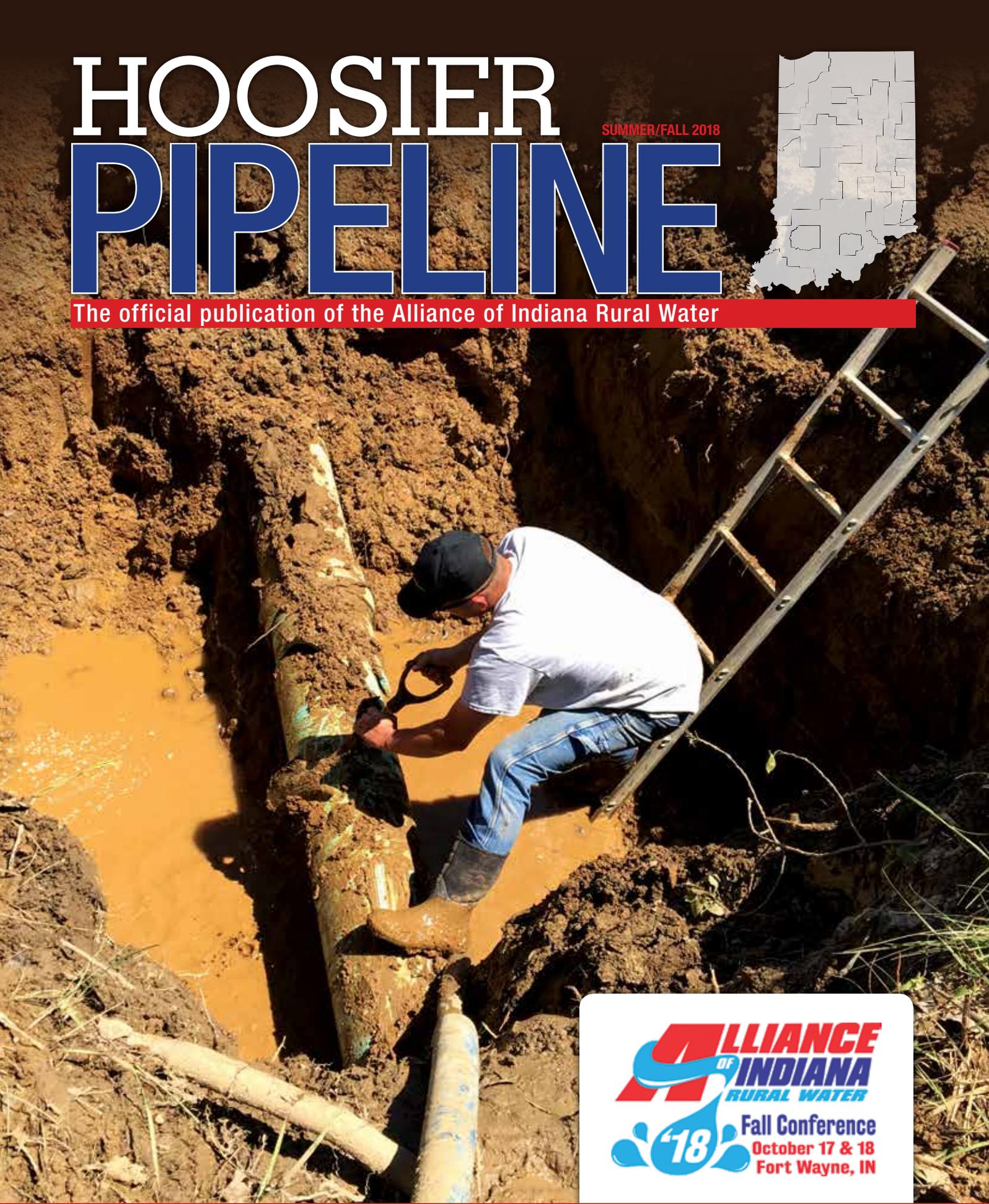


HOO SIER PIPELINE

SUMMER/FALL 2018



The official publication of the Alliance of Indiana Rural Water



ALLIANCE
OF **INDIANA**
RURAL WATER
'18 Fall Conference
October 17 & 18
Fort Wayne, IN

INSIDE: LEADERSHIP SUMMIT | SPRING CONFERENCE RECAP | FURY OF MOTHER NATURE

IFC
FP4c
Covalen
#37

Page 3 Opp IFC
FP4c
Covalen #2
#58

Page 4 Opp ToC
FP4c
Commonwealth
#22



HOOOSIER PIPELINE

SUMMER/FALL 2018



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

Todd Gardner, *City of Knox*

Vice President

David Seacat, *Ramsey Water Co.*

Treasurer

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

Secretary

Tim Doersam, *Jasper Municipal Utilities*

DIRECTORS

Darrell Baker, *Brown County Water Utility, Inc.*
 Phil Bastin, *BBP Water Corp.*

Terry Hafstrom, *Kentland Water & Sewage Works*
 Nancy Harmon,

South Henry Regional Waste District
 Floyd Ogden, *Valley Rural Utilities Corporation*

ASSOCIATE DIRECTORS

Bob Jordan, *Covalen*

Anita Amspaugh, *Midwester Engineers, Inc.*

The official publication of the Alliance of Indiana Rural Water

FEATURES

2017 SPRING CONFERENCE RECAP	15
2017 OPERATOR EXPOS	21
2018 ENVIRONMENTAL GRANT PROGRAM WINNERS	24
FALL CONFERENCE	27
THE FURY OF MOTHER NATURE	34
HELP FROM ABOVE?	39
WASTEWATER CERTIFICATION CHANGES	41
WHAT TO DO WITH STORMWATER	42

ALLIANCE STAFF



Connie Stevens
Executive Director



Rex Blanton
Wastewater Training Director



Kelly Cordell
Assistant Executive Director



Toby Days
Source Water Specialist



Joe Frazier
Water Circuit Rider



Gordon Meyer
Water Circuit Rider



Amanda Rush
Accounting Director



Kelly Strain
Office Administrator



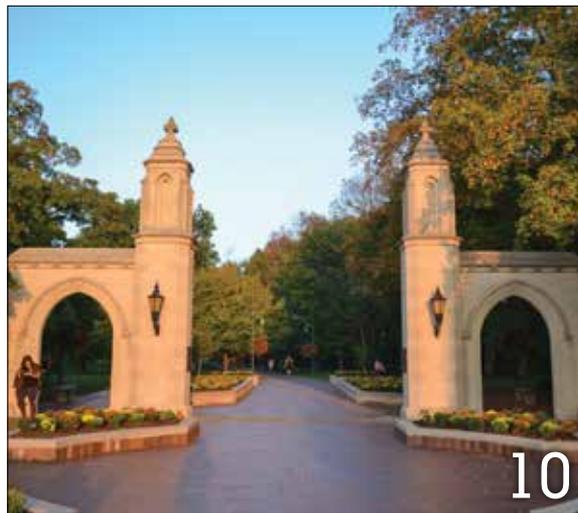
Laura Vidal
Marketing and Public Relations Director



Kevin Wenzel
Wastewater Circuit Rider



Sherri Winters
Water Programs Director



10



15

DEPARTMENTS

PRESIDENT'S MESSAGE	7
EXECUTIVE DIRECTOR'S MESSAGE	12
CROSSWORD	48
WE GET LETTERS	51
DO YOU KNOW YOUR INDIANA WATER?	52
PROFESSIONAL DIRECTORY	53
ADVERTISER INFORMATION CENTER	54

PUBLISHED BY



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

Managing Editor Christine Hanlon
 Design/layout Tabitha Robin
 Marketing Manager Dave Gill
 Advertising Co-ordinator Stefanie Hagdiakow



FFWD
FP4c
Xylem
#27



Todd Gardner
Alliance Board President

Maintenance and Improvements to the Water and Wastewater infrastructure: Why is There Such a Shortfall in Funds?

A quick look at how systems were built and funded in the past will give us the reason most systems are not equipped financially to move into the future. History shows us that most systems were built with matching funds, usually a higher percentage of government grants and a smaller percentage of local dollars. The local portion of matching funds was paid for many times over with long-term loans. This kept the cost of operations low to the community it served. As the years passed us by, we slowly paid our debt, but that debt was only on a small portion of the total cost to construct and build the system in the first place. That leads us into an era that is now seeing funding cut, with the government grant system significantly reduced.

in government grants, by self-funding depreciation. This will help systems offset some of the lost grant funding for future projects. We all fund depreciation whether we intend to or not, for example by putting money back to replace that old pickup truck. That's funding depreciation. We learn the cost of a new truck, and we put a little cash away until we have enough money to make the purchase. Funding depreciation is a lot like knowing the cost of the new truck. We need to get an idea of what makes up our systems and put a realistic cost to the replacement of those assets. The next step is determining when that asset needs to be replaced. Just like that old truck, if you plan on getting a new truck in two years you must fund that truck replacement in two years. If you have system assets that

assets will be and should be a major part of any system operator's duties.

Communicating that information is another hurdle that we as operators will need to learn how to address, just like knowing that you need to purchase a new truck to replace that old one. If you don't communicate that need or issue with the board or office, they cannot assist you in saving up for that purchase. The way boards justify setting billing rates is to take into consideration the debt, the cost of doing current business with minor increases, and future needs. It is the systems operator's responsibility to get that third and critical information to those who make the financial decisions.

“Sharing information and planning to repair and replace system assets will be and should be a major part of any system operator's duties.”

Unfortunately, we had typically set our rates too low and had no significant reason to raise them. As our long-term debt dropped, our expendable cash went up just enough for many systems to go 5, 10, even 20 years without raising utility rates.

Now, operators, managers, and boards will need to start addressing the shortfalls we are already experiencing

need to be replaced in 10 years, then you need to fund those assets.

I see our roles as operators shifting in the future to an operator/management role. Operators know the systems they run, they know the current assets within the systems, and most importantly, a good operator should know the life expectancy of those assets. Sharing information and planning to repair and replace system

1/8V4c
Strand
#25

A responsible operator will in-turn be a good manager of system assets and learn how to communicate the needs of the system to the board.

