



Water Ways

Volume XII – Spring 2015



MANHOLE ADJUSTMENT RING

READJUST MANHOLE LIDS TO NEW ELEVATION WHEN RESURFACING

MANHOLE ADJUSTMENT RING

ONLY 4 DIMENSIONS REQUIRED

1 - O.D. of existing lid: TOP and BOTTOM

2 - thickness of existing lid

3 - riser height (thickness of asphalt matt*)

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



- * Full Range of Sizes
- * Eliminates Digging
- * Requires No Tools



Company Name _____

Contact Name _____ Phone # _____

ORDER FORM

Quantity	Manhole #	Street / Location	Lid O.D. Top / Bottom	Thickness of Lid	Desired Rise

SIMPLE—QUICK—PERMANENT

FREE DELIVERY!

Schulte Supply, Inc.

(800) 843-3711

or

FAX Your Order to: 618-656-8750

To Order, Please Call:

Illinois Rural Water Association



BOARD OF DIRECTORS

PRESIDENT

GREG BATES

Jersey County Water Company

VICE PRESIDENT

DALE HANNER

City of Oakland

SECRETARY

JAY BELL

TREASURER

JEFF TUMIATI

Village of Stonington

BOARD MEMBERS

STEVE FLETCHER

Washington County Water Company

JACQUE PLESE

City of Wilmington

PERRY MUSGRAVE

Lake of Egypt P.W.D.

WAYNE DIXON

City of Mason City

JEFF McCREADY

Village of Woodhull

STAFF

FRANK DUNMIRE

Executive Director

dunmire@ilrwa.org • 217-820-4626

DON CRAIG

Deputy Director

craig@ilrwa.org • 217-561-1061

HEATHER MCLEOD

Membership Services Assistant

ilrwham@ilrwa.org

DENISE BURKE

Administrative/Program Assistant

ilrwadb@ilrwa.org

PHIL DONELSON

Training & Marketing

donelson@ilrwa.org • 217-820-1560

WAYNE NELSON

EPA Training Specialist

ilrwanw@ilrwa.org • 217-820-1561

GALE MOORE

Circuit Rider

moore@ilrwa.org • 217-820-4754

ROGER NOE

Circuit Rider

noe@ilrwa.org • 217-820-1564

CHUCK WOODWORTH

Circuit Rider

ilrwacw@ilrwa.org • 217-820-1569

JOHN BELL

Wastewater Technician

ilrwajb@ilrwa.org • 217-820-1568

EVAN JONES

Wastewater Technician

jones@ilrwa.org • 217-820-5508

MARK MITCHELL

USDA Source Water Specialist

mitchell@ilrwa.org • 217-820-1565

ARTICLES

Where Did The Years Go?	by Don L. Craig	4
WaterPro Conference		6
IRWA's 3rd Annual Spring Administrative Conference.....		7
Creature From the Black Lagoon.....	by John Bell	9
Wastewater Treatment Bar Screens.....	by Dale Hanner	10
Geothermal: Saving Our Resources and Also a Few Bucks!	by Wayne Nelson	12
Pictures from Around the State		14
2015 Annual Conference Wrap-Up.....	by Heather McLeod	15
To Do or Not To Do	by Scott Friedman	19
IRWA Providing E-CCR Hosting		21
Just For Fun!		
Crossword Puzzle		22
Crossword Puzzle Answer Key.....		24
Member Services:		
WaterPro Online Community		23
GPS/GIS Mapping		25
Video Inspection		25
What's In It For Me?.....		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 picture of the barn on the front cover
was taken in Southern 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.

**Quality
On Tap!**
Our Commitment  Our Profession



Find us under Illinois Rural Water Association

LIST OF ADVERTISERS

American Flow Control	17
Cady Aquastore.....	27
CEU Plan	11
Chlorinators Incorporated.....	19
CoBank.....	18
Coe Equipment, Inc.....	18
Crawford, Murphy & Tilly, Inc.	6
Curry & Associates	18
Flo Systems	18
Heneghan & Associates, P.C.....	9
Maguire Iron Inc.....	5
Metropolitan Industries	8
Pittsburg Tank & Tower Maintenance	4
Ressler & Associates	24
Schulte Supply, Inc.....	2
Taylor Coating Sales, Inc.....	17
Test, Inc.....	6
The Ford Meter Box Co., Inc.	7
United Systems & Software	11
USA Bluebook	28
Water Well Solutions.....	11

