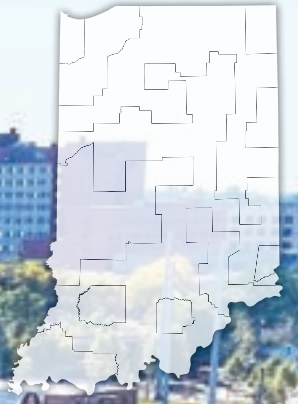


HOOOSIER PIPELINE

SUMMER/FALL 2022



The official publication of the Alliance of Indiana Rural Water



ALLIANCE
OF
INDIANA
RURAL WATER

'22

Fall Conference
October 26 & 27
Fort Wayne, IN

INSIDE: FALL CONFERENCE | SPRING CONFERENCE RECAP | APPRENTICESHIPS

ETNA

SUPPLY COMPANY

**YOUR WHOLESALE PROVIDER OF
MUNICIPAL/UTILITY/WATERWORKS
SUPPLIES**



1212 South Walnut Street | South Bend, IN 46619
574-287-0132

www.etnasupply.com

PROUD DISTRIBUTOR OF:

Mueller SYSTEMS

ROMAC
INDUSTRIES, INC.

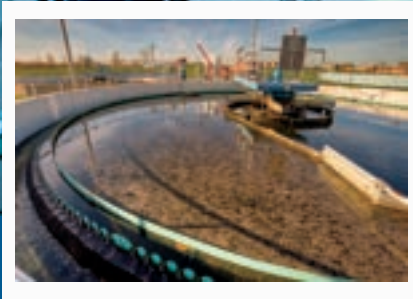
FORD

FORD METER BOX



AMERICAN
FLOW CONTROL

AND OTHER QUALITY MANUFACTURERS



**COMMONWEALTH™
ENGINEERS, INC.**

Commonwealth Engineers, Inc. is an industry leader in helping communities solve their most pressing matters related to water resources.

**Water Resource
Engineering & Consulting
Service Excellence Since 1974!**



Corporate Office

7256 Company Drive, Indianapolis, IN 46237

Regional Offices: Evansville, Indianapolis North, Fort Wayne, and Crown Point, IN | Bowling Green, KY



317.888.1177

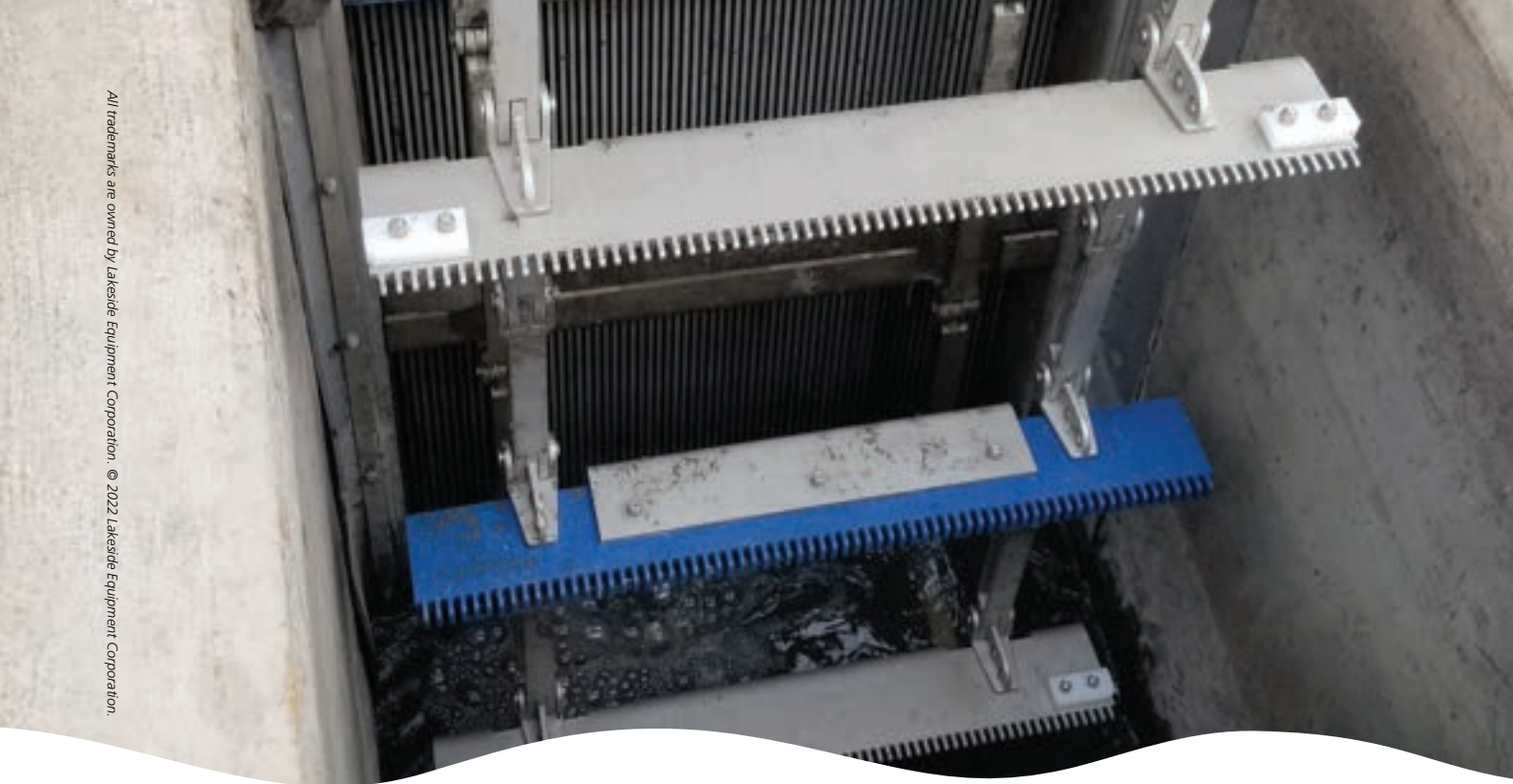


cei@contactcei.com

- **Potable Water**
- **Wastewater**
- **Stormwater**
- **Civil/Transportation**
- **Dams/Levees**
- **Electrical & Energy Savings**
- **Regulatory Assistance**
- **Operations Assistance**
- **Funding Assistance**

commonwealthengineers.com





NO LOWER BEARINGS, SPROCKETS, BUSHINGS OR GUIDES. NO PROBLEMS!

Capture more debris with no fouling or jamming. Lakeside's **Raptor® FalconRake® Bar Screen** features a trouble-free stainless steel chain link design and multiple rake heads to achieve continuous, highly efficient solids removal with low headloss. The energy saving drive system operates at variable speeds to ensure superior cleaning, and is easily accessible above the water surface. And, as with everything Lakeside manufactures, our heavy-duty design and all stainless steel construction is made to last even in the most severe conditions. Protect your downstream equipment with the **Raptor FalconRake Bar Screen**, Lakeside's proven, durable and cost-effective screen technology for rapid debris removal in municipal and industrial applications.

REPRESENTED LOCALLY BY:



WaterWorks LLC

8651 Castle Park Drive
Indianapolis, IN 46256
T: 317.842.3226 x-127
E: ken@FACOLLC.com



Cleaner Water for a Brighter Future®

Speak to one of our experts at **630.837.5640**, email us at **sales@lakeside-equipment.com** or visit **lakeside-equipment.com** for more product information.



Raptor® Screening Products

- Fine Screen
- Micro Strainer
- Rotating Drum Screen
- Septage Acceptance Plant
- Septage Complete Plant
- Complete Plant
- Multi-Rake Bar Screen
- FalconRake® Bar Screen
- Rotary Strainer Screen
- Wash Press



Published for Alliance of Indiana Rural Water
 555 W. Jefferson St., Franklin, IN 46131
 Phone: 317-789-4200 • Fax: 317-736-6676
 Help Line: 888-937-4992 • www.inh2o.org

ALLIANCE BOARD OF DIRECTORS
President

Tom Speer, *City of Lawrence Utilities*
 (NIRWA National Director)

Vice President

Tim Doersam, *Jasper Municipal Utilities*

Treasurer

Adam Sams, *LaGrange County Regional Utility District*

Secretary

Brad Colter, *Connersville Utilities*

DIRECTORS

Todd Gardner, *BBP Water Corp.*

Pattie Campbell, *Ramsey Water Co., Inc.*

Catlyn Helmuth, *Town of LaGrange*

Nancy Harmon, *South Henry Regional Waste District*

Nate Besse, *Town of Fowler*

ASSOCIATE DIRECTORS

Richard Burch, *Midwestern Engineers, Inc.*

David Harvey, *Water Solutions Unlimited*

ALLIANCE STAFF



Connie Stevens
Executive Director



Dave Adkins
Water Circuit Rider



Kristin Bean
Marketing & Event Coordinator



Miranda Bergen
Accounting Director



Rex Blanton
Wastewater Training Director



Pete Crowl
Wastewater Circuit Rider



Toby Days
Source Water Specialist



Dee Deig
Energy Efficiency Circuit Rider



Kelly Gardner
Apprenticeship Program Coordinator



Judy Jacobs
Office Assistant



Lorean Johnston
Wastewater Circuit Rider



Gordon Meyer
Water Circuit Rider



Donald Papai
Apprentice Training Director



Chad Reynolds
Water Circuit Rider



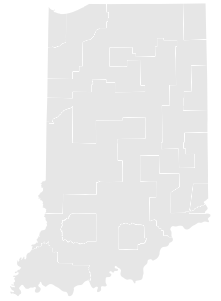
Keirsten Taylor
Office Administrator



Sherri Winters
Water Programs Director

HOOOSIER PIPELINE

SUMMER/FALL 2022



The official publication of the Alliance of Indiana Rural Water

FEATURES

2022 SPRING CONFERENCE RECAP	12
2022 OPERATOR EXPOS RECAP	20
2021 BEST-TASTING WATER IN INDIANA NAMED!	23
LEADERSHIP...KEY TRAITS TO MAKE THE PATH A SMOOTHER ONE	25
ENGINEERING OUR COMMUNICATIONS	28
WORDS THAT WORK	30
KNOWLEDGE VERSUS TOOLS OF THE TRADE	33
FOOD TO MICROORGANISMS RATIO (F/M RATIO)	35
HYDRANT FLUSHING – NOT A ONE-SIZE FITS ALL PROGRAM	36
SHOULD I CONSIDER SOLAR ENERGY FOR MY WATER AND WASTEWATER TREATMENT FACILITIES?	37
ALLIANCE OF INDIANA RURAL WATER PRESENTS WATER & WASTEWATER MANAGEMENT TO PURDUE	39
TEACHING PAST, PRESENT, AND FUTURE	43
SERVLIN SCHOLARSHIP DEVELOPING SKILLED WORKERS FOR WATER AND WASTEWATER INDUSTRIES	46



DEPARTMENTS

PRESIDENT'S MESSAGE	7
EXECUTIVE DIRECTOR'S MESSAGE	9
LCRR LEAD SERVICE LINE INVENTORY BRAIN TEASERS	47
ADVERTISER PRODUCT & SERVICE CENTER	50

COVER PHOTO: Grant Creek, Lafontaine, IN by Donald Papai.



PUBLISHED BY



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

Managing Editor
 Design/Layout
 Marketing Manager
 Advertising Co-ordinator

Reba Lewis
 Dia Chea
 Dave Gill
 Stefanie Hagidiakow



OverWatch®

Direct In-Line Pump System

Changing the world one wet well at a time.

What has your wet well done for you lately?

Gravity lines that feed our lift stations seem to dump in and mix the contents well, right? The cream (FOG - fats, oils, and grease) rises to the top, and the heavy solids settle out, leaving us to pump the liquid in between. This condition allows for grease and wet wipes to band together causing even larger problems, not to mention we are only pumping the liquid in between. Eventually we are going to have to call a vac truck to suck the grease off the top and the grit off the bottom, or we'll be at risk for our level controls to fail. The debris at the bottom of the tank is decaying and emitting hydrogen sulfide and other harmful gases that are dangerous to the environment and smells *terrible*.

What if you could truly eliminate lift station maintenance? With the OverWatch® Direct In-Line Pump System, you can say goodbye to odors, grease, and you will never have to call a vac truck again!

The IFS OverWatch® Direct In-Line Pump System is designed to keep the flow moving, just like in your gravity pipes feeding the lift station, we keep it moving. Clogs are a thing of the past since we don't have a basin for FOG to rise, nor will grit and debris settle out.



Fully installed OverWatch® Direct In-Line Pump System

CALL IPW TODAY FOR A FREE QUOTE!

SCAN TO LEARN MORE ABOUT THE
OVERWATCH® DIRECT IN-LINE PUMP SYSTEM!



