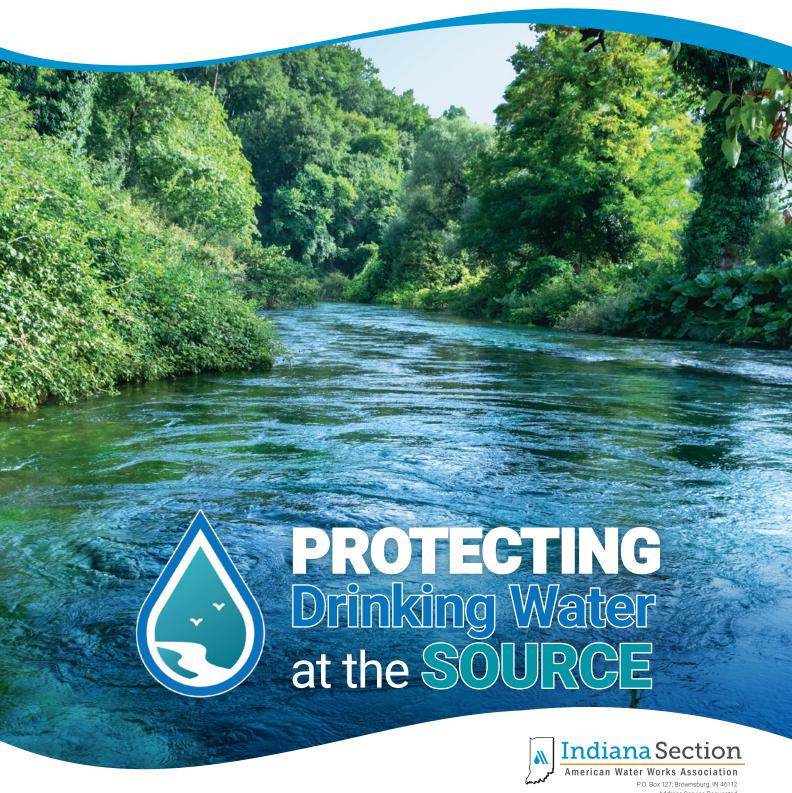


OFFICIAL PUBLICATION OF THE INDIANA SECTION AMERICAN WATER WORKS ASSOCIATION

FALL 2024



EJ Prescott full page #23 request: ifc S&K Equipment full page #3 request: opposite ifc







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Published by



www.kelmanonline.com Tel: 866-985-9780 Fax: 866-985-9799

Managing Editor: Mathias Leiendecker Design/layout: Tracy Toutant Marketing Manager: Dave Gill Advertising Co-ordinator: Stefanie Hagidiakow

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Cathy Lance, Chair Indiana Section Board of Trustees



An Update for the Next Quarter

INAWWA Golf Outing:

A Day of Fun, Fundraising, and Fellowship

The recent INAWWA golf outing was a tremendous success, bringing together 63 teams from across the state for a day of friendly competition and community support. The event, which took place under unexpectedly pleasant skies, was more than just a day on the greens — it was a powerful fundraising effort for two critical causes: One Indiana Water and Water For People.

Despite early concerns about the weather, the day turned out beautifully, allowing participants to fully enjoy the course and the camaraderie. The atmosphere was filled with laughter, networking, and the shared goal of making a difference. As the day progressed, it became clear that the true winners were the organizations benefiting from the funds raised.

Many thanks to the Golf Committee, headed by John Crist for arranging a great day!

AWWA National Conference: ACE 24

This year's Annual Conference was held in Anaheim, CA. The conference was a beacon of knowledge and innovation, offering attendees a wide range of informative classes and a diverse exhibit hall that showcased the latest in water industry advancements. Each evening was filled with social events, providing opportunities for networking and relaxation after days packed with learning. The food, as expected in a city like Anaheim, was exceptional, adding another layer of enjoyment to the experience.

2024 19th Annual Operator Boot Camp

On August 7 the INAWWA hosted 22 exhibitors with almost as many demonstrations and presentations in Peru, IN. There were 177 attendees to learn and enjoy the beautiful day. Kudos to all the vendors who took part in this informative event! Next year we will be celebrating our 20th Annual Operator Boot Camp! Save the Date for August 6, 2025.

Join Us at the Water Institute & Equipment Expo - December 3-5!

We're gearing up for an incredible event this December, and we want you to be a part of it! Whether you're an exhibitor, a vendor, or an attendee, this is the place to showcase the latest technologies, network with industry professionals, and gain valuable insights.

Exhibitors and Equipment Providers: Don't miss the opportunity to showcase your products and services to a targeted

audience. Space is limited, so register now to secure your spot and connect with the key decision-makers in the industry.

There's still time left to submit your abstracts. Share your latest project, technology, or process and contribute to the discussion shaping our industry. The submission window is only open for a few more weeks, so hurry!

Attendees, be sure to take advantage of everything this event has to offer:

- Tuesday, December 3: Dive into a full day of workshops, including Water and Wastewater Technical sessions.
- **Clay Shoot Event:** Support the Gambold Education Fund with a fun and competitive clay shoot.
- Wednesday Highlights: Attend the Awards Lunch, recognize
 outstanding achievements like the Operator of the Year,
 participate or cheer on those competing in the Meter
 Challenge and Hydrant Hysteria in the Exhibit Hall during the
 evening reception complete with hot and cold appetizers,
 snacks, and beverages.

Plus, there are **scholarships available** through the Gambold Education Fund (GEF) to support your participation in this conference. Make sure to apply!

And don't forget to nominate someone deserving for the **Operator of the Year** award, to be presented at the event.

Camaraderie and Networking: This expo isn't just about learning – it's about building relationships, sharing knowledge, and enjoying the company of fellow professionals who are passionate about the water industry.

We look forward to seeing you in December! Let's make this a memorable event together.

For complete details, read more in this issue.

Important Reminder: September 25 Board Meeting

As we approach the end of the fiscal year, I want to thank you all for your valuable participation in the budget process. Your input and collaboration have been instrumental in ensuring we remain on track.

Looking ahead, our next board meeting is scheduled for September 25. Your attendance is crucial as we'll be discussing key updates and planning for the upcoming year. I encourage all committee chairs and trustees to prioritize this meeting to help us align our goals and strategies effectively.





Our Southwest District

Jon Craig, Southwest District Trustee

The Southwest District spring meeting was a great success. The meeting was hosted at Midwest Municipal Supply in Owensville/Gibson County. Sessions focused on distribution system operations and maintenance with classes on appurtenances and dead-end water main flushing programs. The next District meeting, our fall business meeting, is slated for October 3 in Washington/Daviess County. At the fall meeting, we will elect our officers for 2025. Your current slate of officers is doing a great job with Poseyville Utilities Manager, Jeremy Farrar serving as the District President. Justin Guetling from Evansville Water and Sewer Utilities serves as Vice-President and Matthew Lindsey, from Vincennes Water Utilities, takes on the Secretary-Treasurer duties. Hats off to Justin and the entire EWSU crew for their tireless work in planning the annual Water For People Concert at the Victory Theater in Evansville. The annual event is scheduled for September 19 and will feature the Spinners with Dekar and the Bodyguards. The concert remains the largest single-night fundraiser for Water for People in the nation, and we are proud that it happens right here in the Southwest Region. If you are interested in tickets or sponsorships, please reach out directly to Justin or contact Maryjane at the AWWA office.