Where Did The Years Go?

by Don L. Craig,
IRWA Deputy Director

Hard to believe...especially for me... but, April 15th marks my 30th year anniversary working in the Rural Water Association 'family'; starting out with the Illinois Rural Water Association in 1985, as the Circuit Rider... covering the entire state. I was fortunate enough to have NRWA's R.K Johnson, the Administrator at that time, in attendance at the IRWA board meeting, at which they approved my hiring. Back then; I was one of only two employees. The Program Manager filled the other slot. We were a 'team', because we wanted to... and because it was a necessity, for an organization that was still, somewhat, in its infancy. When I started, I believe, IRWA had only 72 member systems through the first six years of that Association... and through our 'teamwork', we had increased that

number to nearly 350 when I left two years, and 8 months later. In January of 1988, I was fortunate enough to be selected and hired to work for the National Rural Water Association as part of the newly formed Asset Management Program. Then in June of 2009, I came back to work for the Illinois Rural Water Association, in the newly developed Deputy Executive Director position. I publicly want to thank Executive Director, Frank Dunmire, and the IRWA Board for that opportunity.

Back when I started out with the IRWA as its Circuit Rider, I figured I had a 'handle' on everything I need to know about the waterworks field... It took just a couple days, to realize that I didn't know it all, and more importantly, to understand just what the importance of that job entailed. I realized that I was a 'middle man' to help pass along information, recommendations, and instruction to hard working individuals that just wanted to do the best job they could. Also, as time progressed, I learned the real 'value' of the IRWA as its own entity. And, more importantly, I understood the scope of an organization that was just one cog in the wheel of a much bigger and more influential alliance of many such organizations, through the National Rural Water Association. Technical assistance and training was, and is, so very important... but the 'real' power each association has, is through its membership, and thus being a 'whole' of a national organization that has clout in federal legislation affecting rural systems.



I have always felt, that factor was just as important for system personnel and administrations to understand, as is the valuable assistance we having continued to put forth in the field and in training seminars.

Illinois Rural Water Association has a very good staff in the field, and at the office, that are committed to the continued growth of the organization; and, to make sure that our members and all rural water and wastewater systems throughout the state, receive the best training and assistance that we can offer. Also, just as important as the staff, is the IRWA Board, which empowers those staff people to provide the best services possible, to all rural public systems in the state.

Just as those who have been around as long, or longer than myself...I have seen tremendous change, and more importantly, growth within this 'state and national organization'. Those aspects have, in the long run, helped to secure recognition and power for state

continued on page 5

**PITTSBURG
TANK & TOWER
MAINTENANCE CO., INC.**

SAVE!

**We have a crew in
YOUR AREA!**

Inspections	Repair	New & Used	Tanks
Wet	In Service Cleaning	Relocation	Elevated
Dry	Paint	Erection	Underground
ROV	Insulation	Dismantles	Ground Storage

ROV inspections can be viewed on TV console during inspection & DVD provided. All inspections include bound reports, recommendations and cost estimates.

Patrick Heltsley
270-826-9000 Ext. 253
270-748-1325
www.watertank.com

Where Did The Years Go?

continued from page 4

rural water associations, as well as rural water and wastewater utilities across the nation. That is not to say that growth does not come without some problems; but hopefully, we all learn and improve from our mistakes... myself included.

I just wanted everyone associated with this organization, and especially those that I have known for years, to realize how much I really do appreciate being part of something... that has really meant and shown 'something' to so many. 



The ducks don't seem too interested, but these Illinois geese are definitely not camera shy!

WE ARE AN **AMERICAN** TRADITION

WE ARE MAGUIRE IRON

We've been providing communities with functional landmarks since 1915. Maguire Iron designs, fabricates, erects, paints and repairs water towers and tanks. We look forward to the next century with great pride as a family-owned American company.



MAGUIREIRON.COM | 605 334-9749

WATER TOWER SPECIALISTS



STATE & NATIONAL RURAL WATER ASSOCIATION'S

WaterPro® Conference

Sept. 28-30, 2015



OKLAHOMA CITY



Total Environmental Service Technologies, Inc.