As the role of the operator evolves, it will be our duties to track system assets, plan and budget for the future of our systems, and communicate with board members and decision makers for the system we operate. The good decisions that will be made

for servicing and updating current assets within our systems will originate from a responsible operator/manager of the system. The need for good documentation and the ability to estimate prices for future repairs and upgrades is going to be challenging for many of the operators, but it will become a critical part of setting rates and planning for future repairs and projects.

“Share the information you know about the assets in the system you operate.”

As our grant funds shrink, it will take forward thinking, and better management skills to both maintain our current system assets and build up our systems for future demands. Considering the ever-changing environment in which we work, I challenge those in our industry to start thinking proactively and look to the future. Share the information you know about the assets in the system you operate. Communicate the current and projected needs with the decision makers for your system.

All good communication takes two things: a person sharing the information and a person listening to what is being communicated. As we train our operators to be better at managing the systems for which they work, they need to have an open-minded decision-maker that will listen. For systems to evolve and be more self-sufficient it will take people from both sides: the operator, as well as the accountants, clerk treasurers, boards, etc., working together to track, manage and maintain current and future system assets. Good operators working with good decision-makers can build and maintain a system that they will be proud to pass on to the next generation.

With that said, how do we help decision-makers broaden their knowledge about our infrastructure and the future our utility? For starters, the Leadership Summit in Bloomington on August 2 and 3 will be a big help. The Alliance of Indiana Rural Water is well known for training water and wastewater operators. They are now offering the same for the decision makers. I will be there with a few of my board members. I hope to see you there! ★

FFWD
1/214c
Total Piping
#8

FFWD
FP4c
VEGA
#1

LEADERSHIP SUMMIT

Focus | Perspective | Empowerment



Maintaining a good quality of life for Indiana citizens is an ongoing objective of local community leaders. Being able to make educated decisions leads to the utility's ability to provide a safe supply of drinking water and proper wastewater disposal for its customers. Sound business practices for operation and proper management of a utility are essential in influencing long-term sustainability of the utility.

Leadership Summit will arm you with the skills necessary to achieve these goals and to lead your utility along the path to peak performance.

SPACE IS LIMITED! REGISTER ONLINE – WWW.INH2O.ORG

August 2 & 3, 2018

Monroe County Convention Centre Bloomington, IN

JOIN US for 2 days of focused learning, specifically for water & wastewater utility decision makers!



AGENDA

Thursday, August 2

9:00 am _____ Opening Remarks
9:30 am _____ Classroom Session
10:30 am _____ Break
10:45 am _____ Classroom Session
11:45 am _____ Break
Noon _____ Luncheon
1:00 pm _____ Break
1:15 pm _____ Roundtable Discussions
2:45 pm _____ Break
3:00 pm _____ Questions & Wrap Up
4:00 – 5:00 pm _____ Reception

Friday, August 3

7:30 am _____ Hot Breakfast Buffet
8:30 am _____ Classroom Session
9:30 am _____ Break
9:45 am _____ Classroom Session
10:45 am _____ Break
11:00 am _____ Keynote Address
Noon _____ Luncheon
1:00 pm _____ Classroom Session
2:00 pm _____ Break
2:15 pm _____ Classroom Session
3:15 pm _____ Questions & Wrap Up

SUMMIT TOPICS

- Public Perception & Industry Regulations and Policies
- Aging Workforce, Retirements, & buy-outs
- Succession Planning
- HR – Effective Employee Evaluations
- Cybersecurity Management & Fraud
- Community and Infrastructure Stability

HOTEL ACCOMMODATIONS

Courtyard Bloomington

Connected to the Convention Center
310 S. College Avenue, Bloomington, IN
Reservations Phone: 812-335-8000

Hyatt Place Bloomington Indiana

217 W. Kirkwood Avenue, Bloomington, IN
Rate: \$124/night
Reservations Phone: 812-339-5950

ATTENDEE REGISTRATION

Registration also available online:
www.inh2o.org

Utility/Company Name

Address

City/State/Zip

Phone Number

E-Mail Address

Attendee Name/Registration Type

Attendee Name/Registration Type

Attendee Name/Registration Type

RATES

\$150 Full
\$75 Spouse

**Space is Limited,
Register Today!**

PAYMENT INFO

Send Invoice **TOTAL \$** _____

Enclosed is my check#

Credit Card _____

Name on Card _____

CVV Number/Expiration Date _____



Connie Stevens
Executive Director

Spreading the Word about Water and Wastewater

Recently, I had the honor of assisting South Henry Regional Waste District's Tricia Haler and Nancy Harmon in presenting a water/wastewater program to the second, third and fourth grade students at Tri Elementary School. We spent 40 minutes in each classroom talking about the water cycle, water pollution, water treatment and wastewater treatment. During that time, the students worked together to perform a water filtration experiment where they learned how the earth's layers naturally clean water during the water cycle. We talked about using the same water today as the dinosaurs used a million years ago and how there are so many people, buildings and roads today that we have to help filtrate the

water and treat the wastewater before putting it back out into the rivers and streams. The students were engaged and asked many good questions. One little boy said his Dad didn't know why he had to pay for water because most of the earth was made up of water. As you can imagine, I was excited to explain that to him. I even asked him to repeat my explanation back to me before I left the classroom. He smiled and repeated it exactly as I told him. I had to contain myself from doing the "happy dance" as I left the classroom. I get a big thrill out of getting more people to understand how important water is in everything we do. I am confident that these kids will go home and tell their parents and grandparents.

I know this is not a new concept and others have done this around the state, but this was so much fun and I felt like it really mattered to those kids. Tricia and Nancy enjoyed the interaction with the kids. The teachers and principal was so impressed that they invited them back for next year. It appears this may be an annual event for them.

"I am confident that these kids will go home and tell their parents and grandparents."

South Henry Regional Waste District (SHRWD) also arranged to talk with a few students in the Tri High School Industrial Mechanics class who may be interested in environmental career opportunities in water and wastewater industry. We talked about the different categories of jobs and about the Water/Wastewater Apprenticeship Program. Kuddos to SHRWD for taking the time to work on this project.

It will take some time to reap the benefits of this project, but I believe it will pay big dividends in the future of water and wastewater. The more our customers and communities understand how important this industry is, the more understanding they will be when their water or wastewater bill needs to increase.

1/4H4c
HWC
#4



The Alliance of Indiana Rural Water plans to attend Career Days and Job Fairs to promote the Water/Wastewater Industry. If you know of these events going on in



your county and would like for us participate, please contact me with the information.

If any of you would like to do a water cycle, water/wastewater treatment



presentation at your local schools and would like some assistance with that, just give us a call or send an email. We would be honored to join you. ★

1/2H4c
Miller Pipeline
#13

1st Half
FP4c
S&K
#6



2018 Spring Conference Recap

Thanks to you, we surpassed last year's record, with almost 790 people in attendance! Thank you to everyone who participated in the conference at the beautiful French Lick Resort. This year we took advantage of the newly added clay shooting range at the resort on Tuesday afternoon. Then, later in the evening, we welcomed everyone on with dinner and drinks; it was a great time to mingle and get the "lay of the land."

Wednesday morning we hit the ground running and participants started off to their special track of classes – administrative, water, or wastewater. That afternoon our Awards Luncheon began with a special message from National Rural Water Association's Senior Vice President, Kent Watson, just before we honored the best of the best in the industry and awarded SIX outstanding students with \$1,500 scholarships! Wednesday evening included our exhibitor reception complete with a food, drinks, and prizes. We also held round two of our Regional Taste Test Competitions. Greencastle Department of Water Works will advance to the Best Tasting Water in Indiana contest to be held in Fort Wayne at the Fall Conference. As if that wasn't enough, we ended the evening with pizza, bowling, and drinks! It was a great time to wind down from a full day of classes while mingling with peers and friends.

Thursday, everyone woke up to a delicious hot breakfast buffet before starting in on another day of classes. We wrapped up the conference by announcing the big Sportsman's Raffle grand prize winner. Over \$5,500 in tickets was sold for the Sportsman's Raffle, the proceeds of which were donated to WaterPac! This year's winner was Debbie Keith from BBP Water, who walked away with a Weber Grill worth over \$2,500! Kelly Clemons from the City of Knox claimed the shotgun raffle, and Mike Perry from the Town of Charlestown won the all-inclusive trip for two to the NRWA conference in Fort Worth, Texas – sponsored by Covalen & Midwestern Engineers, Inc. Thank you to all our attendees, speakers, vendors, and sponsors for helping make this another fantastic event! ★





1/2H4c
Suez
#26

1/2H4c
Master Meter
#55

1/2H4c
Maguire
#50

1/2H4c
North American
#53

2018 Alliance Awards

All awards presented by President, Todd Gardner or Executive Director, Connie Stevens, unless otherwise indicated.



Water Systems Operations Specialist of the Year
Bill Stewart, South Harrison Water Corporation



Wastewater Operations Specialist of the Year
Kelly Clemons, City of Knox



Manager of the Year
Bruce Badger, Tell City Wastewater Treatment Plant



Administrative Professional of the Year
Shannon, Green, Pike Gibson Water



Associate Member of the Year
Utility Supply Company



President's Choice Award
Adam Sams, LaGrange County Regional Utility District



Steward of the Environment Award
Richard Burch, PE,
Midwestern Engineers, Inc.

CONGRATULATIONS
to our award winners!



