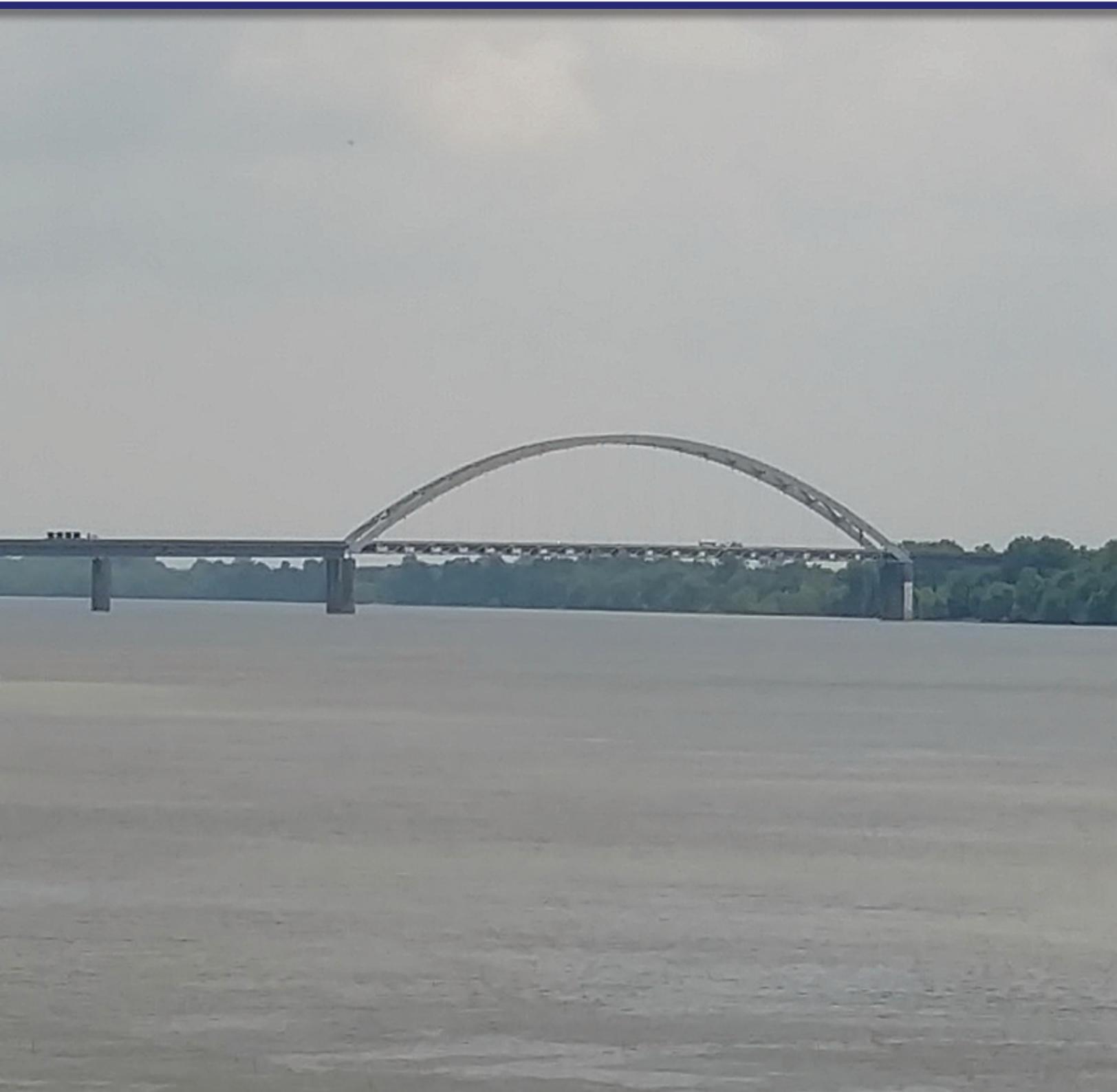




Water Ways

Volume XIV — Summer 2017



MANHOLE ADJUSTMENT RING

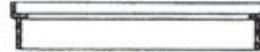
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*Note: minimum riser must be 1/2" more than thickness of existing lid



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ARTICLES

How Many Hats Do You Wear???	by Jay Bell	4
Operator Certification	by Chuck Woodworth	5
The Old Tower	by Evan Jones	6
Trenching and Excavation Safety	by Roger Noe	7
WaterPro Online Community		12
13th Annual Northern Conference		14
Where in Illinois?		16
WaterPro Conference		17
IRWA 14th Annual Golf Outing		18
Registration Form		19
Sponsorship Form		20
Check Out Our Website		21
Save The Date!		
2017 IRWA Fall Administrative Conference	by Phil Donelson	22
SDWA Amendments	by Frank Dunmire	23
Member Services		
Ford Fleet Program		25
GPS/GIS Mapping Services		26
Video Inspection Services		26

MISSION STATEMENT

"Protecting and preserving the water and wastewater resources of Rural Illinois through education, representation and on-site technical assistance".

On the Cover:

The front cover picture was taken by Roger Noe, IRWA Circuit Rider, in Metropolis, Illinois.

