aren’t all in that unopened file draw left from your predecessor? That is what makes this rule tough to implement without having guidance on what the regulatory agency will accept as verification of the material installed.

The methods that have been suggested is to first narrow the problem.

Determine how many of your customers houses were built after 1988, the year that lead was banned in the state of Missouri. That information can come from several sources:

- When you survey your customers for information about what material was installed as the service line, be sure to ask the build date. If built after Missouri’s ban on lead in plumbing, the assumption can be made that lead was not available as service line material. These sites can be entered into the spreadsheet as verified using that information.
- Work with your county assessor and find out if their database contains the build date as a field and how you can access it in a way that easily ties it to your customer location.

Using the build date may reduce the number of sites you have to verify by other means. Below are some other ideas:

- Local plumbers may have records that they would share for copying. Those records could be a treasure trove of information.
- Exposing the service line outside the meter pit and at the house foundation might possibly serve to verify the absence of lead if none is found at those two locations.
- Digitizing records and tying those records to specific locations by staff personnel or 3rd party service providers.
- If you have long-term employees, get a notarized statement from them about the practices of the utility during their employment and whether lead was used as service line material.

(continued on page 10)

(continued from page 9)

For those lines owned by the utility, some of the above will work, but historical records or physically exposing the lines will likely be the main sources of verification.

The short answer to the question about what the best and most acceptable method of complying with this regulation is; currently we really don't have firm answers. When those answers are developed and made available to the Association, we will share that with membership. Remember, the inventory is an ongoing work. While you must submit the inventory by October 16, 2024, it doesn't have to be 100% complete. If you don't know or haven't had time to determine the material of a service line, marking it as unknown is acceptable. The *unknown's* must be treated as if they are lead and must become part of your replacement plan. But if at a future date you find records that verify the material is not lead, the inventory can be updated, and the site removed from the replacement plan.

MRWA will later add a webpage to its website for information related to this rule and include a comment section for what methods, companies, or other actions you are using to build your inventory that are working for your utility. I hope you make use of this to share your experiences, good or bad.



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A Day in the Life of a Circuit Rider: Joe Anstine

by Angela Godwin



Joe searches for a lost valve along a creek.

Originally published in NRWA's Rural Water, Vol. 43, No. 1, March 2022. Reprinted with permission from NRWA and Rogue Monkey Media.

Angela Godwin is a writer and editor specializing in water and wastewater topics. She is currently the director of editorial services for Rogue Monkey Media.

Raised on a dairy farm in rural Missouri, Joe Anstine has had a job almost since the day he was born. In those early days, Joe never imagined he'd end up in the water business. "After high school, I got into construction and worked in Kansas City for several years. Then I got a job down closer to home and worked there for five years," he recalled. "I thought I was going to drive nails all my life," he said. "That's what my father did, and so that's the path I was taking — building houses and doing odd jobs on the side."

Everything changed when his father-in-law, who was a long-time custodian of the local school, mentioned an opening at the City of Leeton. "He said, 'Hey, the water guy quit. You need a job?'" Joe chuckled. "I wasn't really

looking for a job, but I took it. It's been cherries and blossoms ever since."

Joe excelled at being a water guy. He started out as the water and wastewater maintenance specialist, but before long, he was chief operator and then superintendent for the City of Leeton. His accomplishments did not go unnoticed: in 1997, while Joe was chief operator for the City of Leeton, the system was recognized by Missouri Rural Water Association (MRWA) as Water System of the Year; in 2000, he was named Wastewater Operator of the Year by MRWA; and in 2001, he was named Water Operator of the Year for the Northwest section of the Missouri Water and Wastewater Conference.

In 2002, motivated by his passion for helping others in the water sector, Joe joined the MRWA as a Circuit Rider.

Since 1980, when the Circuit Rider program was institutionalized into law with the passage of the Rural Development Policy Act, this team of more than 130 full-time professionals has provided small and rural utilities with technical assistance and support as needed —

support that would otherwise be unavailable to them.

For Joe, it's all about helping systems solve their challenges, whatever they may be. "Like a major water loss, for example," said Joe. "Going in and finding [the leak] — and training the staff how to do it in the process. You assist them a couple times and they pick up what you're doing." Just recently, Joe helped out a utility that had been digging for two months trying to find a leak. "Because we have the technology to listen to the mains, we had it located within a few hours."

In addition to leak detection, Joe frequently helps water systems with rate studies, vulnerability assessments, and flow testing for meter accuracy, among other things. "Since the pandemic, I've been doing quite a few rate studies," he noted. It can be quite a task to collect the data needed to perform a thorough rate study, but it's a critical component of a financially healthy utility. "Nobody wants to raise their water rates," Joe said. "But every study I've done has ended up showing the need to increase rates — sometimes as much as 15%."

Having the study conducted by a Circuit Rider offers a few important benefits. For one thing, it alleviates the strain on rural utilities that don't have the internal resources to perform rate studies themselves. It also provides an unbiased and impartial third-party perspective, which can lend extra credibility to the report's findings in the eyes of the public. And finally, it's a huge cost advantage. "It usually costs around \$2,000 to \$2,500 to get a rate study done — and we do it for free," Joe said.

Over his nearly 20 years as a Circuit Rider, Joe has worked with and helped many water systems in their times of need — and sometimes when they are dealing with the unimaginable. "I think the biggest challenge that I faced as a Circuit Rider was the Joplin tornado," he said. "We were there within hours after the tornado hit and did a little bit of rescue and recovery," he recalled. "Then we started shutting water meters off and turning the system down. We were moving debris, digging meters up, fixing leaks and valving things down — whatever was necessary. Our crew, which was about 15 guys at that time, shut off 8,000 meters in three days."

In his capacity as a Circuit Rider, Joe has access to tools and technology that can benefit small and rural water systems. In fact, Joe was MRWA's first certified drone pilot. "We use it mainly for tower inspections," he explained. "And we have mapped with it. We flew for a system that was installing all new lines in the water district. Every week or so, I'd fly over what they had installed so we could see where the new ditch was. Then we laid that into a mapping program, so when they're looking over the map, they can click and pull up that video and see exactly where that line is."