\$1,500 Scholarship Recipient
Katelyn Cook, Daughter of Susan Cook – Town of Bruceville



\$1,500 Scholarship Recipient
Oakleigh Collier, Daughter of Scott Manley – City of Martinsville



\$1,500 Scholarship Recipient
Haylie Williamson, Daughter of Travis Williamson – City of Hartford City



\$1,500 Scholarship Recipient
Drew Jacob, Son of Dale Jacob – Patoka Lake Water & Sewer District



\$1,500 Scholarship Recipient
Claire Poling, Daughter of Alan Poling – Rising Sun Municipal Utilities



\$1,500 Scholarship Recipient
Kelsi Warfield, Daughter of Paul Warfield – City of Garrett

1/2H4c
Utility Service
#57

2018 Operator Expos Recap

SOUTHERN – HUNTINGBURG, IN • NORTHERN – AKRON, IN
THURSDAY, MAY 31, 2018

Our Southern Expo was held on May 17, in Huntingburg, Indiana and was a huge success once again! We had over 220 people in attendance and 18 demonstrating companies. Held on May 24, in Akron, Indiana, our Northern Expo was also a big success! We had over 230 people in attendance and 16 demonstrating companies. Both events featured our 'famous' hog roast, donated by Water Solutions Unlimited while the Schnitzelbank & Jonsey's Junction catered the rest of the food. Meter toss contests and backhoe rodeos provided chances to win cash and prizes, and didn't disappoint on the fun!

Huntingburg Meter Toss Winners

Powder Puffs: Anna Bogan
Young Bucks: Austin Nevel
Grizzly Ol' Veterans: Doug Dunlevy

Huntingburg Equipment Rodeo Winners

William Rainey and Isaac Heeke each claimed \$50 when they won the Equipment Rodeos sponsored by Southeastern Equipment Company and Whayne Supply.

Akron Meter Toss Winners

Powder Puffs: Marcie Coe
Young Bucks: Peni Fatele
Grizzly Ol' Veterans: Chris Lalonde

Akron Equipment Rodeo Winner

Peni Fatele claimed \$50 when he won the Equipment Rodeo sponsored by RPM Machinery.

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! ★





1/2H4c
GRIPP
#20

1/2H4c
Zoeller
#29

1/2H4c
Franklin Miller
#32

Announces 2018 Environmental Grant Program Winners



Submitted by Toby Days, Source Water Specialist

INDIANA AMERICAN WATER announced today that it is awarding \$12,650 to four organizations across the state as part of its 2018 Environmental Grant Program. Winners include the City of Terre Haute, Tippecanoe County Partnership for Water Quality, Floyd County Farm Bureau, and the Shelbyville High School Earth Club.

Established in 2005, the company's Environmental Grant Program offers funds for innovative, community-based environmental projects that improve, restore or protect the watersheds, surface water and/or groundwater supplies in the communities it serves.

"Although we received a dozen entries this year as a part of this program, we have selected four projects we felt best met the criteria and will have the greatest impact on local water sources in the areas we serve," said Deborah Dewey, president of Indiana American Water.

"Water resources play a significant role in the success of every community we serve," Dewey continued. "These grants support organizations and individuals across the state that are making a difference through their efforts to ensure clean water will continue to be available now and for future generations."

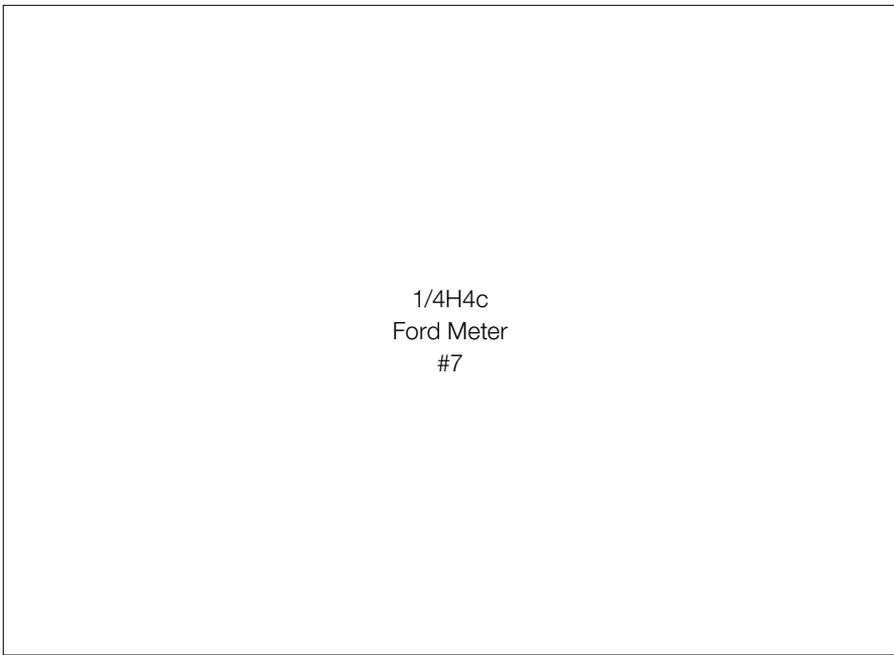
All grant recipients will submit a report at the end of the year to American Water regarding how their grant was used to achieve specific environmental goals.

ENVIRONMENTAL GRANT PROGRAM WINNERS – 2018
City of Terre Haute – Awarded \$5,000
Stormwater Community Watch Program – The City of Terre Haute is partnering with Team Storm, a local group of children involved with FIRST (For Inspiration and Recognition of Science and Technology) LEGO League, a not-for-profit public charity designed to inspire

young people's interest and participation in science and technology, and to motivate them to pursue education and career opportunities in STEM (Science, Technology, Engineering and Math) fields. Team Storm met with local professionals, engineers, and regulators to research and develop the project, which will involve marking curb inlets with QR codes, making it easier to report illicit discharges and illegal dumping. The project will help enhance the City's response time and reduce or prevent pollutants from entering local waterways in the Wabash River, Thompson Ditch, and Lost Creek watersheds.

Tippecanoe County Partnership for Water Quality – Awarded \$4,000
Expansion of the Wonders on the Wabash Resource Program – The Tippecanoe County Partnership for Water Quality will use proceeds from this grant to purchase an enclosed mobile trailer for equipment used as a part of numerous hands-on field learning experiences and activities on the Wabash River. The TCPWQ programs educate both youth and adults on the impact they have on waters and watersheds as a part of their efforts to conserve and protect the area's most valuable water resource.

Floyd County Farm Bureau – Awarded \$3,200
My Little Farm Water Station Project – Floyd County Farm Bureau will use grant funds to develop a water station as part of the My Little Farm interactive exhibit at the Floyd County 4-H Fair during the first week of June each year. The exhibit uses hands-on experiences to teach the public about a variety of farm issues. The water station will educate the public on how to keep our streams and



1/4H4c
Ford Meter
#7



waterways clean, avoid pollution in storm water runoff, and how to safely recycle materials and substances that might otherwise end up in storm runoff. Several thousand attendees are expected to take advantage of the exhibit during 2018.

**Shelbyville High School
Earth Club – Awarded \$450**

Tree Planting & Maintenance Project –
The Shelbyville High School Earth Club under the direction of teacher Chris Lux is using its funds to engage more than six dozen high school students in a project that provides native trees to local residents. The project will also allow students to prune, mulch, and plant trees in the organization’s nursery and maintain those planted throughout the watershed from previous years. In the past, trees were often planted just to beautify cities and towns, however, more recent research has shown that trees also have a significant positive impact on the environment, including storm water runoff, air quality and energy conservation.

About Indiana American Water

Indiana American Water, a subsidiary of American Water, is the largest investor-

owned water utility in the state, providing high-quality and reliable water and/or wastewater services to approximately 1.3 million people. With a history dating back to 1886, American Water is the largest and most geographically diverse US publicly traded water and wastewater utility company. The company employs more than 6,900 dedicated professionals who provide regulated and market-based drinking water, wastewater and other related services to an estimated 15 million people in 46 states and Ontario, Canada. American Water provides safe, clean, affordable and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit amwater.com and follow American Water on *Twitter*, *Facebook* and *LinkedIn*.

Congratulations to Team Storm

The Alliance of Indiana Rural Water has been following Team Storm as they compete in the First LEGO League Challenge. They have come up with an innovative way to mark storm drains and have successfully taken their unique idea all the way to the First LEGO League’s World Champions that was held on April 25, 2018 in Detroit Michigan.

The kids did great in Detroit. They

were ranked in the top 10 for best overall teams, they came in 8th place in the robot game (out of 106 Champion teams) and brought home a third place trophy for mechanical design (the trophy is a LEGO high-five, which is pretty cool).

Their innovative storm drain marking idea shows great promise in reporting illicit discharges to waterways and has the potential to greatly improve water quality. Team Storm presented their storm marking idea to the city of Terre Haute in December of 2017. The Mayor, water treatment facility and wastewater departments of Terre Haute all felt Team Storm’s idea could improve the water quality in and surrounding the city of Terre Haute. The City of Terre Haute applied and received a \$5,000 grant from Indiana American Water to implement Team Storm’s storm marking idea throughout the City.

Team Storm is thrilled that their solution is going to be implemented in their hometown and hope this is the first of many cities that implement their project. If you would like more information on how you can get a storm drain marking project in your community contact Team Storm. ★

fl100teamstorm@gmail.com

www.facebook.com/fl100teamstorm

1/4B4c
Advanced Aquacultural
#23

1/4V4c
Water Solutions
#10

1/4V4c
Pittsburg Tank
#12

1/4V4c
GRW
#19

1/4V4c
BLN
#39

Dear Attendee:

Please join us for our
2018 Annual Fall Conference
in **Fort Wayne, Indiana** on
October 18 & 19.



Here's what you can expect this year:



A hospitality gathering on Tuesday evening promising fun and camaraderie, along with food and drinks!



Earn up to **10 Water and Wastewater CEUs**, and receive a **FREE Conference T-Shirt!**



An Exhibit Hall filled with exhibitors — where you can see all the **new products** related to our industry and hear about new and exciting **services offered to utility professionals.**



Each day offers an **administrative track** of classes in addition to **water and wastewater tracks.**



The **"Best Tasting Water in Indiana" Taste Test and Luncheon** on Wednesday will declare one utility's water the tastiest in Indiana! Winners from the 4 regional taste tests throughout the state will compete.



Plan on having some fun during the reception in the Exhibit Hall on Wednesday evening. As classes conclude for the day, we invite everyone to gather in the exhibit hall for games, drinks, food, and the Sportsman's Raffle!