Evansville Water and Sewer Utility's GIS Team

has received a Special Achievement Award in GIS.

Another District happening and great achievement we would like to recognize is that Evansville Water and Sewer Utility's GIS Team has received a Special Achievement Award in GIS from Esri, the global leader in geographic information system software, at a national GIS software conference held in San Diego in July. The team's work in GIS made applications like EWSU's new Project & Advisory Map possible. Esri received more than 100,000 applicants worldwide but only around 200 software developers were recognized.

Manager Ryan Key and GIS Technician Aaron Krohn received the award from Esri co-founder Jack Dangermond for excellent work using GIS to improve government transparency and better serve the public. The photo is of EWSU's GIS team receiving the award from Esri's co-founder.

> AUMA Auctuators Inc - USA 1/4 vert #27 request: first 1/2

Water Institute 4 & Equipment Expo

The Indiana Section AWWA Board and Staff invite you and your company to participate in our upcoming Water Institute which will be held December 3-5, 2024. at the French Lick Resort and Conference Center in French Lick, Indiana.

Opportunities and Events

We are offering conference sponsorship opportunities, as well as, Exhibit Hall and Equipment Expo space. Social events currently scheduled:

- Tuesday Sporting Clays Shoot
- Tuesday Meet & Greet Reception, 5:00-6:00 pm Exhibit Hall
- Wednesday Competitions Reception, 5:00-6:30 pm. Exhibit Hall
- Wednesday After Hours Social Gathering at 33 Brick Street, Open to all attendees.

DO WE NEED VOLUNTEERS??? Absolutely! Please contact MaryJane Peters (866-213-2796 or maryjane.peters@ inawwa.org) to sign up!!

HOTEL RESERVATIONS - Hotel reservations should be made utilizing the following Passkey link: French Lick Resort (rguest.com) Group Code: 1224AWW; Password: 1224AWWA or call direct 844-241-6361, using Group Code 1224AWW.



The group rate of \$140/night plus tax will be applicable until Monday, November 4, or until the block of rooms is sold out. Rooms reserved after the deadline are subject to regular room rates. We thank you for your continued support of INAWWA! Our vendors are such an important part of our Indiana Section AWWA family and we look forward to your participation!

Join us in the Exhibit Hall for our competitions.

Hydrant Hysteria and Meter Madness.



Activities

There will be a lunch and evening receptions on both Tuesday and Wednesday. There are numerous activities and venues on Resort property and in town. Activities have already been planned - Sporting Clays Shoot on Tuesday and 33 Brick Street, Wednesday evening.



Tentative Schedule

Tuesday, December 3

7:00-8:00 am Registration 8:00 am-12:00 pm Pre-Conference Sessions 11:00 am-4:00 pm Sporting Clays Shoot 12:00-1:00 pm Lunch Pre-Conference 1:00-5:00 pm

Sessions 1:00-4:00 pm Exhibit Set-Up 5:00-6:00 pm Welcome, Meet &

Greet Reception Exhibit Hall

Wednesday, December 4

6:30 am Registration 7:00 am Exhibit Hall Open 8:00 am Sessions Exhibits Open, Session Break 12:00 -1:00 pm Awards Luncheon 1:00 pm Sessions Exhibits Open, Session Break 5:00-6:30 pm Competitions Reception

8:00 pm-12:00 pm 33 Brick Street, Hosted by UtilitySupply

All attendees welcome

Thursday, December 5

7:00-8:00 am Exhibit Hall Open 8:00-9:40 am Sessions 9:40-10:30 am Exhibits Open, Session Break 10:30 am Exhibit Tear Down

For more information on the 2024 Water Institute or the schedule, contact any of the following:

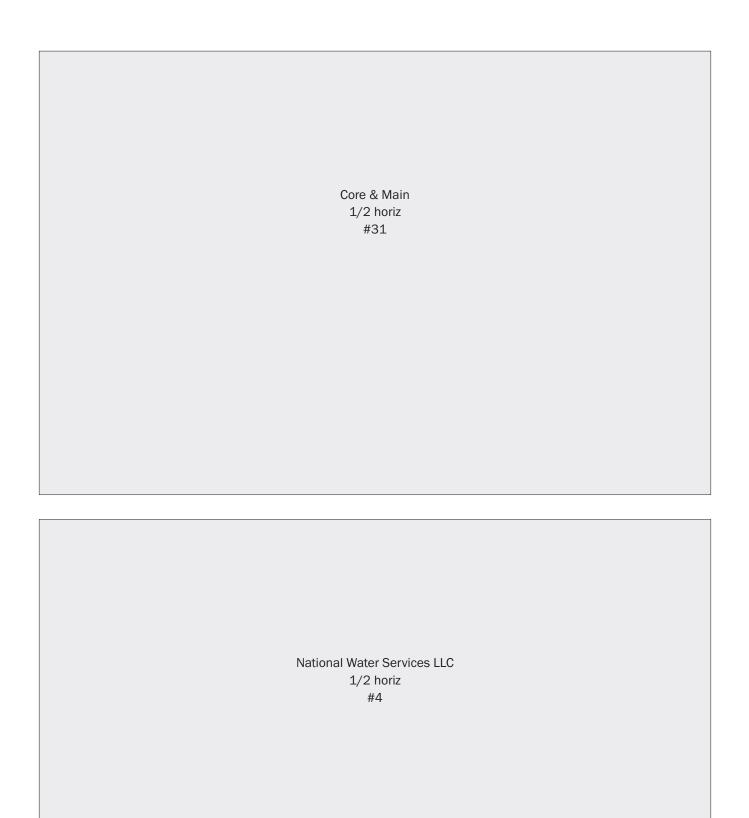
- Monique Riggs: INAWWA Executive Director; 317-372-9864; monique.riggs@inawwa.org
- MaryJane Peters: INAWWA Director of Finance & Admin.;866-895-4792; maryjane.peters@inawwa.org
- Tim Hill: INAWWA MAC; 317-695-9221; tim.hill@peerlessmidwest.com

For information on French Lick Resort activities and space: French Lick Resort; 812-936-5821.





Wessler Engineering 1/3 square #8



Philanthropy Committee

Jamin Beisiegel, Chair

Hello Water Professionals. I hope that you are all busy, but not too busy!