Flying drones isn't the only creative outlet for Joe; in his free time, he enjoys woodworking in his workshop. "I've made just about everything," he laughed. "Clocks, tables, you name it." In December, he was busily putting the finishing touches on handmade wooden Christmas gift tags. He also finds joy in keeping a few beehives on his farm. "I've had bees since I got out of high school," said Joe. Nowadays, he has three or four active hives — which supply him with enough honey for personal use and to give away as gifts.

(continued on page 14)



Joe takes a turn with the jackhammer during an emergency.

(continued from page 13)

Technology has had a tremendous impact on the water industry, but one aspect that hasn't caught up with the times is salary. "It used to be the kind of job where somebody off the street could run the plant, but today there's a lot more to it. There are regulatory issues, compliance issues — operators can be fined or go to jail if they falsify records," said Joe. "It takes a lot of education and training and there's a lot of responsibility on operators that I don't believe the boards and councils realize."

In Joe's view, offering competitive wages is one of the most important things water utilities can do to operate more effectively. "A lot of these smaller towns and water districts don't have the money to pay very well or offer any retirement or benefits," Joe explained. "But if a company down the road comes up with \$20 an hour and full benefits, they're going to go there and go to work."

In addition to attracting new talent, better pay would help keep good, longterm employees on staff, Joe said. All too

often, seasoned operators move on to other opportunities and take years of institutional knowledge with them, like the location of valves or lines that they've laid. "Retention is the biggest issue I see. That's what I try to tell boards and councils — that knowledge is worth a lot because it's not all written down," said Joe. "If you want to keep these folks, you better pay them."

"RETENTION IS THE BIGGEST ISSUE I SEE. IF YOU WANT TO KEEP THESE FOLKS, YOU BETTER PAY THEM."

When looking back over his many years in the water industry, Joe is happy with his choice. "I personally think it's an excellent career," he said. "You know, it's always been sort of looked down upon, but that's changing," he noted, acknowledging the efforts of National Rural Water and Missouri Rural Water to promote the professionalism of the industry. "It's a career that takes a little work and a lot of dedication," said Joe, "but it's worth it."

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Topics covered are:

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- Fluoridation costs and benefits.
- Drinking water treatment overview.
- Fluoridation technology and equipment.
- Fluoride analysis/laboratory techniques and safety.
- Fluoridation system design.

2. Centers for Disease Control and Prevention Water Fluoridation

This course is designed to build the capability of state fluoridation programs, and to help increase knowledge and refine skills to implement and maintain community water fluoridation. It is FREE and approved for eight CEU hours towards drinking water licenses by the Missouri Department of Natural Resources. Participants can access the modules at cdc.gov/fluoridation/engineering/training.htm.

- Module 1. Science - history and science of fluoridation, benefits and health effects.
- Module 2. Program – state program management and oversight, and communication principles.
- Module 3: Water system overview and design.
- Module 4: Technical information for water fluoridation additives and operations.



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Continued on page 11



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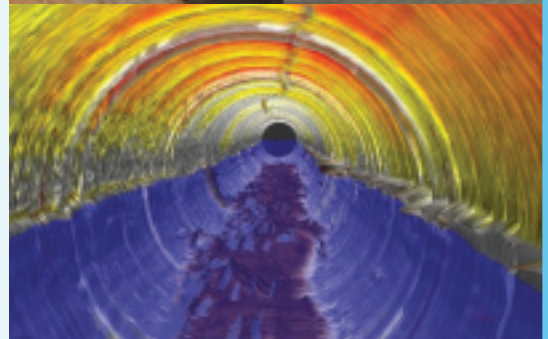
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Know Your Flows

Gary Webber, MRWA Wastewater Technician



Throughout the years many of us have heard folks say in conversations, “Small Things Matter”. This applies to many things in life, and it is no different at the wastewater utility. There are fundamental items that demand accurate attention on a scheduled basis. Flow to or from the wastewater treatment facility is one of those small things that really matters. There are several reasons for accurate flow measuring. Without knowing your true flows, it can cost your permitted facility a lot of grief and expense. One must ask themselves; how would an engineer ever design or size anything at the treatment facility or collection system if flow measurements were not accurate or representative of conditions based on customer use and/or Mother Nature’s influence?

Flow measuring devices come in a lot of different types and styles and are essential in providing accurate data. It would be great if every facility was equipped with a data logging system to record flows around the clock every day of the year. For some systems just having a V-Notch Weir to manually measure flows would be an improvement. Using a flow measuring device to calculate flows every once in a while, is not a responsible way to

know your flows. There are too many flow conditions that need recorded on a consistent basis to capture the many different flow variations most collection systems and treatment facilities experience. Flow measuring systems that log data work great in capturing flow information if they are installed and calibrated correctly. So, having a manual flow measuring device helps one determine if there is a calibration issue with the equipment. Lift station run times and drawdown tests can also help measure flows to an extent. The bottom line is, there needs to be some method of determining accuracy with newly installed, temporary, or unproven flow measuring equipment. Once you are confident with the information being recorded then let the data logger go to work.



V-Notch Weir



Open Channel Flow Meter

Once the installation is in place one can determine how fast flows increase or decrease. You can record your true peak flows and low flows in the middle of the night. Dry Weather Flows and Wet Weather Flows can be determined with ease. One should be sure to take care when transferring data to the utilities eDMR Sheet online. If it asks for flows to be recorded in million gallons

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per day (MGD), make sure the decimal point is in the correct position to reflect the correct flows. Calibrate your existing flow equipment routinely. Care should be given to make sure debris is not present in the flow channel. This can inflate flow measurements. Rectangular Weirs and V-Notch Weirs are normally measured and referenced to a chart for flow determination. Care must be given to utilize the correct weir calculation chart.

Your National Pollutant Discharge Elimination System (NPDES) Permit or your Missouri State Operating Permit require flow measurements to be recorded on a minimal basis for most treatment facilities. For some systems it asks for a 24 hour estimate for flow. This means a single reading of the flow meter to represent the 24-hour flow day. Not to be confused for *estimating the facilities flow*. Chapter 9- Treatment Plant Operations 10 CSR 20-9.010 Wastewater Treatment Systems Operation Scope Monitoring calls out for Lagoons to record flow twice a week and mechanical plants to record flow daily Monday

– Friday. This is a minimum requirement, but if you truly want to start solving treatment issues, storage issues, process issues, and compliance issues you may want to acquire as much data as you can. Recording accurate flows continuously, both influent and effluent flows, even flows in different sections of the collection system is a great way to *Know Your Flows*.

