

HOOOSIER PIPELINE

SUMMER/FALL 2021



The official publication of the Alliance of Indiana Rural Water



ALLIANCE
OF
INDIANA
RURAL WATER

'21

Fall Conference
October 20 & 21
Fort Wayne, IN

INSIDE: FALL CONFERENCE | WORKPLACE SAFETY | SAMPLING AND RECORD KEEPING

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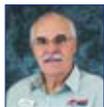
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Tom Speer
Alliance Board President

Marching On

Greetings once again Alliance members. 2021 continues to be a bit of a struggle with the ongoing pandemic, but your Alliance team is marching on and continuing to provide the services you have come to expect.

Let's recap some events that have happened so far this year. First, our Spring Conference in French Lick was a huge success with over 700 in attendance. If you were unable to attend you missed a great time. Our first night began with a pre-conference party at Legends sponsored by National Water Services. I want to say a BIG Thank You to National Water Services for sponsoring this event. The conference began Wednesday morning. We had to adjust the class and break schedules a little to accommodate for social distancing, but it all worked out well. We had many great speakers and the classes were all very informative. The exhibit hall was filled with all kinds of great things for all to see and make personal contact with our vendors. We want to thank our vendors for coming and for their sponsorships. The conference ended with our raffle prize winners. Look for the section in this magazine for pictures of all the winners and other events that took place during the conference.

Next is the event we all like... the Operator Expo's in Huntingburg and Akron. These events were held in June and were very well attended. I can't mention the expos without saying thank you to Water Solutions Unlimited and to David Harvey and Mike Ricks and their crew for their expertise in roasting the hog at both events.

Our next event will be the Leadership Summit in Bloomington. This is very important for utility boards and councils as well as general managers. Greg Coker will be there talking about Leadership in Adversity, How to Attract and Keep Good Employees, and Succession Planning. We will have several great speakers that can be very helpful to your utility.

We're looking forward to the NRWA WaterPro Conference in Milwaukee, Wisconsin in September. If you've never

been to this conference, you really should consider going and... It's really nearby this year.

Our Fall Conference will be in Fort Wayne again this year on October 20 and 21. This conference continues to grow and offers outstanding class room time. Come join us!

Wrapping up, we want to thank you for your continued support. This is your association so please reach out to us if you have questions or need assistance with an issue. We are here for you. ★



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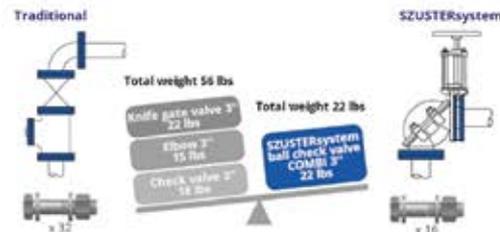


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Connie Stevens
Executive Director

Leadership – We all do it

Whether we realize it or not, at some point in our lives we are leaders. It may be managing a water utility, or being the certified operator in charge, chairman of a committee, coach of a sports team or a deacon in your church. Most times leadership is something you do without getting paid for it, but it is an important role that we don't think about. People are watching, young and old, and are influenced by what we say and do.

That said, please do not think you have to be so focused and serious about leadership that you forget to enjoy life. I would like to encourage you to lead a happy life. I hope that you are doing the job you love.

Now moving on...

There are different types of leaders in this world, including good and bad ones. Let's focus on some qualities of a good leader:

- **Inspire and Motivate** – Spreading positive vibes, words of encouragement to the people around us. Giving them more responsibility in order to grow.
- **Honesty** – The ability to tell the truth at all costs and under any circumstance. This builds trust from those around you.
- **Integrity** – Leading honorably. Always trying to do the right thing.
- **Communication** – Providing clear direction or information as well as being a good listener. Asking for input with sincerity.
- **Self Confidence** – Showing confidence by having the facts and knowing what you are talking

about or being informed about the project you are working on. This also leads to confidence from your team. If you are confident, they will be too.

- **Accountability** – Being accountable for your actions and the actions of those around you. If you are wrong, own it.
 - **Empathy** – Listening, sympathizing and understanding the people around you will help to connect with them.
 - **Lead by Example** – Treating others with dignity and respect.
- These are all great qualities, but we are not perfect. We must remember

that leaders are human beings and will make mistakes. It is how we respond to those mistakes that will make a difference.

The Alliance of Indiana Rural Water will be holding a Leadership Summit in Bloomington on July 28 and 29. We will have excellent speakers covering many topics that could be very helpful to you and your communities. I hope to see you there.

So, what will our legacy be when we leave this world? How will we be remembered?

"If your actions inspire others to dream more, learn more, do more and become more, you are a leader." – John Adams ★

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Kelly Gardner
Assistant Executive Director

Apprenticeship Program Update

The Alliance of Indiana Rural Water nationally registered Apprenticeship Program is an excellent way for transitioning water and wastewater employees into water/wastewater operation specialists for the systems they work for. The nationally-recognized apprenticeship training program was developed in response to the industry's need for assistance in training the next generation of skilled workers and to standardize training across the state. Once an Apprentice completes the two-year program and passes the aptitude test given by the State of Indiana, they are considered a journey worker according to the national apprenticeship standards and a licensed operator in the state of Indiana, allowing the operator to do the daily tasks of running and operating a water or wastewater system unsupervised.

The Alliance of Indiana Rural Water currently has 45 apprentices in the program across the state. Many operators have inquired what utilities are enrolled in the program. There are multiple types of systems in the apprenticeship program that range from the smallest to larger municipalities, which includes cities, towns, regional sewer districts and non-profit systems. The apprenticeship program is assisting employers and new hires with training in many locations across the entire state.

Of the licensed operators mentoring apprentices many have worked for their systems for most of their careers. The valuable knowledge they are sharing

"The Alliance of Indiana Rural Water currently has 45 apprentices in the program across the state."

during the training process with the apprentices will pass on valuable knowledge and experiences of their systems to the next generation. The Apprenticeship Program provides utilities with the training needed for their new employees to learn all aspects of the industry and is an excellent alternative to an expensive college education.