Later Wednesday evening, join us for a **hospitality** event at the host hotel. We'll have snacks, drinks, friends and a lot of fun!



The **Annual Membership Meeting** on **Thursday** will include **board elections for THREE positions.** Registration forms to vote or to run for the board are inside and also on our website.



Be sure to be there for Thursday's **GRAND PRIZE DRAWING - Worth over \$1,500!**

You **really** don't want to miss out on this year's Fall Conference—so, **don't hesitate to make your plans to attend.**

We look forward to seeing you on **October 17 & 18** at the **Grand Wayne Convention Center**
120 W. Jefferson Blvd. in Fort Wayne!

Fall Conference



October 17 & 18 Fort Wayne, IN



Technical Sessions

What follows is a *tentative* list of topics and invited speakers.

WEDNESDAY, OCTOBER 17

THURSDAY, OCTOBER 18

8:00 a.m. - 9:00 a.m.

Water Session

Basic Generator & Transfer Switch Maintenance (Part 1)
Mark Baker, Evapar

Wastewater Session

Understanding Chlorination
Don Van Veldhuizen, CET - USABlueBook

9:15 a.m. - 10:15 a.m.

Water Session

Basic Generator & Transfer Switch Maintenance (Part 2)
Mark Baker, Evapar

Wastewater Session

Innovative Technologies for Keeping Lagoons Within the EPA Compliance
Wade Stinson - Wastewater Compliance Systems

10:45 a.m. - 11:45 a.m.

Water Session

R.T.C.R. for the RTRC
Andrea Lengerich & Stacy Jones - IDEM

Wastewater Session

Aeration Optimaization = Cost Savings
Rachel Runge, P.E.
Commonwealth Engineers, Inc.

1:15 p.m. - 2:15 p.m.

Water Session

How Open Source GIS Can Help Your Utility
Philip Bernard - Frontier Geospatial, LLC

Wastewater Session

Plymouth Wastewater Treatment Plant Renovation 2018 (Part 1)
Mark M. Sullivan, P.E. - Midwestern Engineers, Inc.

2:45 p.m. - 3:45 p.m.

Water Session

Water Service Lines PE-PEX-CU
Austin Gentry - REHAU

Wastewater Session

Plymouth Wastewater Treatment Plant Renovation 2018 (Part 2)
Mark M. Sullivan, P.E. - Midwestern Engineers, Inc.

8:30 a.m. - 9:30 a.m.

Water Session

Found It!
Finding Lines before your Backhoe Does
Don Van Veldhuizen, CET - USABlueBook

Wastewater Session

Using algal biofilms to treat onsite commercial wastewater at a truck stop in rural Indiana : *Case Study*
Daniel Johnson - One Water

10:00 a.m. - 11:00 a.m.

Water Session

Lead Program Management Best Practices
Megan Glover - 120WaterAudit

Wastewater Session

Gravity Works (Newton Was Right)
Don Mink, P.E.

11:15 a.m. - 12:15 p.m.

Water Session

Filter Media Cleaning
Mike Ricks - Water Solutions Unlimited

Wastewater Session

Review of Environmental Considerations at IDEM with USEPA
Cheryl Gonzalez - Barnes & Thornburg, LLP

1:30 p.m. - 2:30 p.m.

Water Session

Analyzing Indiana's Drinking Water Operator Certification Exams.
The Past, Present, and Future Efforts to Make Applicable Exams.
Jeremy Ferguson - IDEM

Wastewater Session

Activated Sludge – Control Your Process
Don Van Veldhuizen, CET - USABlueBook

2:45 p.m. - 3:45 p.m.

Water Session

Covering Your Assets with Accurate GIS Utility Mapping
Mark Butler, Banning Engineering

Wastewater Session

UV Basics Through Advanced Oxidation Processes
Bruce Stevens, Aquionics Inc.

AGENDA AT A GLANCE

Tuesday, October 16, 2018

Noon Board of Directors Meeting

to 3:00 pm Early Registration /
8:00 pm Attendee Packet Pick-Up

to 6:00 pm Pre-Conference Hospitality Event
8:00 pm (fun, food, & drinks)

Wednesday, October 17, 2018

to 7:00 am Registration Desk Open
5:30 pm in Lobby

7:45 am Conference Kick-Off
Coffee & Donuts

to 8:00 am Concurrent Training Sessions
9:00 am

to 9:00 am Break - Foyer
9:15 am

to 9:15 am Concurrent Training Sessions
10:15 am

to 10:15 am Exhibit Hall Grand Opening
10:45 am

to 10:45 am Concurrent Training Sessions
11:45 am

to 11:45 am Water Taste Test Luncheon
1:15 pm

to 1:15 pm Concurrent Training Sessions
2:15 pm

to 2:15 pm Break in Exhibit Hall
2:45 pm

to 2:45 pm Concurrent Training Sessions
3:45 pm

to 3:45 pm Reception in Exhibit Hall
5:15 pm Fun, Food, Drinks & Sportsman's Raffle!

to 8:00 pm Hospitality Room - Hilton Hotel
10:00 pm

Thursday, October 18, 2018

to 7:00 am Registration Desk Open
3:00 pm in Lobby

to 7:00 am Hot Breakfast Buffet in Exhibit Hall
8:30 am

8:00 am Annual Membership Meeting
WIN a Kindle Fire!

to 8:30 am Concurrent Training Sessions
9:30 am

to 9:30 am Break in Exhibit Hall
10:00 am

to 10:00 am Concurrent Training Sessions
11:00 am

to 11:00 am Break in Exhibit Hall
11:15 am

to 11:15 am Concurrent Training Sessions
12:15 pm

to 12:15 pm GRAND PRIZE DRAWING
12:30 pm in Exhibit Hall

to 12:30 pm Lunch - On Your Own
1:30 pm

to 1:30 pm Concurrent Training Sessions
2:30 pm

to 2:30 pm Break - Shotgun Raffle
2:45 pm

to 2:45 pm Concurrent Training Sessions
3:45 pm

5 TOTAL CONTACT HOURS WEDNESDAY

5 TOTAL CONTACT HOURS THURSDAY



We are pleased to welcome all Regional Sewer and Water Districts to our Fall Conference! As partners in bringing clean water and sanitary sewers to our rural and suburban Indiana communities, we value the participation of our friends from the IRSDA.

Technical Registration

October 17 & 18, 2018

Please print or type.

List all attendees and indicate the type of registration desired.

On-line registration is available with invoicing option!

Please email or fax completed forms:

Email: alliance@inh2o.org ● Fax: 317-736-6676

Host Hotel
 Hilton Fort Wayne
 1020 South Calhoun Street
 Fort Wayne, Indiana
RESERVATIONS:
 260-420-1100
www.hiltonfortwayne.com
ROOM RATE: \$129/night
GROUP CODE: ARW
Room Block Rate Expires 9/25/18



Utility / Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Please list ALL Attendees and specify registration type for each:

	FIRST-TIME ATTENDEE	FULL	WED. ONLY	THURS. ONLY	SPOUSE/ GUEST
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				

Registration Rates

Full Registration

Two (2) days of technical sessions; and Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access, Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Room Event (Wed.); Hot Breakfast Buffet (Thurs.)

Wednesday ONLY

Technical sessions; Exhibit Hall Access; Taste Test Luncheon and Reception; Hospitality Room Event

Thursday ONLY

Technical Sessions; Exhibit Hall Access; Hot Breakfast Buffet

Spouse / Guest Registration

Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access; Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Room Event (Wed.); Hot Breakfast Buffet (Thurs.)

	Member		Non-Member	
	Before October 3, 2018	After October 3, 2018	Before October 3, 2018	After October 3, 2018
Full Registration	\$140	\$165	\$200	\$225
Wednesday ONLY	\$95	\$120	\$130	\$155
Thursday ONLY	\$85	\$110	\$120	\$145
Spouse / Guest Registration	\$55	\$80	\$90	\$115

PLEASE INDICATE NUMBER OF ATTENDEES PLANNING TO ATTEND WEDNESDAY'S AWARDS LUNCHEON.



Please list any dietary restrictions:

Method of Payment

Please send invoice Enclosed is my check # _____

Credit Card # _____ Exp Date _____

Name on Card _____ Billing Zip _____

CVV# _____ Signature _____

Total \$

Registration forms must be returned to the Alliance office no later than October 3, 2018 for "Early Bird" registration prices.

Any refunds will incur a \$15 cancellation fee ■ No refunds after October 3, 2018.

Phone: 317-789-4200 ● Fax: 317-736-6676 ● Email: alliance@inh2o.org ● Address: P.O. Box 789, Franklin, IN 46131

Admin. / Regional Districts

October 17 & 18, 2018

Please print or type.

List all attendees and indicate the type of registration desired.

On-line registration is available with invoicing option!

Please email or fax completed forms:

Email: alliance@inh2o.org • Fax: 317-736-6676

Host Hotel
 Hilton Fort Wayne
 1020 South Calhoun Street
 Fort Wayne, Indiana
RESERVATIONS:
 260-420-1100
 www.hiltonfortwayne.com
ROOM RATE: \$129/night
GROUP CODE: ARW
Room Block Rate Expires 9/25/18



Utility / Company _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Email _____

Please list **ALL Attendees** and specify registration type for each:

Name	FIRST-TIME ATTENDEE	FULL	WED. ONLY	THURS. ONLY	SPOUSE/ GUEST
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				
Name _____	<input type="checkbox"/>				

Registration Rates

Full Registration

Two (2) days of Admin. / Reg. Districts Sessions; and Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access, Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Room Event (Wed.); Hot Breakfast Buffet (Thurs.)

Wednesday ONLY

Admin. / Reg. Districts Sessions; Exhibit Hall Access; Taste Test Luncheon & Reception; Hospitality Room Event

Thursday ONLY

Admin. / Reg. Districts Sessions; Exhibit Hall Access; Hot Breakfast Buffet

Spouse / Guest Registration

Pre-Conference Hospitality Event (Tues.); Exhibit Hall Access; Taste Test Luncheon (Wed.); Reception (Wed.); Hospitality Room Event (Wed.); Hot Breakfast Buffet (Thurs.)