Missouri Rural Water Association’s Associate Members/ Service Providers are of great assistance with many aspects of water and wastewater utility needs. Flow measuring experts and engineers are available for contact on MRWA’s Website and in person at our conferences around the state. If you need assistance, please contact MRWA for more information for your utility needs.

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For More Information:

Applications, information and forms can be downloaded from the NRWA website, www.NRWA.org/loans.

Email applications to:
nrwarwlf@nrwa.org

Or mail to:
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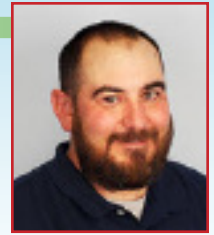


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For help, please call 1.800.332.8715 or email nrwarwlf@nrwa.org.

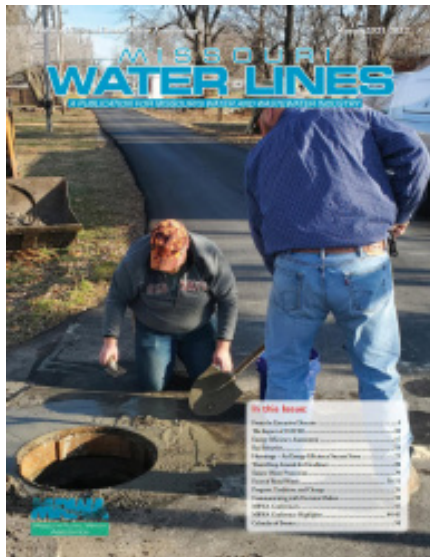
What is MRWA?

Nathan Lines, MRWA Circuit Rider



As most of everyone that is thumbing through this magazine right now, not that long ago, I, too, was an operator doing the same thing. It would arrive in my mailbox at City Hall and eventually find its way to the maintenance shop office. There on a desk it would lay until some cold or rainy morning when we would be sitting next to a heater discussing what tasks the day ahead would hold. While in debate and planning, someone would pick it up and start thumbing through it. Most of the time a lot of pages were skipped, and we looked at the colorful pictures and ads for things we wished our system would purchase. Other times an article title would jump out at us, and we would read it to learn something new.

After hiring on with MRWA, I was tasked with writing an article for the magazine. I thought about it for weeks and wasn't sure what I could write that all Missouri's operators hadn't seen or thumbed through 20 times in the past. I was told by a co-worker to just write about my job and what I do so that the people reading could get to know me. I thought about that for a while and concluded that he was right. There are a lot of operators and clerks (or anyone that our magazine might land in front of) who don't know all that MRWA does or has to offer.



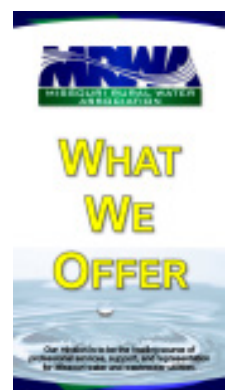
After being a system operator for 8 years I took a leap and decided to submit my resume for a position with MRWA. My knowledge of MRWA solely consisted of my personal experiences with MRWA while on the job over those 8 years. To me, MRWA and its staff were the guys and

gals that put on the fun conferences that we attended every year. They were the ones that held training to get myself and my fellow employees trained and certified as operators. Joe Anstine was the guy I called when I had a question about MoDNR regulations or when I had a leak that we just couldn't pinpoint. Other than that, I really didn't have any experience with MRWA that I could base an opinion off of what I would actually be doing on the job. All I knew was what dealings I had with the association had been beneficial and positive, and I wanted to give it a shot to see where this adventure may lead.

After starting with MRWA I soon learned that the association is way more than I ever knew as an operator. The staff at MRWA are very diverse and everyone there brings their own special touch and expertise to the team. I haven't had a question about anything water/wastewater related that I couldn't get answered by someone on staff. If someone doesn't know an answer to a question, they are quick to guide you to the staff member who does. So, what is MRWA? Well, my official answer would have to be that **MRWA is everything water and wastewater.**

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It doesn't matter what your question, concern, or problem is in this industry, there is someone with MRWA that can help you out.

If you need help with water loss or leak detections or just need someone to bounce questions off, give me a call. If I can't help, I promise I know someone who can.

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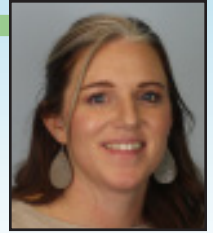


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Hello New City Clerks

Ami Dieckman, MRWA Circuit Rider



In the short time I've worked for MRWA I've learned there are many new clerks out there. Welcome aboard and fasten your seat belts! There seems to be two ways of accessing this (A) you're in a bigger city or district and you worked your way up or (B) you're in a small city or district and there is nobody at all to train you. Both come with challenges of course. Bigger city, bigger problems! But smaller cities have many hats to wear. Both need help, often with different circumstances. Bigger cities have support systems and a vast amount of knowledge floating around the office staff, while the smaller the city the harder knowledge gaps are to fill. They both come with difference but serve the same goals.

Bigger towns seem to have developed policies and procedures to follow, and the shoes are filled fairly well. Usually someone has been working within the city for quite some time before taking the role of a City Clerk. There is familiarity of elements throughout city responsibilities. Sometimes there's even months of training and thorough procedure manuals to follow. I have a soft spot in my heart for you small town clerks trying to navigate your way through this on your own. I worked for a small city for almost 10 years and had to learn everything the hard way. Thankfully I had a great network around me to help me get through with minimal challenges. This article was written to give some guidance for new clerks trying to navigate through the challenging career of city clerk.