INDUSTRIAL
FLOW
SOLUTIONS™



317-360-PUMP

www.indianapumpworks.com



An Indiana Veteran Owned Small Business

Indiana Pump Works is proud to be
**your exclusive, Municipal Indiana
distributor for the OverWatch® Direct
In-Line Pump System!**

info@indianapumpworks.com

INDIANA PUMP WORKS, LLC

We Make Flow Happen



SALES — LIFT STATIONS — SERVICES



Tom Speer
Alliance Board President

So Many Great Events, And So Many More Reasons to Say Thanks

Greetings once again Alliance members! By the time this article comes out, we will be about three-quarters of the way through 2022! So much has happened, and I want to take some time to recap our events thus far. In March, we had our Spring Conference in beautiful French Lick, Indiana. It was another great event with record numbers of over 900 attendees!

We started out on Tuesday night with National Water Services Annual Pre-Conference Party at Legendz Sport Bar. A big THANK YOU once again to the National Water Services Team for hosting this great event. Everyone had such a great time! The next morning, we began our classroom sessions, and then in the afternoon, we presented our awards for the BEST OF THE BEST in the water and wastewater industries. Congratulations again to all our award winners! Then on Thursday, we had a hot breakfast and continued with more great educational classes. As always, we then announced our many raffle winners. This raffle not only provides awesome prizes for several lucky attendees, but it also raises funds for WaterPac to ensure rural water and wastewater is represented in Washington, D.C.

Next on our list is one of my favorite events: the Operator Expos in Huntingburg and Akron. We also had record attendance at these events and had several informative presentations put on by our vendors. As in the past, we had our "famous" hog roast lunch provided by David Harvey and the Water Solutions Unlimited crew.

Our sincere THANKS to Dave and Water Solutions for continuing this wonderful tradition.

In July, we had our Leadership Summit in downtown Bloomington. This was another great event with so much for our industry leaders to learn and talk about. Good business practices for operation and proper utility management are essential in long-term success, and this event provided our leaders with the skills necessary to achieve their goals, as well as highly important industry knowledge and updates. All had a wonderful time networking and learning with fellow leaders of our industry!

In September, we have our annual Clay Shoot and Scholarship Golf Outing. This is yet another event that is so graciously supported by many of our vendors and members. All proceeds from this event go to our Alliance Scholarship Fund, which provides college scholarships to eligible children of our members. We award four \$2,000 scholarships to highly deserving students at our Spring Conference in

French Lick. For those who may want to apply, please look for information to come out about this in December or refer to our website, inh2o.org.

Don't forget about our highly anticipated Fall Conference in Fort Wayne, Indiana. Please mark your calendars to attend this event to be held on October 26 and 27 at the Grand Wayne Convention Center.

I'd also like to say thank you to our great Alliance staff for continuing to represent us so well and provide the great services they do. I can't miss saying THANK YOU to our Executive Director and the office staff for scheduling all the conferences and classes throughout the year. And to my fellow Board members, thank you for your continued guidance and leadership of this great organization.

And finally, to you, our members... THANK YOU for your continued support of this great organization. This is your association! Please let us know if there are any special classes you'd like to see us present, or if there is anything with which we can help you.

I hope to see you at one of our upcoming events. Have a great rest of 2022! ★

Midwestern Engineers, Inc.

LOGOOTE, IN
812.295.2800

WWW.MIDWESTERNENG.COM

INDIANAPOLIS, IN
317.334.0262



FREE SHIPPING FOR ONLINE ORDERS*

A TRUSTED INDUSTRY PARTNER SINCE 1837

Pollardwater has kept the nation's water and wastewater operations flowing smoothly since 1837. Our expertise is rooted in over 180 years of experience in providing high-quality service and products to businesses just like yours.

SHOP. SHIP. SAVE.

ORDER NOW AT
[POLLARDWATER.COM](https://pollardwater.com)



Pollardwater[™]

*Free standard ground shipping for online orders in the contiguous U.S. Some exclusions may apply. Previous orders will not be adjusted. Standard rules and charges apply for express shipping, expedited shipping and return shipping. Pollardwater reserves the right to withdraw or modify this offer at any time. Call 1-800-437-1146 for more information. ©2022 Ferguson Enterprises, LLC 0322 3479676



powered by
FERGUSON



Connie Stevens
Executive Director

New Legislation Makes It A Busy Year for Legislators

If you attended the Spring Conference, you may have heard Senator Eric Koch speak at the Awards Luncheon about leadership in the water and wastewater industry. Senator Koch chairs the Utilities Committee, and represents District 44. He is very involved with any legislative discussion concerning utilities in Indiana. Senator Koch assured us that if we (meaning utilities) experience unintended consequences or issues due to the bills passed this year, he will listen to our concerns and address them. He wants us to bring these concerns to his attention. For his commitment to the wellbeing of water and wastewater utilities, as well as his resolute integrity, we presented Senator Koch with the Commitment to Rural Excellence Award. He could see by the number of attendees in the room that these people represent a significant number of utilities, and those utilities represent a great deal of customers in each of their communities.

Senator Koch also reminded attendees to stay in touch with the legislators in their areas and keep them informed of what is important to them. It is the legislator's job to listen to their constituents and look out for the best interest of the communities in their districts, and this goes for all levels of government. They cannot represent us well if we don't keep them informed.

Although this was a "short" legislative session, 2022 has been a busy year for our Indiana legislators. While I have concerns with a couple of the bills that were passed, I will let time tell if any of them were ill-advised, or if each actually



Senator Eric Koch and the Alliance Board.

has a positive impact. We will keep a close eye on how this legislation truly affects the water or wastewater utilities. That said, the following bills may be of interest to you:

HB 1002 – Repeals the utility receipts and utility services use tax. This is mainly for municipalities and For-Profits and is typically included in the rate structure. Your rate consultant has likely contacted you about this. To read the entire bill, see: <http://iga.in.gov/legislative/2022/bills/house/1002>

HB 1245 – This has to do with charging a capacity or tap fee. Exemptions for connecting to regional sewer district. Local health departments cannot impose residential onsite sewage system requirements that are more stringent than those of the Departments rule. To read the entire bill, see: <http://iga.in.gov/legislative/2022/bills/house/1245>.

SB 272 – Wastewater infrastructure. This bill encompasses many pieces discussed during the Wastewater Infrastructure Taskforce meetings. Provides that the Indiana Finance Authority shall serve as the executive branch coordinator for funds allocated or made available to the state or local

communities from federal, state and other sources for purposes related to drinking water, wastewater or stormwater infrastructure and systems. To read the entire bill, see: <http://iga.in.gov/legislative/2022/bills/senate/272>

SB 273 – Financing of water and wastewater utility assets. To read the entire bill, see: <http://iga.in.gov/legislative/2022/bills/senate/273>

SB 374 – Regional water and sewer district service areas. To read the entire bill, see: <http://iga.in.gov/legislative/2022/bills/senate/374>

In alignment with our discussions of good leadership in this industry, the Alliance of Indiana Rural Water will be hosting the Leadership Summit in Bloomington on July 27 and 28 this year. This Summit is specifically for Board Members, Council Members, and Utility Managers. There will be excellent and highly relevant topics, including "Planning for an Uncertain Future", "Where's the Funding?", "Economic Importance of Utilities", "Rates You Can Live With", Peer to Peer Roundtable discussions, and so much more. I hope to see you and your Board members there! We sincerely care about your utility's success. ★



NEW
CONCERTOR™
PUMPING SYSTEM WITH
INTEGRATED
INTELLIGENCE

WORLD'S FIRST WASTEWATER PUMPING SYSTEM WITH INTEGRATED INTELLIGENCE

This revolutionary system delivers optimal performance while reducing your total cost of ownership. It also offers unparalleled flexibility and simplicity on a whole new level. You might even say it thinks for itself. We invite you to enter a new era in wastewater pumping with Flygt Concertor.

One powerful solution. Unlimited possibilities.

Flygt Indianapolis Branch

7615 West New York Street
Indianapolis, IN 46214

PH: 317.273.4470

FX: 317.273.4480

www.xylem.com/pumping

xylem
Let's Solve Water



LOCATION

Grand Wayne Convention Center
120 W Jefferson Blvd, Fort Wayne, IN 46802

MAKE PLANS TO JOIN US!

Make your plans now to attend the 2022 Annual Fall Conference in Fort Wayne! This event offers great networking and educational opportunities for water and wastewater professionals, as well as the ability to earn contact hours. It also provides vendors the perfect venue to showcase their products and services to a variety of utility professionals.

Earn up to 10 contact hours for Water & Wastewater!

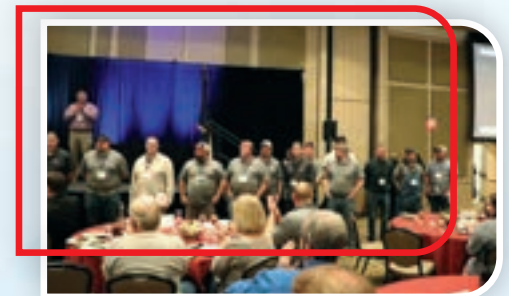
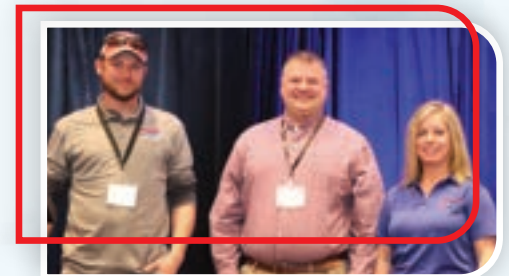
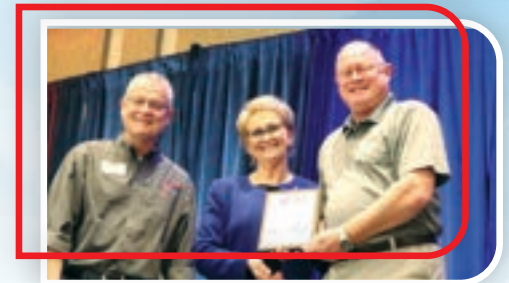
2022 SPRING CONFERENCE RECAP

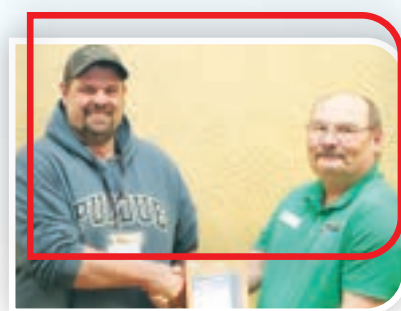
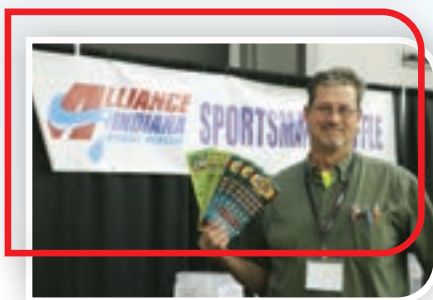
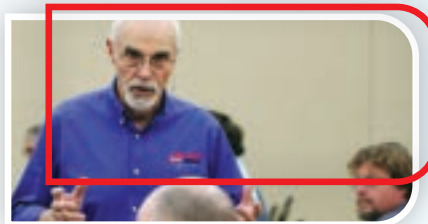
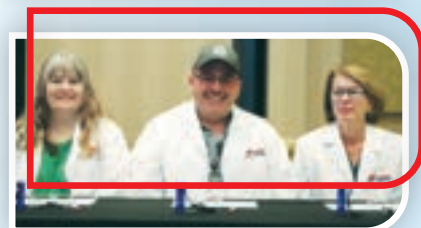
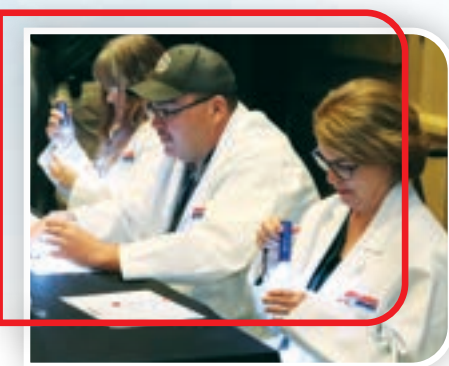
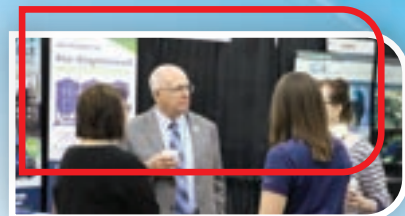
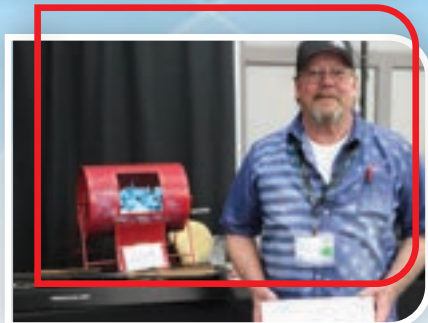
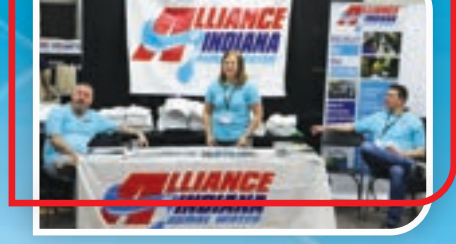
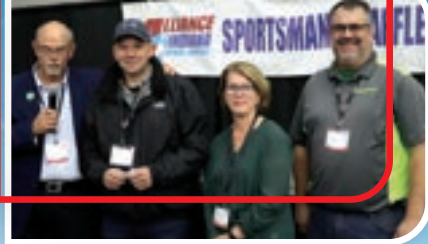
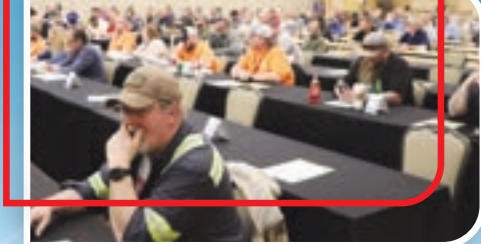
A huge THANK YOU to everyone who participated in the Spring Conference at the beautiful French Lick Resort in March! We had record numbers this year, and we couldn't be more grateful to all of our exhibitors, speakers, sponsors, staff and board for their efforts to help make the event a success! To our attendees, we couldn't be more appreciative of you taking the time out of your busy (and very important!) schedules to take part in this event and to continue to grow and strengthen our essential industry!