Member		Non-Member	
Before October 3, 2018	After October 3, 2018	Before October 3, 2018	After October 3, 2018
\$140	\$165	\$200	\$225
\$95	\$120	\$130	\$155
\$85	\$110	\$120	\$145
\$55	\$80	\$90	\$115

PLEASE INDICATE NUMBER OF ATTENDEES PLANNING TO ATTEND WEDNESDAY'S AWARDS LUNCHEON.

Please list any dietary restrictions:

Method of Payment

Please send invoice Enclosed is my check # _____

Visa MasterCard Card # _____ Exp Date _____

Name on Card _____ Billing Zip _____

CVV# _____ Signature _____

Total \$

Registration forms must be returned to the Alliance office no later than October 3, 2018 for "Early Bird" registration prices.

Any refunds will incur a \$15 cancellation fee ■ No refunds after October 3, 2018.

Phone: 317-789-4200 • Fax: 317-736-6676 • Email: alliance@inh2o.org • Address: P.O. Box 789, Franklin, IN 46131

Administrative / Regional Districts Registration

Administrative / Regional Districts

Admin. / Regional Districts Sessions What follows is a tentative list of topics and invited speakers.

WEDNESDAY, OCTOBER 18

8:00 a.m. - 9:00 a.m.

Current Issues Involving Contracts, Rates & Water Service Territories

J. Christopher Janak - Bose McKinney & Evans LLP

This session will update board members and utility employees on current legal issues facing utilities.

IRSDA Meeting / Legislative Updates

Ted Stubbs, Brookville Lake RSD
Connie Stevens, Alliance of Indiana Rural Water



9:15 a.m. - 10:15 a.m.

Your Water / Wastewater Operator: The Super Hero Next-Door (Part 1)

Tonya Bronleewe - Environmental Finance Center Network

After this session, attendees will be able to: 1. Explain the importances of the role of certified operators; 2. Develop an outline for succession and retention plans for new operators.

10:45 a.m. - 11:45 a.m.

Your Water / Wastewater Operator: The Super Hero Next-Door (Part 2)

Tonya Bronleewe - Environmental Finance Center Network
Continuation from part 1.

1:15 p.m. - 2:15 p.m.

Coaching a System through a Rate Increase

Don Van Veldhuizen, CET - USABlueBook

Learn about different rate structures and how to apply a fair rate based upon demographics and economy. The class will also include when to involve the public and how best to communicate in difficult situations.

2:45 p.m. - 3:45 p.m.

Reasons Not to Sell Your Utility

Steven Brock - Therber Brock & Associates, Inc.

Learn the disadvantages to selling a utility to balance out the advantages of selling a utility when evaluating the decision of whether or not to sell.

THURSDAY, OCTOBER 19

8:30 a.m. - 9:30 a.m.

Finances & Recouping Loses

Todd Gardner - BBP Water Corp.

This class will cover perspectives from operators and administrators' points of view to help the administrator learn how to ask the right questions to get a needs lists from your operators for budgeting. Learn how to determine what your losses are currently and how to minimize losses to help keep finances in check.

10:00 a.m. - 11:00 a.m.

AMR & AMI Uncensored

Ben Christiansen & Scott Dunlap - Utility Supply Company

This session will help utilities understand the direction the AMR/AMI industry is going, and the tremendous financial impact it has on a utilities revenue stream. All members of the utility will benefit from understanding the long term implications of an AMI investment.

11:15 a.m. - 12:15 p.m.

Intro to GIS, GPS & Asset Management

Philip Bernard - Frontier Geospatial, LLC

This class is designed to teach beginners the terminology and basics of GIS, GPS, and asset management.

1:30 p.m. - 2:30 p.m.

How Automation in Payment Processing Increases Customer Satisfaction & Reduces Costs

J. Brad Lewis, F& E Payment Pros

Various and new technologies in billing and payment processing will be discussed.

2:45 p.m. - 3:45 p.m.

Long-Term Capital Planning and Asset Management

Ross Hagen - Umbaugh

This session will examine the importance of budgeting and financial forecasting for utilities & methods for putting those practices into place as well as utilizing asset management planning to help with utility infrastructure replacement strategies.

We are pleased to welcome all Regional Sewer and Water Districts to our Fall Conference! As partners in bringing clean water and sanitary sewers to our rural and suburban Indiana communities, we value the participation of our friends from the IRSDA.





418 Fall Conference
October 17 & 18
Fort Wayne, IN

SAVE THESE DATES!

Room Block Now Open!

Registration Form Inside!

LODGING

HOST HOTEL

Hilton - Fort Wayne
at the Grand Wayne Center
1020 South Calhoun St.

FORT WAYNE
INDIANA, 46802

RESERVATIONS:

260-420-1100
www.hiltonfortwayne.com

ROOM RATE:

\$129/night

PARKING:

\$8/night

GROUP CODE:

ARW

ROOM BLOCK RATE
expires 9/25/18

Overflow Hotel Info
available on our
website

ATTENDEE REGISTRATION INFORMATION

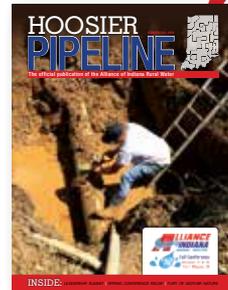
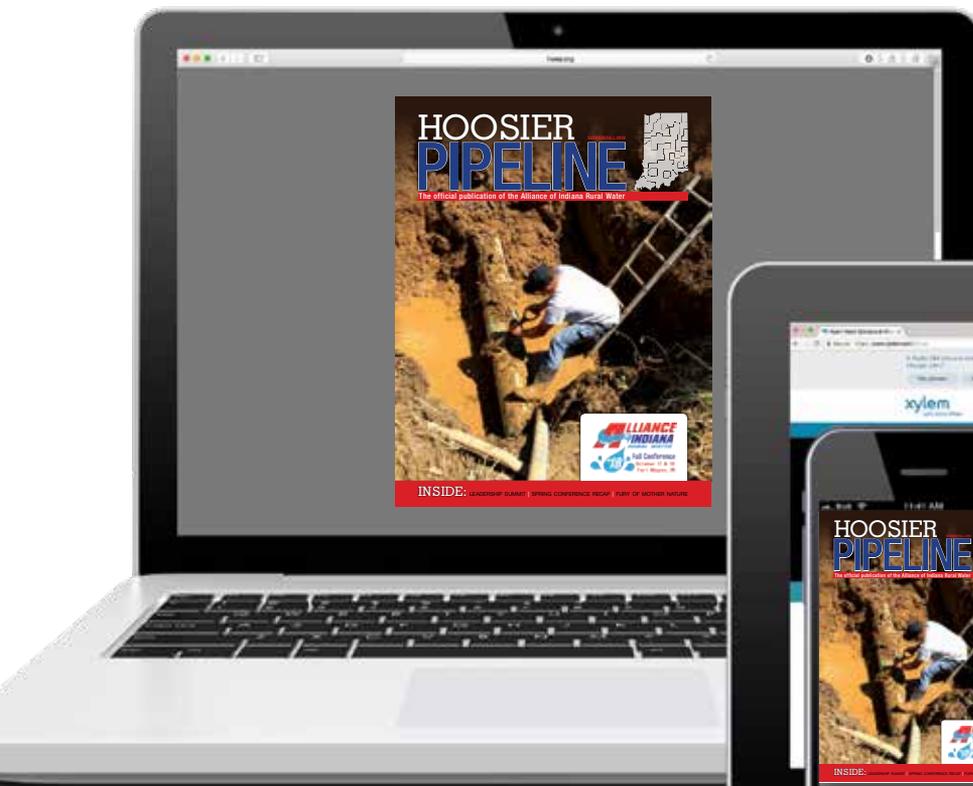
1/2H4c
Hawkins
#3

HOOISIER PIPELINE



The official publication of the Alliance of Indiana Rural Water

Interactive Edition
Available Online



With print and electronic communication operating hand-in-hand you can take advantage of the fact that the *Hoosier Pipeline* is also available online in a highly interactive format.

MOBILE, IPAD, IPHONE VERSIONS INCLUDED!

To experience the *Hoosier Pipeline* online, visit www.inh2o.org



By Joe Frazier,
Water Circuit Rider



THE **FURY** OF MOTHER NATURE



Now that it has decided to warm up, which most of us are glad, we get some thunderstorms with the warm weather. Such was the case of the morning on May 10, 2018. There were some pretty strong storms moving throughout the state during

the night and earlier in the morning. The storms on the morning of May 10 caused some unusual problems for the water department in Pendleton, Indiana. Ryan who was the person on call that morning received a phone call about low water pressure in a housing addition.

“The storms on the morning of May 10 caused some unusual problems for the water department in Pendleton, Indiana.”



1/6V4c
McMahon
#16

1/6V4c
Waller's
#43

On his way in to town to check out the water plant it was lightning and raining, all in all, a pretty intense storm. After he checked the plant he noticed on the one water tower level he was losing water in the tower at alarming rate. After doing some investigation in the area were there was low pressure, Ryan discovered there was a leak near the ballpark area. After finding the proper valves to the main and with some help from other water personnel, they started closing shut-off valves to stop the leak. By the time the proper vales were shut down, Donnie the water superintendent estimated they had lost around 600,000 gals.

They finished up around 5:30 am, isolating the leak. No customers were without water except for the restrooms at the ballpark and the concession area. All water personnel reported to work at their normal time at 8:00 am. After getting all the necessary work done they went to the park were the leak was discovered, and found a hole in the ground, and also pieces of water main all around the area were the hole in the ground was. The biggest piece of main was the size of the



palm of your hand. On this piece there were spider web going out to the edges of the piece. The several little pieces around the hole were puzzling to all. There was a storm tile down the hill from the leak that all the water ran to. So the ball diamonds were not flooded.

“Thanks to the crew, the main was repaired and back in service by game time.”