Water Ways is the official publication of the Illinois Rural Water Association, P.O. Box 49, Taylorville, Illinois 62568, and is published quarterly for distribution to members as well as other industry associations and friends. Our website is www.ilrwa.org. Articles and photographs are encouraged. Advertising and submissions should be mailed to the above address or e-mail us at ilrwadb@ilrwa.org.



LIST OF ADVERTISERS

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Cady Aquastore	15
CoBank	11
Coe Equipment, Inc.	10
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DN Tanks, Inc.	24
Engineering America	12
Environmental Resources Training Center	27
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Suez Advanced Water Solutions (Utility Service Co., Inc.)	13
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Test, Inc.	21
The Ford Meter Box Co., Inc.	9
United Systems & Software	11
USA Bluebook	28
Water Well Solutions	24

How Many Hats Do You Wear???

by Jay Bell,
IRWA District 4 Board Member

Jerry Roth of Forrest, IL has had hats most of his life. In 2006 he decided to get serious about collecting hats (ball caps). Last year he took over the abandoned Church of God and turned it into Jerry's Hat, Pens, and Pencils Museum. He plans to open the doors to the museum soon, definitely by September 30th in time for Forrest's Wabash Festival. As of June 27th he had 6,655 hats on display including a IRWA hat, with more being donated. It got me thinking about us as employees, operators, superintendents, managers, etc. How many hats do we wear? I listed some of the hats we wear, but there are so many more.

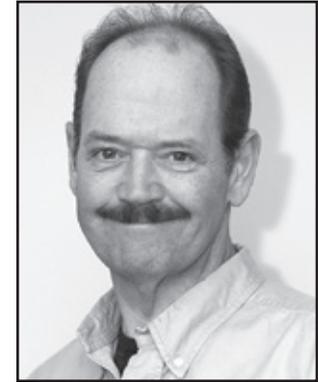
- Plumbing - A system of pipes and fixtures for supplying and carrying

off water in a building. We as operators have to do it for an entire city, town or village.

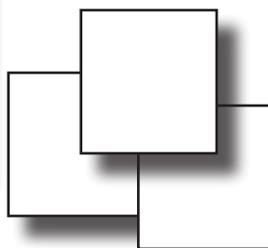
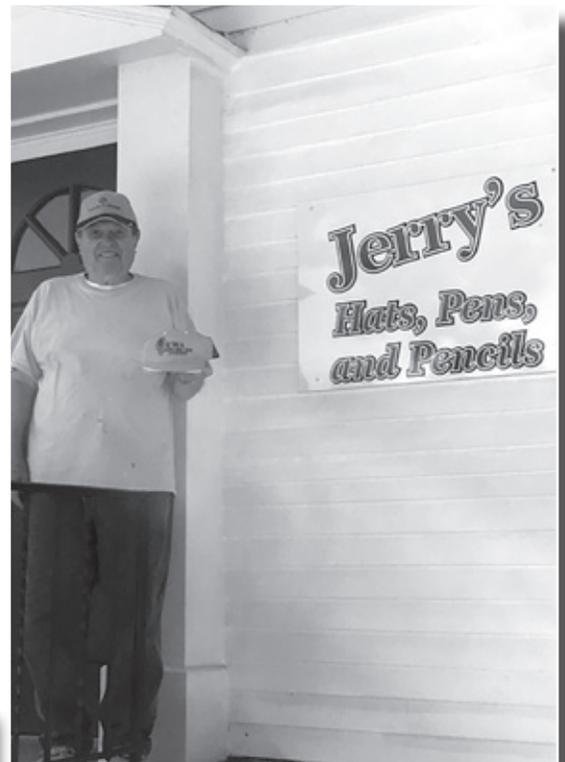
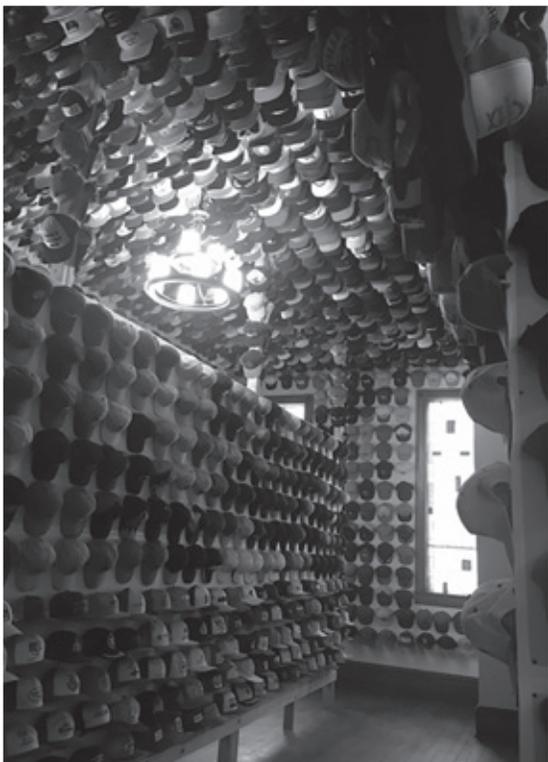
- Electrician – A person, who installs, operates or repairs electric devices or electrical wiring.
- Pump and Motor Repair – Servicing them and being able to trouble shoot and repair pumps and motors.
- Excavators – Digging up water mains, water services, sewer lines, leveling dirt, fixing yards, etc.
- Truck Drivers – Plowing snow, hauling rock, picking up garbage, filling pot holes and picking up brush.