The first Indiana apprentice, Nicholas Hines, completed the nationally recognized apprenticeship program with the Alliance of Indiana Rural Water in 2019 and was recognized at WaterPro in Nashville, TN. Nicholas received his WT3 and his DSL operator's licenses with IDEM and he is now a mentor at his utility, training an apprentice who is currently the youngest enrolled apprentice in the Apprenticeship Program. The utility had to wait until the apprentice turned 18 to enroll him in our program. Nicholas is also helping assist a neighbor utility as the operator in charge of the water plant.

The second Indiana apprentice, Tony Janeway, with the Town of Roann completed the wastewater apprenticeship program and received a class I with IDEM. Tony is continuing to advance in this industry and going to

get his water license. Tony will be replacing his mentor as he nears retirement.

The third Indiana apprentice, Catlyn Helmuth, with the Town of Lagrange, completed the wastewater apprenticeship program and received a class III with IDEM. Catlyn applied for a provisional license with IDEM near the end of the program when his mentor retired and was approved. Catlyn was given six months and one chance to pass the exam. He did it!

The fourth Indiana apprentice, Michael Reid, with Steuben Lakes Regional Sewer District completed the wastewater apprenticeship program and received a class I with IDEM.

All four of these graduates have worked very hard. If you know any of them, please congratulate them.

Water/Wastewater workers were essential employees long before COVID-19 but their importance has come into greater focus during the pandemic crisis. They all must pay close attention to the support and protection of their workforce. After all, who will fill their shoes in the event one becomes ill? We all know the abundance of licensed operators is not overflowing. If you are interested in the Apprenticeship Program, please contact Kelly Gardner at kgardner@inh2o.org for more information. ★



Nicholas Hines, BBP Water Corp. – First Indiana Apprentice



Catlyn Helmuth, Town of Lagrange



Michael Reid, Steuben Lakes Regional Sewer District



Tony Janeway, Town of Roann

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2021 SPRING CONFERENCE

Recap

Thank you to everyone who participated in the conference at the beautiful French Lick Resort. It was great to get back together in person again! We welcomed everyone on Tuesday evening with a FANTASTIC hospitality party sponsored by National Water Services at Legendz. If you didn't make it there this year, make sure you plan to attend next year!

Wednesday morning, we hit the ground running and participants started off to their special track of classes – administrative, water, or wastewater. We staggered classes this year to reduce the number of people in the exhibit hall at one time, which seemed to be beneficial for both attendees and vendors! Since we couldn't host an Awards Luncheon this year at the event, we had screens up throughout the venue to honor our best of the best in the industry as well as four outstanding students with \$2,000 scholarships!

Wednesday evening, we hosted an event outside with cocktails and appetizers, in addition to pizza and bowling inside! It was a great time to wind down from a full day of classes while mingling with peers and friends, and enjoying some really great weather!

Thursday, everyone woke up to a delicious hot breakfast buffet before starting in on another day of classes. Also, we held the first round of our Regional Taste Test Competitions. The Town of Osgood will advance to the Best Tasting Water in Indiana contest to be held in Fort Wayne at the 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 Jim Perry from Cataract Lake, who walked away with a John Deere Zero Turn Lawnmower worth over \$2,500! Dave Harvey from Water Solutions Unlimited won the shotgun raffle. Reggie

Payton from BBP Water Corp. won the all-inclusive trip for two to the NRWA conference in Milwaukee, Wisconsin – sponsored by Covalen & Midwestern Engineers, Inc. Thank you to all our attendees, speakers, vendors, and sponsors for helping make this another fantastic event! ★

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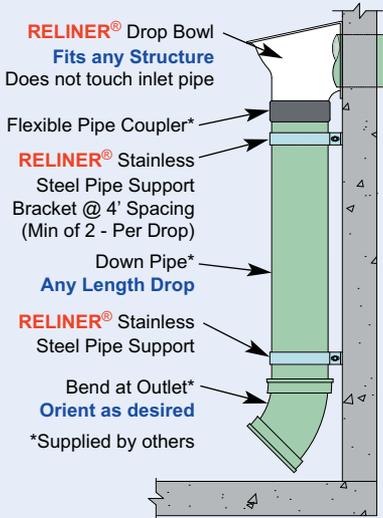
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The best of the best in the water and wastewater industry were honored at our 2021 Spring Conference. Each recipient was presented with their award prior to the conference, then recognized throughout the event on a slideshow displaying on the event center's tv monitors throughout the venue!



Water System Operations Specialist of the Year

Gordon Meyer (R) presents the award to **Howard Watts**, City of Austin Wastewater Treatment Plant (L).



Wastewater System Operations Specialist of the Year

Dave Adkins (L) presents the award to **Don Long**, Town of Ladoga (R).



Manager of the Year

Gordon Meyer (L) presents the award to **Ken Alexander**, Watson Water Company (R).



Administrative Professional of the Year

Dave Adkins (R) presents the award to **Chuck Stranahan**, West Terre Haute Water Works (L).



Associate Member of the Year National Water Services



President's Choice Award

Tom Speer (R) presents the award to **Anita Amspaugh**, Midwestern Engineers, Inc.



Steward of the Environment

(L-R) Associate Board Members Dave Harvey and Richard Burch; award recipient **Bruce Cunningham**, South Harrison Water Co.; and Connie Stevens, Executive Director, AIRW.

2021 SCHOLARSHIP

Recipients

Each year the Alliance awards scholarships based on fundraising from our annual Golf Outing and Clay Shoot. This year the Alliance awarded FOUR \$2,000 scholarships! Eligible applicants must be a citizen or legal resident of the United States, a resident of the state of Indiana, and a dependent child of a voting member system employee. ★



Grace Hall

Daughter of Greg Hall
Greenfield Water Utility



Akina Lindley

Daughter of Robert
Lindley Monticello
Wastewater Utility



Elaine Shock

Daughter of Ryan Shock
Town of North Manchester



Preslie Staggs

Daughter of
Heather Staggs
City of Martinsville



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2021 OPERATOR EXPOS

SOUTHERN – HUNTINGBURG, IN/
NORTHERN – AKRON, IN

Recap



Our Southern Expo was held on May 16, in Huntingburg, Indiana and our Northern Expo held on May 23, in Akron, Indiana, were both big successes! We had over 225 people in attendance at each and it was beautiful weather to gather back together again! Both events featured our ‘famous’ hog roast, donated by Water Solutions Unlimited while the Schnitzelbank & Jonsey’s Junction catered the rest of the food.