We welcomed everyone on Tuesday evening with a wonderful Pre-Conference Hospitality Kick-Off Event sponsored by National Water Services at Legendz Sports Bar & Grill. Wednesday morning, we hit the ground running and participants went off to their chosen track of classes – administrative, water, or wastewater. After receiving positive feedback from last year's staggered class sessions, we had a similar schedule planned for this year. Luckily, we were able to bring our Awards Luncheon back to honor our best of the best in the industry, as well as four outstanding students with \$2,000 scholarships!

Wednesday evening, we hosted a Hospitality Bowling Event on-site at Pluto's Alley with arcade games, drinks, bowling, and pizza! It was a great time to wind down from a full day of classes while mingling with peers and friends, both new and old.

Thursday morning, everyone woke up to a delicious hot breakfast buffet before starting in on another day of classes. We also held the first round of our Regional Taste Test Competitions. The City of Fort Wayne will advance to the Best Tasting Water in Indiana Contest to be held at the Grand Wayne Convention Center during our Fall Conference. We wrapped up the conference by announcing the big Sportsman's Raffle grand prize winner. Over \$5,500 in tickets were sold for the Sportsman's Raffle, the proceeds of which were donated to WaterPAC! This year's winner was Steve Vail from NineStar Connect, who walked away with a Trager Grill package worth over \$2,500! Dave Harvey from Water Solutions Unlimited won the shotgun raffle. Todd Watts from the City of Austin won the all-inclusive trip for two to the NRWA conference this fall in National Harbor, Maryland, sponsored by Covalen & Midwestern Engineers, Inc. Thank you all for helping make this another fantastic Alliance event! ★





RADAR IS THE BETTER ULTRASONIC



\$725
VEGAPULS C 11

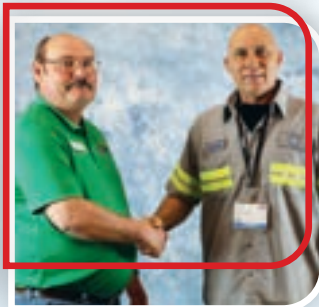
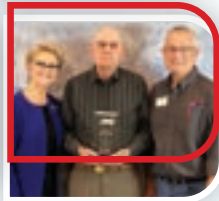
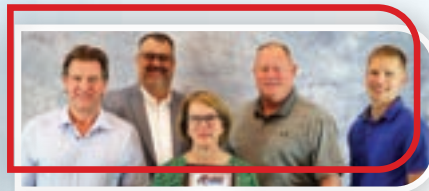
80 GHz level sensor with
fixed cable connection (IP68)

- Accuracy and reliability
meet affordability
- Easy Bluetooth setup via the
VEGA Tools app for smart devices
- Optional remote display available

All advantages of the radar technology:
www.vega.com/vegapuls



2022 AWARD RECIPIENTS



The best of the best in the water and wastewater industry were honored at our 2022 Spring Conference. Each recipient was presented with their award prior to the conference, then recognized throughout the event on a slideshow displaying on the event center's television monitors throughout the venue!

Robin Willey, Town of Nashville Utilities
Wastewater Systems Operations Specialist of the Year

Gabe Brindle, Town of Huntertown Utilities
Water Systems Operations Specialist of the Year

Kevin Crecelius, Town of Shoals
Manager of the Year

Micah Sarabyn, Ben Davis Conservancy District
Administrative Professional of the Year

Midwestern Engineers
Associate Member of the Year

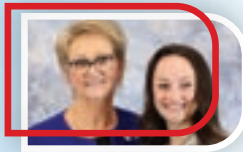
Gene Eaton, Napoleon Community Rural Water Corp.
President's Choice Award

Connie Stevens, Alliance of Indiana Rural Water
Steward of the Environment Award

Senator Eric Koch, District 44
Commitment to Rural Excellence Award ★

2022 SCHOLARSHIP RECIPIENTS

The annual Alliance awards scholarships is based on fundraising from our annual Golf Outing and Clay Shoot. This year, the Alliance awarded four \$2,000 scholarships!



Samantha Williamson
Daughter of Travis Williamson
Hartford City WWTP
\$2,000 Recipient



Ethan Hall
Son of Daniel Hall
Patoka Lake Regional
Water & Sewer
\$2,000 Recipient



Ellie Hall
Daughter of Daniel Hall
Patoka Lake Regional Water & Sewer
\$2,000 Recipient



Emma Hall
Daughter of Daniel Hall
Patoka Lake Regional
Water & Sewer
\$2,000 Recipient ★

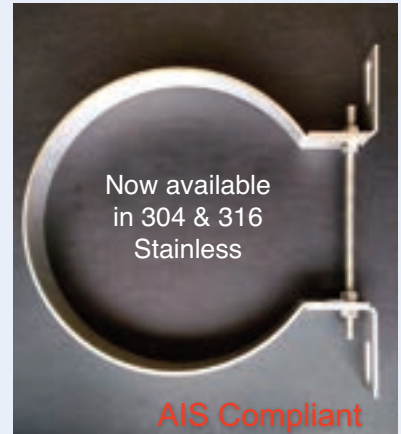
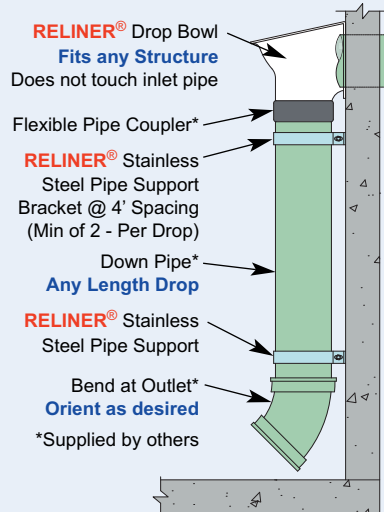


□□□□ wasting resources on outside drops □



Manhole Inside Drop

- Eliminate outside drops
- Reduce maintenance
- Simplify cleaning
- Stop Corrosion
- Install Quickly



Stainless Pipe Supports

- Adjustable, non-corrosive
- 11 gauge 304 or 316 SS
- Supports the pipe fully
- 1.5"-30" dia. in stock
- Easy to install



www.reliner.com

1-800-508-6001

Proud Alliance SPONSORS

Diamond Associate Members



Sapphire Associate Members



Water Treatment Chemicals, Equipment and Local Service



*Customized solutions by a
professionally trained team.*

Muncie, IN
765.288.8930

Frankfort, KY
502.695.0536

University Park, IL
708.258.3797

wtg@hawkinsinc.com

800.328.5460



Now Hiring for Sales & Service!

Visit www.hawkinsinc.com/careers
for current openings and locations

SERVICE

- Mini Bulk Delivery
- Equipment Installations
- Laboratory Testing



WATER TREATMENT

- Potable Water
- Wastewater Treatment
- Collection Systems



EQUIPMENT

- Chemical Injection Pumps
- Chlorination Control
- Chemical Feed Equipment



Foundations of LCRR Compliance



Lead Service Line Inventory

- Utilities must compile and manage an inventory of both public and private owned service lines within their service area by 2024.
- Submission recurrence is now based on a system's monitoring compliance schedule and the first inventory must be submitted within three years (or prove they don't have LSLs).
- Inventories must be made publicly available and each customer serviced by an LSL or a line with an unknown material must be notified annually.

Public Communication and Education

- Any customer with an individual lead sample result > 15 ug/L must be notified within three days.
- After all monitoring round samples are in, customers must be notified within 24 hours if the 90th percentile level are > 15 ppb.
- LSLI information must be made public and included in the CCR
- Systems must provide public education materials when doing mandatory LSLR.

Sampling Requirements

- A 1st- and 5th-liter draw and analysis for any Tier 1 and Tier 2 properties served by an LSL is now required.
- The Tier List will be based on the LSL inventory and all Tier 1 samples must be collected from any property served by an LSL.
- A new "find and fix" provision requires a second look at properties with high lead levels.

Testing in School and Daycare Facilities

- Utilities must sample 20% of elementary schools and certified childcare facilities in the service area each year.
- Secondary school sampling must be provided when requested.
- Results and public education must be provided to each sampled facility, primary agency, and health department.

For more information on the partnership and how to get support tackling LCRR, contact:

Connie Stevens

Alliance of Indiana Rural Water
 cstevens@inh2o.org
 317-789-4200

Lowell Huffman

120Water
 lowell@120water.com
 317-750-2096



120Water™



2022 OPERATOR EXPOS RECAP

Southern – Huntingburg, IN
Northern – Akron, IN

Our Southern and Northern expos were both held in May. Each was a big success, and though the weather didn't cooperate for us each afternoon, we got in full mornings of demonstrations, contests, a great lunch, and of course, seeing old friends and making new ones!

More than 250 people were in attendance at each expo! Both events featured our "famous" hog roast, graciously donated and cooked by Water Solutions Unlimited.

The Meter Toss, Backhoe Rodeos, and the Expoo Royal Flush contests provided chances to win cash and prizes, and didn't disappoint on the fun! 1st Place for each contest won \$50 cash, and 2nd Place won an Alliance camping chair. The winner of the 2nd Regional Water Taste Test was Garrett Water Works!

Huntingburg Meter Toss Winners

- Powder Puffs: 1st – Sarah Hartman of Alcoa, 2nd – Kristen Guggenheim of Alcoa
- Young Bucks: 1st – David Rakes of Edinburgh, 2nd – David Cissell of Henryville Membership Sanitation Corporation
- Grizzly Ol' Veterans:
1st – Mike Compton of Paoli,
2nd – Jeff Dunaway of Edwardsville Water

Huntingburg Backhoe Rodeo Winners

- 1st – Daniel Houchin of Orleans
- 2nd – Mike Compton of Paoli

Huntingburg Expoo Royal Flush Winners

- 1st – Nathan Bourland of Washington Township
- 2nd – Brad Hutchins of Henryville Membership Sanitation Corporation

Akron Meter Toss Winners

- Powder Puffs:
1st – Marcy Coe of Garrett Water Works
2nd – Sara Benkert of IDEM
- Young Bucks:
1st – Tony Fey of Bluffton
2nd – Chase Thompson of Frankfort
- Grizzly Ol' Veterans:
1st – Rick Freiberger of Albany
2nd – Kenneth Depew of Auburn

Akron Equipment Rodeo Winner

- 1st – Alex Mikel of Breman
- 2nd – Dustin Stewart of Columbia City

Akron Expoo Royal Flush Winner

- 1st – Austin Roberson of Huntertown
- 2nd – Chase Perry of Montpelier

Thanks to all of our attendees, demonstrators, and especially, our sponsors. We couldn't do it without you! ★

SAVE THE DATE FOR NEXT YEAR'S EXPOS:

- Southern Operator Expo – May 18, 2023
- Northern Operator Expo – May 25, 2023





Serving Indiana communities for over 30 years.
 INDIANAPOLIS | FORT WAYNE | EVANSVILLE

Tina Wolff, PE, CEM
 tgw@kokosing.biz | 260.444.8363
 www.kokosingindustrial.com

**GSC
 Provider**

**Intake/Outfall
 Facilities**

**Underground
 Utilities**

**Water/Wastewater
 Treatment**

Repair, Rehabilitate & Restore

- Manhole Coatings
- Wet Wells & Tank Linings
- Potable Water Storage Basins
- Culvert Lining Installations
- Landfill Leachate Tank Coatings
- Secondary Containment
- Clean Room Applications

**Advanced
 Rehabilitation
 Technology**



When it
 absolutely, positively
MUST LAST

525 Winzeler Drive, Unit 1
 Bryan, OH 43506
 www.artcoatingtech.com

419-636-2684

To learn more about **LOBIC** certified installers visit www.obicproducts.com

2021 Best-Tasting Water in Indiana Named!

Auburn Water Department's Water Named Best Tasting Water in Indiana during State Finals Competition!



Officials at the Alliance of Indiana Rural Water

have found the best-tasting water in Indiana. On October 20, 2021, Auburn Water Department was announced as the winner of a state-wide competition to identify the tastiest rural water in the state.