- Referee - Being the referee between your employees, between yourself and co-workers, between you and your board and between you and the public. Sometimes you need more than a towel to throw.

You get the idea. Please be careful and try to only wear one hat at a time. Wearing too many hats can also lead to multitasking and no matter how



good you may think you are. No one is a great multitasker. In all my years of experience sometimes I think the best hat we can wear is a hard hat. You may look funny wearing it, but keep in mind you never know what's going to be thrown at you, where it is coming from or how fast. 💧



Operator Certification

by Chuck Woodworth,
IRWA Circuit Rider

Becoming a certified operator to some might sound like a scary thing but it's not as scary as it may sound. I have told several people that if I can pass it, there is no reason why you can't pass it. All it takes is to do some serious studying, determination and commitment to do your best. Taking the EPA certification exam is easier now than it ever has been in my opinion. Twenty- two years ago when I started the process of becoming certified an applicant had to remember all the math formulas, now they are provided to you. An applicant had to have all the required hands on experience before submitting the application, now you can take the exam with no hands on experience by submitting an operator in training application. When you pass the exam you are classified as an operator in training until you submit the hands- on experience paperwork. When I took the exam to become a class A operator I also had to pass the class D, C and B subsections. Now, only one exam is needed to achieve a class A. All the questions are multiple choice and on most questions one or two of the answer choices can be eliminated from the possible correct answer if you just think about it. We do offer a certification overview that you can purchase, it has helped several people to become certified. If you would like to know more about this contact the office and they will put you in contact with the correct person in your area.

The following are some examples of the type of math questions you might find on the exam.

1. A new six inch PVC water main is 3250 feet long, how many gallons does this section of water main hold?
2. How many pounds of 70% calcium hypochlorite would be needed to disinfect the new water main in question #1 to 50 MG/L?
3. A water tank is 15 feet wide, 35 feet long and 12 feet deep, how many gallons does this tank hold when full?
4. The water tank in question 3 has a flow in and out of the tank of 175 gallons per minute, what is the detection time in minutes?
5. A ground storage tank is 40 feet high and 30 feet in diameter, how many gallons will this tank hold when full?
6. A 250,000 gallon stand pipe is 160 feet high, how much pressure will it provide when full?
7. A 5 foot diameter pressure filter was backwashed at a rate of 400 gpm, what was the backwash rate in gpm/sqft?
8. A drilled well is 130 feet deep its airline is 110 feet long. The pump has been running for 3 hours, air is added to the airline until the reading on the gauge stabilizes at 10.9 psi. The pumping level for the well is how many feet?
9. The drawdown for a pumping well 20 feet and the well is pumping 650 gpm, what is the specific capacity for this well?
10. How many pounds of chlorine is needed to treat 2 MG of water to a concentration of 3 mg/l ?



Like I said above when I took the exam I had to remember the correct math formula to solve these, can you get the correct answers? If you have thought about becoming certified give you Circuit Rider a call. Here are the answers to the above questions, how many did you get correct? 

Answers

1. $.785 \times D \times D \times L \times 7.48$ divided by 144
 $.785 \times 6 \times 6 \times 3250 \times 7.48 = 687000.6$
 687000.6 divided by 144 = 4770.8 gallons
2. $MGD \times mg/L \times 8.34$
 4770 divided by 1,000,000 = .0047 MGD
 $.0047 \text{ MGD} \times 50 \text{ mg/L} \times 8.34 = 1.9599$
 1.9599 divided by .70 = 2.79 lbs
3. $W \times L \times H \times 7.48 =$ gallons
 $15 \times 35 \times 12 \times 7.48 = 47124$ gallons
4. gallons divided flow = minutes
 47124 divided by 175 = 269 minutes
5. $.785 \times D \times D \times H \times 7.48 =$ gallons
 $.785 \times 30 \times 30 \times 40 \times 7.48 = 211385$ gallons
6. $1 \text{ psi} = 2.31$ feet
Feet divided by 2.31 = psi
 160 divided by 2.31 = 69.2 psi
7. $.785 \times D \times D =$ sqft
 $.785 \times 5 \times 5 = 19.625$ sqft
Flow divided by sqft = gpm/sqft
 400 divided by 19.625 = 20.38 gpm/sqft
8. $\text{psi} \times 2.31 =$ feet
 $10.9 \times 2.31 = 25.179$
Subtract gauge reading from airline length
 $110 - 25 = 85$ feet
9. $\text{gpm} \text{ divided by feet} = \text{gpm/ft}$
 650 divided by 20 = 32.5 gpm/ft
10. $MGD \times 8.34 \times \text{mg/l} =$ pounds
 $2 \times 8.34 \times 3 = 50.04$ pounds

The Old Tower

by *Evan Jones,*
IRWA Circuit Rider

The City of Havana is located in Mason County and is the county seat there. Havana sits right on the Illinois river just 45 miles south of Peoria. The city has a population about 3,200 residents. They have 1,500 water connections. They treat ground water from their three water wells. They produce an average of 25,000 gallons a day at their Class B Pressure filter plant.