All our philanthropic activities are moving forward. Our key programs are One AWWA Operator Scholarship, Gambold Education Fund, Besozzi Grant, and INAWWA Youth Water Science Education Grant. All are fully funded, and numerous grants have been awarded this year.

The Gambold Education Fund will release applications this fall for the Water Institute & Equipment Expo in French Lick this December. Please keep this in mind as you prepare to attend this popular event.

Information for our Youth Water Science Education Grant will be sent out at the beginning of 2025. We hope to have several schools apply for the grant, which will be awarded at the Annual Conference in April. Please share the grant application with your school system, especially science teachers. We are always eager to increase education on the environment and water resources.

More than ever, we need your involvement in this committee. Participation will enhance our goal of helping as many as possible in Indiana and worldwide have access to clean and safe water. Your input will help us educate students, provide training to fellow operators, and support our local water and wastewater utilities. Please visit our website at inawwa.org for more information, nomination forms, and applications.

Information for our Youth Water Science Education Grant will be sent out at the beginning of 2025. We hope to have several schools apply for the grant, which will be awarded at the Annual Conference in April.



Beam Longest and Neff LLC 1/3 square #20

George E Booth Co Inc 1/2 horiz #24 American Ductile Iron Pipe 1/2 horiz #25

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Young Professionals Committee

Cheyenne Caroll, Chair

The 2024 INAWWA Young Professionals Committee Sponsorship Program kicked off in January. Due to the efforts and contributions made by the 2024 Young Professionals Committee Sponsorship Program, the YPs had the opportunity to hold a social event at the INAWWA Annual Conference, fund future networking events, sponsor a YP to attend the AWWA/ WEF Young Professionals Summit, have a social event at the IWEA Annual Conference, help college/ university students get involved with Student Chapters, and much more. In addition, we offer perks for each level of sponsorship. Please email us if you are interested in being a sponsor!

We want to thank all the Young Professionals who volunteered at the IWEA Annual Conference. Their efforts were greatly appreciated and were a tremendous help to keep the daily agendas rolling. During the conference, the Young Professionals hosted a social event at the Social Cantina in downtown Indianapolis. We had a great time networking and socializing over drinks and great food between conference activities.

In collaboration with the IWEA Young Professionals Committee, in July we hosted a social event at the Sun King Brewery Tour in Indianapolis for local committee members and any other members outside of Indianapolis who wished to join us. We hope to have the opportunity to host similar events to keep the Young Professionals well-connected.

Lastly, if you are interested in joining or learning more about the Young Professionals Committee and are under 35 years old or have been in the industry for 10 years or less, please reach out to indianaawwaiweayp@gmail.com for more information.







Neptune Technology Group 1/2 horiz #18 American Structurepoint Inc 1/2 horiz #21

Membership Committee

Josh Dixon, Chair

Summer 2024 New, Reinstated, Renewing Member Update

Individual Members

Brett Teske - Town of Highland

Ayanna Dickinson

Clayton McKee - ABT Global

Matt Zurbriggen - Valparaiso City Utilities

Nate McGinley - Valparaiso City Utilities

John Stafford - Stafford Advisors

Lourdes Borrego-Obrein - Tank Industry Consultants

Bradley Lillpop - South Harrison Water

Abbi Kuhn - Indiana Finance Authority

Chris Smith - Hydrosource LLC

Shawn Medsker

Chris Wilhoite

Amy Samuelson

Joseph Stout

Lara Brown - Abonmarche Consultants, INC.

Phillip Odenkirk - S.S. Papadopulos & Associates

Individual Members' Main Contact

Joseph Cavanaugh - Lawrenceburg Municipal Utilities

James Mixell - Town of Yorktown

Jeremy Staley - Van Bibber Water Conservancy

Carrie McIntire - Town of Royal Center

Jake Gearhart - Town of Akron Water Department

Matthew Turner - Town of Shipshewana Utilities

Briana Noggle - Town of Cayuga

Small Systems Committee

Jeremy Hardy, Chair

Indiana Section AWWA's Small Systems Committee continues to focus on our mission of serving and educating small to medium utilities and training associated with water treatment and utility management. Our committee intends to facilitate and empower utilities to become effective stewards of our water resources.

As always, we would love to know your ideas on how we can better serve you. Feel free to contact any of our Small Systems Committee members (www.inawwa.org/about-us/ committees/small-systems) with your thoughts and ideas, or if you are interested in joining the committee.

Student Members

Sandra Cordoba Renteria - Purdue University Colleen Geib - Purdue University Redemption Edegbe - University of Notre Dame Joel Aboderin - Purdue University

Operations and Administrative Members

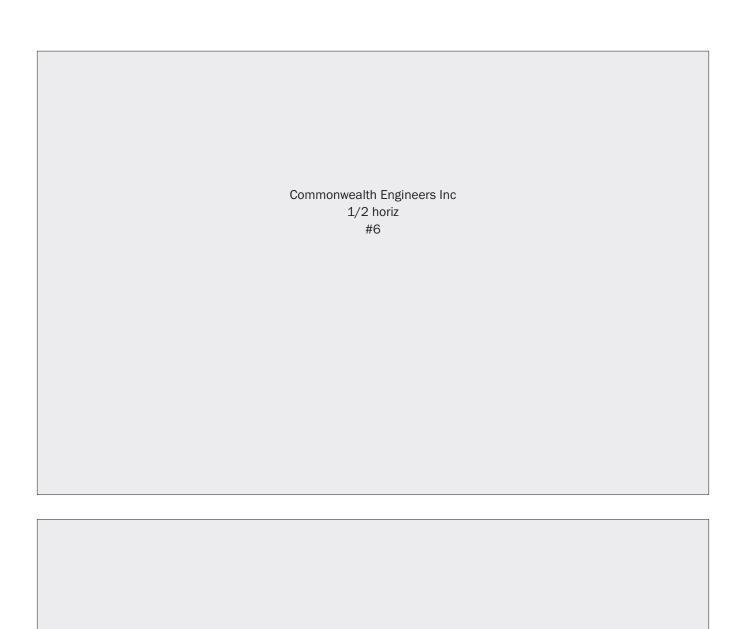
Brian Simpkissb - Badger Meter John Weidman - JW's Plumbing Services Devin Meunier - Town of Troy Jim Loyd - Washington Water Works Fred Brokaw - Town of Fort Branch Melvin Wagler - Wagler Corp.

Indiana Section Membership Snapshot (August)

Utility Members - 282 Individual Members - 1093 Service Providers - 33 Late Members - 55

Total Section Membership - 1463 ■

United Consulting 1/4 vert #37



Kokosing Industrial 1/2 horiz #7

Golf Committee

John Crist, MAC Golf Chair

Thank you to our volunteers and partners below for sponsoring 63 teams this year!