One of the most important things to pass along is don't be afraid to pick up the phone and call to ask questions. There are so many resources out there. Neighboring cities, MRWA, MML, sometimes even your auditor or city attorney can answer your questions. I learned if the person you called doesn't know the answer, they have a suggestion and are more than happy to help. Be involved with area meetings and go to training, get yourself out there. Jump in and be a member of MoCCFOA (Missouri City Clerks and Finance Officers Association) MoCCFOA has a chat blog pertaining to subjects of matter and questions asked. It is a great resource if you are uncomfortable picking up that phone. Fellow clerks don't typically mind sharing sample policies and documents. Fact of the matter is, they all have questions, too! Even seasoned clerks! There are so many things that aren't dealt with regularly that can hang up a clerk. There are aspects in all areas that may only be dealt with once a year, or even every couple of years. Be part of the clerk community and help one another out. If you know of a neighboring city that has a new clerk, check on them and welcome them. Feel free to reach out to MRWA. I'd be happy to stop by for a visit.



As you figure things out, make sure to add them to a working binder for quick access. I always called it my cheat binder to help fill out those yearly forms. It was a glorified procedure manual for the things I didn't do daily. I kept print screens handy in it to help guide me through the processes of applications. Included in my binder would be the steps on tax levy hearings, planning and zoning hearings, etc. It was just a go-to book to reassure me I was doing all the right steps. My binder also included lists of things that needed done daily, monthly, quarterly, and yearly. This flow list reassured me that I had not forgotten to do anything important. There is little to no forgiveness from the IRS and the state for late submissions. Know the importance of following a calendar as your deadlines are tremendously important.

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(continued from page 27)

Speaking of following calendars, find yourself a good system and stay consistent. I loved using “The Happy Planner” as it kept me the most organized. These planners are customizable and can easily be added to. I did council meeting minutes on blank inserts and was able to keep them within the month of the meeting in the planner. My to-do list was on a narrow page and I kept it within the current week. As I finished things, I marked them off and kept moving my list to the following week until I was caught up. I loved the agenda layout. It gives you a look at the full month, then flips through the month with daily agenda boxes. On the monthly view off to the side I kept a running list of topics for the agenda. This way I never forgot the routine monthly agenda items and I had a consistent place to put requests. Also on this calendar view, I would list all important deadlines. Taxes, reports, and any due dates that never changed throughout the year. It’s all about finding the right system for you. I’ve noticed several clerks who use a steno note pad, but I’ve also seen several that have found the Happy Planner. There’s not a wrong way to keep organized, you do you!

I’ve learned so quickly that there is a huge gap in information of just timely duties. So many of the duties of a clerk don’t have a good timeline as many of your duties give you no notice. There is very little reassurance in paying taxes for your city or district. There is no bill to pay the taxes, you must know to go look for it. For clerk’s that didn’t experience a transition period with the outgoing clerk, this is very important information that was missed. For instance, if your fiscal year ends in December your state audit is due June 30th of the following year, and you receive that notice in December! A lot can change in 6 months, and if the new clerk missed that letter and didn’t know to file the audit, there could be substantial fees added daily. End-of-fiscal year procedures can be menacing along with how to properly budget. Small towns with small staff find little glitches along the way because of these missing links. If you are a small town and have good bearings, work on succession planning to help that next person.

Don’t forget to educate yourself! If you don’t have an accounting background, take some basic classes. Find

a way to learn Microsoft Word, Excel and even Access. Read through your new city’s policies and ordinance book. Pick up the last years audit and do a little research. If you have questions, now would be a great time to call the auditor that performed it and ask. Pick up the Sunshine Law book from the Attorney General’s office and become very familiar with it! Missouri Rural Water Association is a great resource in the attempt to stay up on legislation, make sure you’ve signed up for MRWA’s e-News Updates. There are many different ways to stay on top of this.



I talked about accounting for a reason. You’re not just a secretary. Sure, some of you may have a finance officer handling it, but many small-town clerks have to do it all. It will take some time to have a full understanding of the city’s financials and you have a lot to take in! Looking over the audit report will help immensely allowing you to see your assets, your net position, and it can help you see what loans you have, along with seeing the scale of all the funds you will handle. At some point soon into your career you will be faced with important financial questions. You should know how to handle a general ledger and be able to read a balance sheet. Sure, you can see what’s in the bank account and how much you paid in bills, but this is far from the big picture of handling public funds. Reaching out to your auditor can help you learn these details of your funds. Audits were extremely stressful and exhausting, but I loved them. I have a background in business and accounting and still asked the auditor many questions.

This is a topic I’m passionate about and hope to work on a good resource to distribute to help clerks along. Even if you know most of the proper duties, you may have missed an important aspect. If at anytime you want me to stop by and help relieve some apprehensions about this new journey you’ve taken on just reach out. I’d be happy to come by and drop off a Clerk check list for you. I’m just a phone call, text, or email away.

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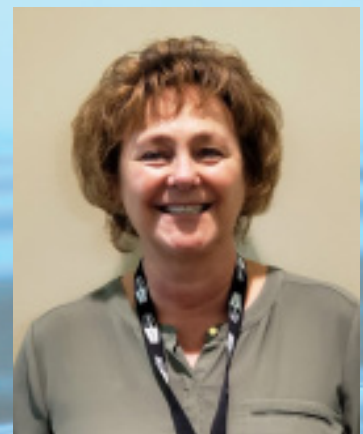
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Faces of



Kevin Warden is the city of DeSoto Public Works director. He manages parks, streets, water distribution, wastewater collection and the wastewater reclamation plant. Kevin has 36 years experience with WW-A and DS-III certifications. He developed the city's GIS mapping and database management programs. His hobbies include hiking and golf. Kevin's employees note his dedication and passion for his job.

Jeanette Nickels has served Lafayette County PWSD #1 for 20 years. After 10 years as the clerk, she became the manager. Jeanette's family is involved in sports and her hobbies include boating and fishing. Jeanette's first grandchild is currently her main interest. She views the newly revised lead and copper rule as the biggest challenge facing water industry professionals.



Glen Polnack is responsible for the city of Liberal's water, wastewater, and electrical utilities. He holds DW-D, DS-II, and WW-D certifications, has 18 years of experience in the water industry, and moved into Liberal's superintendent position in 2014. Additionally, Glen designs three phase electrical systems and installs transformers in the city. He notes increased regulatory oversight with minimal funding as our biggest challenge. Glen is involved in his church and enjoys spending time with family, specifically noting grandchildren and fishing.