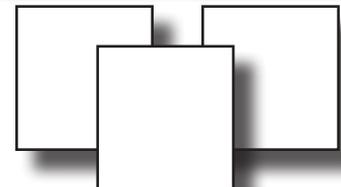
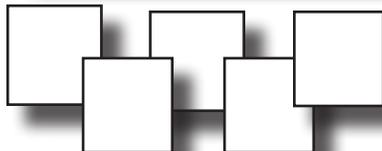
The City of Havana has the fourth oldest water tower in the state. The original part of the tower was built in 1889. That is the same year that the Eiffel tower was built. The specifications were prepared by engineer F. William Raider of St. Louis, Missouri.

The Havana water tower was the

only source of storage for the city from its construction until 1962. The tower stands in at 86 feet tall to the top of the bricks and holds 50,000 gallons.

In 1962 the city erected a new 300,000 gallon tower on the south side of town. In 1982 the historic water tower was designated an American Water Landmark by the American Water works Association. In 1993 the water tower was placed on the National Register of Historic Places.

The tower was controlled by an altitude valve in a pit at the base of the tower. The water tower has been the center piece on main street since it was built.



Trenching and Excavation Safety

by Roger Noe,
IRWA Circuit Rider

This is the time of year when trenching and excavation projects are in full-swing. Here is a brief summary of information and guidelines to keep you safe. Trenching and excavating are classified as two different things, both being among the most hazardous construction operations. On average, two workers are killed every month in trench collapse. According to OSHA, excavation is defined as any man-made cut, trench, cavity or depression in the surface of the Earth which was formed by the removal of ground material. A trench is typically defined as a narrow excavation (in relation to the length) made below the surface of the ground. Generally, the depth of a trench is much greater than its width, but the width of a trench (measured from the bottom) is less than fifteen feet.

Trenching and excavation submits

all workers to hazardous conditions. The greatest risks are cave-ins and they are more likely to occur than other excavation-related incidents in work fatalities. A trench that is unprotected can easily be deadly. One cubic yard of soil can weigh as much as a car. Other risks trenching and excavation pose on employees include, hazardous atmospheres, falling loads, falls, and accidents with mobile equipment. Before an excavation project begins, a competent person should be able to identify any existing and predicable hazards.

There are four types of soil that a competent person should be able to classify. This four include- stable rock, type A, type B, and type C. The categories are determined based on an analysis of the properties and performance characteristics of the deposits and the environmental conditions of



exposure. As well as, whether or not the soil had been previously disturbed.

There are many ways to be safe on the job. Some of those ways include, sloping and benching the sides of the excavation project,

continued on page 8

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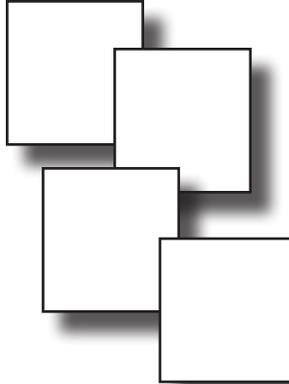
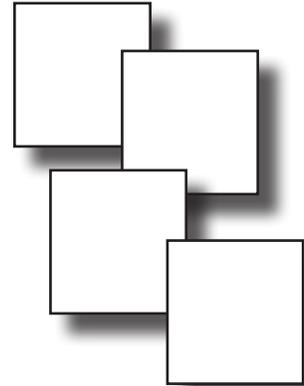


Trenching and Excavation Safety

continued from page 7

supporting the sides of the excavation, or placing a shield between the side of the excavation and the work area. You will need to choose the correct method for the type of excavation project in order to keep you and your co-workers safe. Make sure your equipment has no damage or defects that might impair them from performing properly and never alter your shoring equipment from manufactures specifications. OSHA standards require safe access and egress to all excavations, including ladders, ramps, steps, or other safe way for employees to safely exit trench excavation that are four feet or deeper. These devices must be located within twenty-five feet of all workers, at all times.

There are many steps you can take to keep you and your co-workers safe around excavation projects. Always know where the underground utilities are located by calling JULIE (811). Keep excavated soil and other materials at least two feet from trench edges. Keep heavy equipment away from the trench edges, as well. Make sure you always inspect the trenches at the beginning of each shift, and after it rains. Never cut corners on safety, the extra time could be a lifesaving decision. Too many times accidents happen at the end of the day when employees try to hurry and finish a project and forget about being safe. There is always another day to finish a job. Everyone stay safe and enjoy your time with your family.



continued on page 8



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SAFETY QUESTIONS

- No matter the size of an excavation, OSHA Standards apply as soon as you start to dig.
 - true
 - false
- What is the most important duty of the OSHA competent trenching and shoring person?
 - inspection of soil at the excavation
 - making sure protective systems are installed
 - removing workers from dangerous situations as quickly as possible
- How much does an average cubic yard of dirt weigh?
 - 500 pounds
 - 2,000 pounds
 - 5,000 pounds
- Which type of soil is the least stable?
 - Type A
 - Type B
 - Type C
- OSHA only requires a physical soil exam when you are unable to determine a soil type visually.
 - true
 - false
- OSHA rules state that trench ladders or ramps can be no further than _____ feet from workers in a trench at any time.
 - 25
 - 50
 - 100
- Type B soil at an excavation must be sloped back at a minimum ratio of _____.
 - $\frac{3}{4}$ to 1
 - 1 to 1
 - $1\frac{1}{2}$ to 1