- · EJ Prescott for sponsoring dinner again this year.
- **JCM Industries** for sponsoring lunch again and the Ugliest Golf Shirt contest.
- **Tyler-Union** for sponsoring our putting contest and Peerless Midwest for sponsoring the Water Ball contest again this year.
- **GRW Engineers** and **Utility Supply** Company for sponsoring the par 3 contests once again.

Mickelson Sponsor

Citizens Energy Group M.E. Simpson Co Peerless Midwest Utility Supply Company

Nicklaus Sponsor

A.Y. McDonald Commonwealth Engineers Core & Main Covalen EJ Prescott Ferguson **GRW Engineers** Layne Christensen Neptune Technology Group Ortman Drilling & Water Services Water Solutions Unlimited Wessler Engineering



Palmer Sponsor

Alliance of Indiana Rural Water

American Flow Control Aqua Indiana Atkore Bastin Logan Water Services EJ Ford Meter Box Industrial Water Solutions JCM Industries Jones & Henry Engineers Lewis Municipal Sales M-Cor Marketing McWane Ductile McWane Plant & Industrial Midwest Utility Sales Midwestern Engineers Mueller Company Mueller Water Products Pelton Environmental Products Preferred Pump Regions Bank **RJM Sales** Smith Blair Triad Associates

Tyler-Union

Utility Solutions

Bubba Sponsor

Vestal Manufacturing

Winners!

Sycamore

1st place - Commonwealth #2 2nd place - Lewis Municipal Sales Last but not least - AY McDonald Longest Drive - Josiah Kissel Closest To Pin - Hunter Cook

Pines

1st place - Triad & Associates 2nd place - JCM Industries Last but not least -Industrial Water Solutions Longest Drive - Kieran Tansy Closest To Pin - Kyle Riddle

Justin Shaffer won first place in the JCM Industries Ugliest Golf Shirt Contest with Laurie Webb coming in second.

Citizens Energy Group won the **Peerless** Midwest Water Ball contest.

Jim Cook with Commonwealth won the Jack Doheny putting contest.

"We look forward to seeing everyone again next year!"





Water For People Committee

Amanda Withers, Chair

The Indiana Section thanks all those who participated or volunteered in support of Water for People this summer! Please join us for Water for People's biggest fundraiser of the



year at the Evansville Concert on September 19 at the Victory Theater. https://www.waterforpeople.org/event/water-forpeople-benefit-concert.

Run for World Water 5k Downtown Indy













Sunset Cruise on Beautiful Lake Wawasee in Syracuse IN











PROTECTING



Drinking Water at the SOURCE

Useful Information to Enhance Water Utility Source Water Protection Programs

SOURCE WATER PROTECTION

What does source water protection involve, and why is it important?

The American Water Works Association (AWWA) has developed this article to provide a concise overview and suggest ways to protect an invaluable natural asset.

Why is source water protection important?

Water utilities rely on sustainable sources of water that can be treated to provide, reliable, high-quality drinking water. Source water protection is the first of several barriers to ensure safe drinking water, followed by other components of a multi-barrier approach that includes effectives water treatment, secure distribution systems, and monitoring and evaluation.

Source water protection provides many benefits, including public health protection, watershed and ecosystem improvements, and socioeconomic benefits. It involves identifying potential threats to drinking water, assessing the risk associated with those threats, and establishing proactive measures that can help address them.

DID YOU KNOW?

A consistent supply of high-quality water is safer, easier, and much more cost-effective to treat.

RELEVANT DEFINITIONS

- **Source water** is a raw, untreated supply of water typically surface water or groundwater - used for current or potential future drinking water.
- Source water protection is a proactive approach to safeguarding, maintaining, or improving the quality and/or quantity of drinking water sources and their contributing areas.
- **Stakeholders** are any group or individual interested in, affected by, or having an impact on source water protection activities.

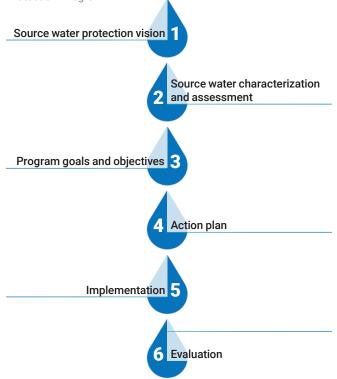
AWWA'S STANDARD

AWWA, with the American National Standards Institute, has established the ANSI/AWWA G300 Standard for Source Water Protection, which outlines six key components of a local source water protection program. Figure 1, from AWWA's Source Water Protection Justification Toolkit, outlines the components of a source water protection program.

REGULATORY FRAMEWORK

There are various regulatory approaches to source water protection among federal, state/provincial, and local governments. At the federal level, requirements for source water protection are limited in large part because local land use is an issue managed by local governments and land use policies. States and provinces take varying approaches to continued source water assessment and protection measures. Some approaches are voluntary where others require implementation of source water protection programs for surface water and/or groundwater used as drinking water supply sources.

Figure 1. Components of a Successful Source Water Protection Program



Source: Source Water Protection Justification Toolkit. AWWA, 2018.

The 1996 Amendments to the Safe Drinking Water Act (SOWA) established a regulatory framework for **source water protection.** This required states to develop source water assessment programs that define source water protection areas for water systems, inventory potential contaminant sources, determine water system susceptibility to contaminant sources, and provide the assessment results to the public. There is no federal requirement to implement local source water protection programs based on these assessments, although some states have established related requirements.



PROTECTING DRINKING WATER AT THE SOURCE

"Water utilities rely on sustainable sources of water that can be treated to provide, reliable, high-quality drinking water."

Canadian partners also have multi-barrier regulatory frameworks for source water protection. For example, Ontario has implemented a comprehensive drinking water protection framework from source to tap under the Clean Water Act, 2006, which includes strong laws and regulations; health-based standards for drinking water; regular and reliable testing; action on Adverse Water Quality Incidents; mandatory licensing; operator certification and training requirements; a multifaceted compliance improvement toolkit; and public engagement. For more information, visit https://www.ontario.ca/page/source-protection.

ENGAGE UTILITY STAFF AND THE COMMUNITY

- 1. Highlight information about the water supply and source water protection in consumer communications such as Consumer Confidence Reports (CCR) in the US, or Canada's Drinking Water Report Card.
- 2. Identify ways that community residents and businesses can help protect source water through every day actions - visit the What You Can Do For Source Water Protection Week webpage.
- 3. Share a copy or link to your local source water assessment and/or protection plan, along with guidance on how to ask questions or provide feedback.
- 4. Post information to social media related to drinking water sources and source water protection. Encourage engagement through comments and interactive content.
- 5. Share educational materials about source water protection. Examples could include training courses, webinars, workshops, and K-12 school programs. The Source Water Collaborative Learning Exchange is a great place to start.
- 6. Issue a newsletter or press release that focuses on the importance of source water protection, how the utility approaches it, and action everyone can take to protect drinking water supplies.
- 7. Hold a poster, photo, essay, or art contest for kids to show what source water protection means to them.
- 8. Host a live or virtual watershed tour to help people connect land use activities to the quantity and quality of water for drinking water supplies.
- 9. Connect with local watershed and conservation organizations to discuss ways to partner on source water protection efforts.
- 10. Host and/or participate in community volunteer activities that protect the environment such as watershed cleanups, stenciling stormwater drains, and planting trees or riparian buffers.