The competition was conducted during lunch on the first day of the Alliance of Indiana Rural Water Annual Fall Conference at the Grand Wayne Convention Center in Fort Wayne, Indiana. Throughout the year, the Alliance held four different regional competitions around the state. The regional winners were Town of Osgood, Town of Akron, Auburn Water Department, and Town of Madison.

Participating water samples were judged on three categories – clarity, odor, and taste. The competition is part of the Quality on Tap! campaign to emphasize the high quality, standards, and consequently, taste of rural water.

As the winner of the Best-Tasting Water in Indiana, Auburn Water Department will advance to compete in The Great American Water Taste Test, a national contest at Capitol Hill in Washington, D.C., in early February 2022.

This event is part of the Rural Water Rally, an annual legislative event for the 49 state affiliates of National Rural Water Association. ★



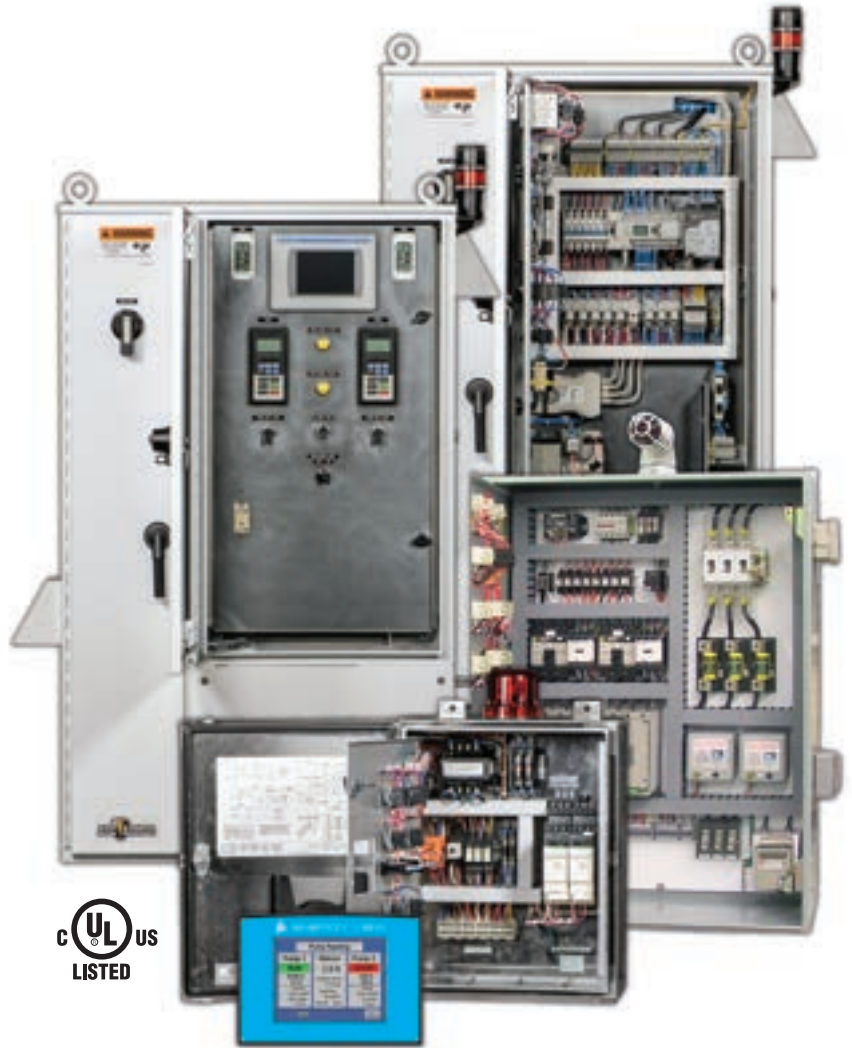
EVERYTHING UNDER CONTROL

PRIMEX® has everything under control by offering multiple production, engineering and sales facilities to ensure exceptional customer service through quick responsive quotes, submittals and delivery.

Our commitment to high standards in quality and new product development results in the broadest, most robust product line and services in the industry.

We design and build innovative solutions to meet your specific needs, no matter how unique:

- Arc Armor® control systems
- iconrol® SCADA solutions
- Pump Watch™ Express remote monitoring systems
- Complex system integration projects
- Premier and Express control panels
- 'View' and 'VPAC' family of pump controllers
- KwikSwitch™ float connection system



WWW.PRIMEXCONTROLS.COM

PRIMEX® Represented by:



GASVODA & ASSOCIATES, INC.

1530 Huntington Drive

Calumet City, IL 60409

Ph: 708-891-4400 Fax: 708-891-5786

Leadership...

Key Traits to Make the Path a Smoother One



BY REX BLANTON
WASTEWATER
TRAINING DIRECTOR

Here at the Alliance of Indiana Rural Water, we have been discussing the upcoming loss of many of our water and wastewater operations specialists over the next few years. I'm sure you've heard many of us and others discuss this situation, as well as the outcome of losing these highly experienced individuals. We are not only losing their knowledge of the processes and procedures of their everyday jobs, but maybe even more importantly, we are losing their leadership. When you think about leadership in a municipality, some of the first people that come to mind are mayors, clerks, and board members. However, these elected officials need employees in the water and wastewater fields of expertise to lead and guide existing and new employees to achieve goals set forth by EPA and IDEM for drinking water quality and environmental protection.

What exactly is leadership, anyway? It is the ability to inspire employees, team members, and anyone you encounter, to achieve goals and build their skills to become the best they can be. You don't have to be a mayor, clerk, board member, teacher, CEO, supervisor, or team leader to be a great leader. In other words, you don't need a title to become a great leader. Leadership skills are not something you are born with, so anyone can become a great leader with the daily commitment to achieve personal and team goals.

One of the most important traits as a leader is trust. One way to build trust is to share your individual struggles, experiences, and concerns with others. Being honest and clear with them can lead to you gaining their trust. But perhaps, one of the most important factors with gaining trust is to always have the same demeanor when it comes to them opening up to you with their concerns and struggles or ideas. A loss of trust can be very difficult to regain, but it can be done if you are totally honest with them. The first thing is to give a heartfelt apology, but don't expect the trust to come back immediately after the loss. You must give it time and reprove yourself with your actions moving forward.

Great leaders also need to be great listeners and convey a positive attitude. Be empathetic toward your team members' situations, put yourself in their shoes, and learn why they feel the way they do.

Negativity can kill a leader's credibility, along with any trust previously gained. Being a great listener doesn't mean you have to agree with everything everyone else says, especially

if you are the decision maker. However, allowing your team members to try their ideas can be very successful at times. As long as the ideas do not conflict with current procedures, violate primacy agency rules, or put folks in unsafe conditions, give them a try. If you do not use an idea, give the person a legitimate reason, and let them know why it may not work. Don't tell them no, just because you've never done it that way.

Being able to delegate is a must. It's important not to delegate just for the sake of it, but to know when and how to delegate appropriately. A leader has a lot to do and must be committed to goal achievement and the work and integrity it takes to achieve these goals. Delegation can help achieve team goals and relieve some of the stress on the leader. But that's just one side of it. Delegation also shows that you have confidence in the group's abilities, and it develops morale and loyalty. People in the workplace and team environment want to be trusted and appreciated, and delegation can help achieve these feelings.

Being able to accept failure and the responsibility of those failures in a calm manner and logically think through the situation without having a breakdown, is essential. Not being able to work through failures in a positive manner can lead to negative morale and fear of losing everything. Great leaders take the blame for the failure and work out how to fix the problem quickly, which will lead to great trust and building integrity.

Another key to being a leader is to never stop learning. Most water and wastewater professionals have lots of learning opportunities available to them, whether online or in person. Leaders should also allow subordinates to attend these meetings. Though important and necessary, we don't just learn just from organized training sessions. Our everyday life experiences are also vital to help guide our way.

There are several other traits great leaders possess, but I don't want to hold a leadership-know-how session in this format. It would take up way too much space, and besides, there are many more qualified leadership experts out there.

Get online and search for more details, buy a leadership guide, and always come to our Leadership Summit in Bloomington each year. Don't ever think you are not a leader; eyes and ears are always on us, so become the leader they want you to be. And never forget that the leaders of tomorrow are getting their foundation from you today. ★



PEERLESS WATER UTILITY PUMPING SOLUTIONS



**2005 DR. M.L.K JR. ST
INDIANAPOLIS, IN 46202**





The importance of clean water and the proper disposal of wastewater demands the utmost in pumping reliability and performance. That's why Peerless Pumps are an integral part of municipal pumping stations and treatment plants throughout the country and around the world.



VISIT US!
WWW.PEERLESSPUMP.COM





BY LOREAN JOHNSTON
WASTEWATER CIRCUIT RIDER



Engineering Our Communications

Knowing your plant can be one of the largest ways to create savings when it comes to rehabilitation or planning for your community. The data we collect every day is the map to constructing an efficient, well-sized plant for getting the job done. Many times, we see a disconnect from operator to engineer, and as operators, it's vitally important that we try to make the communication of data to the developing engineer as plentiful as possible. For many communities, large construction projects at the wastewater facility do not come around often. Having your "ducks in a row" when the time comes can not only be a financial savings, but a preventative measure against operational nightmares.

Too many times, I have come across issues with plants that get passed off as engineering flaws. Good engineers look to the operator for input of the specific needs of their plants. Engineers come from a background of theory and design. Not all engineers we see onsite have the full knowledge of wastewater treatment and biology, and that is where the operator comes into play. Building a good relationship with the engineer of a project has many benefits, not only for the town's budget, but for the day-to-day work operators will be performing. Like many things, you get what you put in, especially when it comes to wastewater construction.

Engineers are not onsite every day, and don't know the ins and outs of your plant. It is the operator's job to evaluate and share information on specific issues at the plant with as much detail as possible to the designing engineer. It's also important to select an engineer that will work with the operator. Not every plant works the same as the next, even though they may be managing the same treatment style. Knowing your wastewater and your plant's issues is key in the construction process.

One of the largest issues I have come across in my travels is over-designed or oversized treatment facilities. Planning for future changes while providing an efficient treatment area or

size can be troublesome. As I mentioned before, projects don't come around often, and we want to make sure we are considering growth in the development of a new plant. We also want to keep in mind that oversizing a plant can cause issues.

Many times, we find plants that are sized incorrectly for the influent flow and loading they are receiving. This can lead to treatment issues and operational headaches. Knowing your lab data and being able to work with the engineer to design a plant that considers both current and future treatment is huge. The last thing you want to do is spend millions of dollars on a construction upgrade only to find out that you are oversized and now must pay for the addition of carbon or other nutrients to keep up good treatment.

When undergoing a capacity increase, working with the engineer to have operational control over the capacity can be crucial. Having the extra volume for storm surges and possible growth is great, but not when it isn't raining, or the development falls through. Having operational control to be able to take tanks or processes offline when not needed can be a life saver for the operator or the town's pocket.

There are many things for the operator to keep in mind when going through the construction process. Rules and regulations, emerging contaminants, industrial growth, and operation process are important issues that the engineer will look to the operator on. Sharing ideas that will make your job easier is important, so you don't get stuck with a poor design for your process. Using your resources and making connections with other facilities is also important, and ultimately, it can lead to a better finished product. You get what you put in; the engineer can only design with the data that they have been given. Next time you point out that engineering flaw, keep in mind that an operator should have been involved as well. ★



YOUR CLEAN WATER ALLY

Empowering stewards of clean water in Indiana and beyond for over 50 years.



SALES + INSTALLATION + SERVICE

GrippInc.com | 317.896.3700

your partners at Peerless



In all that we do, our commitment to quality is clear. From the experience of our skilled craftsmen to our command of the latest technologies, we stand apart from the competition. We take customer service very seriously, and work hard to prove it everyday.

water well services

- well cleaning and rehabilitation
- well drilling
- water treatment
- electrical and controls
- pump repair
- hydrogeological services

Contact Us:

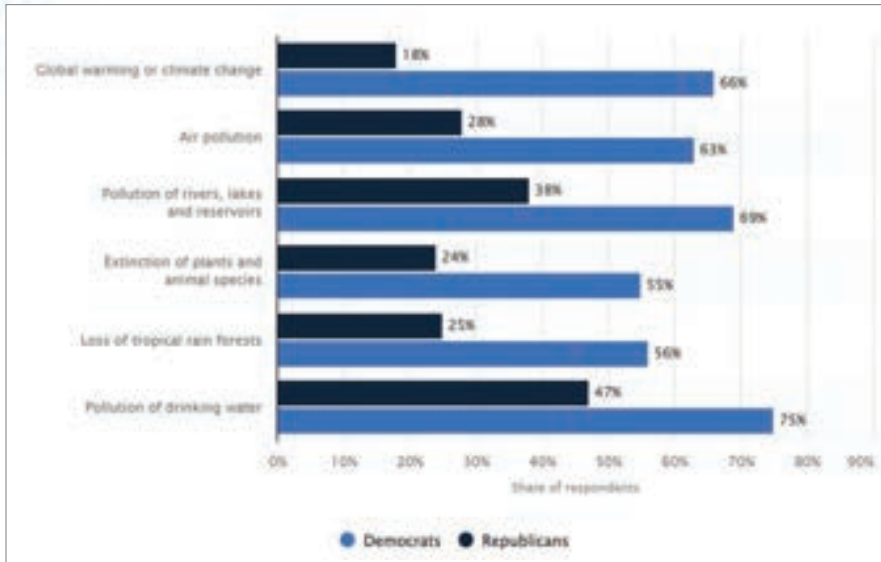
Mishawaka, IN • 574-254-9050 | Tipton, IN • 317-896-2987 | Ionia, MI • 616-527-0050 | Eastern, MI • 810-215-1295 www.peerlessmidwest.com



WORDS THAT WORK



BY TOBY DAYS
SOURCE WATER SPECIALIST



Share of adults who worry about environmental issues in the US as of March 2017, by political party.