The crew, consisting of Donnie, Ryan, and Justin, started the process of digging out the main to fix the leak. After the main was uncovered it was discovered that a hole measuring about 6 inches hole was in the side of the main, and there were cracks from the joint to about 56 inches down the main. The main appeared to be have been hit by lightning, since no trees were big enough in the area to cause that kind of damage on C900 pipe. Thanks to the crew, the main was repaired and back in service by game time. ★

1/3SQ4c
Team EJP
#31

1/2H4c
Automatic Controls
#30

1/2H4c
Suez
#24



Help From ABOVE?



By Gordon Meyer,
Water Circuit Rider

When I do a leak detection for member utilities the outcome is pretty well cut and dry. I find the leak, pinpoint the location, and move on down the road. However sometimes I run across one of the nastier small leaks where you can't really get the exact location or you think you have a location and it ends up being a dry hole.

On one such occasion I was looking for a leak in Cloverdale with Mr. Richard Saucerman the Water Superintendent for the system. We searched in one section of the system where Richard had a pretty good idea that we would find a rather large leak. As we searched the area using the acoustic leak detector we could not get any indication of a leak so we decided to check another area. Again, no luck.

Richard said that there was another location on the other side of the system that we could investigate.

While we were traveling to the next location we passed a Church that had a fire hydrant located on the corner beside it. Something told me to check the hydrant for the sound of a leak. We stopped, I listened to the hydrant, and I heard a pretty good roar – the sound of a large leak. We then checked another hydrant at the next intersection. The sound nearly blew the headphones off of my head. I started to listen in the intersection with the ground microphone and was able to pinpoint a rather large leak. I told Richard that I believe we had some Divine Intervention in locating the leak. He said maybe, but he believed that all of my years of looking for leaks may have had something to do with it.

After I left Cloverdale and was heading down the road I just had to

shake my head and laugh. I know that these leak detectors are good and I have searched for many a leak, but I still believe that I had a guiding hand and it was a case of Immaculate Detection.

If I can be of any assistance please feel free to contact me at gmeyer@inh2o.org. ★

1/6H4c
Midwestern
#14

1/4H4c
HML
#18

Our concern for
the environment
is more than just talk

This publication is printed on Forest Stewardship Council® (FSC®) certified paper with vegetable oil-based inks. Please do your part for the environment by reusing and recycling.

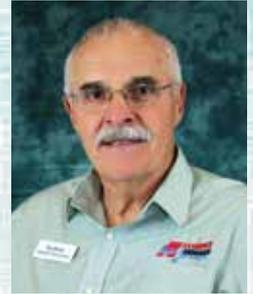


1/4V4c
United Systems
#47

1/2H4c
Best Equipment
#33



CERTIFIED



By Rex Blanton,
Wastewater Training
Director

WASTEWATER *Certification Changes*

On Friday May 18, I was fortunate enough to be included in a meeting of a group of Indiana Certified Wastewater Operators to discuss the Indiana Certification Rule at the Indiana Government Center. The group included some of the Who's Who of Indiana Wastewater Operators, such as Barb Smith, Nara Manor, Tom and Martha Martin, Brad Fix, Rick Littleton, Dan Astbury, and Dave Turner, just to mention a few. Also attending was a contingent of Indiana Department of Environmental Management [IDEM] Wastewater Inspectors, led by Mark Stanifer, Chief of Compliance Branch, IDEM Office of Water Quality.

The Certification Rule will be open due to in part by *House Enrolled Act No. 1233*, which changes the renewal cycle for **Wastewater Certification from two to three years**. Currently the fee will stay the same and the number of contact hours will be prorated to reflect the added year. Other changes are reciprocity for US Territories (Puerto Rico) and nonrenewal after one year from the date the certification expires, which is currently three years. All of this was changed to mimic the Water Certification Rule.

Some other items discussed for amending were the minimum period of operator attendance, mandatory re-training after three exam failures, and elimination of the five year maximum period of decertification. The Rule currently states that the operator must give adequate supervision to each wastewater treatment plant under his or her responsible charge. Since you can now take your exam electronically at Ivy Tech locations, as soon as IDEM returns your application, it's possible to take the exam numerous times in a year instead of only twice, as was previously the case. It is felt that some formal training should be

gained prior to taking the exam the fourth time. The five-year maximum period of decertification does not allow a lifetime ban on an operator who has committed very grievous infractions.

Another item discussed was the online renewal of your certification. You have most likely already renewed your license by the time of this publication, but if you renewed via mail, you can use this advice for next year's renewal. A couple of things: 1) DO NOT use a Social Security Number or Date of Birth. 2) DO, select person search on the left side of the page and enter your license number and registration code exactly how it is listed on the renewal application.

The Alliance of Indiana Rural Water continues to assist with Wastewater

Certification Exam preparation by offering Certification Exam Review courses around the state. If you or someone from your facility is in need of this service and or would like to host a session, please contact our office. Our goal is to have enough Certified Wastewater Operators to step into the voids caused by the huge number of retirees anticipated in the upcoming years. Along with our Apprenticeship Program, we can accomplish this goal and keep all our members informed of any and all changes from IDEM and the Environmental Protection Agency (EPA).

If you have any questions about the rule changes, please give me call at 317-502-0181, or drop me an email at rblanton@inh2o.org. ★

1/4H4c
Wealing Brothers
#9



What to Do with Stormwater

When most sewer lines were first put in they were combined. Meaning, sanitary and storm water went down the same pipe to a sewage plant or lagoon. That meant that all the water off rooftops, parking lots, driveways, yards, roads, joined the sanitary sewage in the pipe on the way to the sewage plant. I think the original thinking was that any water that could get dirty had to make it to a sewer line. And, excess rainwater would clean out the lines. The problem was that during massive rain events and snowmelts, lift-stations would overflow. Sewage plants would wash out.

As a result, sewer overflows were put in. CSOs were created to allow excess flow to go directly into streams, preventing lift stations from overflowing and sewage plants from washing out. But, that meant that raw sewage was spilling into streams

and lakes during rain events. The thought was that, with all the rainwater going into the stream at the same time, the stream or lake could handle the sewage naturally. Plus, there was that original wastewater saying: dilution is the solution!

Eventually the Environmental Protection Agency (EPA) and state authorities like the Indiana Department of Environmental Management (IDEM) realized that raw sewage spilling into streams and lakes was not a good idea. Towns and cities starting separating their sewers so that only sewage was in sanitary lines, and everything else went into a stormwater line that emptied into a stream or lake.

Ultimately, new concerns rose about what was in stormwater. Was it really safe to have stormwater draining into lakes and streams without being treated?

In that stormwater there could be oil that dripped from cars; fertilizers and insecticides from lawns; dog and cat urine and feces; salt and chemicals from the roads - and many other things. Some cities and towns are putting in holding basins to hold the storm water so it can be treated at the sewage plant when the flow comes down after a rain event.

But, what about cities and towns where stormwater drains into a local stream or lake? Should they be concerned? What can be done? One thing that can be done is to educate your community. Most people probably have no idea that they could be harming the environment. In my community, the wastewater plant enclosed a flyer with the water/sewer bill. I thought it was very educational. I hope you will too. ★

1/3B4c
Southeastern Equipment
#56



CITY OF ANGOLA STORMWATER QUESTIONNAIRE

210 N Public Sq.
Angola, IN 46703

Phone: 260-624-2663
waterpollution@angolain.org

Please take the time to fill out this short questionnaire to help the City learn more about your stormwater in our community. The questionnaire may be returned by mail with your utility payment to
210 N Public Square, Angola, IN 4703.

This survey is also available on Survey Monkey at <https://www.surveymonkey.com/r/7HPGT6P>

Thank you in advance for your cooperation.

For questions please call 260-624-2663 or email waterpollution@angolain.org.

- Do you think the quality of water in lakes, rivers, and streams within your community is:
 - Getting Worse
 - Staying the same
 - Improving
 - Don't know
- Where do you think stormwater (rain water) goes after it enters a storm drain or ditch in your community?
 - Directly to lakes and/or streams without treatment
 - To lakes and streams after receiving some treatment
 - To the Wastewater Treatment Plant
 - To a detention pond
 - Don't know
- How well do you think the storm drains in your neighborhood work?
 - Excellent
 - Very Good
 - Good
 - Fair
 - Poor
 - Very Poor
- With 1 being the most important and 10 being the least important, rank the environmental issues facing Angola at the present time.

___ Loss of wildlife habitat	___ Pollution of streams, ditches, rivers, or lakes
___ Wetland Protection	___ Hazardous waste disposal
___ Air Pollution	___ Trash and solid waste disposal
___ Loss of aquatic habitat	___ Flooding
___ Pollution of drinking water	___ Soil Erosion
- What three items have the greatest impact on water quality in our community?
 - Pet Waste
 - Storm water runoff from impervious/hard surfaces
 - Lawn fertilizer & pesticides
 - Soil erosion from construction sites
 - Improper disposal of household hazardous wastes
 - Livestock manure
 - Improper disposal of used motor oil/antifreeze
 - Grass clippings & leaves
 - Soil erosion from agricultural fields
 - Agricultural fertilizer & pesticides

6. Who do you think is most responsible for water pollution?

- Small businesses
- Large Industrial companies
- Farming
- Private residents
- Wastewater Treatment Plants
- Developers
- Transportation (highways, vehicles, etc.)

7. Rate the overall water quality in the Angola area.

- Excellent
- Very Good
- Good
- Fair
- Poor
- Very Poor

8. What choices would you make to improve water quality in your community?

	Already Do	Willing to Do	Need more info	Not Willing to Do
Take used motor oil to a recycling center				
Have your oil changed at a service center				
Stop using chemical fertilizers and weed killers completely				
Direct rain downspouts to your lawn or a rain barrel rather than driveway or street				
Keep street gutters clear of grass clippings and leaves				
Wash your car in lawn or carwash instead of driveway or street				
Clean up and properly dispose of pet waste				

9. What source would you most likely use to receive information about water quality?

- Radio
- Newspaper
- City Government
- Internet
- Print mail
- Other (please specify) _____

10. Which of the following do you think are the best ways to provide you with information about what you can do to protect lakes and streams in your area?