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!



Huntingburg Meter Toss Winners

Powder Puffs:
Angie Willoughby – IDEM

Young Bucks:
Steven Dorton – Edwardsville Water Corp.

Grizzly Ol’ Veterans:
Mike Compton – Town of Paoli

Huntingburg Backhoe Rodeo Winner
Blake Lindauer – Huntingburg Municipal Utilities

Huntingburg Expoo Royal Flush Winner
Ed Hollinden – Jasper Municipal Utilites

Akron Meter Toss Winners
Powder Puffs:
Caroline Gregory – Bourbon



Young Bucks:
Tony Fey – Bluffton Utilities

Grizzly Ol' Veterans:
Rick Prater – North Manchester

Akron Equipment Rodeo Winner
Jeff Crandall – Wanatah

Akron Expo Royal Flush Winner
Tony Fey – Bluffton Utilities

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



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16th Annual Alliance Scholarship Clay Shoot & Golf Outing

Thursday, September 2nd, 2021

Kingen Gun Club
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McCordsville, IN 46055

Registration: 7:30am
(Coffee & Donuts)

Start Time: 8:00am -10:30 am

Cost: \$50 / person

Winding Ridge Golf Course
5450 Bogey Drive
Indianapolis, IN 46235

(Located just off East 56th Street)

Registration: 10:00am

Lunch: 11:00am

Tee Time: 12:00pm (Shot gun start)

Format: Scramble, Teams of four

Cost: \$125-Individual / \$400-Foursome

Dress Code: Collared Shirt, Soft spikes

All proceeds benefit the Alliance of Indiana Rural Water's Scholarship fund.

Meet the 2021 Scholarship Winners



Grace Hall
Daughter of Greg Hall
Greenfield Water Utility



Akina Lindley
Daughter of Robert Lindley
Monticello Wastewater Utility



Elaine Shock
Daughter of Ryan Shock
Town of North



Preslie Staggs
Daughter of Heather Staggs
City of Martinsville



Send Registration to - Email: alliance@inh2o.org or **Fax:** 317-736-6676
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Please return registration forms to the Alliance office no later than August 30, 2021.

Any refunds will be subject to \$15 administrative fee.

(Questions - call toll free 888-937-4992, or email: alliance@inh2o.org)

16th Annual Alliance Scholarship Clay Shoot & Golf Outing

Registration Form

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List Team Members: Foursome: \$400

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**All proceeds benefit the Alliance of Indiana
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BY DONALD PAPAI
APPRENTICE TRAINING DIRECTOR

MAKING HISTORY

Ladies and Gentlemen, it is time to face the music... You know it, I know it, and our industry knows it. A crisis is looming, if not already here: the lack of certified operators. The Alliance Staff just returned from an in-service where we received a block of instructions on how to become better at what we do and pass that information on to you "The People." After hearing stories from other states, we realized that the predicament is much closer than you can even imagine.

How can we avert disaster? Take one full minute and think about this. *I mean really think about it!* Dig deep and look at our industry, at every intricate aspect. What can "We" do to help make it more appealing to younger folks?

Let me define younger folks a little better for you:

- Millennials: born 1981 to 1996. ...
- Generation Z: born 1997 or after. ...

Let us focus on these two groups. They were born into the digital world;

their minds are wired slightly differently than most of us baby boomers. But that is a good thing. Now what we need to do is to help feed the need. Younger folks absorb (remember that students) so much information on a daily basis that it's truly mind boggling. Let's make our industry part of that absorption process. Let's put together a program that will provide the necessary information in a 24-month period, information that will flash across their mind's screen and be absorbed. What has taken most of us 30 years to gather will be presented to these individuals in short zip file method.

How? By creating an apprenticeship program. Currently all 50 states are putting a program together as we speak. Our program here in Indiana is blazing the trail for others to follow and they are doing just that.

What we need to do is to get the word out that our industry in moving to the elite status of **"utility professionals."**

Reach out to the high schools, job fairs and let them know, "We are here!"

Interested individuals must complete an application and if all criteria are met, they will be placed into a pool. Municipalities looking to fill the shoes of an employee that had been with the system for 35 plus year must also meet the criteria set out in the apprenticeship program in order to be eligible. Once all the "t's" have been crossed and the "i's" dotted, let the magic begin!

A little bit about our program:

As most of you know I have been around the block at least two times if not more. What I have seen was a need to get back to the basics, to plant a seed and nurture it.

Sometimes as human beings we get *comfortable*; that is just in our nature. We learn from one another, but somewhere along the line, a small short-cut is made, and it



Apprentices that made the Alliance Spring Conference French Lick.

becomes part of the SOP (standard operating procedures). We do not know any better, because that is the way we were taught.

That is where this program can and will help. Let me share a glimpse of what the apprentice will encounter.

Currently the way the program has been structured looks like this: Both Water and Wastewater have been set up in semesters 1, 2, 3, and 4. A few classes from each group include:

- Water group 1 semester 1 – Rules, Regs and Sampling – Chemical Handling & Safety
- Water group 2 semester 2 – Disinfection & Intro to Math – Valves, Pipes and Hydrants
- Water group 3 semester 3 – Pumps and Motors - Distribution, Maintenance and Advanced Math
- Water group 4 semester 4 – Asset Management – Cyber Security
- Wastewater group 1 semester 1 – Wastewater Sampling & Testing – Wastewater Collections
- Wastewater group 2 semester 2 – Primary Treatment/Basic Math – Wastewater Maintenance
- Wastewater group 3 semester 3 – Activated Sludge, Lab & Math – Disinfection, Pumps & Pumping
- Wastewater group 4 semester 4 – Asset Management/Cyber Security

Along the way, quizzes, homework assignments, and semester finals will be distributed.