ANSWERS TO THE REVIEW QUESTIONS

- a
- c
- b
- c
- b
- a
- b



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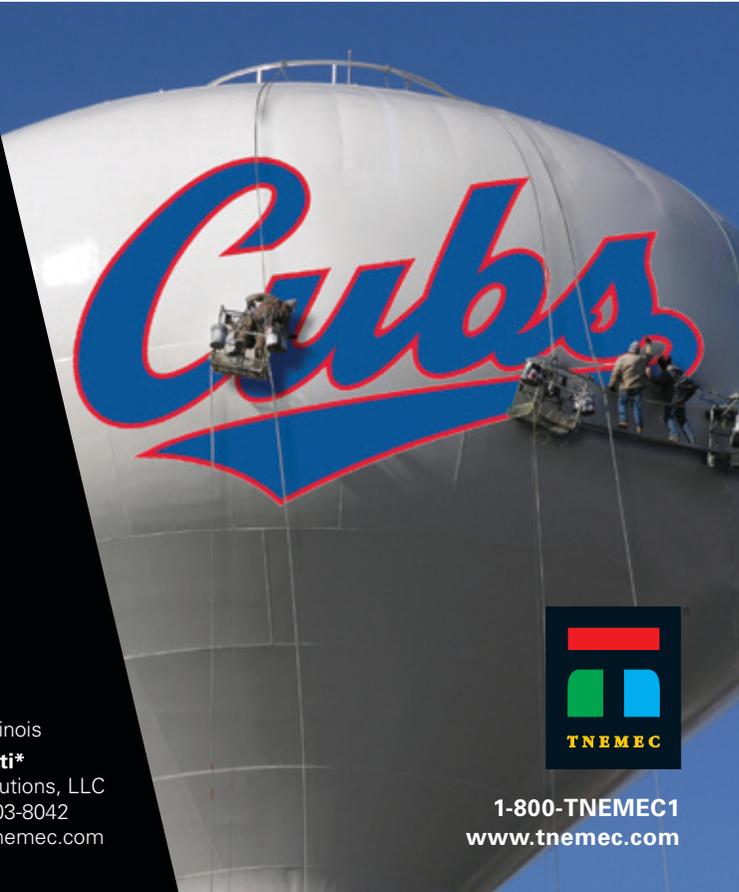
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- ◆ Well Health & Maintenance

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- ◆ Water Quality & STP Effluent
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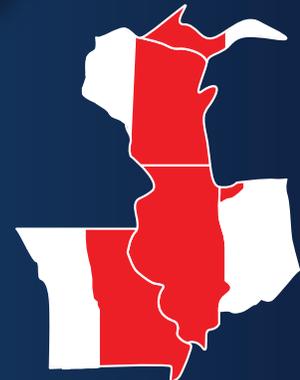
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14th Annual Golf Outing

The Illinois Rural Water Association (IRWA) is hosting its 14th Annual Golf Outing. This event is sponsored as a way to have a fun IRWA member activity.

The location for this event is **Piper Glen Golf Course in Springfield, Illinois**. The date for this four person scramble is **Friday, August 18, 2017**. The fee is \$60.00 which includes lunch, a gift bag, green fees and golf cart. Various prizes will be given away as well. As always, IRWA is trying to make this a fun-filled and affordable golf scramble. Your participation will ensure that this year's event will be every bit as successful as past outings. This event gives the IRWA members an opportunity to have fun and enjoy a day of golf with fellow industry professionals.

Last year's event sold out so you are encouraged to submit your registration forms prior to the **Wednesday, August 9, 2017** deadline. Please make checks payable to Illinois Rural Water Association. You can also go online and sign up and pay by credit card at www.ilrwa.org.

This will be a four-person scramble with a **10:00 a.m. shotgun start**. Participants are encouraged to be at Piper Glen Golf Course and check in at the registration table no later than 9:45 a.m. Lunch will be served as you make your way by the club house while playing golf.

It is IRWA's hope that you will be able to attend this event. Please feel free to contact **Denise Burke** at 1-217-287-2115 with any questions you may have. We look forward to seeing you there!

Sincerely,



Board of Directors & Staff

WHAT: 14th Annual IRWA Golf Outing

WHO: Water & Wastewater Operators, Board Members, Councilmen, Mayors, Vendors, Others

WHEN: Friday, August 18, 2017

WHERE: Piper Glen Golf Course—Springfield, IL

FEE: \$60.00 for operators (includes lunch, gift bag, green fees & golf cart)



ILLINOIS RURAL WATER ASSOCIATION

14TH ANNUAL GOLF OUTING

The 13th Annual Illinois Rural Water Association Golf Outing will be held on Friday, August 18, 2017 at Piper Glen Golf Course located in Springfield, Illinois. Directions to the course are located on the last page. The golf format will be a shotgun start at **10:00 a.m.** Please check in at the registration table no later than 9:45 a.m. Please fill out the registration form below and send it along with your check to the address listed below. **You may also pay by credit card online at www.ilrwa.org. Registration must be received and paid by Wednesday, August 9, 2017 in order to reserve your spot. We are limited to 144 golfers for this event.**

Course Rules:

- Dress must be in good taste keeping with golf tradition.
- Only non metal spikes are allowed.