In March 2011, the Gallup Environmental Poll surveyed American citizens to determine which environmental issues most concerned them. The poll found that 77% of Americans worry a great deal about the pollution of their drinking water. Drinking water concerns topped the list compared to other environmental issues, such as loss of open space (57%) and global warming (51%).

Pollution of drinking water continues to be a concern for Americans. As of 2017, 75% of Democrats and 47% of Republicans worry about the quality of their drinking water.

Are the citizens in your community worried about the quality of water you supply to them? Reassuring your citizens that you are working hard to protect their source of drinking water and supply a safe and healthy product to their home can encourage citizens to get involved in the protection efforts. You may be wondering how to properly communicate this to your citizens.

Encouragement and leadership produce conservation action from citizens – not information. Often, we overwhelm our citizens with numbers, terms, and acronyms that we in the utility industry understand, but which are foreign to most people. People are more likely to understand what you want them to perceive if they can see the outcome of a given action. It is advisable to regularly promote deeds you do to ensure your system is running efficiently and effectively. Post pictures along with a short description of leak repairs, line extensions, plant upgrades and regular maintenance activities which are done to your system. This will show citizens that you are working hard to ensure their water is safe and healthy to consume. It's important that residents think what you do is important, and want you to succeed. In turn, they will be more accepting of their role in the overall process.



1-800-EJP-24HR

WWW.EJPPRESCOTT.COM

Team EJP is proud to offer quality products and service for water, wastewater, stormwater, and erosion control solutions.

The Service Department has expanded EZ Valve installation capabilities to include large diameters. Now, in addition to many quality services, Team EJP OSHA-certified service technicians can perform 4 - 24" diameter EZ Valve installations.



Indianapolis
317-247-0005

Fort Wayne
260-482-2100

Jeffersonville
812-218-9405

Lafayette
765-449-2723

Poor, minimal, or inconsistent communication saps citizens' confidence in their utilities. The first step towards communicating more effectively is to clearly visualize who you are trying to reach and how they typically receive communication. How well do you know the citizens you serve? Out of 10 people, your everyday citizens are comprised of these demographics and attributes:

- 7 Caucasians, 3 minorities
- 6 voters
- 5 men, 5 women
- 4 follow news
- 3 college grads
- 2 speak English as a second language
- Have a vocabulary of 400 words

To improve your communication, you must reconnect with your fellow

Figure A



citizens. Understand that most citizens don't understand where their water comes from or how it gets to their homes, businesses, and schools. Keep your message(s) short, simple and to the point. Showing them instead of telling them is important. Pictures, demonstrations, and tours are great

ways to hold peoples' attention and to get a point across in a short amount of time. Understand who you serve and how to connect with them. They are a crucial element to the success and longevity of your utility.

Which figure would you take the time to look at and associate with the statement, "My water is safe to drink!" – Figure A or Figure B? ★

Reference material for this article:
Water Issues Worry Americans Most, Global Warming Least (gallup.com)
 Eckl, Eric. (2011, March 24). "Water Words that Work, Making a splash with your Communications". Zionsville, Indiana. waterwordsthatwork.com
 Share of adults who worry about environmental issues in the U.S. as of March 2017, by political party* Concerns about environmental issues United States by ideology 2017 | Statista <https://www.statista.com/statistics/691912/us-citizens-who-worry-about-environmental-issues-by-political-party/>

Figure B

Consumer Confidence Report								
CONSTITUENTS	Date Tested	Unit	MCL	MCLG	MRAA	Range	Violation	Major Sources
DISINFECTION PROCESS BYPRODUCTS								
Total Haloacetic Acids (4)	2010	Ppb	60	NA	28.0	17.7 TO 36.0	No	Disinfection process byproduct
TTHM'S (Total Trihalomethanes)	2010	Ppb	80.00	NA	32.8	16.6 TO 51.7	No	Disinfection process byproduct
Vinyle Chloride	2010	Ppb	2	NA	BDL		No	Leaching from PVC piping; Discharge from plastics factories
INORGANIC CONSTITUENTS								
Fluoride	2010	Ppm	2.0	1.0	1.0	.44 to 1.4	No	Water Additive to promote strong teeth & Erosion of natural deposits
Copper	2008	Ug/L	1300 AL	1300	400	90th percentile value	No	Corrosion of household plumbing
Lead	2008	Ug/L	15 AL	0	8.2	90th percentile value	No	Corrosion of household plumbing
(For Lead & Copper the number of samples above AL is 0.)								
Sodium	2010	Ppm	None	None	3.3	NA	No	Erosion of natural deposits
Sulfate	2008	Ppm	None	None	24	NA	No	
Barium	2010	Ppm	2	2	0.31	NA	No	Erosion of natural deposits
Atrazine	2010	Ppb	3	3	.2	NA	No	Runoff from herbicide used on row crops
Radium 228	5/13/08	pCi/L	5	0	0.7	NA	No	Erosion of natural deposits
Uranium	5/13/08	Mg/L	.03	0	.0005	NA	No	Erosion of natural deposits
Gross Beta	5/13/08	pCi/L	40	0	2.4	NA	No	Erosion of natural deposits
Turbidity Daily NTU TT=0.3 NA .37 Highest reading Was over 5 times NTU limits. Turbidity does not present any risk to your health. Turbidity is a measure of suspended matter in water, and is a good indicator that the filtration system is functioning.								
TOTAL ORGANIC CARBON								
Average percent of removal	%	25%	100%	24.8	10.6 to 34%	Yes	Erosion of natural deposits	
UNREGULATED CONTAMINANTS								
EPA is preparing a regulation, which will specify a Maximum Contaminant level for radon. Radon is a radioactive gas that occurs naturally in ground water and is released from water into the air during household use. At high exposure levels it can cause lung cancer. Radon was not detected in the treated finished water distributed by Patoka Lake Regional Water & Sewer District.								
CONSTITUENTS	Date Tested	Unit	MRDL	MRDLG	MRAA	Range	Violation	Major Sources
Chloramine	Daily	Ppm	4.0	4.0	3.7	NA	No	Added for disinfectant

Quality: Free with every order



The preeminent supplier of process instrumentation, controls, and related services, **George E. Booth Co., Inc.** offers a variety of services that span your process and control needs. Our team of professional SCADA engineers, our calibration team, and our two UL-listed panel shops are ready to assist.

A partner of



Endress+Hauser

SERVICE TRAINING INSTRUMENTATION

sales@gebooth.com • 1-800-44-BOOTH • www.gebooth.com



*Global expertise
delivered locally*

Asset management steel & concrete tanks | treatment plants | pipes | meters

Water quality in distribution systems in-tank water mixers | trihalomethane removal systems
disinfectant residual control systems

Smart metering services Advanced Metering Infrastructure (AMI)
smart meters | managed services | performance guarantees

Contact your local water system consultant
Marc Hansen | 855-526-4413 | www.veolianothamerica.com

Resourcing the world





CHAD REYNOLDS
WATER CIRCUIT RIDER

KNOWLEDGE VERSUS TOOLS OF THE TRADE... SOMETIMES IT JUST TAKES A LITTLE TRUST AND COMMON SENSE

How many tools do you have in your toolbox? Most people will have the necessities to do the job, whether it's a socket set, a whole shot wrench, a hammer, or a few wrenches and screwdrivers. How about high-tech equipment, such as line-locating devices or leak-detection analyzers? Many times, all the tools in the world are not as good as the ones that come naturally to us.

Natural – “What is natural and what do you mean?”, you may ask. Many of us have the power within our own means. Knowledge is power and strength in numbers, or the older gentleman who grew up in town and never moved away. So many times, the answer to finding a utility line or locating a leak can be done simply by using one of the tools mentioned. Most of us do not realize the ability we carry within ourselves. The longer you're an operator or a utility employee, the more knowledge you gain. All the tools in the world don't hold up compared to what you carry in common sense.

We've all been there. At our fingertips, we have the best technology to find a buried utility. However, it is leading us in directions we know aren't right. What do we do next? We revert to the wire clothes hanger, or the old goat from the café drinking his coffee. “BINGO! There it is!” The interruption was worth it, as the old man pointed us to where it was, and he was right. Recently, I was called to do a leak detection in a town that produces over 100,000 gallons of water per day, and they were well above that, at nearly 250,000 gallons. No, the water was not coming to the surface. No, the

wastewater plant wasn't seeing the same spike. Yes, the catch basins had been checked for chlorine. Any homes that were unoccupied from snowbirds having already headed south were checked. No one experienced a loss of pressure. This town has three water towers, and they all push the same pressure. Nothing was found. My next suggestion was to stop flow to all water towers so we could analyze them and see which dropped the fastest. Our advantage: there were only five valves to shut to isolate the towers. However, I failed to mention that there were 18 inches of snow on the ground, so if water were to surface, it would be obvious. Shutting down the towers allowed us to be pointed in the right direction. One tower over the next 45 minutes dropped 11 inches, while

the other two only lowered around an inch or two. Now, we needed to further narrow down the area, and we did so by shutting down more valves. Eventually, we were able to narrow it down from 53 miles of pipe to 2 miles, and then to two blocks of the town. Thanks to my 20 years of experience within the industry and a little common sense, the leak was found! The high fives and smiles were shared by all.

The point I'm trying to get across here, or the moral of the story is this: It doesn't matter how many tools one may have access to or the technology; sometimes the tool you need you carry each day is within yourself. Do the other tools help at different times? Absolutely! They can, and they do. Trust in yourself and in others because many times, the strength and the answers are carried within. ★

SIMPLY SEALS!

FORD

Rated to 305 psi

MJTS

MJSC

MJBE

No field trimming required!

260-563-3171
fordmeterbox.com

Fully encapsulated for the most challenging applications.

- Tapping Sleeves
- Couplings
- Bell Joint Encapsulators

STRUCTURE. & INTEGRITY.

PITTSBURGH TANK & TOWER GROUP

An ESOP Company Since 1919

"100 years and still climbing"

**CREWS
AVAILABLE
GLOBALLY**



WWW.PTTG.COM



INSPECTIONS REPAIR TANKS



Wet	Code	Elevated
Dry	Updates	Ground
ROV	Paint	Relocation
In-Service Cleaning	Insulation	Erection Dismantles

NEW TANKS – Rick DiZinno
(270) 826-9000 ext. 2601

EXISTING TANKS – Jordan Pyles
(270) 826-9000 ext. 4601

ORTMAN

Since 1922
DRILLING & WATER SERVICES

THE CLEAR CHOICE

Water Well Design & Installation
Well & Pump Testing/Maintenance
Well Cleaning & Rehabilitation
Well Field Testing & Exploration
Water Filter Plant Services
Hydrogeological Services
Fire Wells



**CONSTRUCTION • DESIGN
RESEARCH • MAINTENANCE**

ORTMANDRILLING.COM • (765) 459-4125
KOKOMO, INDIANA

24 Hour Emergency Service



Water Well Drilling
Pump Sales & Service
Well Rehabilitation/ Cleaning
Hydrogeological Services

Filter/ Media Replacement
Valve Repair & Maintenance
Water & Wastewater
Treatment Plant Maintenance

1 (812) 723-2108
www.national-water.com



PETE CROWL
WATER CIRCUIT RIDER

Food to **Microorganisms** Ratio (**F/M Ratio**)...Finding the Right **Balance** for **Your Plant**

As a new wastewater circuit rider, I have had the opportunity to meet many operators over the past few months who are making do with what they have at their disposal. I've been quite impressed on several occasions by operator ingenuity. Even though so many operators seem to have a firm grasp on the operation of their plants, sometimes unexpected treatment issues arise. When a plant "acts up" and treatment starts to suffer, there could be several reasons why. Keeping track of additional operational information is crucial in making the decisions necessary to adjust treatment and correct plant upsets. A little more time in the lab and a little extra math may help catch potential issues before they become problems.

There are many equations used by wastewater treatment plant operators that help them operate their plants

effectively. Some of these equations are used with others to allow for a bigger picture of plant performance. One equation that I feel is important for operators to know and understand is how to calculate is the Food to Microorganism Ratio (F to M).

F to M has been used to operate activated sludge treatment plants for a very long time. It is the measurement of how much food (F) in the plant influent, usually measured in pounds of five-day carbonaceous biochemical oxygen demand (CBOD5), is available to the microorganisms (M) to consume, which is usually measured in mix liquor volatile suspended solids (MLVSS). Most of the data needed to calculate F to M, plants already monitor. Collecting MLVSS numbers could add a muffle furnace and a few extra steps to accomplish the testing.