The main intent is to get these individuals up to speed quick, fast and, in a hurry, so they take the reins and guide us into the 21st century.

Summary: People, people, people, the time was 10 years ago when this program need to be implemented, so we are way behind and willing to make a deal. Let that deal begin with “You” making the first step into our future.

For more information concerning our Apprenticeship program please visit our website www.inh2o.org or call our toll-free number 1-888-937-4992 ★

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BY DAVE ADKINS
WATER CIRCUIT RIDER

TRAIN EMPLOYEES ON THE IMPORTANCE OF SAFETY



Work place safety. This is something we hear all the time but how many of us really make this a high priority? It's easy

to forget that we work in a dangerous environment around things that have the potential to cause us harm or in some instances death. How many times have

you heard someone say I've done this a million times? I would venture to say probably more than once. I'm sure I am probably guilty of saying that myself. I would like to share a couple of stories of people I know who let their guards down in regards to safety and the outcomes of doing so.

In the first instance the operator and his helper were working at the wastewater plant and needed to clean the sleeves on the UV lights. They had a two-bank system with four bulbs per bank. The sleeves were 1" in diameter 4' long. The operator and his helper pulled each bank individually and cleaned the sleeves and put them back in service. Later that evening they both ended up in the emergency room with burns to their eyes because they didn't shut off UV lights before cleaning the sleeves. The ER doctor told them it was the equivalent of watching someone weld without a helmet. Luckily for them after a couple of days they were fine but it was a hard way to learn a lesson.

In the second instance a young man I knew worked for a tank inspection company around the Northern Indiana, Chicago area several years ago. He went to do a tank inspection like he had done many times before and for whatever reason didn't feel like the situation called for the use of a gas/air monitor. He died because the environment was oxygen deficient.

I know recently in Northern Indiana three construction workers died in a confined space accident. So, yes, work place safety is extremely important. If you don't have a confined space entry program start one. Have regular safety meetings with your employees. Make sure to emphasize and train new employees on the importance of safety and the dangers of the environment in which they are working. ★

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BY CHAD REYNOLDS
WATER CIRCUIT RIDER

Gas Chlorine or Liquid Chlorine – Which Do You Prefer?

Which is the best fit: gas or liquid chlorine? Do you have one you prefer over the other and is there a correct answer? We all have our own opinions on with which we would rather work. Both have a pungent odor and leave a terrible taste in the mouth. Yet one or the other is a necessity to controlling bacteria in the water we deliver to our community.

Gas chlorine is poisonous and is a pulmonary irritant. If a large amount is ingested it can cause acute chlorine gas poisoning. The primary irritant is respiratory, symptoms of which include trouble breathing, coughing, nose irritation, sneezing, or a burning sensation. The best treatment if you encounter gas chlorine poisoning is flushing of the area affected. Chlorine gas fumes rise, so its important to stay low if you are ever in a room where there is a leak.

Sodium hypochlorite, more commonly known as liquid bleach, is faintly yellow in color. Liquid bleach is much safer than gas chlorine. Like gas chlorine, it is extremely harmful if ingested or swallowed. More injuries occur with liquid than they do from gas. Most injuries are skin- or eye-related. Flushing and washing the areas affected are crucial.

Starting around the 1930s, gas chlorine became available for a disinfectant. Gas chlorine is delivered by the use of a vacuum pump, whereas liquid bleach is delivered by the use of a metering system. Chlorine gas is greenish yellow, with a density almost double that of air. It can't be stored in large quantities and most prefer 150-pound cylinders. Its very important to change out the lead gasket when switching cylinders and to inspect the cotton-like material at the vacuum pump. Chlorine is a dirty substance,

“Gas chlorine is poisonous and is a pulmonary irritant.”

but in liquid form it's at its most dirty. One must rinse out the storage and day tanks routinely in order to assure a good quality disinfection is being achieved. If tanks are not properly maintained, it can and will lead to problems at the metering device. To disinfect water, a lower concentration of liquid bleach is used than that of gas. Generally, in a liquid form around a 10% concentration is needed. Equivalent to one pound of gas chlorine, one gallon of liquid bleach weighs in around 10 pounds. Both of these disinfectants are very corrosive and can cause a lot of damage. Certain materials are affected more by the fumes than others. CPVC piping and tanks are best suited for storing and

transporting to the system. Always be sure to use respiratory equipment when entering a room where a known leak is and have proper ventilation.

Liquid chlorine if stored in large quantities and not used quickly enough can lose its potency, which can give the operator difficulties in maintaining a residual in the system. However, with gas chlorine it is much easier to achieve the desired residual. In the end its purely a choice made by the operator. Liquid is typically cheaper to purchase, but sometimes the repairs it creates can balance out the difference. Remember to always be safe and be cautious when handling either of these products, whether liquid or gas. ★



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IMPROVING ENERGY EFFICIENCY FOR WATER AND WASTEWATER SYSTEMS

What can I do? Asking this question is a great place to start. The following is a concise list of places to start and things to think about:

How do we use energy in our facilities?

- Electrical Energy – used to conduct unit processes and operations.
- Aeration and pumping in wastewater treatment.
- Pumping for water treatment.
- The Environment Protection Agency (EPA) estimates 4% of power generated in the US is for water and wastewater treatment (56 billion kWh, \$4 billion, 45 tons of greenhouse gas GHG produced).
- 30% to 40% of total operational costs are energy.

What can I do to help save energy = (\$)?

- Understand electric utility rates and rate structure.
- Understand your utility bill.
- Maximize off-peak demand to reduce cost through load monitoring and shifting opportunities.
- Investigate utility rebates and incentives.
- Investigate federal and state grants for energy efficient operations.
- Use alternative energy sources.

Maximizing Off-Peak Demand

- Utility companies typically **measure** power as the average **demand** over

15 minutes. This is done by adding up the energy consumed and then dividing by the interval of time, giving units of power, kW. The highest average 15-minute period of **demand** over a month is known as peak **demand**.