Rural Water



Allen Stockton is the city of Monett water distribution and collection system foreman. His 30 year career began in the street department before transferring to water utilities. Allen maintains DS-III and DW-C certifications. He notes the biggest challenge is work force development, and that it takes a special person to be in the water industry. Allen creates custom leather knife sheaths, holsters, and gun belts. His workmanship is exceptional.

Trinette Peukert is the city clerk at Bevier. She served the city as the city treasurer for 8 years, and the last 10 years as the city clerk. Please note the Bevier city clerk is an elected position, requiring re-election every 2 years. Trinette lists aging infrastructure and funding system upgrades as major challenges. Trinette states that she is a homebody that likes reading and spending time with her two boys. She enjoys traveling and live music concerts.



Jessica Walker is the Tarkio Board of Public Works office manager. She has served five years in this position. Jessica notes the water industry is interesting, as utility professionals either love the work or move on to other things. She enjoys her family, listing her husband, two children and 4 dogs. You may find Jessica at an Outlaw Tractor Pulling event. This summer will be her first season as a driver.

If you'd like to share a colleague, co-worker, or your own face and story with the readers of MRWA's Missouri WaterLines, contact Mark Klaus by phone at 816-349-2670 or by email at mklaus@moruralwater.org.



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Visit <https://nrwa.org/members/products-services-portfolio/fleet-program/> for up-to-date information.



KC Water Apprentices participate in a hands-on Water Concepts course



“We have learned that the traditional setting, although appropriate for many students, does not meet the needs of all students. It has been our mission to create a variety of effective learning environments in an effort to meet the needs of those students that function more effectively in a non-traditional setting.”

—Dr. Eryca Neville, Principal
Frederick Douglass High School



Delta Regional Authority Wastewater Apprentices receive Hands-On wastewater tap training.

“NCHS would like to thank you for being here on Friday to share your future. This was exciting as they came in to check on credits and A+ projects. We are proud of our students!”



What is Apprenticeship?

Apprenticeship is a system in which workers train on-the-job – simultaneously taking courses. When someone completes an apprenticeship and a recognized industry credential, along with state certification over time, advances their career.

Missouri apprenticeships generally last two years. Apprentices, while working full-time at a local water or wastewater system and must be paid at least minimum wage through the program, his/her wages increase according to a predetermined schedule for the employer and apprentice.

One key distinction between apprenticeship and other forms of training is that the program engages the learner as a paid employee from the start of the program. Wages may begin at a lower level than those of co-workers (never less than minimum wage) as the individual progresses through the program, based on a schedule determined by the employer and apprentice.

Delta Regional Authority Water Apprentices receive hands-on training of tapping pressurized water mains during their Main-to-Meter training.



...r career with us. You really got several students thinking about their progress. Thank you so much for giving your time and knowledge to —Melissa Head and Kaitlin Hopke, Counselors North Callaway High School



The MRWA Apprenticeship Program exhibited at this year's Missouri FFA Convention in Columbia. Betty Rogers from Gallatin High School was the winner of the \$100 Gift Card at the MRWA Booth.

...earning wages and doing productive work – while apprenticeship, they'll have valuable work experience on that allows them to continue in the field and

...who must be at least 18 years of age, work full-time at least minimum wage. As the apprentice advances on a determined schedule agreed upon between

...workforce training is that an apprenticeship is a part of the program. Although an apprentice's wages are higher than minimum wage, his/her wages must increase on a schedule outlined in a written agreement between

Brad Hutson, Exeter High School, received his FFA State Degree at the 2022 FFA Conference in Columbia. Brad is the son of Kevin Cook a DS-II Operator for the City of Purdy.



Hosted by the Delta Regional Authority, the inaugural Delta Summit brings together community leaders from across the eight-state DRA region to discuss and learn more about the region's opportunities for economic development, rural revitalization, and community resiliency

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2022-2023 MRWA College Scholarship Recipients

Each academic year, the Missouri Rural Water Association Scholarship Committee awards four (4) college scholarships; two are awarded to graduating high school seniors and two are awarded to enrolled college students. This year, that number increased to six.

MRWA is proud to announce this year’s scholarship award winners.

High School Graduate Scholarship Recipients

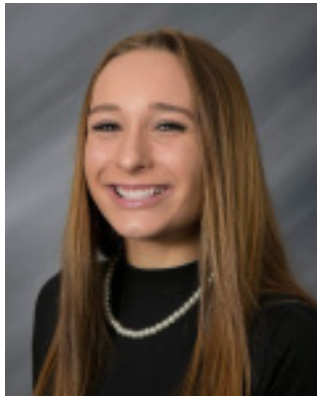
Lancing Moore

HS Graduate of South Shelby High School

Parent- Tina Mitchell, Chief Water Plant Operator at City of Shelbina

Notable Accomplishments- Graduated Summa Cum Laude, 3 Years on the Principal’s Honor Roll, FFA, Marching Band Member and Drum Major, Student Council.

Plans to major in Architectural Studies.



Reagan Craig

HS Graduate from Lafayette County C-1 High School

Parent- Brandon Craig, Water & Wastewater Superintendent at City of Higginsville

Notable Accomplishments- National Honors Society Member, Student Council, Fellowship of Christian Athletes, Many athletic and academic letters and recognitions.

Plans to become a Respiratory Therapist.

Devyn Keller

HS Graduate of Van-Far High School

Parent- Todd Keller, Administrative Assistant at Clarence Cannon Wholesale Water Commission

Notable Accomplishments- Many Softball and Basketball Awards, National Honors Society, FFA, and 4H.

Plans to study Agriculture Education.



(continued on page 44)

College Student Scholarship Recipients



John Winter

HS Graduate of Santa Fe R-X

College- University of Missouri-Columbia

Parent- Tammie Winter, General Manager at C-PWSD #2 of Lafayette, Johnson & Saline Counties

Field of Study- Mechanical and Aerospace Engineering

Notable Accomplishments - National Honors Society, Boys State Attendee, College Dean's List, College of Engineering Honors Dean's List, President's Education Award.