There are many places online to find what F to M Ratio range your type of

plant should use as a guideline. This ratio represents a balance between the F to M needed for the wastewater plant to effectively operate. Each type of treatment plant may have a slightly different ratio range. It's up to the operator to find the optimum range for their plant, depending on the season.

Continually tracking the F to M can help the operator make adjustments in order to keep the treatment optimized. For example, if the operator sees the amount of Food has started to trend downward, wasting could be increased gradually to reduce the Microorganisms to maintain optimal operation. If the incoming Food continues to decrease, taking an aeration basin offline (if possible) could help increase F to M. If operational adjustments aren't working, the temporary addition of another source of BOD could help maintain treatment. Conversely, if the amount of Food has trended upward, increasing (if possible) the dissolved oxygen (DO) in the aeration basins may help the Microorganisms breakdown the Food faster. Wasting could be decreased gradually to increase the number of Microorganisms used to maintain optimal treatment. Occasionally, the fluctuations in the amount of Food vary widely. It may be worth waiting a bit before any adjustments are made just to see if the Food supply evens out.

As with any type of operational adjustments to wastewater treatment, changes should be made gradually and given time to see their effect. ★

$$F \text{ to } M = \frac{\text{Influent CBOD5} \times \text{Influent flow} \times 8.34 \text{ lbs/gallon}}{\text{MLVSS} \times \text{Aeration Volume MG} \times 8.34 \text{ lbs/gallon}}$$



Providing sustainable solutions to local communities since 1989

HWC ENGINEERING

For your next project, choose **HWC ENGINEERING!**
hwcengineering.com  

Hydrant Flushing

Not A One-Size Fits All Program



BY DAVE ADKINS
WATER CIRCUIT RIDER

Recently, I've been getting a lot of questions about how to start a hydrant flushing program. I don't think there is a one-size-fits-all program for everybody. So, I thought I would share my own experience setting up a flushing program for the utility I took care of recently.

When I first started at the utility, we had several calls about dirty water. If you opened a hydrant, the water that would flow from it was so dark that I was ashamed for anyone to see it.

I didn't know anything about how to flush hydrants, so I sought advice from people that I thought would know. I was told to just "open your dead-end mains and let them flow", but I found out quickly that this didn't work. Then I was told to just "open random hydrants throughout the system", but that didn't work either. Then I saw that the Alliance would be having a training class on hydrant flushing, so I showed up, hoping they could steer me in the right direction.

The speaker talked about starting close to the water plant and working your way out, as well as shutting off valves to do directional flushing. I knew some of what he talked about would work for me, but I still didn't have a clear picture as to what I needed to do. Once again, the Alliance had another class on hydrant flushing, so I attended that class as well and took away some tips that I felt I could apply to my system.

I began by breaking my system up into three sections. On day one, we would start at the closest point to the water plant and work our way out to the end. Days two and three were the same; we started at the end of the system and worked our way out. I made sure to shorten up the start/stop cycle at my water plant to ensure that I would have plenty of water to flush the system each day. I also didn't open up the hydrants and flow at full velocity. I don't think that this is necessary. Some may disagree, and that's fine because like I said earlier, there isn't a one-size-fits-all way to do it.

We flushed in the spring and fall. It took about a year and a half before I started seeing the results of the flushing program. I knew that this process was working when a Council member commented on the fact that dirty water complaints had all but disappeared, and I was no longer ashamed for someone to see the water flowing from these hydrants.

I hope that this article has provided you with something you can incorporate into your own program. Like I said, I'm not saying this is right for everyone, but it worked for me. I believe the key is to start and make adjustments until you find what works for you. As always, thank you for all you do and stay safe. ★

CHLORINE SAFETY!

Chlorine & Chemical Tank Scales

◆ Know exactly how much you fed & how much remains



FORCE FLOW

CHECK. CONTROL. COMPLY.
www.forceflowscales.com

Chlorine Emergency Shutoff Systems

◆ Instantly STOP a dangerous chlorine leak!



HALOGEN VALVE SYSTEMS, INC.

Your Partner in Safety
www.halogenvalve.com



BY DEE DEIG
ENERGY EFFICIENCY
CIRCUIT RIDER

SHOULD I CONSIDER SOLAR ENERGY FOR MY WATER AND WASTEWATER TREATMENT FACILITIES?

We all know that water and wastewater facilities are key to the success and growth of surrounding communities. However, powering these facilities requires a large amount of energy, consuming 4% of all energy used in the US. To free up budgets and make use of excess land, water and wastewater facilities are in a good position to utilize solar energy to power their plants with low-cost, clean energy.

Why Solar for Water and Wastewater? High Electricity Usage? No Problem.

One of water and wastewater treatment facilities' biggest expenses is energy. Onsite solar systems can be considered to help reduce the energy expense by generating power at a lower cost than most other available utilities. Not only does solar provide low-cost energy, but it also provides long-term cost certainty through power purchase agreements (PPA). Here are how most agreements work: a provider will build, own, and operate a solar energy plant at the water or wastewater treatment facility. This allows your facility to simply buy all electricity generated by the solar system at a fixed rate lower than the current cost of electricity. Through this, the

facility benefits from savings on its electricity bills from day one of system operation with no upfront costs.

Generate Clean, Onsite Energy

Beyond high-energy usage, solar, water and wastewater treatment plants go well together because these facilities often have the land requirements necessary to build a solar project of needed size. Traditionally, many water and wastewater facilities purchased additional land beyond their required footprint to serve as a buffer between the plant and any neighbors, making the land a perfect site for a solar energy system.

Many electric utilities have programs that help their customers achieve their solar and energy goals. These programs include everything from simple rebates to working with contractors and solar providers to help you install, reap benefits, and provide long-term, affordable energy costs for you and your customers.

Check with your electric utility today to see if the payback is there for your facility, and if your long-range goals fit into this resource.

For more information, contact Dee Deig at 317-508-1505, or visit www.inh2o.org. ★

40 YEARS

as a full-line distributor of water and sewer supplies

Stocking distributor for:




Badger Meter
...and many more.

Download our line card at wallersmeterinc.com
888-485-7018




Madison Indiana



Triad Associates, Inc.
ENGINEERING • ARCHITECTURE

Proudly Serving Indiana Municipalities Since 1975

Water Supply & Treatment Wastewater Stormwater
Public Facilities Parks Transportation



Central Location:
5835 Lawton Loop East Drive
Indianapolis, IN 46216
Ph: (317) 377-5230

Northern Location:
805 Lincoln Way South
Ligonier, IN 46767
Ph: (260) 894-3392

www.triadassoc.net

Our focus is simple.
Move water to where it should be, and make sure it's clean when it gets there.

Our team provides a diverse range of experience, from traditional to innovative solutions to your utility problems.



A TRADITION OF
EXCELLENCE
SINCE 1945

BLN
BEAM · LONGEST · NEFF

8320 CRAIG STREET | INDIANAPOLIS, IN 46250 800.382.5206 | B-L-N.COM



GRW | engineering | architecture | geospatial
9001 N. Wesleyan Road, Suite 200, IN 46268
(317) 347-3650 | www.grwinc.com

Water & Wastewater Systems Specialists

Asset Management



Water Loss Control

Wastewater Services

Over 40 Years of Experience
& Custom Solutions

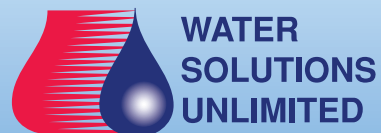
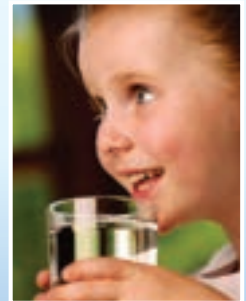
Call us today at 800-255-1521 or visit mesimpson.com to get started

Water Source to Water Tap Solutions



- Improving Chlorine Residuals
- Lowering high Lead and Copper #'s
- Sequestering Iron & Manganese
- Driving down TTHMs & HAAs
- Dealing with High Natural Ammonia
- Solving Waste Water issues

Now working in Waste Water and handling Gas Chlorine, Fluoride, Bleach and other chemicals.



WATER SOLUTIONS UNLIMITED

P.O. Box 347, 295 Industrial Drive, Franklin, IN 46131
www.getwsu.com

ALLIANCE OF INDIANA RURAL WATER PRESENTS WATER & WASTEWATER MANAGEMENT TO PURDUE



KELLY GARDNER
APPRENTICESHIP
PROGRAM COORDINATOR

On April 14, the Alliance was invited by Dr. Iseley to speak to his Construction Business Management class. We were invited to share with the class our roles and functions within the water and wastewater industries, and to share experiences of how AIRW assists communities throughout Indiana.

We started off the presentation with the video, *The History of the National Rural Water Association*. This provided the students the knowledge that we are part of a nationwide effort in our industry to assist communities with technical, operational, and financial issues in all 50 states.

Mr. Johnston and Mr. Reynolds shared with the class their daily roles as circuit riders in Indiana, and both shared examples of how they have assisted communities.

Mr. Reynolds shared how he was called upon at 11:30 p.m. one night by a town experiencing low water pressure. He was able to assist the staff to get the water pressure back up, arriving home at 4 a.m. the next morning. His assistance prevented the town from losing all the water in the tower for their community.

Mr. Johnston told the class about his call for assistance to a wastewater facility, and how they needed help with a snail problem in the wastewater plant. He shared that the issue wasn't one that could be resolved in one visit, but over a few months and many trips. The issues are now under control. Mr. Johnston continues to assist the utility on this to work on prevention.

Mrs. Gardner shared how she travels all of Indiana helping utilities of all sizes and types with training new or existing employees to become our next generation of water and wastewater operators and managers of the systems they serve. Mrs. Gardner also shared how the AIRW Apprenticeship Program assists communities with the training of staff and that the AIRWA has impacted approximately 20 communities by training operators.

The class was 75 minutes long and participation was great among the many students. This is a continual effort of the Alliance's partnership with Dr. Iseley at Purdue University in sharing important knowledge with those interested in entering the industry. ★



Pictured (left to right): Purdue University Assistant – Saleh Behbahani, AIRW Wastewater Circuit Rider – Lorean Johnston, Purdue University Professor of Engineering – Dr. Tom Iseley, AIRW Apprenticeship Program Coordinator – Kelly Gardner, AIRW Water Circuit Rider – Chad Reynolds



PETER KING LAW, PSC

PETER CAMPBELL KING
Attorney at Law
812-376-0014
www.peterkinglaw.com

FRANKLIN **522** STREET



Hartford City Water

4th Grade Fieldtrip

In early May, Team Alliance partnered with Hartford City Water and Purdue University - Extension of Community Development to put together a fun-filled day for the 4th graders at Blackford Intermediate School! What a great day had by all!

Hartford City closed down their Town Hall, and the Mayor, as well as all office staff attended. All of the Hartford City Water staff attended and ran a 5-demo station for the kids.



Pictured in top photo: (Back row) Tyler Lucas with American Flow Controls, Dave Emerick with EJP, Hartford City Water Superintendent Bill Bacon, AIRW Water Circuit Rider Chad Reynolds, AIRW Wastewater Circuit Rider Lorean Johnston, (Front row) Hartford City's Ethan Speidel, Eli Coulter, Travis Storer, & Jordan McCamman, AIRW Apprenticeship Program Coordinator Kelly Gardner, Purdue Extension Community Development Educator Cheri Brown

Hartford City Water is a part of our nationally recognized Apprenticeship Program. This program was developed in response to the industry's need to train the next generation of skilled workers and standardize training across the state of Indiana. If you're interested in learning more about our Apprenticeship Program, please contact Apprenticeship Coordinator, Kelly Gardner, at kgardner@inh2o.org.



1: Hartford City Water's Superintendent Bill Bacon explains the importance of testing the water daily for the health and safety for all who live and work in the community.

2: Alliance of Indiana Rural Water's Circuit Rider Chad Reynolds mocks an underground leak for the students to get hands on experience and use the leak detection equipment.

3: Hartford City's Eli Coulter explains the heavy equipment used to fix leaks and repairs in the field.



4: Fixing a leak with a clamp became a race and challenge with all the students. This was exciting to watch. Students also learned what tools are necessary for fixing leaks in the community and what they look like.



5: Tyler Lucas with American Flow Controls and Dave Emerick with EJP provide information about fire hydrants to the students.

6: Jordan McCommon with Hartford City explains to the students how water gets to their homes.

Special Thanks to:

- Jones and Henry for providing all the students backpacks
- Servline for the water droplets
- Purdue Engineering Department for the yellow hats
- Hartford City for their participation, as well as providing water bottles and pencils
- Tyler Lucas with American Flow Controls who ran the Hydrant Station
- Dave Emerick with EJP who assisted with the leak station
- AIRW for providing activity books, colored pencils, and hats

We also want to thank the Hartford Intermediate School's Principal, Jim Fox, the Mayor at Hartford City, the entire Hartford City office staff, and the board members in attendance for their support in making this event a success.