- Typically, the most expensive energy usage time is Monday through Friday 1:00 pm to 7:00 pm.
- Peak demand is **caused** by spikes in usage.

Energy Assessment

- Establish a baseline of Energy usage – how much energy is the plant using?
- Next step – Implement passive and active energy efficiency measures: Passive – easy to implement without complex automation; and Active – requires automation and optimization.
- Final Step – metering to benchmark energy usage and establish future energy goals.

Easy Energy Efficient Measures to Achieve

- Replace inefficient motors for more efficient motors.
- Add VFDs to pumps and motors where appropriate.
- Manage HVAC and lighting loads.
- Install or upgrade SCADA to monitor and control energy usage.
- Suggest behavior changes.
- Work with your electric utility to find additional funding, i.e., rebates and incentives.

Water Treatment

- Pumping applications – efficient pumps and motors and variable frequency drives (VFDs).
- Pump optimization with SCADA.
- Proper maintenance and operation of pumps systems.
- Maintaining nameplate efficiencies of all equipment.
- HVAC, lighting, UV disinfection or pretreatment systems.
- Providing storage to allow for pumping during low energy demand times for electric utilities and distributing the water by gravity during high demand times could help with obtaining incentives or reduced rates from local electric utilities.

Wastewater Treatment

- Aeration and pumping applications.
- High efficiency motors and VFDs.
- Dissolved Oxygen (DO) monitoring and control can provide critical energy efficiency – adequately spaced and maintained DO sensors with properly sized blowers.
- Pump and blower optimization – know which pumps or blowers to use at what time and maintaining control over the requirement.
- Equalization basins – shifting treatment to low energy demand times. This is true for pumps and blowers too.
- Find applications to dewater sludge efficiently – reduce handling \$.
- Methane produced by anaerobic digestion – Can it be used for cogeneration or heating?

Finally, contact me for a no-cost, noobligation energy assessment today!

Dee Deig

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BY SHERRI WINTERS
WATER PROGRAMS DIRECTOR



There are over 90 contaminants that a community public water supply must monitor. We are seeing many new operators entering the drinking water industry and sometimes it can seem like a daunting task to them. But the regulatory agencies, the US Environmental Protection Agency (EPA) and our primacy agency, the Indiana Department of Environmental Management (IDEM), have made it as easy as possible. Drinking Water Watch: <https://myweb.in.gov/IDEM/DWWW/>

As I've discussed in many of my training classes, the standardized monitoring framework (SMF) is necessary. Knowing where to find it is imperative to plan your sampling schedules. Long gone are the days when IDEM mailed you a copy of your SMF. Sure, it was convenient for an operator to post in his/her office. But changes can occur daily and unless you are updating that copy, you may miss an updated schedule.

Who is responsible? The utility, IDEM and EPA are. You are responsible for sampling and submitting to IDEM. IDEM is responsible for reviewing the results and working with the utility for compliance. EPA is responsible for setting up the schedules and adding new regulations as mandated by law. This includes research on health effects, cost analysis and overall benefits to the public.

What are you monitoring? As mentioned above, EPA is tasked with setting up monitoring compliance based on their research and input from the primacy agencies and the public.

When are you monitoring? It depends on many things. The type of system (surface/groundwater) is the first thing to consider. Population also plays a role; larger systems

Sampling and Recordkeeping: **Who, What, When, Where, and Why**

generally submit more samples for many potential contaminants. Some samples (disinfection by-products being one) must be taken during specific times of the year. I encourage you to take any samples at the beginning of your monitoring period in order to avoid running into your next period and complicating things. For instance, take your Total Coliform samples at the beginning of your monitoring period.

Where are you monitoring?

It depends on what you are monitoring. Some are obtained from raw water sources, some are obtained at the point of entry (POE) and some are obtained in the distribution system. Many like Total Coliform and Lead and Copper are taken from specific sites and a site sampling plan is required. These plans are submitted to IDEM for approval.

Why are you monitoring? First and foremost, the monitoring is required to prevent adverse health effects to your consumers. Secondly, you need to know if your treatment is working in order to make adjustments to your finished water.

Maintaining records is also imperative to compare past and present results no matter the sample. Always ensure your records are kept and use them as the tool that they are. Good records can also be used for future reports. Be aware of significant changes. Have you changed treatment recently or do you need to make adjustments? Compare results from previous days, months, and years to detect trends. Factors that can affect your results are pH, temperature, and amount of organics, to name a few.

Common errors on documentation and sampling:

- 1) Hurrying through the procedure
- 2) Getting distracted
- 3) Not having a Standardized Operating Procedure (SOP) or making sure everyone is on the same page
- 4) Improperly documenting (1.0 instead of 0.1),
- 5) Using expired chemicals/reagents. Most errors are human and not chemical. If ever there are questions the Alliance and IDEM can always help. ★

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BY TOBY DAYS
SOURCE WATER SPECIALIST



SOURCE WATER PROTECTION

What is the Source Water Protection Program (SWPP)?

The **Source Water Protection Program** (SWPP) of the US Department of Agriculture (USDA) is a joint project with USDA **Farm Service Agency** (FSA) and the **National Rural Water Association** (NRWA), a non-profit water and wastewater utility membership organization. The SWPP is designed to help prevent pollution of surface and groundwater used as the primary source of drinking water by rural residents.

How does SWPP work?

Through NRWA, full-time rural source water technicians with practical experience are hired. The technicians work with specialists from the USDA **Natural Resources Conservation Service** (NRCS) and state and county FSA staff, to identify areas where pollution prevention is most needed. Once areas for pollution prevention are identified, technicians work with state rural water associations to create local teams made up of citizens and individuals from federal, state, local, and private organizations. These teams collaborate to create a Rural Source Water Protection plan to promote clean source water. The plan identifies voluntary actions that farmers and ranchers can install to prevent source water pollution.