- Local newspaper
- TV ads
- Inserts in utility bills
- Displays at local festivals
- Classes/workshops
- Radio ads
- Public Meetings
- Internet/Facebook
- Other (please specify) _____

11. Please include any comments or concerns you have.

1/3V4c
TnT
#54

1/3SQ4c
Infrastructure System
#46

1/3SQ4c
Force Flow
#41

FORD FLEET PROGRAM



The National Rural Water Association and the Ford Motor Company have created a partnership to offer special fleet discounts to State Rural Water Associations and their utility system members. This partnership combines the buying power of 31,000 individual utilities to provide reduced fleet pricing on utility vehicles. The Ford Fleet Team is #1 in commercial fleet customer satisfaction according to surveys. The Rural Water Ford Fleet Program is a valuable member benefit for water and wastewater utilities. State Rural Water Associations determine eligibility for their members, and provide a fleet code that allows access to substantial vehicle discounts to fill the need for reliable work vehicles. Fleet vehicles must be registered in the name of a member water or wastewater system.



Member utilities should contact their State Rural Water Association to access the Rural Water Ford Fleet Program. Vehicles may be purchased at your local dealer or through the national fleet auto group, get all the details you need online at: www.nrwafleet.com. Incentive discount pricing is available on fuel efficient cars, vans, SUVs and trucks. Systems can save up to \$5800 off factory invoice per vehicle. Happy shopping!

2018 Program Details:

- Limited to water/wastewater utilities that are current members of a State Rural Water Association
- There is no limit to the number of vehicles that can be purchased under the program
- Incentive pricing is deducted off the factory invoice
- Fleet vehicles must be in service for a minimum of 12 months or 20,000 miles
- Vehicles must be registered and operated in the United States
- Call your State Association today to get your Fleet Identification Number (FIN)

Eligible Vehicles	Incentive
Focus (Excludes BEV)	\$1400
Fusion (Excludes Hybrid & Energi)	\$2000
Taurus (Excludes Police Int)	\$3300
Econoline	\$4500
Edge	\$2500
Escape	\$1800
Expedition	\$4000
Explorer (Excludes Police Int)	\$2700
F-Series Super Duty F250-F550	\$5800
F150 (Excludes Raptor)	\$5500
F150 4X2 Reg Cab	\$4500
Transit	\$3700
Transit Connect	\$2100



The National Rural Water Association and the Chrysler Group have created a partnership to offer a Volume Incentive Program (VIP) to State Rural Water Associations and their utility system members. This partnership combines the buying power of 31,000 individual utilities to provide reduced fleet pricing on utility vehicles. You will have access to special fleet benefits as a preferred Chrysler Group customer.

The Rural Water Fleet Program is a valuable member benefit for water and wastewater utilities. State Rural Water Associations determine eligibility for their members, and provide a fleet code that allows access to substantial vehicle discounts to fill the need for reliable work vehicles. Fleet vehicles must be registered in the name of a member water or wastewater system.

Member utilities should contact their State Rural Water Association to access the Rural Water Fleet Program. Vehicles may be purchased at your local dealer or through the national fleet auto group, details are online at: www.nrwafleet.com. Incentive discount pricing is available on Jeep SUVs and Ram trucks. Systems can save up to \$7,500 off factory invoice per vehicle. Happy shopping!



2018 Program Details:

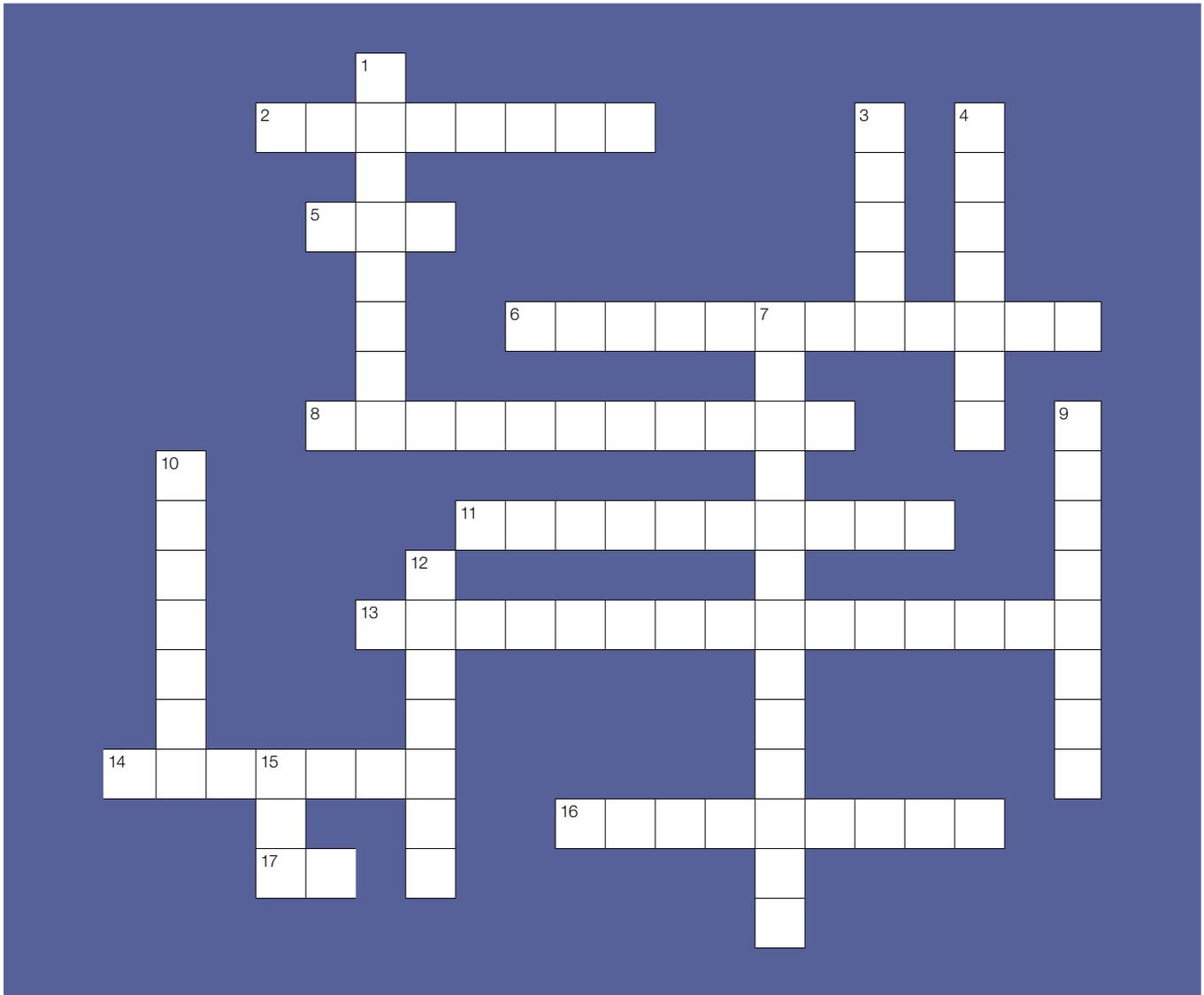
- Limited to water/wastewater utilities that are current members of a State Rural Water Association
- There is no limit to the number of vehicles that can be purchased under the program
- Incentive pricing is deducted off the factory invoice
- Fleet vehicles must be in service for a minimum of 12 months or 12,000 miles
- Vehicles must be registered and operated in the United States
- Call your State Association today to get your Fleet Account Number (FAN)

Eligible Vehicles	Incentive
Ram 1500 Quad/Crew	\$6500
Ram 1500 Regular Cab	\$4000
Ram 2500 Crew/Mega	\$7500
Ram 2500 Regular Cab	\$5500
Ram 3500 Reg Cab	\$5500
Ram 3500 Crew/Mega	\$6500
Ram 4500 & 5500	\$3000
Ram Promaster 1500 Cargo Van	\$6000
Ram Promaster City Cargo Van	\$4500
Jeep Patriot	\$4500

**Example incentives only.*

Many other option or powertrain items can be utilized under the VIP program.

Water Quality Parameters



ACROSS

- 2. Salt component naturally occurring in water
- 5. A five-day test
- 6. Water's ability to pass an electrical current
- 8. Signals migration and reproduction
- 11. Nutrient for algae
- 13. Required for fish to breathe
- 14. More toxic at high pH and temperature
- 16. Affects water clarity
- 17. Acidity or alkalinity

DOWN

- 1. Often added to drinking water
- 3. Fecal coliform bacteria that comes from human/ animal waste
- 4. High levels of this in hydraulic fracturing wastewater
- 7. Used by plant/algae for photosynthesis
- 9. Proportional to conductivity
- 10. Water hardness is affected by this mineral
- 12. EPA maximum contaminant level is 10 mg/l
- 15. Measure of oxidizing/reducing potential ★

ACROSS 2. CHLORIDE 5. BOD 6. CONDUCTIVITY 8. TEMPERATURE 11. PHOSPHORUS 13. DISSOLVED OXYGEN 14. AMMONIA 16. TURBIDITY 17. PH
DOWN 1. FLUORIDE 3. ECOLI 4. BROMIDE 7. CARBON DIOXIDE 9. SALINITY 10. CALCIUM 12. NITRATE 15. ORP

1/4V4c
Healthy Benefits
#49

1/4V4c
The Leary
#45

1/4V4c
Curry & Associates
#21

1/4V4c
Brehob
#59

1/4V4c
Allied Technical
#42

1/4V4c
ME Simpson
#48

1/4V4c
Ortman Drilling
#51

1/4V4c
Wessler
#52

March 26, 2018

I wanted to again thank the Alliance of Indiana for awarding Oakleigh Collier one of the 2018 scholarships. She is indeed a hard worker and all around good young lady.

The alliance is an awesome group to be a part of. Thank you very much.