- Sampling & Field Related Services •
 - Contract Services – Water/Wastewater •
 - Regulatory Compliance Services •
 - Certified Laboratory •
 - IEPA Regional Lab •
 - Consultant Services •
- Over 100 Plants & Operations
throughout Illinois

Peru, Illinois Established 1987
815-224-1650 www.testinc.com

- Bushnell • Carthage • Hinckley • Peru •
- Avon • Prairie City • Dallas City •
- Creve Coeur •

2014 Design Firm
of the Year
ENR Midwest

Comprehensive Services for Illinois
WATER INFRASTRUCTURE
Since 1946
PLANNING • DESIGN • CONSTRUCTION OBSERVATION • START-UP • SUPPORT



CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

2750 WEST WASHINGTON STREET
SPRINGFIELD, ILL 62702
217.787.8050
www.cmtengr.com

ILLINOIS OFFICES: Springfield, Edwardsville, Peoria, Rockford, Aurora, Chicago

IRWA's 3rd Annual Spring Administrative Conference!



May 14 & 15, 2015

Four Points by Sheraton
319 Fountains Parkway
Fairview Heights, IL
618-622-9500 (ask for ILLRA block)
Block room rates are open until 4/24/15
Double Room - \$87
King Room - \$92
King Suite - \$107

This conference is geared toward clerks and office staff.

This will be a full day of training on Thursday, May 14th and will run through noon on Friday, May 15th.

The event will give you a great opportunity to connect and collaborate with your peers
and not to mention the close proximity to some great shopping and restaurants.

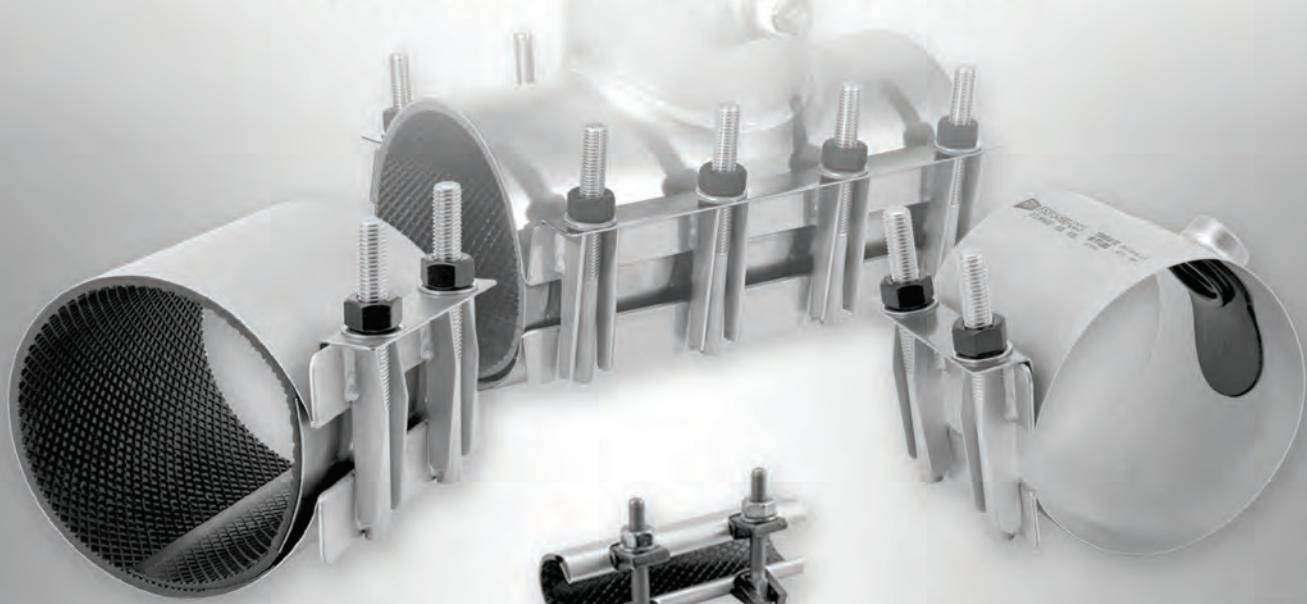
TOPICS INCLUDE:

- Electronic Payments
- Banking Security
- Automated Meter Reading Software
- Workers Compensation Laws
- Social Media Liability

See the printable agenda online for more topics and other information at ilrwa.org.