PIPER GLEN GOLF COURSE— 7112 PIPER GLEN DRIVE—SPRINGFIELD, ILLINOIS

217-483-6537

www.piperglen.com

Registration Form

Friday, August 18, 2017—10:00 a.m. (Shotgun start—4 person scramble)

Single Golfers will be teamed with a foursome.

NAME(S): _____

SYSTEM NAME: _____

ADDRESS: _____

PHONE: _____

OF GOLFERS

Operators / City Officials / Guests _____ @ \$60.00 = _____

Associate Members / Vendors _____ @ \$75.00 = _____

(If Associate members are sponsoring the golf outing (please see next page), then the fee to participate will be \$60.00).

**Total = _____
(includes lunch, gift bag, green fees & golf cart)**

Please make all checks payable to Illinois Rural Water Association. Return your completed registration and payment to: **Illinois Rural Water Association—P.O. Box 49—Taylorville, Illinois 62568**

If you have any questions, please contact **Denise** at Illinois Rural Water Association at 1-800-762-3547 or email her at: ilrwadb@ilrwa.org.

Sponsorship Form

Lunch Sponsorship	-	\$500.00	(limited to 3 sponsors)
Beverage Cart Sponsorship	-	\$500.00	(limited to 2 sponsors)
Hole Sponsorship	-	\$150.00	(limited to 18 sponsors)
Hole in One Sponsorship	-		
\$300.00 (\$5,000 cash)		\$275.00	(Seven day cruise)
\$250.00 (Golf Clubs)		\$250.00	(\$500.00 golf shop credit)
Gift Bag & Prize Sponsorship	-	SEE BELOW	

LUNCH SPONSORSHIP: Lunch sponsors will have their sponsorship sign posted where lunch will be served reaching all of the golfers and two free registrations to participate in the golf outing.

BEVERAGE CART SPONSORSHIP: Beverage cart sponsors will have their sponsorship sign on the courtesy carts that will be on the golf course driving around with bottled water, beer and soda compliments of your company. They will also receive two free registrations to participate in the golf outing.

HOLE SPONSORSHIP: Hole sponsors will have their sponsorship sign **off the tee**. This is a great opportunity for visibility.

HOLE IN ONE SPONSORSHIP: Hole in one sponsors will have their sponsorship sign displayed off the tee and will be recognized prior to the shotgun start of the outing.

GIFT BAG SPONSORSHIP: If your company wishes to provide an item for each gift bag (approximately 144), please contact Denise to discuss.

PRIZE SPONSORSHIP: If your company wishes to bring a door prize the day of the golf outing or send it in prior to outing, please contact Denise to let her know.

Sponsorship Registration Form

Company Name: _____

Contact Name: _____

Address: _____

City: _____ State _____ Zip Code _____

Sponsorship Level: _____ Amount Enclosed: _____

Please complete and return the Sponsorship registration form and payment to:
Illinois Rural Water Association—P.O. Box 49—Taylorville, IL 62568

If you plan on participating in the golf outing, please fill out the registration form on the previous page and return with this form with your payment. If you plan to attend but not golf in the outing, please let us know on this form.



**CHECK OUT OUR WEBSITE
AT WWW.ILRWA.ORG FOR HANDOUTS
ON THE FOLLOWING SUBJECTS:**

HANDOUTS

- Steps for creating a Rural Water District
- Basic Math Handbook
- Cross Connection Cover Letter
- Cross Connection Survey
- How Much Water?
- Leak Checklist
- Notification of Issuance of a Boil Order
- One Drip At A Time
- Think of it This Way
- Water Loss Worksheet

**EMERGENCY PROCEDURES BOOKLET
QUICK REFERENCE GUIDE**

Word file or pdf file

**EMERGENCY PROCEDURES
REFERENCE
(Storage Tanks)**

Word file or pdf file

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www.watertank.com

2017 IRWA Fall Administrative Conference Save the Date!

by Phil Donelson,
IRWA Training Division

Happy Summer everybody! I hope your summer is going well and you are getting to have some fun with your family, maybe taking a trip, or just having a cold one or two around the BBQ! No matter how you spend the time, I hope you are enjoying the sun and being safe out there.

I have been given the opportunity to include this short reminder of the next IRWA Administrative Conference. Our fall conference will be held in East Peoria at the ParaDice Hotel Casino on November 16 & 17, 2017. Mark your calendar, and look to the IRWA website for registration material later this summer.

The Administrative Conference is a full day of speakers on Thursday ending with a hospitality hour. Then on Friday we have a half day of speakers concluding by noon. All food and refreshments are provided throughout the two days. There are usually many giveaways and prizes

awarded throughout the conference as well. The focus of this conference is on the administrative staff, board members, city officials, and any other clerical staff who work for municipalities or water systems. The networking with each other is always a big plus with this group. This conference is unique, and has always been a fun and very informative time for this cross section of our industry. I hope you will take advantage of this opportunity. If you have not yet made it to one of these events, you really should attend one and see for yourself!

Also, as we have done in the past, there will be a Buy One, Get One Half Off registration promotion. If a system pays for one regular priced registration, the second person from the same system is ½ off!! What a deal! Encourage your board to send a couple folks from your system. We really hope to see you there!