The Farm Bill and Source Water Protection

In addition, 2018 Farm Bill passage expands funding for drinking water protection. This is an exciting opportunity for agriculture producers to assist rural Indiana communities in

“The SWPP is designed to help prevent **pollution** of surface and groundwater used as the **primary source** of drinking water by **rural residents**.”

protecting their sources of drinking water. The 2018 farm bill increased conservation funding and mandates that 10% of funds authorized for conservation programs, like the Environmental Quality Incentives Program and the Conservation Reserve

Program, must be used to protect sources of drinking water. That’s an incredible \$4 billion over the next 10 years. It also increases rental rate payment incentives for agricultural producers to implement practices that benefit source water protection and



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WHAT IS SOURCE WATER PROTECTION?

Source Water Protection is a planning process conducted by local water utilities, landowners and government agencies to protect drinking water sources from overuse and contamination. The process includes identification of water sources, assessment of known and potential threats of contamination, notification of the public and steps to eliminate the contamination within a Source Water Protection Area (SWPA).

PREVENTING THE POLLUTION OF THE LAKES, RIVERS, STREAMS AND GROUNDWATER THAT SERVE AS DRINKING WATER SUPPLIES NOW AND FOR FUTURE GENERATIONS.

 A SWPA is the land area that contributes water to the drinking water supply (e.g. Well or surface water intake) and where pollution from human activities or natural sources poses the greatest threat to source water quality.

 The size of the SWPA may vary based on a variety of hydrogeological, environmental, regulatory and management factors.

 Methods for delineating or mapping groundwater SWPAs around wells can differ widely from those for delineating surface water SWPAs.

 The Indiana Department of Environmental Management (IDEM) has delineated all the SWPAs for public water systems within Indiana.

FOR MORE INFORMATION



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM)

IDEM provides an online Source Water Proximity Determination Tool www.in.gov/idem/cleanwater/pages/wellhead/ that can be used for site specific inquiries regarding whether a site is located within or outside of an IDEM approved Source Water Protection Area.

For more information about IDEM's Source Water Protection efforts visit: <https://www.in.gov/idem/cleanwater/2368.htm>

UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)

For more information about USDA's Source Water Protection Program visit: <https://www.fsa.usda.gov/programs-and-services/conservation-programs/source-water-protection/index>

To find your local USDA Service Center for your FSA and NRCS representative visit: <https://offices.sc.egov.usda.gov/locator/app>

ALLIANCE OF INDIANA RURAL WATER

Alliance of Indiana Rural Water provides training and technical assistance to entities wanting to protect Indiana's water resources.

For more information contact: Toby Days, Source Water Specialist at: 317-789-4200 or by email at: tdays@inh2o.org

“In addition, 2018 Farm Bill passage expands funding for drinking water protection.”

empowers community water systems to work with their local USDA offices to identify local priorities for source water protection.

This is a great opportunity for USDA to form new partnerships with local water systems and agriculture producers, partnerships that address source water protection challenges associated with agriculture and forestry practices.

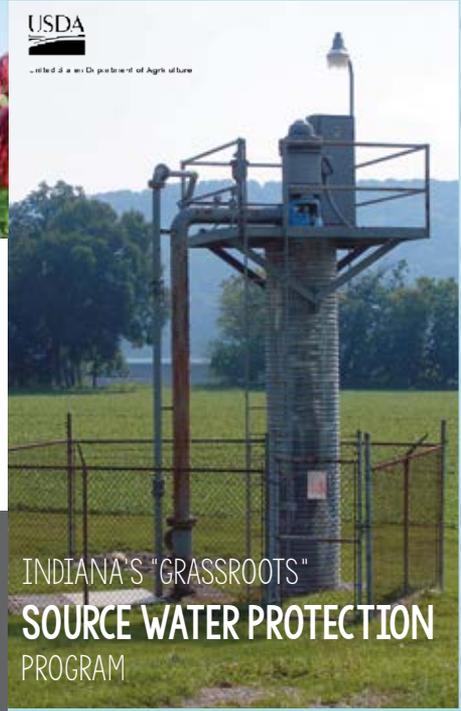
A Partner in Source Water Protection

Toby Days, Source Water Protection Specialist for the Alliance of Indiana Rural Water www.inh2o.org, the Indiana affiliate

of the NRWA. Toby's position is funded through an agreement with the USDA Farm Service Agency which provides him funding to travel across Indiana, assisting communities in protecting their source of drinking water. Working with communities throughout the state since 2002, Toby has built a trusted relationship with professionals in the water industry and can be a great asset for County USDA Offices and community water systems when prioritizing source water protection activities. Toby has also been part of the USDA State Technical

Committee to identify state-approved source water protection areas and is familiar with the conservation programs and incentive packages available to agriculture producers through NRCS and FSA.

As Toby travels throughout Indiana working on source water protection projects, he will be stopping by County USDA Offices and community water systems to introduce himself and to drop off educational materials that promote the USDA conservation programs within source water protection areas.



USDA'S 2018 FARM BILL AND SOURCE WATER PROTECTION

The 2018 Farm Bill mandates that 10% of funds authorized for conservation programs be used to protect sources of drinking water. That's an incredible \$4 billion nationally over the next 10 years! It also increases rental rate payment incentives for agricultural producers to implement these conservation practices within state approved SWPAs. This is an exciting opportunity for USDA to form new partnerships with farmers and local water systems to improve drinking water quality across Indiana.

Contact your local USDA NRCS or FSA office to determine if your farm is within a state approved Source Water Protection Area, and to determine the best conservation program to meet your landuse goals.

FARM SERVICE AGENCY

FSA's Conservation Reserve Program (CRP) has traditional enrollment and targeted options within wellhead protection areas with added incentives.

CRP provides cost-share and annual payments to convert marginally-productive cropland and marginal pastureland to perennial vegetation. Whole-field and buffer options exist to reduce soil erosion, filter nutrients and sediment, promote wildlife habitat and improve water quality.

Common CRP practices in Indiana include:

- Native Grasses and Wildflowers;
- Non-Native Grasses and Legumes;
- Tree Plantings;
- Pollinator Plantings;
- Filter Strips;
- Grassed Waterways;
- Wetland Restorations;
- and other practices.