Stainless Steel Products

Superior Quality – Superior Protection

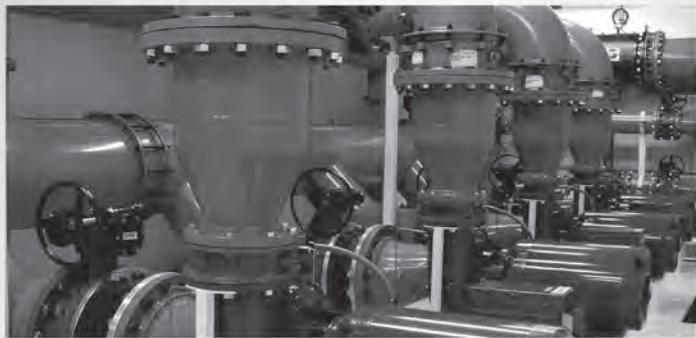


www.fordmeterbox.com
260-563-3171

**STAINLESS
STEEL**
by Ford Meter Box



TACKLING THE CHALLENGES OF MUNICIPALITIES TRIED.TESTED.TRUSTED.



Booster Pump Stations



Break Tank Systems



Housed Pump Systems



Lift Stations-New and Retro-fit Upgrades



Custom Control Packages



Control Solutions



 **Metropolitan
Industries, Inc.**

37 Forestwood Drive
Romeoville, IL 60446
Phone: 815.886.9200
www.metropolitanind.com



Creature From the Black Lagoon

by John Bell,
IRWA Wastewater Technician

The "Creature From the Black Lagoon" was a 1954 monster-horror film which featured a Piscine Age amphibious humanoid lurking in the Amazonian jungle. The plot revolves around a group of scientists trying to capture the humanoid and take it back to civilization for study. The 3-D film was 59 minutes in length and the scientists did not accomplish the task of capturing the creature. At the time, a "cool" film for a nine year old movie viewer. Little did I know what lay in store for me about observing lagoons when I grew older.

I am not aware of any "black-lagoons" nor the existence of an "amphibious humanoid" lurking in the lagoons of Illinois. Most of the Illinois lagoons that I have observed are green in color, with a few exceptions of gray, and are designated for lurking algae and single cell plants and animals that are intended to treat waste water. That's not to say a few creatures don't lurk around lagoons in Illinois. Such creatures do exist and they can cause a great deal of harm if found lurking about your lagoon. The pesky muskrat immediately comes to mind. This little furry, cuddly mammal can cause a few sleepless nights for operators if allowed to do his thing at a treatment lagoon. This creature loves to burrow! Like his cousin the beaver, the

muskrat will burrow into a bank and have an underwater entrance to his place. This means a below water level hole leading to the outside edge of a lagoon berm. This is not a good situation. The muskrat can cause enough damage, if not controlled, that major repairs costing thousands of dollars may be needed to stabilize a berm. Your council remembers this type of treatment facility being lauded as cheap to build and maintenance free. With this mindset it may be difficult to convince them that a major rehabilitation, accompanied with additional expense is necessary. The "maintenance FREE" part seems to be the thing that is often remembered. The Illinois Department of Natural Resources allows trapping of the muskrat from approximately November to the end of January. In some emergency situations, they will allow "trap and move" during the year. When mowing or just routinely driving around your lagoon keep an eye out for the tell-tale sign of the muskrat. This includes soft spots in the drive area, leaking berm sites and seeing the little critter at your lagoon. Don't wait for the muskrat to leave on his own. The treatment lagoon has all the amenities that he desires and a food source is a top priority. The muskrat's food source consists of frogs, crayfish and small turtles. All of which are plentiful in a lagoon.



Speaking of turtles, these guys can be a pain in the you know what. You and I know they don't burrow. However, they make a wonderful plug. Just ask an operator that has had to unplug a discharge line. Combating an amphibious humanoid would be childs-play compared to opening a line plugged with a turtle shell. In Illinois the turtle has a high status with IDNR so you should check with them if you intend to rid yourself of this creature. That is about all the creature news I have for now. Again, a word to the wise about lagoons. They are most certainly not maintenance free! Most treatment lagoons have been located to be out of sight and thus out of mind, but a major expense has been made by a community and thus they need to be well maintained. ♦



HENEGHAN & ASSOCIATES, P.C.