Kirby Richards

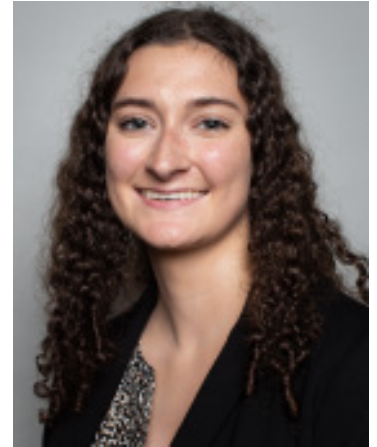
HS Graduate of Slater High School

College- University of Missouri-Columbia

Parent- Robert Richards, Water Plant Supervisor at the City of Slater

Field of Study- Agribusiness Management

Notable Accomplishments- National Honor's Society, Student Council, FBLA, FFA President's and Dean's List.



Justin Penn-Lavelly

HS Graduate of Pacific High School

College- East Central College

Parent- Vicky Kesler, Purchasing Agent at City of Hermann

Field of Study- Associates in Nursing

Notable Accomplishments- Served four years as a combat medic in the Army, received three achievement medals as well as other service awards.

Scholarship applications are available each year in early spring.
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Taking Water for Granted

Wayne Roderman, MRWA Resource Conservation Circuit Rider



After just finishing perusing and grading scholarship applicants for the 2022 school year, I realized several of them had essentially the same statement in their essay:

“I have never worried about clean, safe, drinking water because it’s always been readily available. I guess I have always taken it for granted.”

That got me to thinking about my childhood days on the creek before the days we had water in the house. There was an old cistern out back of the house that had a 2’ square concrete box on top with gravel in it and the guttering off of the house ran into it because everybody knows that if water goes through gravel, it’s safe to drink..?! And of course, if the cistern ran dry it was only a half mile down the creek to Bubblin’ Spring, where we could go dip us a bucket full of water and take back to the house. And every year or two, Dad would take the top off the cistern and clean it out. I drank the water out of it back then but today I get the doodads just thinking about the bugs, frogs, snakes, and other critters we would clean out of there. And of course, as we got older and would go to town and see people just go to their sink and turn the faucet on and water would come out, we began to complain about not having running water in the house. Then Dad would tell us we had running water, “You boys run out there and pump the bucket full and run it back into the house!”

Well, us boys were teenagers before we got running water in the house and I can’t tell you the times I would just turn the faucet on and stare at the water coming out into the sink. It seemed like a miracle to me! Today I cringe when my teenage grandsons turn the water on and just let it run, or when my wife doesn’t shut it all the way off and it drips! I wonder if we should have a class on how to turn the faucet off...!?!? Just kidding! But after being the Resource Conservation Circuit Rider for the last decade, I have a different mindset about water, or better yet, the way we take water for granted.

Our scholarship applicants are not the only ones who take water for granted! There’s an entire population out there where a large portion of them take water for granted! If we’re not complaining about how much the water bill is, we’re arguing the water meter is messed up because there is no way we’re using that much water! What most of us don’t think about is how many years the water lines have been in the ground or when the pump was installed or how old the meters are. Just off the top of my head the newest water system I know of is over 20 years old and most of the water systems I can think of were installed back in the 60’s and I know of some that have water lines that have been in the ground over 100 years! The national average of the life span of a pump is 7 to 10 years.



Alley Spring Mill
Eminence, MO

When was the last time a pump was replaced in your system? An operator worth their salt is constantly thinking about all the aspects of the entire system; how long they can reasonably expect a pump to last? what the lifespan of a specific water line is? are the water meters still working properly? is there enough money in the budget to replace the aging infrastructure? Speaking of water meters, the older they get, the less accurate they become, and meters are considered the 'cash register' of the system. I remember telling a public water supply that and they told me their meters in their system were approximately 25 years old. They replaced all their meters and their income doubled! I personally like to see a ten year change out plan on meters. Change 10% of the systems meters each year and the 11th year go back and change the ones you changed the first year and so on. You can fund that by adding \$1.00 a month to each meter pit. That will give you \$12.00 per year and at the end of ten years you will have \$120.00 to change that meter with. If you have radio read meters, you will have to up that to \$1.50 or maybe \$1.75 per month. I know that is still

a rate increase, but put that in a special account strictly for meter replacement and you will have enough money to keep your meters current. That's just good business. While you are looking at that, you might want to think about inflation and the reason I say that is I installed a water system for my son five years ago at his new house and it cost about \$2,900.00. Just this week a person asked if I could install one for him and the cost of that same system is now \$9,990.00, and that is just getting water to the top of the well!

Forgive me, please. My mind gets to running crazy and sometimes I get off in the weeds. Back to taking water for granted; only about 3% of the water on earth is fresh water and only about 1% of that is available. Seeing how you can only live approximately 4 days without water, it is extremely important to take care of the water we have and not waste it. Let's quit taking water for granted and take a little time to appreciate the men and women who are working to make sure we have an abundant supply of safe drinking water.



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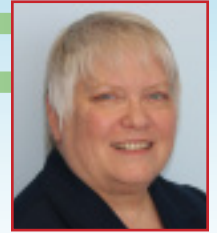
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Lead and Copper Rule Revisions: What a Water System Needs to Know

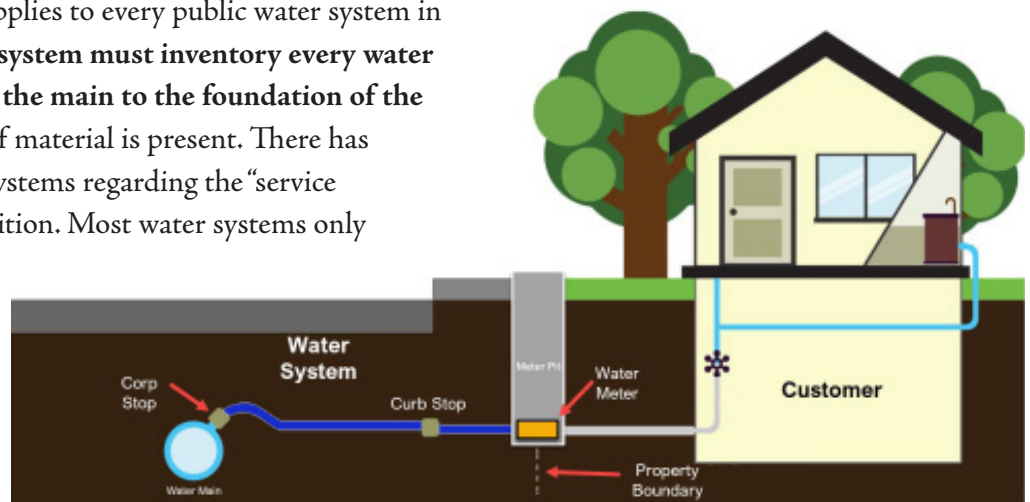


Elizabeth Grove, MRWA Management Circuit Rider

Many of you have heard by now about the new requirements of the recent changes to the Lead & Copper Rule. If you haven't, you need to get updated as the clock is ticking on meeting the new requirements outlined in this rule!