In closing, please keep checking our website, looking for e-mail blasts, and our fliers to register for upcoming sessions of all types. Thanks again to all of you who support the training we do, whether it is through speaking or attending as a student! See ya soon in class!!

I wish you a safe and fun summer!!



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For the past few months the National Rural Water Association has been working closely with the House Subcommittee on the Environment in Washington DC as they consider amendments to the Safe Drinking Water Act. These amendments, contained in the Drinking Water System Improvement Act of 2017 (H.R. 417), will be both good and bad for those of us in the drinking water field. This bill did pass out of the subcommittee on Thursday, July 13th and will now move on to the full Energy and Commerce Committee before being sent to the House and Senate. Lawmakers have promised to continue in their efforts to refine the bill ahead of a full-committee markup. While space is limited here, I will try to hit on a few highlights of the bill which can be found at the following web address, http://docs.house.gov/meetings/IF/IF18/20170713/106271/BILLS-115___ih.pdf.

- Extends for five more years the current “Buy American” stipulations that required the use of “domestic” iron and steel on DWSRF projects. However, provisions have been put into place that allows EPA to waive this requirement if overall project costs would be increased by more than 25 percent.
- Require recipients of DWSRF loans/grants to provide certification to their state that they have considered the costs and effectiveness of materials and techniques chosen for the project.
- Offer a two-year enforcement “reprieve” to any water system that enters into a contractual agreement to take over “significant management or administrative functions” of another system that may have a history of water quality violations. This would allow the new management, or owner, 24 months to get the troubled system back into compliance.

- Require state primacy agencies to report on all actions they have taken to encourage utility asset management planning, and also directs USEPA to periodically review and update any training materials it produces for water utility managers pertaining to asset management strategies.
- Improve DWSRF loan terms for projects serving disadvantaged communities by setting aside six percent of a state’s annual DWSRF allotment for projects in disadvantaged communities, .
- Amend the Emergency Planning and Community Right-to-Know Act to ensure that community water systems are notified of a release of a contaminant into its source waters.
- Requires that the USEPA include the cost of lead service line replacements in future Drinking Water Needs Surveys.
- Authorizes \$25 million over five years for grants to help schools replace drinking water fountains tainted with lead.

Additional provisions are being considered for insertion before the bill goes to the full Energy and Commerce Committee. Both the Republican and Democratic leadership of the committee have agreed to work together to see if agreement can be reached on the following issues before the bill is considered by the full committee:

- Changes to the current CCR notices are being discussed. These, discussions include both frequency and understandability of the required notices. Everyone is pretty well in agreement that the “required” boiler plate language could be changed so that consumers could better understand what is being reported to them. It is widely recognized that most (if not all) consumers



- disregard and discard the notice. Legislators are also discussing requiring the CCR be sent out quarterly instead of annually. Their thinking is that consumers have the right to know that a violation, exceedance, etc. has taken place in a more timely manner. This is already taking place through the tier 1 – tier 3 violation notice requirements. For most systems, the CCR changes very little (if at all) from year to year let alone on a quarterly basis.
- Requiring regular updates to VAs/ ERPs for security and resilience will also be a topic for discussion. Most VAs/ERPs, once completed, usually sit on a shelf collecting dust and are very seldom updated. This requirement would ensure they are kept up to date.
 - Changes to the Unregulated Contaminant Monitoring Rule (UCMR) is also being looked at for communities between 3,300 and 10,000 population. Currently, costs associated with UCMR testing is paid for by the federal government for communities under 10,000 and we are advocating that if this requirement is put into place all associated costs for this monitoring still be paid by the federal government. Additionally, USEPA should not require this data be included on

continued on page 24

CCRs. It is unknown and undefined as to what concentrations

of any given UCMR may cause some sort of detrimental impact on

public health. That being said, it would stand to reason that reporting such findings without a clear and concise determination of what acceptable levels are would really serve no purpose.

Depending on how the negotiations go, the bill could be ready to go before the full Energy and Commerce Committee as early as the end of July. After that, it is anyone's guess if the bill would be considered on the floor as a "stand-alone" or a candidate for inclusion in any comprehensive infrastructure legislation Congress may attempt to put together and pass later this year. 💧

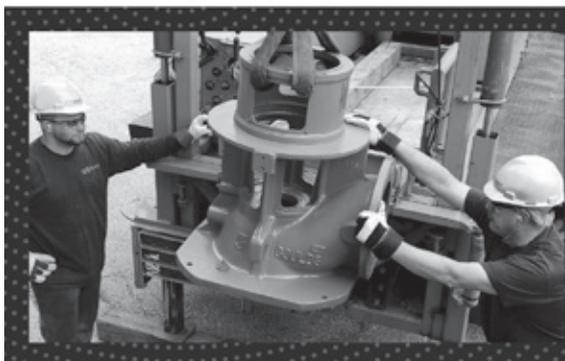
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Ford Fleet Program



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 system or company.

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!