NATURAL RESOURCES CONSERVATION SERVICE

NRCS's Conservation Stewardship Program (CSP) and Environmental Quality Incentive Program (EQIP) and others offer traditional enrollment, and EQIP offers targeted options in wellhead and surface water protection areas with added incentives.

NRCS program options provide practice and annual or easement payments to reduce soil erosion, filter nutrients and sediment, promote wildlife habitat and improve water quality.

Common EQIP and CSP practices in Indiana include:

- Cover Crops;
- Reduced Tillage;
- Nutrient Management;
- Crop Rotation;
- Livestock and Manure Management;
- Erosion Control;
- Wetland Restorations;
- and other practices.

INDIANA'S "GRASSROOTS" SOURCE WATER PROTECTION PROGRAM

USDA'S COMMITMENT TO PROTECTING SOURCES OF DRINKING WATER

This brochure was developed in partnership with:



USDA is an equal opportunity provider, employer and lender.

To learn more about the Source Water Protection program or to request a meeting with Toby contact him at:

Toby Days
Alliance of Indiana Rural Water
Source Water Specialist
555 W Jefferson St

Franklin, IN 46131
317-789-4200
tdays@inh2o.org ★

Peerless-Midwest, Inc. Returns to Local Ownership



Peerless-Midwest, Inc., a water supply contracting company with

offices throughout the Midwest, will be employee-owned as of April 1, 2021. The company was sold to SUEZ in 2016 and is now being purchased back with an Employee Stock Ownership Plan (ESOP) – returning it to local ownership and control.

“SUEZ has elected to move in a different strategic direction and that presented the opportunity for the buy-back,” noted Jim Williams, Board Chairman for the

company. “Utilizing the ESOP approach, every person in the company is a stockholder with an ownership stake. We have a talented and highly motivated group and look forward to continuing our 48-year tradition of service to the water supply industry.”

Mike Williams will serve as Chief Executive Officer (CEO) and Cathy Lance will be the Chief Operating Officer (COO) when the transaction closes on March 31, 2021. All existing employees will be retained, and the company is planning for additional personnel and facilities to accommodate growth.

To learn more, visit www.peerlessmidwest.com. ■



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PFAS DETECTION - TIME SENSITIVE

Has your system had PFAS detections at any level?

If your system has had PFAS detections at any level or there is a potential contaminat source in your area, register your utility now to be eligible to recover any current or future expenses associated with PFAS testing, treatment and/or remediation.

As background, in 2019, the National Rural Water Association engaged with the law firm of Napoli Shkolnik to file a cost recovery action so system could recover current and future expenses for testing, treatment and remediation of PFAS contamination. Additional background information is available at www.napolilaw.com/nrwa-pfas/. The sole purpose was to provide systems the opportunity to recover their expenses, but the system must be registered prior to a settlement being reached. Settlement talks are under way thus we encourage your system to review the information below about possible benefits from participation. There are three key points to this action:

- The action taken is cost recovery not punitive
- It is filed against the global manufactures of these forever compounds thus does not impact a local company who may have used them
- There is no upfront cost to register onto the rolls and benefit from this action, but a system must be registered prior to a settlement in order to benefit.

How to Register

1. Register at www.napolilaw.com/nrwa-pfas. There is also additional information on PFAS, the cost recovery action and the law firm at this site.
2. Email Sam Wade, former CEO of NRWA, at Swade@napolilaw.com.
3. Contact Sam Wade by phone at 580-917-1425.

There is no threshold to register your utility and protect your utility and ratepayers from this financial burden.

NRWA encourages your system to review this information and consider participation. Formal presentations are also available to your utility and can be arranged by contacting Sam Wade at Swade@napolilaw.com or by phone at the above number.



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BY GORDON MEYER
WATER CIRCUIT RIDER

Water Loss Audit Brain Teasers

Hello everybody, I thought I would send out a few brain teaser questions. These questions about the Water Loss Audit may not seem relevant now but will once again be on the front burner next year.

When the new year comes you may feel as if you have plenty of time to complete the audit and have it validated. Time passes quickly and the sooner you complete the audit and have it validated the less pressure there is on you.

So here we go.

1. When using the Water Loss Audit Software what does the acronym CRUC mean?

- A. Central Rate Unit Costs
- B. California Utilities Rock Calculus
- C. Customer Retail Unit Costs
- D. Customer Reaction
Usually Consistent

2. When is the next Validated Water Loss Audit due to the Indiana Finance Authority?

- A. August 1, 2022
- B. January 1, 2023
- C. August 1, 2021
- D. February 30, 2022

3. True or False

Water Loss is the difference between water supplied volume and authorized consumption, also equal to the sum of apparent and real losses.

4. What is the accounting for all water introduced into the water distribution system and then consumed to estimate volumes of water loss?

- A. Water Leak Survey
- B. Water Load Action
- C. Water Loss Audit
- D. Water Leaks Always Surface

5. What is the portion of authorized consumption that is billed and produces revenue, including billed metered consumption and billed unmetered consumption?

- A. Water Loss
- B. Income Water
- C. Revenue Water
- D. Non-Revenue Water

If you have any questions about the Water Audit, please feel free to contact me or any other of Alliance Water Team.