EDUCATE CUSTOMERS THROUGH COMMUNICATIONS

Utilities of all sizes can share source water protection information with customers in regular communications. Including information about the source of supply, importance of source water protection, and ways customers can help protect shared water resources can help build a broad, educated, and supportive ratepayer base.

In the US, the Consumer Confidence Report (CCR) Rule requires all community public water systems to prepare an annual report on the quality of their drinking water. This includes specific information about the source of water including the type of water (e.g., surface water, groundwater), commonly used name and location of the water source, availability and access to the source water assessment, and susceptibility to potential sources of contamination. America's Water Infrastructure Act (AWIA) of 2018 includes provisions to enhance the understandability and frequency of CCRs.

CCRs are a great tool to connect with and inform customers. AWWP.:s Communicating Source Water **Protection Efforts in Consumer Confidence Reports** Guidance provides additional information on source water protection topics to include in CCRs and successful communication tips.

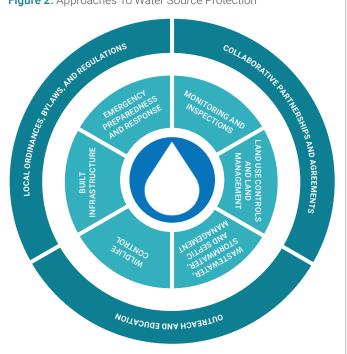
CALL TO ACTION

- Incorporate source water protection into utility programs and activities.
- Work with stakeholders to identify priority issues and partner on protective measures.
- Educate and engage utility employees and customers about sources of supply and what they can do to help protect them.

APPROACHES TO SOURCE WATER PROTECTION

Source water protection activities should target the priority threats to water quality and public health. When evaluating potential approaches, it is important to consider several factors such as cost and timeline for implementation, technical complexity, associated legal restrictions, and key stakeholders responsible for and/or affected by the activity. Successful source water protection programs will likely require a combination of activities. Examples of common activities are provided in Figure 2.

Figure 2. Approaches To Water Source Protection



Source: Source Water Protection Justification Toolkit. AWWA, 2018.

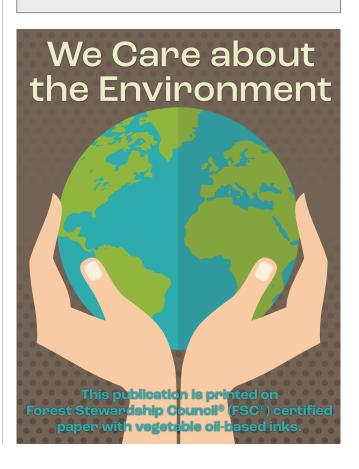
PARTNERS IN SOURCE WATER PROTECTION EFFORTS

- Drinking water systems and utilities
- Customers and community stakeholders
- State/provincial drinking water primacy agencies
- State/provincial environmental agencies
- Local planning and emergency management agencies
- Watershed organizations and conservation authorities
- Land trusts
- Soil and water conservation districts
- Federal, state, and provincial forestry agencies
- Natural Resources Conservation Service State/provincial and field offices
- National Source Water Collaborative and its member organizations



Dedicated to the World's Most Important Resource

Ortman Drilling & Water Services 1/4 vert #10



Dixon Engineering Inc Pittsburg Tank & Tower Group Inc 1/4 vert 1/4 vert #16 #17 Curry & Associates Inc Baxter & Woodman 1/4 vert 1/4 vert #33 #35



TRAINING, SKILLS, DEDICATION on Display at ACE24 Competitions



Amid cheering and high-fives, the water community celebrated its top contenders during the past week's hard-fought competitions at the American Water Works Association's (AWWA) Annual Conference and Exposition (ACE24) in Anaheim, California.



Meter Challenge winners and sponsors from left: Sponsor Badger Meter representative, Dennis Laskowski, Leamon Anderson, Tim Sensibaugh (Meter Challenge Committee chair), Edward Navarette, Jacob Harrison, Badger Meter representative.

Hydrant Hysteria: Two-member teams race to assemble a specified hydrant Men

- 1st Lake Meridian, Pacific Northwest Section, 1:12.66
- 2nd Beaufort Jasper Water and Sewer Authority, South Carolina Section, 1:12.82
- 3rd Los Angeles Department of Water and Power, California/Nevada Section, 1:13.87

Women

- 1st Elsinore Valley Hydrant Belles, California/Nevada Section, 1:31.25
- 2nd Region of Peel Pipe Wenches, Ontario Section, 1:35.19
- 3rd Elsinore Valley Sprinkle Squad, California/Nevada Section, 1:39.50

Meter Challenge: Individual contestants race to reassemble working water meters from parts

- 1st Dennis Laskowski, Texas Section, 33.97
- 2nd Leamon Anderson, Texas Section, 55:19 (includes penalty)
- 3rd Jacob Harrison, Virginia Section, 40:41
- 4th Edward Navarette, South Carolina Section, 46:16

Pipe Tapping: Three-member teams ace to tap a cement-lined, ductile iron pipe Men

- 1st Servicios de Agua y Drenaje de Monterrey Apodaca, Mexico Section, 1:21.65
- 2nd Birmingham Water Works Board, Alabama/Mississippi Section, 1:27.68
- 3rd Big Blue Tappers, Washington Suburban Sanitary Commission, Chesapeake Section, 1:30.03
- 4th Denver Water, Rocky Mountain Section, 1:42.79

 5th - Beaufort Jasper Water and Sewer Authority, South Carolina Section, 1:49.63

Women

- 1st Grit City Grind, Tacoma Water, Pacific Northwest Section, 2:24.72
- 2nd Big D Lady Tappers, Dallas Water Utilities, Texas Section, 2:25.97
- 3rd Alamo City Tappers, San Antonio Water Systems, Texas Section, 2:28.22

AWWA World Water Cup: International drilling and tapping competition

- 1st SADM Apodaca, AWWA, 11:59.4
- 2nd Waterbedrijf Groningen, KNW Netherlands, 21.35.2

Top Ops: Teams of operators and lab technicians compete to score the most points answering scientific questions and math problems