2017 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	Exclusions
Focus	\$1400	BEV
Fusion	\$2000	Hybrid Energi
Taurus	\$3300	Police Interceptor
Econoline	\$4500	
Edge	\$2500	
Escape	\$1800	
Expedition	\$4000	

Eligible Vehicles	Incentive	Exclusions
Explorer	\$2700	Police Interceptor
F-Series Super Duty F250-F550	\$5800	
F150	\$5500	Raptor
F150 4x2 Reg Cab	\$4500	
Transit	\$3700	
Transit Connect	\$2100	

GPS/GIS MAPPING SERVICES

Through the implementation of GPS & GIS technology, IRWA can effectively produce hard copy and digital maps. With this new service available from IRWA, utilities can attain new and accurate maps to better manage their infrastructure assets.



The printed maps can be large-scale wall maps up to 36"x48" showing major water and wastewater features with the desired layers (aerial photos, streets, topography, etc.). The printed maps can also be generated into a map book format. The map book is a bound 11"x17" book of high-detail maps printed at the best available scale.

The digital map file on a CD, can be viewed and printed with free software that IRWA will provide. The software allows you to click on a waterline with a leak and highlight which valves need to be closed to isolate the line. There are also tracing features to show the direction of water flow, and other useful features.

Payment for services is determined by a charge per each system feature located. The amount charged for a Map Book will be \$50 plus \$5 per page; and a wall map is billed at \$100 per map. More information is also posted on our website, or you may call our office.

VIDEO INSPECTION SERVICES

Video inspection technology can help you identify and prioritize maintenance issues, while improving service and reducing emergency maintenance costs.



IRWA is excited to introduce our new Video Inspection Service to our members. The normal fee for this service is \$350.00 for small projects, larger projects requiring more than 1 day will be based on cost per foot.

A contract must be signed in advance of the inspection. Upon completion, your system will be invoiced for the services and will also receive a detailed report including diagrams of the inspection features, and a DVD for your references.

For more information, or to schedule an inspection of your system, please call our office at 217-287-2115 or visit our website: www.ilrwa.org



ENVIRONMENTAL RESOURCES TRAINING CENTER



One-Year Water Quality Control Operations Program

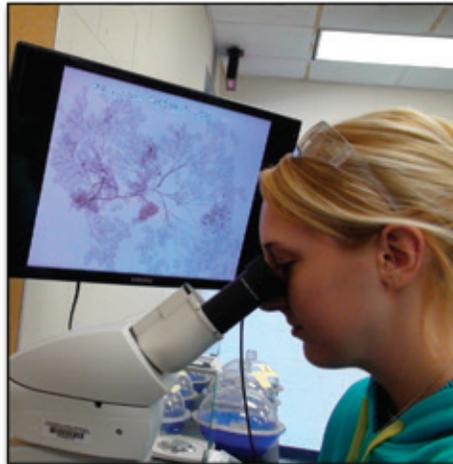
The **ERTC-SIUE Water Quality Control Operations** program is a one-year, full time program of study leading to a Certificate of Completion. Classes start in late August and end in the following July. The students' learning is split between the classroom and the operation of ERTC's **30,000 gallon/day training-scale water and wastewater treatment plants**. Upon completion of the full year program, students are eligible to take Illinois and Missouri certification exams to become certified as entry-level public water supply operators and wastewater treatment operators.

Starting salaries range from \$35,000 per year to more than \$45,000 per year. Students have access to loans, scholarships, and military veterans' grants and programs.

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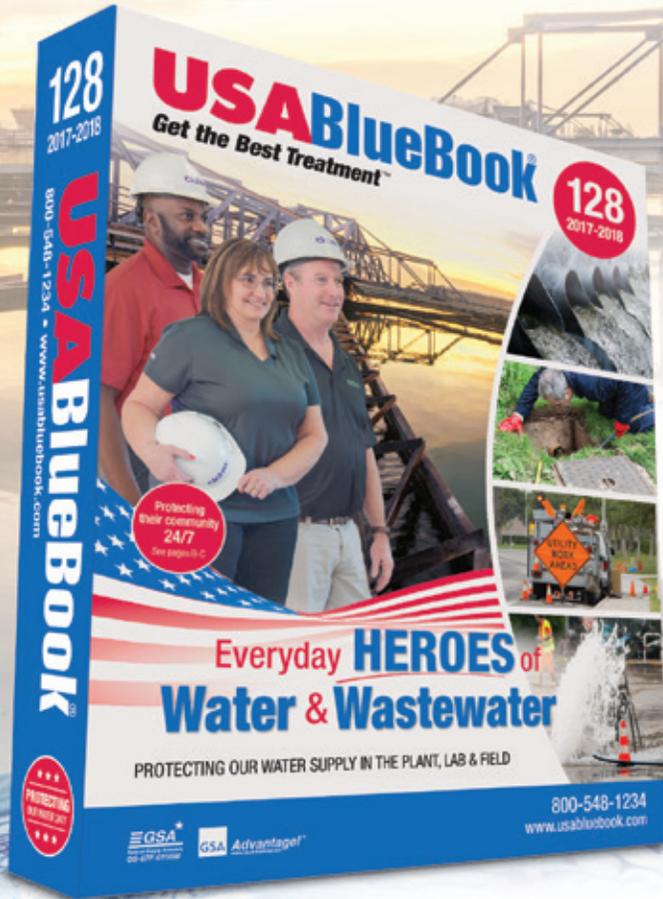
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