Engineering Solutions Since 1986

www.haengr.com

888-291-7615

**Water Treatment Plants
Ground Storage Tanks
Elevated Tanks
Pump Stations**

**Storm Water
Conceptual Design
Permitting
Grant Writing**

"Dedicating Our Services to Strengthen Client Trust"

Centralia • Columbia • Godfrey • Jerseyville



Wastewater Treatment Bar Screens

**by Dale Hanner,
IRWA District 6 Board Member**

Bar screens are just that, a bar grid or rack of bars spaced equal distance apart in the incoming channel of the treatment facility. These screens are usually made of stainless steel or some type of material that will not breakdown from interaction with the incoming influent. The bar screens are usually placed at a 35 or 60 degree angle from the horizon.

Basically there are two types of bar screens. There are manual ones and as the name infers, they are labor intensive and usually only found in smaller treatment facilities. Either you or one of your staff has to manually rake or clean the bar screen to keep unwanted materials from entering your treatment process. The materials then have to be disposed of in the proper way. I have noticed at my facility that the heavy duty wipes that are being sold to do about any type of cleaning or clean up are our major bar screen collection item. This type of wipe usually does not deteriorate by the time they reach our facility, if they ever do. We have found small pieces of 2X4's, small rocks, golf balls, dish rags, small toys and other items we will not mention. One day we also found an interesting item, which I will explain later in this article.

The second type of bar screen is the mechanical type. This type is usually powered by electric motors. The motors have to be explosion proof because of the possible accumulation of methane gas. Mechanical bar screens are used

in larger treatment facilities where the influent flows are much greater than at smaller treatment facilities. With higher flows the bar screens need to be cleaned more frequently to prevent backups of the incoming flow.

There are several types of mechanical bar screens. In larger plants there are multiple bar screens, so when one has to be taken out of service for maintenance, the treatment plant can continue to operate.

Most mechanical bar screens operate on the premise of some type of tine that is placed in the space between the bars and is mechanically moved to remove the debris that has collected on the bar screen.

The one exception to the mechanical bar screen is the continuous belt bar screen. This is a wide belt in the channel with some type of hooks attached to the belt that removes materials from the wastewater channel. Continuous belt bar screens are still operated with explosion proof electric motors.

Back to my interesting bar screen find. We had just replaced our old float system with a sensing rod to control our main lift station pumps. We were checking the pump flow entering the bar screen to make sure it was not going to overflow. When the influent emptied, I noticed something at the base of the bar screen that appeared to be a ring. Upon further inspection it was a class ring. We



cleaned the ring and determined it was from a near by town. The year on the class ring was 1988, our plant was put into operation in 1982. We were also able to read the individual's maiden name inscribed on the inside of the band. My assistant mentioned the find to his wife while at home for lunch. She put the individuals maiden name on Facebook and before lunch was over, she received a response from a woman that knew the owner of the ring. The person that owned the class ring was a niece of a family that lived in town and had lost it down their sink drain not too long after she had purchased it.

We determined that the class ring travels took 26 years, traveled 6,115 feet, through 21 manholes and passed through one of our main lift station pumps before it settled at the base of our bar screen. Except for being a little tarnished, the class ring was in excellent shape and returned to the surprised original owner. A happy ending! 💧

United Systems

- >> Software
- >> AMR / AMI
- >> Water Loss



Itron

Contact: Scott Smith - Email: scotts@united-system.com
Mobile: 270.703.0697 Web: www.united-systems.com

Well and Pump Rehabilitation

24 Hour / 7 Day a Week Service

Water Well Solutions

Design, Service, & Installation

888-769-9009
Oconomowoc, WI • Elburn, IL
www.waterwellsolutions.com

Booster Systems

Electrical Controls

CEU PLAN

www.ceuplan.com

**CEU Credits
Online !**

* Largest online training for water and wastewater in the country

* Learn from over 40 Top Experts in the field

* Water and wastewater CEU credits online

* Over 200 courses available

Geothermal: Saving Our Resources and Also a Few Bucks!

**by Wayne Nelson,
IRWA Training Specialist**

We all know that saving our natural resources is a good thing and our everyday actions should reflect that. This includes everything from slowing down on the highway to save gas to recycling aluminum cans. However, my cynical side always tells me that more people are environmentalists when the price of aluminum cans is 60 cents/pound than when they're 40 cents/pound. It's just human nature to appreciate saving a few bucks.