- 1st Tulsa Terminators (Steve Thomas, Curt Ellis, Lainee Carner), Southwest Section
- 2nd Str8 Drippin, Washington Suburban Sanitary Commission (Robert Nally, Glenn Johnson, Robert Holmberg), Chesapeake Section
- 3rd Chloramine Machines (Riley Smith, Mark Edwards, Matt Walker), Skagit, Washington, Public Utilities District, Pacific Northwest Section
- 4th Reservoir Dawgs (Aaron Caudillo, Monica Vasquez, Mark Taylor), Sacramento Suburban Water District, California/Nevada Section

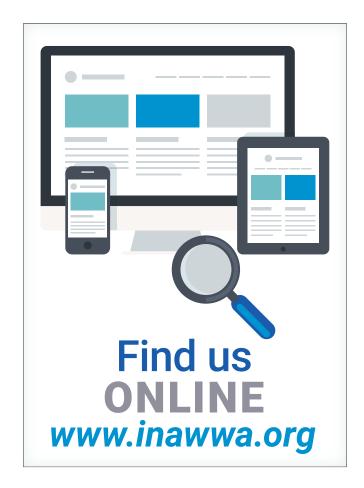
Best of the Best Tap Water Taste Test – A panel of experts determines which AWWA Section taste test winner is "best of the best"

- 1st City of Charlottetown, Prince Edward Island, Atlantic Canada Section
- 2nd New Jersey American Water, Camden, New Jersey Section
- 3rd Northeast Sammamish Sewer & Water District, Washington, Pacific Northwest Section

People's Choice Tap Water Taste Test – ACE participants at tasting stations vote on their favorite AWWA Section taste test winner

- 1st City of Janesville Water Utility, Wisconsin Section
- 2nd City of Fargo Water Treatment Plant, North Dakota Section
- 3rd Prince William County Service Authority, Woodbridge, Virginia Section ■

GRW Engineering Inc 1/4 vert #12



Water Solutions Unlimited 1/2 horiz #22

Indiana's Voluntary Cybersecurity Vulnerability Assessment Program for the Water Sector

Travis Goodwin

As we begin the homestretch of 2024 it has become evident that cybersecurity discussions for water sector utilities are here to stay. The threat landscape continues to grow, fighting in the Ukraine and the Middle East, and other civil unrest around the globe create both motivation and opportunity for bad actors to target critical infrastructure state-side to create distraction and financial gain. News of cyber-attacks has become part of the daily news cycle, and at least weekly we see reports of drinking water or wastewater utilities being targeted. While regulations for cybersecurity are almost a certainty both federally and within Indiana in the future, IDEM began implementation of a voluntary assessment program in 2024, to both help utilities safeguard themselves from ever-present cyber threats and get them prepared for potential regulatory requirements coming in the months and years ahead.

Drinking Water Program

Municipal drinking water utilities of all sizes, from the smallest to the very largest are encouraged to perform annual cybersecurity vulnerability assessments and to take actions to mitigate identified vulnerabilities to increase the cybersecurity resilience of Indiana's water sector. If a utility serves a population of over 3,300 customers, EPA compliance reports have signaled the utility has completed at least one assessment as part of the America's Water Infrastructure Act of 2018 (AWIA) requirements. For these utilities, this will simply mean increasing the frequency of their AWIA assessment schedule and would provide compliance with the rule when the next assessment cycle begins (2025/26).

Utilities are free to choose an assessment tool that fits their unique



needs, but IDEM would highlight and strongly encourage the use of selfassessment tools that are both free and tailored to the water sector, two that are readily available are from the American

Water Works Association (AWWA), and the US EPA. Both tools provide robust assessments and mitigation plans. The AWWA tool also boasts the benefit of the Indiana Chapter of the AWWA

Municipal drinking water utilities of all sizes are encouraged to perform annual cybersecurity vulnerability assessments

and to take actions to mitigate identified vulnerabilities to increase the cybersecurity resilience of Indiana's water sector.

providing free training, funded by the Indiana Finance Authority, to train utility personnel to use the AWWA assessment tool. Contact Monique Riggs with the Indiana Section of AWWA to inquire about upcoming workshops scheduled at monique.riggs@inawwa.org, or call her at 866-213-2796. First and foremost, IDEM wants to create a program that could be assessable and affordable to all of Indiana's utilities, regardless of size or available resources.

The AWWA website contains guidance on physical security and cybersecurity geared towards all sizes of utilities, directs both members

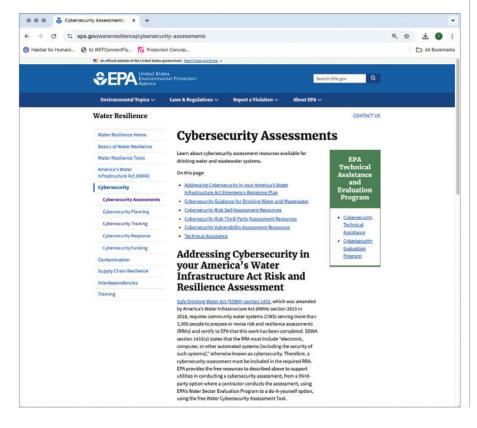
and non-members to EPA, CISA, and WaterISAC resources, and of course contains a cybersecurity assessment and evaluation tool any utility can download and use to self-assess at no cost. The tool can offer an expansive question set to utilities that have more sophisticated systems and a reduced question set for smaller utilities with less sophisticated control systems. This interactive tool asks utilities to examine how they are using various technologies. Based on responses, the tool generates a customized, prioritized list of controls most applicable to the utility's technology applications. Utilities can use this output to determine the implementation status of critical controls designed to mitigate cybersecurity vulnerabilities. Simply navigate to the AWWA website, and search for "Water Sector Cyber Security Assessment Tool", an AWWA website login is required for access - but membership is not required, and it is easy to set that up.

The EPA webpage contains information on EPA and CISA assessment resources, cyber response planning tools and guidance including EPA's WCAT self-assessment tool, cybersecurity training available from the EPA, cyber incidence reporting and response, and funding sources for cybersecurity resilience. EPA's Water Cybersecurity Assessment Tool and Risk Mitigation Template or WCAT, is a free tool available to all utilities to allow self-assessment, can also be used by technical assistance providers and contractors, and it provides information on how to prioritize identified risks. The EPA is offering webinars to teach interested utilities to use the tool and has or soon will have a recorded copy of the initial webinar available on demand on their website. The EPA's extensive cybersecurity resources can be found by searching for "EPA cybersecurity for the water sector" in your browser and searching for WCAT on the webpage to find the tool and associated resources.

Initial recurring cybersecurity program follow-up will be accomplished during the sanitary survey process. IDEM inspection staff will ask community public water supplies if they are participating in the voluntary plan and inquire if the associated mitigation plans contain vulnerabilities that they require assistance to resolve. At this time, inspectors can also check the utility's emergency response plan, to ensure cybersecurity measures are addressed and part of the routine updates of the ERP. Once a utility has identified vulnerabilities, IDEM, EPA, CISA, and many water sector partners stand ready to help should they encounter issues



EPA's Water Cybersecurity Assessment Tool and Risk Mitigation Template or WCAT, is a free tool available to all utilities to allow self-assessment.



requiring mitigations beyond their current capacities.