Alliance Secures 4.1 Million Dollars for Communities to Train the Next Generation

Friday, June 3, 2022

(Franklin, IN) The Alliance of Indiana Rural Water, a local non-profit organization supporting Indiana's rural water industry, has secured a total of 4.1 million dollars in reimbursement grants from the Indiana Finance Authority (IFA) for rural communities across the state to utilize in order to gain more licensed water and wastewater operators. Access to this grant funding began in 2018 and will continue through December 2023. With over 50% of the water industry workforce retiring in the next five years, communities will fail to prosper or eventually even exist if replacements aren't put in place and properly trained. Water and Wastewater Operations Specialists are imperative to our communities for access to clean drinking water and to ensure wastewater effluent is returned to the environment properly. The IFA, whose mission is "to oversee state-related debt issuance and provide efficient and effective financing solutions to facilitate state, local government and business investment in Indiana (in.gov)," has offered this grant opportunity to help subsidize utilities' participation in the Alliance of Indiana Rural Water's Apprenticeship Program, as approved by the U.S. Department of Labor, Office of Apprenticeship.

In response to the industry's need to train the next generation of skilled workers and standardize training across the state of Indiana, the Alliance of Indiana began taking on apprentices through the National Rural Water Association's Apprenticeship Program. Once an Apprentice completes this 2-year program and passes an aptitude test given by the State of Indiana, he or she is considered a journey worker and can complete tasks unsupervised, making this person employable as a Systems Operations Specialist in the Water or Wastewater Industry. The Alliance was the very first state rural water association in the country to graduate an apprentice and has since become nationally recognized and a leader in combating future industry employment shortfalls.

The following Indiana towns, cities, or corporations have participated or are currently participating in the Alliance's Apprenticeship Program: Albany Waterworks/Sewage Dept., BBP Water Corp., Bremen, Chalmers, Clay City, Colfax Water Works, Hartford City, Kingsford Heights, Lagro, Lewisville, Montezuma, New Castle, North Liberty, Oxford, Paoli, Plainville, Reynolds, Salem, Scottsburg, Silver Lake, South Harrison, Tennyson, Van Buren, Milford, Montpelier, Oakland City, Otterbein Water & Sewage Utilities, Pike-Gibson Water, Inc., Roann, Sullivan-Vigo Rural Water Corporation, Windfall, Valley Rural Water Corp., and West Terre Haute Water & Wastewater. If you're interested in learning more about our Apprenticeship Program, please contact our Apprenticeship Coordinator, Kelly Gardner, at kgardner@inh2o.org.

TEACHING PAST, PRESENT, AND FUTURE



BY DONALD PAPAI
APPRENTICE
TRAINING DIRECTOR

We have all heard the stories from our grandparents: “I used to have to walk to school uphill both ways...in the snow!” And sure, a lot of them did. Though, I imagine both ways weren’t uphill, but I’m sure at least one way was. Those one-room schoolhouses are nearly all gone. Sort of a bummer, really. I have been given tidbits of information from many individuals on how we should be educating the new faces of our industry. I take it all in because I want to do the best job possible. I mix the old with the new, and it seems to be working thus far.

Back when I was a kid (just a few years ago), a lot of our education was built on memorization and repetition, such as spelling words and completing multiplication tables. There is nothing wrong with teaching that way; it’s just that all minds are not constructed in the same manner. Some can retain the information well, while others have a hard time doing so. There are a few staples like salt and pepper that we learn in this industry, such as a gallon of water weighs 8.34 lbs., or a cubic foot of water is 7.48 gallons. I revert to those theories of memorization and repetition to retain that information, but as I have mentioned in a few of my other articles, I like to use mind connections, or what I call “silly, corky, rhyming things”. It works; just ask one of our many apprentices.

The AIRW Apprenticeship Program continues to develop. Remember, I’m one of those old-school fellas, and a majority of our apprentices are, well, let’s just say, from a different era. I still send home paper quizzes and assignments just like they used to do when Lou was a pup. A few students have difficulties with that style – printing the paper out, answering the questions, and scanning it back in. You can see,

it’s pretty cumbersome. We are changing it up a bit, trying to find a level playing field.

In the very near future, a lot of my quizzes and homework assignments will be out “there”, wherever “there” is. A link will be sent to the student, and they can log in on their device and complete the task. Immediately following, they will receive a grade, and for the questions missed, they’ll be given the correct answer. I, as the instructor, will be sent a report for those who have completed the task, as well as their grade, and those who have not. Currently, I grade everything by hand and send a response to the student, as well as their mentor. Trust me – I will not lose the personal connection I currently

have with my students. We will still go over each of the assignments, question by question, until I know we are all on the same page before starting another lesson.

In closing, I would like to quote the renowned American Psychologist, John Dewey:

“You cannot teach today the same way you did yesterday to prepare students for tomorrow.”

If you’re still thinking about the Apprenticeship Program and have questions, please call me at 1-317-607-0531. If it’s during class hours, leave a message and I’ll get back with you.

This is Donald Papai with the Alliance of Indiana Rural Water saying “Good day” to you all. ★

ISI Infrastructure Systems, Inc.

260 W. Vincennes Street • P.O. Box 148 • Orleans, IN 47452

Phone: (812) 865-3309 • Fax: (812) 865-3009 • E-mail: jstalker@infrastructuresystems.com

Available Services

- Waterline Installation (all sizes & types)
- Storm and Sanitary Sewer Installation
- Wet Tapping thru 12”
- Rock Trenching & Busting
- Cased Bores
- Directional Bores
- Restoration
- Booster Stations
- Chemical Feed Plants
- Lift Stations
- Demolition
- Vacuum Excavation
- Vac Truck Services
- Culvert Pipe Lining
- Insertion Valves/ Line Stops



*Excellence in Engineering*SM
Since 1946



Columbus City Utilities' Wastewater Treatment Plant



www.strand.com

12 Locations • 812.372.9911

Multidisciplinary firm serving
the public and private sectors



We're All About
Indiana

**A Leading Specialized Distributor of
Water, Wastewater and Storm Drainage
Products, and Related Services**

coreandmain.com

WESSLER
ENGINEERING

**We are water resource experts
who help committed leaders
make sure their water is
safe + managed + future-proof.**



317.788.4551 | wesslerengineering.com



CURRY & ASSOCIATES, INC.
CONSULTING ENGINEERS & ARCHITECTS

WATER • WASTEWATER • STORMWATER • ARCHITECTURE

RECURRY.COM • (317) 745-6995 • DANVILLE, IN



River Valley Resources Provides \$22,000 in Grants for AIRW Apprentices

Monday, June 13, 2022

The Alliance of Indiana Rural Water has significant interest in establishing relationships with various agencies and organizations that can enable local utilities and their employees to grow and succeed, as well as to secure the next generation of water and wastewater professionals. One of these agencies is River Valley Resources (RVR), whose mission is "developing a competitive workforce through collaboration and innovative services for individuals, employers, and communities." River Valley Resources is a 501 (c)(3) nonprofit organization that was founded to help Hoosiers obtain and maintain gainful employment. Since 1990, this organization has managed over 250 million dollars in federal, state, and local workforce development related grants and contracts. RVR has provided \$22,000 in grants for active apprentices in the AIRW Apprenticeship Program throughout the state. 22 apprentices each received a \$1,000 grant toward their training.

The following apprentices/utilities have received a grant from River Valley Resources:

- Willie Brock & Ryan Frazier - North Lawrence Water Authority
- Eric Thomas - East Lawrence Water
- Aaron Gearhart & Jake Gearhart - Town of Akron (pictured in middle)
- Tyler Ballard - Town of Greendale
- Dennis Balensiefer - Warren County School
- Kyle Wood & Braxton Goodman - Columbia City
- Matthew Minnick - Town of Gosport
- Chandler Wise - Connersville Utilities
- Christopher Gagnon - BBP Water Corp.
- Avery Dyer - Oakland City (pictured on right)
- Chase Perry - City of Montpelier (pictured on left)
- Darren Knight - Town of Farmersburg
- Michael Stacy - Town of Oxford
- Robert Woods - Town of Tennyson
- Kyle Lechner & Clint Meyer - Town of Ferdinand
- Leonel Foust - Town of Roann
- Gage Naylor - Town of Shipshewana
- Ralphie Mosley - Town of Wolcottville

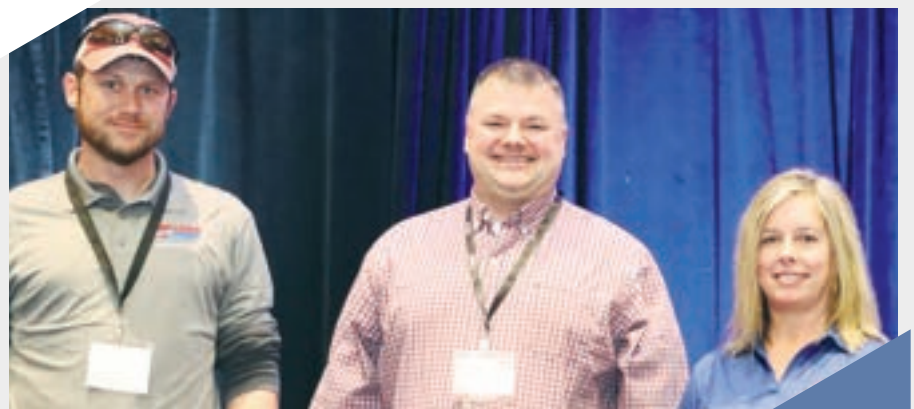
SERVLINE SCHOLARSHIP DEVELOPING SKILLED WORKERS FOR WATER AND WASTEWATER INDUSTRIES

By Mike Chambers

The water and wastewater industries have faced challenges attracting employees over the past few years. The ServLine by HomeServe Apprentice Scholarship is designed to address the challenges faced by rural water systems in attracting and developing the next generation of skilled workers to the industry by offsetting the utilities' costs to train apprentices.

"ServLine recognizes the importance of NRWA and the rural water associations water utility industry training model, especially its impact for small systems," said Tom Rusin, CEO of ServLine parent HomeServe NA. "We are proud to offer the ServLine by HomeServe Apprenticeship Scholarship to help encourage the next generation of water operators."

The program, launched in July 2021, with the Alliance of Indiana Rural Water (AIRW), initially awarded two scholarships. Ryan Frazier of Bedford, IN, a North Lawrence Water Authority employee, is the third recipient.



At the AIRW Spring Conference on March 16 in French Lick, Indiana, Ryan was awarded a \$3,000 scholarship to attend the AIRW's nationally recognized two-year training program.

Frazier, a former journeyman stonecutter and planer man at Indiana Limestone, was looking for a position with more stability during the pandemic. When an opportunity as a water technician at North Lawrence Water presented itself, he applied, and the rest is history.

"I was fortunate to have been chosen for this position," Frazier said. "I truly did not realize the whole scope of the water industry, and I learn something new every day."

According to Kelly Gardner, the Apprenticeship Coordinator for AIRW, "The ServLine Scholarship is making a major difference, providing funds for those that want careers in the water and wastewater industry."

ServLine by HomeServe partners with municipalities and water utilities to offer a unique leak protection program, which protects both residential and small commercial customers from high water bills as a result of water leaks on their property. ServLine is an affinity partner with AIRW and the National Rural Water Association and works with over 200 municipalities and water utilities. In the past seven years, ServLine has saved these utilities and customers over \$22 million.

ABOUT THE AUTHOR

Mike Chambers is a Regional Business Development Director at HomeServe. Mike has been with HomeServe for the past 13 years. In this role, Mike is responsible for working with municipalities/ utilities to educate and develop the best program options for their residents. Mike received a B.A. in Communications from California University of Pennsylvania. ★

WEALING BROTHERS LLC

BIOSOLIDS MANAGEMENT COMPANY



INDUSTRIAL & MUNICIPAL

- Dredging
- Land Application
- Permitting
- Digester Cleaning
- Dry Spreading
- Mobile Dewatering
- Lagoon Clean Out

Biosolids
Regional
Storage
Facility

Chad Wealing
(765) 714-2099
chad@wealingbros.com

Lance Wealing
(765) 430-6473
lance@wealingbros.com

4161 N. 600 E.
Fowler, IN 47944

Ph: (219) 261-2520
Fax: (219) 261-2531

THE KNOWLEDGE, THE EXPERIENCE, THE EQUIPMENT.
Off-Site Biosolids Storage/Disposal Facility • Biosolids Regional Storage Facility

www.wealingbrothers.com

LCRR LEAD SERVICE LINE INVENTORY BRAIN TEASERS

By Gordon Meyer

The Lead and Copper Rule Revisions (LCRR) officially took effect on December 16, 2021, published on December 17, 2021, and the compliance date will quickly be upon us. Have you even heard of this rule? Do you have any idea how this will affect your system? Do you know what is required to develop a Lead Service Line Inventory?

These are a few of the questions you need to be asking yourself, so I decided to throw a few brain teasers at you in order to assess your knowledge of the rule.