That's why I want to discuss the use of geo-thermal heating and cooling in homes, businesses, schools, water plants, and municipal buildings. While the initial cost is higher, the yearly

operating costs will afford payback in a matter of a few years and it is definitely good for our environment. As I travel, I see more and more government buildings using geothermal for its heating/cooling purposes.

Over my years with the Illinois Rural Water Association I've been in a lot of water and wastewater plants located "in the boonies" that have to use propane gas for heat. We all know (especially after last winter) that this can cost systems major dollars. Some plants utilize electric heat but this option also isn't cheap.

I suggest that systems consider geothermal as a heating option for their buildings. In researching the benefits of geothermal I've found that these installations can save systems half (or more) of their annual heating and cooling costs. And, I recently put my money where my mouth is.

My home is 30 years old and my furnace and central-air was original equipment. Quotes for a new furnace/AC unit were \$5000-6000.00 and my only fuel option would still be LP gas.

I had a geothermal heating/cooling unit installed in my rural home that went on-line in August, 2014.

The day that it went on-line the heat index was 111° degrees but it kept the house a steady 68 degrees. I saw a major drop in my electrical bill (A/C) immediately after installation. FYI: During my research, one long-time geothermal user told me that his air-conditioning needs cost him \$12.00/



month even during the hottest months.

After an unseasonably cold November, a decent December, and a January and February that has been nothing short of frigid, I can say that my home has stayed very comfortable at a constant temperature of 72 degrees. While my rural electric cooperative bill for February was \$150 higher than usual it has more than worked out since I didn't have to pay my typical February bill for propane that is usually between \$500.00-600.00.

In addition, the unit has a 60 gallon water tank (taller tank on left side of picture) that is kept warm by the water furnace. This water in this tank is warm enough to take a shower. My water heater (in front on left) only has to warm this water up another 20 degrees for washing clothing and dishes.

While the only slight downside of geothermal is the initial cost the system will pay for itself. Of course, this payback will be based on the type of heating energy used before. The payback rate for a household using natural gas will

continued on page 16



Exclusively for RURAL WATER!

Ford

FLEET PRICING!



3305 Kennedy Road
PO Box 49, Taylorville, IL 62568
Phone: 217-287-2115
ilrwa@ilrwa.org

PRESENTED BY

Ford FLEET

Pictures From Around the State



2015 Annual Conference Wrap-Up

*by Heather McLeod,
IRWA Membership Services Assistant*

Another successful conference in Effingham is behind us. I would like to begin by saying thank you to all of the IRWA staff and board members who help to make this conference so successful. I may be the one who gets it organized and you all see running up and down the halls to check on a question at the registration desk, or how to enter a new person at the Sportsman's Raffle desk – but the rest of the IRWA staff are the ones who greet you with a smile at our registration desk when you arrive and get you a nametag and who are seamlessly running

the training sessions and other events at the conference. Our board members are there to help keep attendees out of the exhibitor's way while they set up, and also help us to organize the Sportsman's raffle jugs and sell tickets at the raffle desk. I could not pull off this conference without ALL of them!

Speaking of Sportsman's raffle, this year's raffle brought in 43 prizes from our exhibitors and raised \$8,349. It is through this raffle that we are able to send our required donation to National



Rural Water Association for lobbying efforts to help keep our funding for our Circuit Rider, Wastewater and Training programs. The remaining money stays

with your Association to help upgrade any equipment for the staff to use when helping out our Voting members. Thank you to all who either donated prizes and/or

continued on page 16



2015 Annual Conference Wrap-Up

continued from page 15

purchased tickets. A special Thank you also goes to Tom Rodebaugh and Carlos Covarrubias for helping to organize the prizes as they came in and selling tickets for us up until the last minute of the raffle, and to the Southern Illinois Water Operators Association for their donation of a ladder and a 50 inch TV to our auction held after casino night.

This year we had **101 exhibit booths** scattered throughout the conference center. Besides the **43 raffle prizes**, the exhibitors also donated \$1,525.00 in cash prizes to give away and \$775.00 towards

the Associate Member Scholarship. Congratulations to Taylor Elizabeth Koonce from Dupo and Caleb Stanley Crawford from Girard who won the **\$1,000 Scholarships**.