IDEM is currently working with the Indiana Office of Technology, the Indiana Finance Authority, and the Indiana Department of Homeland Security to cultivate in-state resources to assist utilities with mitigating vulnerabilities. EPA has created a multitude of guidance documents, has a 24-hour cybersecurity hotline for questions, and supports a CEU-based assessment program administered through TA providers for very small utilities. CISA offers a suite of services and guidance materials to water sector utilities that includes vulnerability scanning services to identify if a utility has unsecured internet-facing devices. IDEM is exploring opportunities to add through staff hiring or vendor contracts, subject matter expertise to provide both remote and in-person assistance to utilities.

Wastewater Program

The AWIA framework applies to only the drinking water segment of the water sector, so in Indiana, there is currently no federal or state regulatory framework or baseline of initial assessment/mitigation being undertaken by any uniform segment of the wastewater systems. Indiana is proposing to implement the same voluntary assessment and mitigation program being used in the drinking water program, but it will require more groundwork and preparations to roll out to the wastewater utilities. All regulated wastewater facilities will be contacted and provided some basic information about the risks posed by any IT and OT systems they may employ, and they will be strongly encouraged to participate in the voluntary program. The same free assessment tools offered by the AWWA and EPA can be used by wastewater utilities.

Additionally, Indiana has no statutory authority to require wastewater systems to complete and maintain an emergency response plan. IDEM will employ the same approach as with the cybersecurity program, explain the need for emergency planning, and encourage the creation and maintenance of an ERP that contains cybersecurity response and mitigation planning for any utility not already doing so. Initial and recurring follow-up will be accomplished during routine compliance inspections, which in Indiana, are completed annually for most wastewater utilities.

Free Vulnerability Scanning Services Offered by CISA

Regardless of what method of assessment you choose, consider taking advantage of the free vulnerability scanning services offered by the Cybersecurity and Infrastructure Security Agency (CISA). The CISA webpage contains a wider range of CISA and EPA resources, as well as information on CISA's cross-sector cybersecurity performance goals, information on

stopping ransomware and recognizing and averting phishing attempts, incident reporting directly to CISA, connecting with CISA staff across the country within each EPA region, as well as a number of advisories, current alerts, and other cybersecurity information. As noted above, CISA also has a program offering vulnerability scanning. You can search in your web browser for "CISA Water and Wastewater Cybersecurity" to find out about allCISA resources.

In closing, IDEM would invite all of Indiana's public drinking water and wastewater systems to participate in the voluntary plan at a scale appropriate to your utility's size and complexity. If you have any questions about the program or need assistance finding state or federal resources, don't hesitate to contact me or your IDEM field inspectors. I can be reached by email at tgoodwin1@ idem.in.gov or by phone at 317-234-7426. ■

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Lead and Copper Rule

Stacy Jones, Indiana Department of Environmental Management, Drinking Water Branch

Service Line Inventories are required to be submitted to IDEM through the PWS Portal (hosted by 120Water through a contract with the Indiana Finance Authority) by October 16, 2024. We will be required to begin issuing reporting violations for any system that does not have its inventory submitted by midnight on October 16. If you do not have access to your PWS Portal account or need to grant access to your account to a contractor who is assisting with the completion of your inventory, please contact 120Water at support@120water.com.

Your inventory needs to identify both the system-owned and customer-owned portions of the service line (from the distribution main all the way to the shut-off valve into the home or business). More information on how to complete your inventory can be found on IDEM's website at IDEM Drinking Water and Lead. Additional questions can be sent to DWBMGR@idem.IN.gov.

In addition, we want to let you know about the portions of the Lead and

Copper Rule Improvements that will be going into effect on October 16, 2024.

- Customer Notification of Service Materials
 - · Within 30 days of October 16, 2024, if your system has any lead service lines, galvanized service lines requiring replacement, or any unknown service lines, you need to send information to each location with one of those types of lines, letting them know what the lines are at their home or place of business.
 - US EPA Templates have now been published. A fact sheet on the notification requirements and the Templates are available on EPA's website at Notification of Known or Potential Service Line Containing Lead. The templates are also attached to this email.
 - There are required elements that must be included in the notification. You can provide additional information to your customers, particularly if you already have a replacement program in place.

- Tier 1 Public Notification of Lead Action Level Exceedances
 - Beginning October 16, 2024, a Tier 1 Public Notification will need to be issued to all water users within 24 hours of finding out that you have exceeded the lead action level. There is specific information that must be included in your Tier 1 Public Notification. This is in addition to the Public Education requirements under the Lead and Copper Rule.
 - US EPA Materials can be found at:
 - · Tier 1 Public Notification Template (pdf)
 - · Tier 1 Public Notice Fact Sheet (pdf)

All of the EPA information on the portions of the LCRR that will go into effect on October 16, 2024, can be found at the following website www.epa.gov/dwreginfo/lead-andcopper-rule-implementation-tools.

If you have specific questions concerning any of this information, please contact us at DWBMGR@idem.IN.gov. ■

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PFAS

Stacy Jones, Indiana Department of Environmental Management, Drinking Water Branch

US EPA's PFAS Rule was finalized on April 26, 2024. The initial requirements under the rule are for systems to collect samples on the following frequencies to meet the initial monitoring requirements no later than April 25, 2027.

System Type	Number of Samples Required	Collection Times
Surface Water Systems	4 Samples Quarterly for 1 Year	2-4 Months Apart, But During Separate Quarters
Groundwater Systems Serving less than 3,300 Customers	2 Samples for 1 Year	5-7 Months Apart
Groundwater Systems Serving 3,300–10,000 Customers	2 Samples for 1 Year	5-7 Months Apart
Groundwater Systems Serving over 10,000 Customers	4 Samples Quarterly for 1 Year	2-4 Months Apart, But During Separate Quarters

Many systems will be collecting some or all of these samples as part of the Fifth Unregulated Contaminant Monitoring Rule (UCMR5) and others have collected some samples under the state's voluntary monitoring program. **IDEM** is currently assessing what sampling each system will have completed through both programs and we will notify each community or Nontransient Noncommunity water system by the end of 2024 of what additional monitoring will be required during 2025 or 2026 to meet your initial monitoring requirements.

Data from the initial monitoring will be used to determine what your compliance schedule will be (either quarterly or triennial) beginning in 2027, and all systems need to be in compliance with the MCLs and the Hazard Index (with treatment installed if needed) by April 2029.