Scotty Manley, City of Martinsville Water

May 2, 2018

We would like to take a moment and send a thank you for that help that you have given to us over the past couple months. We have had a "mystery loss of water," and more recently another small leak. With just a phone call, Joe Frazier, came out and helped. Mr. Frazier spent a few hours helping check hydrants and possible places for leaks. As a town, we appreciate all the help that we have received from the Alliance, as well from Mr. Frazier personally.

Thank you again,

The Town of Galveston

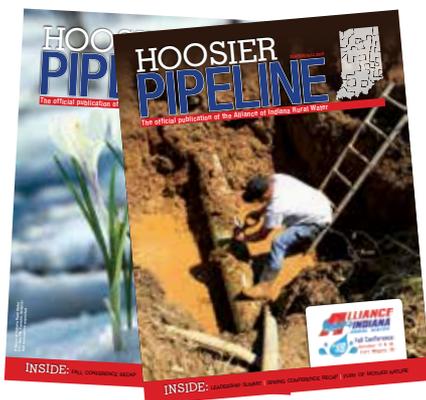
May 7, 2018

My daughter Haylie wants to once again thank you for the recognition of her educational achievements and future goals with the \$1500 scholarship award given at the spring conference.

I would like to offer some advice that I hope you could pass on to current and future recipients. Since you award the scholarship directly to the student, it is advantageous for the student and parents to open an Indiana College Choice 529 Direct Savings Plan and deposit the scholarship award money into that account and then use it to pay for education expenses like tuition, room and board, or books. This creates a 20% refundable tax credit on their Indiana state taxes. It is essentially \$300 of free money that the student and parents would realize in 2019 to help with their second year of school. It is obviously not a lot of money, but it does help. Maybe everyone is already aware of this opportunity, but for those who are not, this can be some valuable advice.

Thanks Again,

Travis Williamson



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

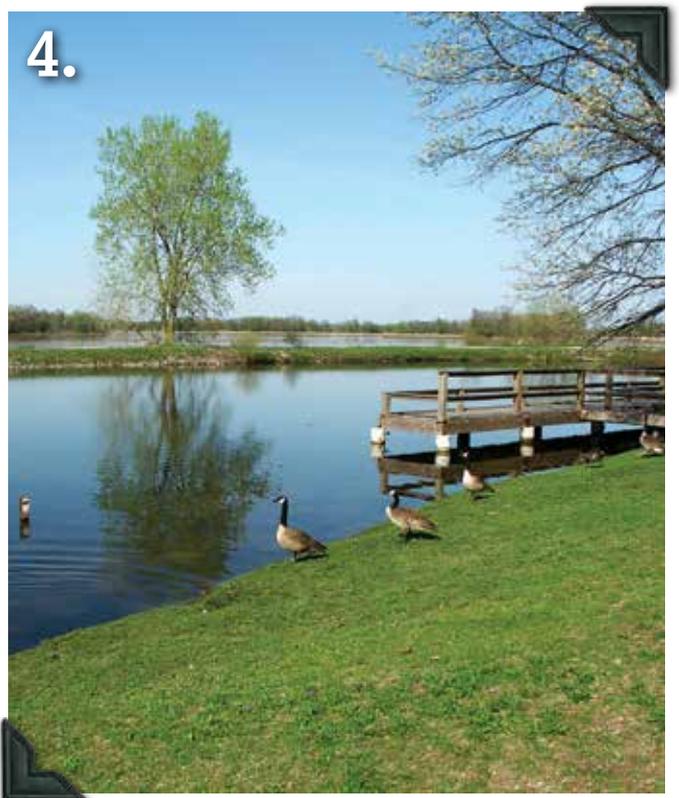
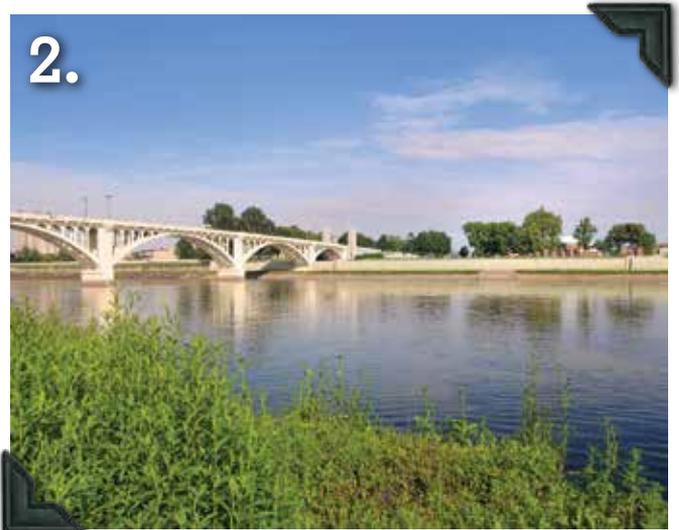


Dave Gill, Marketing Manager

david@kelman.ca

Phone: 866-985-9791

These photos were all taken somewhere in Indiana.
Can you pinpoint the location? (Answers at bottom.)



- 1. Aurora Flooding
- 2. Vincennes, Wabash River
- 3. George Rogers Clark Memorial Bridge, Jeffersonville
- 4. Willow Slough
- 5. White River State Park, Indianapolis

1/8H4c
Insituform
#5

Top RHP
1/8H4c
TGO
#35

1/8H4c
Mid Atlantic
#15

1/8H4c
Lochmueller
#17

1/8H4c
United Consulting
#34

1/8H4c
London Witte
#36

1/8H4c
Pelton
#40

1/8H4c
Fleis & VandenBrink
#28

Meet our ADVERTISERS

Company	Page	Telephone	Website
Advanced Aquacultural Technologies, Inc.	46	574-457-5802	www.advancedaquaculturaltechnologies.com
Allied Technical Services, Inc.	14	877-987-8677	www.alliedpumprentals.com
Astbury Water Technology, Inc.	8	317-328-7153	www.astburywater.com
Automatic Controls Company	40	888-744-0182	www.automaticcontrolsky.com
Bastin-Logan Water	52	317-738-4577	www.bastinlogan.com
Beam, Longest and Neff, LLC	48	317-849-5832	www.b-l-n.com
Bose McKinney & Evans LLP	27	317-684-5000	www.boselaw.com
CoBank	16	800-542-8072	www.cobank.com
Commonwealth Engineers, Inc.	4	317-888-1177	www.commonwealth-engineers.com
Covalen	2, 37	317-319-6077	www.covalen.com
Curry & Associates, Inc.	24	317-745-6995	www.recurry.com
DN Tanks, Inc.	49	614-777-9886	www.dntanks.com
Ferguson Waterworks	6	317-546-2013	www.ferguson.com/waterworks
Fleis & VandenBrink Engineering, Inc.	49	317-843-0022	www.fveng.com
Franklin Miller, Inc.	35	973-535-9200	www.franklinmiller.com
Gripp, Inc.	44	317-896-3700	www.grippinc.com
GRW Engineers, Inc.	14	317-347-3650	www.grwinc.com
Hach	38	317-617-0702	www.hach.com
Hawkins	24	765-288-8930	www.hawkinsinc.com
HML, Inc.	46	800-551-5217	www.hml.com
HWC Engineering	29	812-234-2551	www.hwcengineering.com
Hydro International	7	866-615-8130	www.hydro-int.com
HYMAX by Krausz	14	855-457-2879	www.krauszusa.com
Infrastructure Systems, Inc.	31	812-865-3309	www.infrastructuresystems.com
Insituform Technologies USA, Inc.	49	317-408-7136	www.insituform.com
Lochmueller Group	49	812-479-6200	www.lochgroup.com
London Witte Group, LLC	49	317-634-4747	www.londonwittegroup.com
Maguire Iron	23	605-834-9749	www.maguireiron.com
McMahon Associates, Inc.	39	219-462-7743	www.mcmgrp.com
Mid Atlantic Storage Systems	49	740-335-2019	www.midatlanticstorage.com
Midwestern Engineers, Inc.	36	812-295-2800	www.midwesterneng.com
Miller Pipeline	40	317-293-0278	www.millerpipeline.com
Ortman Drilling & Water Services	48	765-459-4125	www.ortmandrilling.com
Peerless-Midwest, Inc.	27	574-254-9050	www.peerlessmidwest.com
Pittsburg Tank & Tower Co. Inc.	43	270-826-9000	www.watertank.com
Precision Controls of Indianapolis	44	317-241-3000	www.pcsoi.com
Preload	16	972-841-7822	www.preload.com
S & K Equipment Company, Inc.	51	812-886-0245	www.skequipment.com
Seiler Instrument & Mfg Co., Inc.	34	800-489-2282	www.seilerinst.com
SpectraShield Liner Systems	24	800-422-7266	www.spectrashield.com
Strand Associates, Inc.	43	317-423-0935	www.strand.com
SUEZ Advanced Solutions (Utility Service Co., Inc.)	8	855-526-4413	www.utilityservice.com
Team EJP	11	800-357-2447	www.ejprescott.com
TGO Technologies, Inc.	49	800-543-6603	www.tgotech.com
The Ford Meter Box Co., Inc.	22	260-563-3171	www.fordmeterbox.com
The Leary Construction Co.	24	800-428-2323	www.learycc.com
TnT Technologies, Inc.	47	812-941-0300	www.tnttechnologiesinc.com
Total Piping Solutions	13	716-372-0160	www.tps.us
United Consulting	49	317-895-2585	www.ucindy.com
United Systems & Software, Inc.	16	270-527-3293	www.united-systems.com
Waller's Meter, Inc.	41	888-485-7018	www.wallersmeterinc.com
Water Solutions Unlimited, Inc.	14	800-359-3570	www.getwsu.com
Wealing Brothers LLC	35	219-261-2520	www.wealingbrothers.com
Wessler Engineering	16	317-788-4551	www.wesslerengineering.com
Xylem - Water & Dewatering Solutions (Flygt & Godwin Products)	3	317-273-4470	www.xyleminc.com
Zoeller Company	33	800-928-7867	www.zoeller.com

IBC
FP4c
Ferguson
#38

OBC
FP4c
Bastin Logan
#44