The Lead & Copper Rule Revisions (LCRR) went into effect on December 16, 2021. This new rule included many changes to the current Lead & Copper Rule, but **the major item that EPA wants every water system to concentrate on is the Lead Service Line (LSL) Inventory requirements outlined in the new rule.**

The LSL inventory requirement applies to every public water system in the nation. Basically, **every water system must inventory every water service line in their system, from the main to the foundation of the house**, and determine what type of material is present. There has been some confusion with water systems regarding the "service line all the way to the house" definition. Most water systems only own and maintain the service lines from the water main to the meter or to just past the meter. The remainder of the water line to the house is the responsibility of the homeowner or occupant.



This rule requires that the inventory include the homeowner's or occupant's portion of the line in the inventory. It does not mean that the water system is taking over ownership or control of the homeowner's portion of the service line, only that the inventory must include that portion.

The inventory must be completed and turned in to the Missouri Department of Natural Resources (MoDNR) by October 16, 2024. MoDNR will provide an Excel spreadsheet template for systems to use to enter the information on each service line. The template is expected to be available by late June 2022.

Information that will be required in the inventory includes, but is not limited to, an address or unique identifier for each service line and type of material (lead, galvanized requiring replacement, non-lead, or unknown). Some systems may think that taking the easy way out would be to categorize all service lines as "unknown". However, doing this will make things more difficult in the future. While the present emphasis is on completing the inventory, future requirements will include lead service line replacement, and those "unknown" service lines may have to be treated as lead lines and require communication with the property owner and/or service line replacement.



How do you complete an inventory for service lines that the water system has no historical records of installation, materials, condition, etc.? There are a few things a water system can do:

1. Talk with the property owner about the waterline serving the home or building. If the property owner allows, check inside the home where the water line enters to determine if lead is present.
2. Check building permits, county assessor records, etc.
3. Talk with local plumbers, homebuilders, etc., to see if they have any knowledge of the service lines they have worked on or installed.
4. If the water system is changing out meters, installing new waterlines, or other improvements on the water system, take notes on what is uncovered as far as service lines.
5. Talk to area real estate companies to acquire information on age of homes/buildings.
6. Pothole the service line to determine the material used.



The MoDNR will have information available soon about the requirements of this rule and resources available to help you comply. A letter will be sent from MoDNR to all water systems required to perform these inventories once guidance is received by the state from EPA. If you haven't received a letter, contact the Missouri Department of Natural Resources.

Systems should begin working on the inventory NOW! This will take some time and effort and the deadline of October 16, 2024, is only a couple of years away.

Future revisions to the Lead & Copper Rule: While the LCRR is focused on lead service line inventory work, EPA has announced that a Lead & Copper Rule Improvements (LCRI) rule will be issued and finalized in the summer of 2024. This new rule will require changes to testing protocols, sampling site plans, require replacement of LSLs, etc. It will significantly change the existing Lead & Copper Rule requirements. Compliance with the LCRI is expected to be the fall of 2027.

Water systems should begin working on their lead service line inventory now to have the information that will be required to comply with the Lead & Copper Rule Improvements coming from EPA in 2027.

As always, contact Missouri Rural Water Association with questions.

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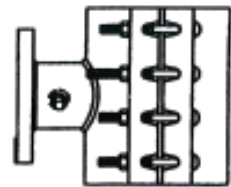
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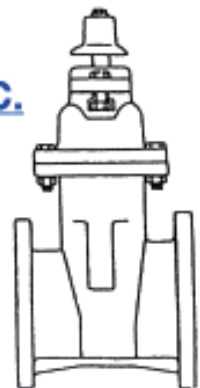
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Antonia Varner, Public Affairs Specialist
USDA Rural Development



Up to date water and wastewater systems are crucial for the health, safety, and economic vitality of Missouri's rural communities and residents...but did you know that USDA Rural Development partners with rural communities, water districts, and sewer districts to invest in this much needed infrastructure?

For more than 50 years, the USDA Rural Development [Water and Waste Disposal Loan and Grant Program](#) has supported rural communities by providing affordable financing options for clean and reliable drinking water systems and sanitary sewage disposal systems.

The program assists qualified applicants, who are not otherwise able to obtain commercial credit on reasonable terms, acquire, construct, or improve water and wastewater systems. Eligible applicants include most local governmental entities, private nonprofits, and federally recognized tribes in rural areas. MRWA has been an excellent partner with Rural Development for over 45 years.

Funds from this program can be used in a myriad of ways, like financing the acquisition, construction, or modernization for drinking water systems, sewer collection systems, solid waste collection, and storm water collection systems. This program helped more than 50,000 rural Missourians have access to safe and clean water in fiscal year 2021 alone. A large part of the success of this program is due to MRWA.



USDA Rural Development Missouri State Director Kyle Wilkens speaks at the MRWA Annual Conference in St. Charles.



USDA Rural Development Staff discuss how USDA Rural Development can assist rural communities at the MRWA Annual Conference.

The affordable loans and grants can be used for a variety of purposes. For example:

The city of Van Buren, located in Carter County, will use their Rural Development investment to make improvements to the city's water system. A Rural Development loan and grant, in conjunction with funding from Community Development Block Grant (CDBG) will assist the city with replacing approximately four miles of water distribution lines, replacing valves, installing new flush hydrants, installing two new water wells, and installing a new 250,000-gallon elevated storage tank as well as a 60,000-gallon standpipe. The existing distribution lines are prone to low pressures and the current ground source wells are subject to contamination during high water events. By relocating the new water sources to higher elevations, the city can improve its ability to better serve customers with a more reliable and safe drinking water system.