Chemical	Maximum Contaminant Level Goad (MCLG)	Maximum Contaminant Level (MCL)
PFOA	0	4.0 ppt
PFOS	0	4.0 ppt
PFNA	10 ppt	10 ppt
PFHxS	10 ppt	10 ppt
HFPO-DA (GenX chemicals)	10 ppt	10 ppt
Mixture of two or more: PFNA, PFHxS, HFPO-DA, and PFBS	Hazard Index of 1	Hazard Index of 1

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety and are non-enforceable public health goals.

Maximum Contaminant Level (MCL): The highest level of contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards. **ppt:** parts per trillion

Hazard Index (HI): The Hazard Index is a long-established approach that EPA regularly uses to understand health risks from a chemical mixture (i.e., exposure to multiple chemicals). The HI is made up of a sum of fractions. Each fraction compares the level of each PFAS measured in the water to the health-based water concentration.

How do I calculate the Hazard Index?

The Hazard Index is made up of a sum of fractions. Each fraction compares the level of each PFAS measured in the water to the highest level below which there is no risk of health effects. EPA is currently developing an online calculator to assist water systems in determining their Hazard Index result. The online calculator will perform the calculations explained here.

Step 1. Divide the measured concentration of Gen X by its health-based value of 10 ppt.

Step 2. Divide the measured concentration of PFBS by its health-based value of 2000 ppt.

Step 3. Divide the measured concentration of PFNA by its health-based value of 10 ppt.

Step 4. Divide the measured concentration of PFHxS by its health-based value of 10 ppt.

Step 5. Add the ratios from steps 1, 2, 3, and 4 together.

Step 6. Compliance with the Hazard Index MCL is determined by a running annual average. To determine the running annual average, repeat steps 1-5 for each quarterly sample collected in the past year and calculate the average of these quarterly Hazard Index results.

Step 7. If the running annual average
Hazard Index is greater than the MCL
of 1, it is a violation of the Hazard
Index MCL. ■

 $\label{eq:equation:poly} \text{Equation:} \quad \text{Hazard Index (1 unitless)} = \left(\frac{\left[\text{HFPO} - \text{DA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) + \left(\frac{\left[\text{PFNS}_{\text{ppt}} \right]}{[2000 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}_{\text{ppt}} \right]}{[10 \text{ ppt}]} \right) \\ + \left(\frac{\left[\text{PFNA}$



AWWA M. Themes

Overarching Themes

- 1. AWWA is marking the 50th anniversary of the Safe Drinking Water Act by celebrating the achievements of water professionals and advocating for regulations developed through sound scientific process. (SDWA Anniversary, Fly-In & Toast, Drinking Water Week, ACE24)
- AWWA is driving innovation and collaboration to achieve the vision set forth through Water 2050. (Water 2050, AWWA 2030 Strategic Plan, Artificial Intelligence, One Water, ACE24)
- 3. AWWA is building an inclusive water community that sustains a skilled workforce, invests in young leaders, embraces diversity and fosters a sense of belonging. (Diversity Standard, Transformative Water Leadership Academy, Water Equation scholarships, DEIB core principle, accessibility initiatives)
- 4. AWWA is leading water sector efforts to strengthen resilience against climate risks and cybersecurity threats. (Water Risk and Resilience Organization, AWIA compliance, source water protection, conference sustainability initiative)
- AWWA shares best practices and knowledge to strengthen public trust, inspire innovation, and advance access to safe water globally. (UN Global Compact, lead/PFAS communications, Innovation Hub, International programs, CE Corps)

Policy-Focused Themes

- 1. Water consumers are best served by a regulatory framework that scientifically evaluates and prioritizes risks. (Integrity of SDWA process, cost/benefit analysis, emerging contaminants)
- 2. AWWA is advocating for a permanent low-income assistance program for water services to help those in need and sustain water systems. (Low-Income Customer Water Assistance Program, environmental justice, equity, public health)
- 3. PFAS contamination must be addressed throughout the water cycle, with cleanup costs absorbed by polluters, not by water systems and consumers. (PFAS regulations, Superfund liability exemption for water systems, affordability)
- 4. Water professionals are committed to protecting communities from lead in pipes and plumbing while we work for a future when lead is no longer in contact with drinking water. (LCRI, lead communications)
- 5. AWWA is helping water systems access funding to address water infrastructure and source water protection needs. (WIFIA, SRFs, Farm Bill)

Upcoming Events & Activities

Please visit our website - www.inawwa.org - for details and registration information. Water and Wastewater Continuing Education Units (CEUs) are to be approved by IDEM. Well, Driller and Pump Installer hours are to be approved by IDNR, as applicable. Professional Development Hours (PDHs) for engineers are available, as applicable. Other events are being planned, so please check our website regularly, or call our office at 866-213-2796 for updates.

DATE	EVENT		
September 5	Central District Fall Meeting – Lafayette		
September 10	RCAP: 1-Hour Webinar: Utility Board Training		
September 12	Southeast District Fall Meeting – Greensburg		
September 19	Northeast District Fall Meeting – Wabas		
September 19	Concert – Benefitting Water For People – Evansville		
September 27	Northwest District Fall Meeting – Hammond		
October 2	Joint Utility Management Seminar (IWEA & INAWWA) – Bowen Engineering – Indianapolis		
October 3	Southwest District Fall Meeting – Washington		
October 9	Line Locating & Valve Exercising Workshop - Peru		
October 24	Operator Certification Training – Hybrid – Huntington	Please contact Megan Fleming at 317-446-4237 or meganfleming@inawwa.org to host an event or suggest a topic for a workshop.	
October 30	Operator Certification Training – Hybrid – Carmel		
November 6	Well Driller Pump Installer Workshop – Avon		
November 12	Operator Certification Training – Hybrid – Gary		
November 13	Operator Certification Training – Hybrid – Peru		
December 3-5	Water Institute & Equipment Expo – French Lick		

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2024 WATER INSTITUTE & EQUIPMENT EXPO DECEMBER 3-5, 2024 - DUE SEPTEMBER 30TH

Call for abstracts:

Abstracts should be 100 to 200 words and define the main purpose and learning objectives of the session. For best results to be selected for the program, create a title that accurately describes the topic and what will be learned from attending the session. Include why it is relevant to specific attendees and identify specific learning objectives. Include length, 30 or 60 minutes.

For selection consideration, submitted abstracts must include biographies and complete contact information for all speakers.

Questions?

Technical Program Committe Chair: Scott Dompke 812-972-0665 scott.dompke@mesimpson.com

The Technical Program Committee reviews the submittals, prepares the program and notifies the speakers.

Don't miss out on the opportunity to get in front of hundreds of utility decision makers at either French Lick Conference Center,

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·WATER LOSS
·EMERGING CONTAMINANTS
·INTELLIGENT INFRASTRUCTURE
·AUTOMATED METERING
·AUTOMATED MAPPING AND WORK ORDERS
·LABORATORY ANALYSIS

PLEASE SEND ABSTRACTS TO: ABSTRACTS@INAWWA.ORG



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