Some of the questions were written with information by the AWWA M36 Water Audits and Loss Control Programs Fourth Edition. ★

Answers: 1. C, 2. A, 3. True, 4. C and 5. C



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Created by Max Parrish, SCRWA Circuit Rider
 Reprinted from *water is life*, Summer 2021



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2. Confined Space
3. Chlorination
4. Trench Box
5. Langelier Index
6. Orthophosphate
7. Backhoe
8. Water Hammer
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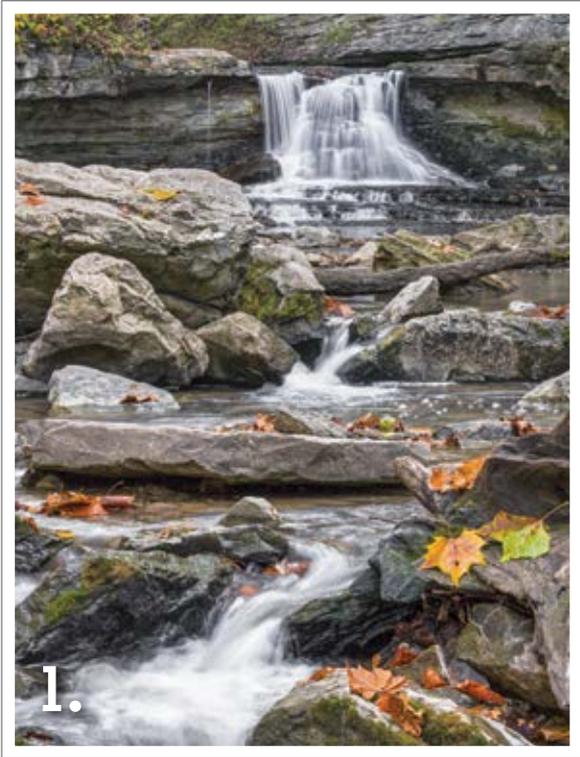
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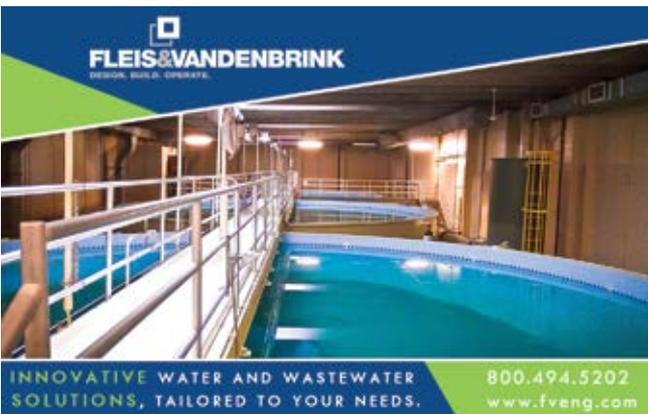
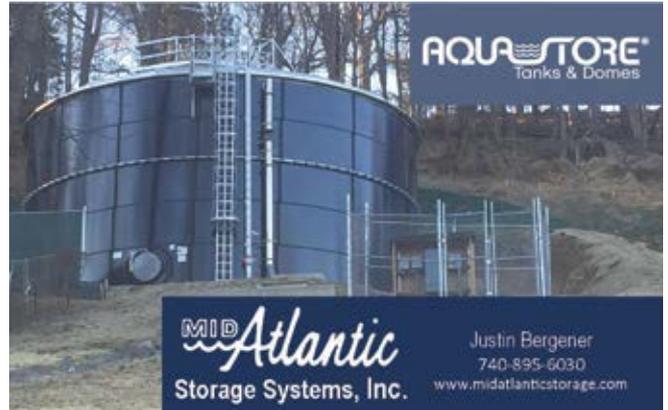


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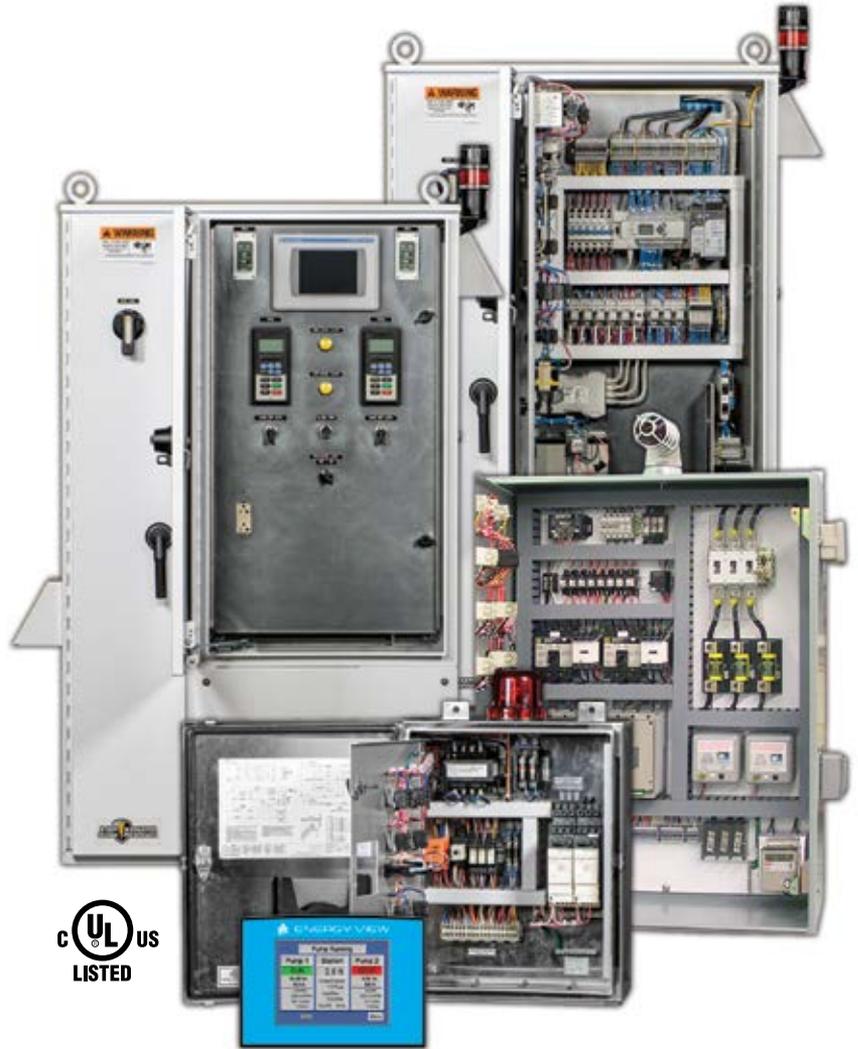
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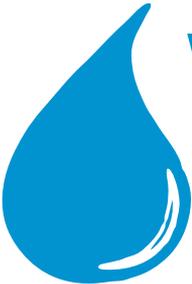
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