The city of Holts Summit, located in Callaway County, worked with Rural Development to partner in the creation of a regional wastewater treatment system. Rural Development loans, in conjunction with funding from CDBG and the city helped them construct

a regional pump station at its existing wastewater treatment facility to transport untreated wastewater to nearby Jefferson City for treatment. This project will also extend the collection system to include five (5) areas within the city limits that are not currently part of the city's wastewater system.

The Jefferson County Public Sewer District, located in Jefferson County will utilize their Rural Development investment to help improve and expand the Lower Big River Wastewater Treatment Facility. Rural Development loans will help fund the expansion which will provide additional capacity and spur the regionalization and consolidation of multiple smaller treatment systems in Jefferson County. The rehabilitation and expansion of the Lower Big River Wastewater Treatment Facility will accommodate additional future capacity needs as well as ensure the limits imposed by the Missouri Department of Natural Resources continue to be met.

Planned improvements include rehabilitation to existing treatment units and equipment, construction

of a new 300,000 gallon per day treatment unit, construction of approximately 4 miles of new collection lines, and elimination of 31 individual residential septic systems by incorporating them into the district's customer base. When complete this project will reduce the number of permitted systems by regionalization and consolidation and will provide a safer and more reliable wastewater treatment and collection system for Jefferson County residents.

Clark Thomas, the Community Programs Director, oversees the Water and Waste Disposal Loan and Grant Program in Missouri. He and an experienced team of over 30 specialists located throughout the state are available to answer questions and share how USDA Rural Development is focused on meeting the water and wastewater infrastructure needs of rural Missourians.

For assistance, please call the state office at (573) 876-9325 or reach out to your nearest USDA Rural Development Missouri office.



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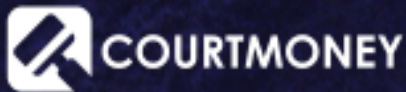
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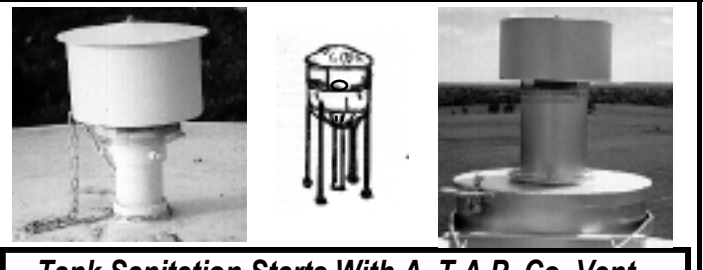


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MRWA Calendar of Events

July



- July 7 –
- Aug 9 10-Day Drinking Water Treatment & Distribution Certification Cameron
- 11 SW Water/Wastewater Apprenticeship Classes Begin Republic
- 13 Utility Financing, Budgets, & Reporting Urich
- 14 Wastewater Collection System Smoke Testing Crocker
- 14 Utility Financing, Budgets, & Reporting Ashland
- 20 3rd Quarter MRWA Board Meeting Ashland
- 20 Regulations Trenton
- 21 Sustainable Utility Management Trenton

August



- 11 Utility Financing, Budgets, & Reporting Richland
- 16 Utility Financing, Budgets, & Reporting Maysville
- 22 Board & Council Training Poplar Bluff
- 23 Bootheel Expo Office Pro's Expo Poplar Bluff
- 23 - 24 Bootheel Expo Poplar Bluff

September



- 5 Labor Day - MRWA Office Closed Ashland
- 26 – 28 NRWA WaterPro Conference National Harbor, MD

October



- 10 Columbus Day – MRWA Office Closed Ashland
- 18 – 20 Drinking Water Treatment Concepts Ashland
- 25 – 26 Office Professionals' Seminar Lake of the Ozarks
- 25 4th Quarter MRWA Board Meeting Lake of the Ozarks
- 26 MRWA Legislative Planning Session Lake of the Ozarks
- 27 -28 Fall Operations & Maintenance Symposium Lake of the Ozarks

November



- Nov 1 –
- Dec 14 10-Day Drinking Water Treatment & Distribution Certification Farmington
- 8 Election Day VOTE
- 6 Daylight Saving Time Begins
- 11 Veterans Day – MRWA Office Closed Ashland
- 24 – 25 Thanksgiving Holiday – MRWA Office Closed Ashland

December



- 23 – 26 Christmas Holiday – MRWA Office Closed Ashland



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The aforementioned Notes were issued to provide interim funding for Missouri municipal projects being funded through the United States Department of Agriculture, Rural Development.

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C-PWSD No. 1 of Cooper County	PWSD No. 3 of Laclede County
PWSD No. 1 of Oregon County	PWSD No. 3 of Jasper County
PWSD No. 1 of McDonald County	Schuyler County C-PWSD No. 1
Cape Girardeau County Reorganized Common Sewer District	
Pike Creek Reorganized Common Sewer District	

MISSOURI PUBLIC UTILITIES COMMISSION

John Sullivan, Public Water Supply District No. 3 of Howell County, Missouri, Chairman
Janet Sears, Consolidated Public Water Supply District No. 1 of Boone County, Missouri, Commissioner
Tammie Winter, Consolidated Public Water Supply District No. 2 of Lafayette, Johnson and Saline Counties, Missouri, Commissioner
Brian Bender, Public Water Supply District No. 1 of Macon County, Missouri, Commissioner
Crystal Cooper, Missouri Rural Water Association, Secretary

The Missouri Rural Water Association is the administrator of the Missouri Public Utilities Commission Interim Loan Program.

MISSOURI RURAL WATER BOARD OF DIRECTORS

David Waller, Board President
Roger Barker, Director
Tammie Winter, Director
Janet Sears, Director
Kathy Voyles, Director
Melinda Piper, Director
Paul Michael Shaw, Director

The undersigned assisted in the structuring and managing of the underwriting
Gilmore & Bell, PC, Note Counsel
Raymond James, Municipal Advisor
Rubin & Hays, Underwriters Counsel
Regions Bank, Trustee and Escrow Agent
Causey, Demgen & Moore, CPA, Verification Agent

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