1. WHAT IS THE CURRENT COMPLIANCE DATE FOR THE LCRR?

- A. January 1, 2023
- B. October 16, 2023
- C. January 1, 2024
- D. October 16, 2024

2. HOW MUCH TIME DO PUBLIC WATER SYSTEMS HAVE TO DEVELOP AND SUBMIT TO EPA A LEAD SERVICE LINE INVENTORY?

- A. Within 3 years of the final rule publication
- B. Within 2 years after the compliance date
- C. Within 5 years after compliance date
- D. Within 10 years after compliance date

3. THE LEAD SERVICE LINE INVENTORY MUST INCLUDE ALL PUBLIC AND PRIVATE SIDE SERVICE LINES THAT ARE...

- A. Known lead service lines
- B. Non lead service lines
- C. Galvanized pipes
- D. Unknown service lines that need further investigation
- E. All of the above

4. WHO SHOULD BE INCLUDED IN THE DEVELOPMENT OF THE LEAD SERVICE LINE INVENTORY?

- A. Board
- B. Utility Manager
- C. Clerk
- D. Operators

- E. Customers
- F. All of the above

5. WHO SHOULD ATTEND THE TRAINING THAT IS BEING OFFERED BY THE ALLIANCE FOR LCRR?

- A. Board Members
- B. Clerks
- C. Managers
- D. Operators
- E. All of the above

6. WHEN SHOULD YOU BEGIN TO DEVELOP THE LEAD SERVICE LINE INVENTORY?

- A. Yesterday
- B. Today
- C. NOW
- D. All of the above

As you can see, this is going to be a daunting task which needs to be started as quickly as possible. It is going to take many staff hours to complete the search for what type of service line is in use by the water utility, or if the connection has ever been a lead service line that has been replaced by a non-lead service line going into the meter setter.

It's also necessary to determine what type of service line is in use on the private side, such as a non-lead service line or galvanized line. If the galvanized line has ever been connected to a lead service line that has been replaced, then it is still considered a lead service line.

This is just a small fraction of the LCRR that this article has focused, which can be very confusing. I strongly recommend that you attend the webinars and in-person classes being presented by the Alliance, with IDEM and 120 Water. These classes can be found in the One-Day Training section on the Alliance website (www.inh2o.org). ★

Answers: 1. D, 2. A, 3. E, 4. F, 5. E and 6. D



Floyds Knobs, Indiana 47119

812-941-0300

EST. 1994

24 Hour Emergency Service

Over 40 Years Combined
Experience

INSTRUMENTATION

Telemetry & SCADA
Flowmeter Certification
Instrument Calibration
Control System Design

ELECTRICAL

Electrical Design
and Installation
Electrical Motor Repair
Electrical System Repair

MECHANICAL

Lift Station & Pump Station
Maintenance
Pump Repairs
Mechanical Maintenance

We are a small utility and with a tight budget. Having Gordon available to answer questions and help us when needed has saved us thousands of dollars.

Gordon was more than helpful when we switched to the new media and switching to chloramines when we had trouble with them. His leak detection is second to none. He has kept us informed about the updates to the Lead and Copper Rule and PFAS and has given us clarification on tier 1 and tier 2 levels. Gordon is our go-to guy if we have questions, concerns, or need up-to-date information.

*Joe Christmas,
Anderson Township
Regional Sewer District*

I am a proud member of the Alliance! I have been in the water and wastewater business for 15 or so years. I even remember taking samples with my father when I was in high school. To this date, I have achieved and have used my WT3, DSM, WW-IV. In the past, Alliance was the main help to get me on the path to my license, and now I see that there are even better opportunities with the apprenticeship program, which I can't wait to have my employees be part of.

I remember the Alliance coming to my aid whenever I had a leak, no matter the time or day. They are very skillful with all things water and wastewater treatment. The Alliance is a friendly and good-hearted bunch, and I'm treated like a friend every time I meet someone new. I'd go so far as to say that they are like family.

I usually look to the Alliance first for CEUs as I know they hold some of the best classes – in some shape or form, I'm going to learn something.

Recently, the Town of Hamilton had a major water leak that went on for days. Many worked on helping with the situation, but the only one clever enough to get results was an Alliance worker. I ask them random water and wastewater questions almost every day and they do their best to help me out. I would recommend the Alliance to everyone I meet who needs help in this field.

*Jonah Johnson, Water Superintendent
Town of Hamilton*

The Town of Lakeville, Indiana has been extremely satisfied with the assistance we receive from Alliance of Indiana Rural Water. We have been a member of the Alliance for many years, and they have always been willing to help when needed. Their services are important to us, and the immediate attention they give us is appreciated. They have always gone out of their way to assist us. I know we will need them in the future, and they will continue their expert assistance and guidance, which will help the Town to continue to save money. It is always beneficial for small towns like Lakeville to have someone like the Alliance on our side.

Chad has helped us many times, in particular, with a leak the Town couldn't find because it had not surfaced and was difficult to locate. Chad came, did an assessment, and found the leak.

Kevin has been here to assist us numerous times. The most recent was assisting with the lagoons and helping with the algae and duck weed problem. Both have been a great help to the Town and we looked forward to the continued service.

*Christine K Rowe, Clerk/Treasurer and Dan Casad,
Utility and Maintenance Director
Town of Lakeville*

The Town of Mentone would like to express its appreciation for the Alliance of Indiana Rural Water for their assistance and support over the last couple of years. It has been a pleasure working with Chad Reynolds on numerous occasions. He is always just a phone call away, and is happy to help in any way he can. His knowledge has been a huge asset to the town. We look forward to continuing to work with him and the Alliance in the future.

*Josh Shepherd,
Town of Mentone*


Full-Service Water and Wastewater Solutions

- Drinking Water
- Wastewater
- Renewable Fuels Waste-to-Energy
- Stormwater Management
- Public Safety and Municipal Management
- Funding Strategies

McMAHON
ENGINEERS ARCHITECTS

NEENAH, WI
920.751.4200
MACHESNEY PARK, IL
815.636.9590
VALPARAISO, IN
219.462.7743

MCMGRP.COM



FLEIS & VANDENBRINK
 INNOVATIVE WATER AND WASTEWATER SOLUTIONS, TAILORED TO YOUR NEEDS.
 800.494.5203
 www.fveng.com



PELTON
 ENVIRONMENTAL PRODUCTS

Contact Your Local Rep:

Central and Southern Indiana
 Peter Herlihy
 pherlihy@peltonenv.com
 513.476.5600

Northern Indiana
 Mike Rowe
 mrowe@peltonenv.com
 419.544.0410

440.838.1221 Main Office
 www.peltonenv.com



PROVIDING INDIANA WITH **INNOVATIVE** AND **AFFORDABLE** TRENCHLESS SEWER AND WATER PIPE REHABILITATION.

317.408.7136
 jferguson@insituform.com
 www.insituform.com

Insituform
 an AEGION company
 © 2015 Aegion Corporation

TOGETHER WE HELP COMMUNITIES TAKE SHAPE.

- Water Source, Distribution & Treatment Systems
- Wastewater Treatment & Collection Systems
- CSO/SSO Engineering
- Project Planning & Funding
- Stormwater Management & Design
- Construction Inspection
- Transportation Engineering



317-895-2585
 Toll Free: 800-536-2594
 www.ucindy.com

8440 Allison Pointe Blvd.
 Suite 200
 Indianapolis, IN 46250

facebook
 LinkedIn



LOCHMUELLER GROUP
 Consulting for
 Drinking Water | Wastewater | Storm Water

PATTI YOUNT **JEFF DEWITT**
 812.459.6204 317.691.0010
 pyount@lochgroup.com jdewitt@lochgroup.com



LWG goes beyond traditional accounting to bring strategic thinking, innovation, and integrated solutions to the complex problems our clients face.

Please feel free to contact us about our services provided below:

Phone (877) 634-4747 | Website: LWGcpa.com
 Bonnie.Mann@LWGcpa.com
 1776 N. Meridian Street, Suite 500, Indianapolis IN 46202

To reach water professionals through *Hoosier Pipeline* and its targeted readership, contact Dave at your earliest convenience.

Dave Gill, Marketing Manager
 david@kelman.ca | Phone: 866-985-9791



ADVERTISER PRODUCT AND SERVICE CENTER



Hoosier Pipeline is made possible by the companies below who convey their important messages on our pages. We thank them for their support of AIRW and its publication and encourage you to contact them when making your purchasing decisions. To make it easier to contact these companies, we have included the page number of their advertisement, their phone number, and, where applicable, their website.

Company	Page	Telephone	Website
Advanced Rehabilitation Technology, Ltd.	22	419-636-2684	www.artcoatingtech.com
Bastin-Logan Water	OBC	317-738-4577	www.bastinlogan.com
Beam, Longest and Neff, LLC	38	317-849-5832	www.b-l-n.com
Commonwealth Engineers, Inc.	3	317-888-1177	www.commonwealth-engineers.com
Core & Main	44	317-545-6088	www.coreandmain.com
Curry & Associates, Inc.	44	317-745-6995	www.recurry.com
E.J. Prescott	30	800-357-2447	www.ejprescott.com
ETNA Supply	IFC	574-287-0132	www.etnasupply.com
Ferguson Waterworks	8	317-546-2013	www.ferguson.com/waterworks
Fleis & VandenBrink Engineering, Inc.	49	317-843-0022	www.fveng.com
Force Flow	36	800-893-6723	www.forceflowscales.com
Ford Meter Box Company	33	260-563-3171	www.fordmeterbox.com
Gasvoda & Associates	24	708-891-4400	www.gasvoda.com
George E. Booth Co., Inc.	32	317-247-0100	www.gebooth.com
Gripp, Inc.	29	317-896-3700	www.grippinc.com
GRW Engineers, Inc.	38	317-347-3650	www.grwinc.com
Hawkins	18	765-288-8930	www.hawkinsinc.com
HWC Engineering	35	812-234-2551	www.hwcengineering.com
Indiana Pump Works	6	317-360-PUMP	www.indianapumpworks.com
Infrastructure Systems, Inc.	43	812-865-3309	www.infrastructuresystems.com
Insituform Technologies USA, Inc.	49	317-408-7136	www.insituform.com
Kokosing Industrial, Inc.	22	317-891-1136	www.kokosingindustrial.com
Lakeside Equipment Corporation	4	630-837-5640	www.lakeside-equipment.com
Lochmueller Group	49	812-479-6200	www.lochgroup.com
M.E. Simpson Co., Inc.	38	800-255-1521	www.mesimpson.com
McMahon Associates, Inc.	48	219-462-7743	www.mcmgrp.com
Midwestern Engineers, Inc.	7	812-295-2800	www.midwesterneng.com
National Water Services, LLC	34	812-723-2108	www.national-water.com
Ortman Drilling & Water Services	34	765-459-4125	www.ortmandrilling.com
Peerless-Midwest, Inc.	29	574-254-9050	www.peerlessmidwest.com
Pelton Environmental Products	49	440-838-1221	www.peltonenv.com
Peter King Law	39	812-376-0014	www.peterkinglaw.com
Pittsburg Tank & Tower Group Inc	34	270-826-9000	www.pttg.com
RELINER / Duran Inc.	16	800-508-6001	www.reliner.com
S & K Equipment Company, Inc.	26, 27	812-886-0245	www.skequipment.com
Strand Associates, Inc.	44	317-423-0935	www.strand.com
TnT Technologies, Inc.	47	812-941-0300	www.tnttechnologiesinc.com
Triad Associates, Inc.	37	317-377-5230	www.triadassoc.net
United Consulting	49	317-895-2585	www.ucindy.com
VEGA Americas, Inc.	14	1-800-FOR-LEVEL	www.vega.com
Veolia Advanced Solutions USA	32	855-526-4413	www.veolianorthamerica.com
Vermeer Midwest	IBC	260-484-2494	www.vermeermidwest.com
Waller's Meter, Inc.	37	888-485-7018	www.wallersmeterinc.com
Water Solutions Unlimited, Inc.	38	800-359-3570	www.getwsu.com
Wealing Brothers LLC	46	219-261-2520	www.wealingbrothers.com
Wessler Engineering	44	317-788-4551	www.wesslerengineering.com
Xylem - Water & Dewatering Solutions (Flygt & Godwin Products)	10	317-273-4470	www.xyleminc.com



Vermeer
Midwest



CALL US TODAY!
(888) 809-5640



**SCAN TO
LEARN MORE**

BASTIN LOGAN



WATER SERVICES INC.



SERVICES:

- Field Inspection
- Maintenance Programs
- Trouble Shooting
- Testing and Evaluation
- Repairs (Pumps & Filter Plants)
- Drilling & Hydrogeological Services
- Rehabilitation of Existing Wells
- Down Hole Color T.V. Camera with Side View

Office Phone (317) 738-4577

Fax Number (317) 738-9295

Mobile Phone 24 Hour Service

Joe Paszek (317) 695-3496

Brian Logan (317) 439-2825

Rex Bussinger (317) 695-9222

John Britton (317) 439-4510

**1010 N Hurricane Road,
Franklin, IN 46131**

Provider of Package Water Treatment Plant –
Mapleturn Utilities



“Indiana’s Best Tasting Drinking Water”
“Nation’s 2nd Best Tasting Drinking Water”
- NRWA

www.bastinlogan.com