Since our “Professor Faucet” Cecil Van Etten passed away last summer, we thought it would be fitting to retire his cap and gown as we chose the best tasting water in Illinois for 2015. The winner, EJ Water Cooperative, Inc., was chosen after 15 samples were tasted. Thank you to the judges of the contest: Roger Watwood from J.U.L.I.E., and Chad Travnick

and Don Scaturro from Illinois Electric Works.

We were very close to an attendance record, with 437 people coming to catch some of the 12.5 credit hours offered, to visit with the exhibitors, or just to see if what they have heard about our conference was true!

Make sure to check out our facebook page for pictures of all of the winners of our Awards ceremony, Sportsman’s Raffle and Casino night winners. While you are there – “Like” us if you don’t already! 

The 2016 Annual Conference will be held February 16, 17 & 18!

Geothermal: Saving Our Resources and Also a Few Bucks!

continued from page 12

be much longer than one using electricity or propane gas.

However, paying the cost of my installation is made easier since I will get 30% of the project cost back on my income tax check this spring. This 30% savings covers all labor and most materials if the unit is an approved furnace. When they saw the installation crew, my neighbors told me that they

have been using geothermal since their homes were built. Both sang the praises of the low costs and the uniform heating and cooling.

So, if you are considering constructing new buildings or retrofitting old ones and have the space for the loop system, you might want to consider geothermal. On my project the installer drilled three 150-feet vertical wells

instead of the horizontal loops. The only indication of any outside work is a forty foot trench line from my house.

Of course, public systems can't get the 30% tax credit since they don't pay income tax but the overall operating costs will save your system some major dollars. And, at the same time, we can help save the earth's limited natural resources. 

Think Tnemec.

Tnemec Company has been the leading supplier of protective coatings to the water industry for decades. Our extensive line of proven products offers unparalleled corrosion protection and aesthetics, extending your maintenance cycles and providing unmatched life-cycle value. Contact us for a complimentary protective coatings packet or coating system consultation. When you think of coatings, think Tnemec.

Contact your local Tnemec coatings consultant:

Northern Illinois

Erik Otten

Taylor Coating Sales, Inc.
Tel: (708) 387-0305
eotten@tnemec.com

Western Illinois

Keith Kennett

Taylor Coating Sales, Inc.
Tel: (309) 945-2094
kkennett@tnemec.com

Southern Illinois

Mike Cerutti

Coating Solutions, LLC
Tel: (314) 703-8042
mcerutti@tnemec.com

Normal, Illinois
2014 Tank of the Year Finalist



Pekin
ILLINOIS

Pekin, Illinois
2014 Tank of the Year Finalist



1-800-TNEMEC1 www.tnemec.com

Revolutionary Flow Control.
That's the American Way.

american-usa.com
1-800-326-8051

Made in America by AMERICAN.

 **AMERICAN**
FLOW CONTROL
THE RIGHT WAY



BENEFITS FOR THE END USER:

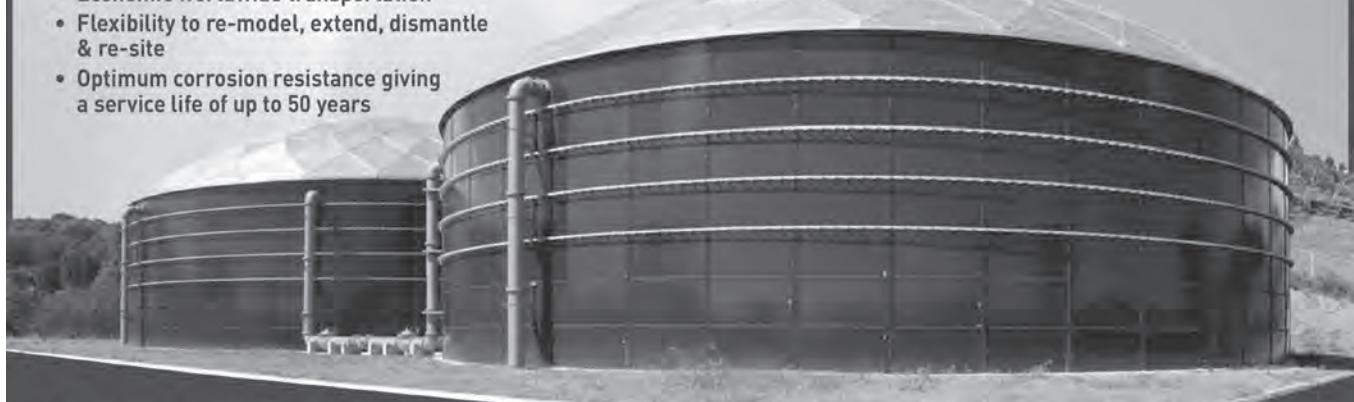
The FUSION® Glass-Fused-to-Steel modular design offers numerous benefits:

- Rapid installation reducing erection time, labor & cost
- Economic worldwide transportation
- Flexibility to re-model, extend, dismantle & re-site
- Optimum corrosion resistance giving a service life of up to 50 years

Fusion Tanks & Silos is the market leader in Glass-Fused-to-Steel Tanks & Silos with over 50 years experience and 300,000 tanks & silos installed worldwide through our global distributor network.

APPLICATIONS:

Drinking water, wastewater & sewage, effluent storage & processing, mining water, leachate storage, desalination, dry bulk storage, renewable energy biogas production/AD and slurry storage to name a few.



COVERING SOUTHERN, IL AND EASTERN, MO:



Fusion Tanks & Silos is the Registered Trade Name in the USA of PermaStore Ltd of the United Kingdom.

905 Cherry Lane, Troy, IL 62294

Voice: (618) 667-7890 Email: info@flosystems.com

www.flosystems.com

Marty Coe



- 5953 Cherry Street
- Rochester, IL 62563
- Telephone: 217-498-7200
- FAX: 217-498-7205
- marty.coe@coe-equipment.com



Serving Illinois and Missouri
Vactor & All Sewer Cleaning Equipment



QUICK & EASY FINANCING SOLUTIONS



www.cobank.com/h2oloan
844-846-3135

Proud Member of the Farm Credit System

That is the question...whether 'tis nobler to spend eighteen hours a day trying frantically to wipe out your "to do" list, or to throw in the towel and admit that not even an army of ants could get it all done. You're zipping along in the fast lane of life. You've got e-mail, voice mail, a pager, a cell phone, and a lap top computer-- all supposedly designed to bring you convenience and flexibility. Along with all that convenience are 53 unanswered e-mails, a pile of voice mails delivered at midnight, and a page sounding in the middle of your child's soccer game. What's worse is that we have come to accept this high-speed rat race as the norm.

Humor me and answer these questions:

- Do you have things on your "to do" list from last week, last month, last year?
- Do you go into withdrawal if you forget your cell phone?
- Do you routinely work at home in the evenings or on weekends?
- Have you considered having your pager implanted on your arm?
- Do you fantasize about putting this message on your voice mail:

"Hi, this is Bob in Accounting. I can't take your call right now because I'm busy having a nervous breakdown. I'm sure that the reason you called is very important. I hope to call you back sometime this decade if I don't die of exhaustion. Have a terrific day. Beeeeeeeeep."

It's no surprise if you answered yes to any of those questions. An article in *Fast Company* magazine entitled, "Don't Manage Time, Manage Yourself" by David Beardsley states that the average businessperson has a chronic backlog of 200 to 300 hours of uncompleted work! That's a month or more! It's impossible to catch up — that's the bad news. People everywhere are routinely a month behind. That brings us to the \$63,000 question. If we can't get it all done, how do we actually live with the pressure of always being behind? The answer just may lie in the wisdom of the Tao Te Ching. This ancient Chinese book reminds us to seek simplicity, to let go.

The Tao states, "In letting go, it all gets done. The world is won by those who let it go." The good news is that when you surrender to the reality that you can't do it all, your stress level goes way down and your quality of life goes way up. Am I saying just forget about your responsibilities and walk away? No, ignoring things won't make them go away. I'm saying take some time and look at

yourself and your life and figure out what you need to let go of to feel good. Maybe you need to let go of the belief that in order to go home from work you must have your work finished, or have a very good handle on it. Perhaps you need to let go of the idea that you have to be in total control all the time. With change being flung at us constantly, we have a tendency to hold on tighter because of our fears. Yet, if we could only let go and live with uncertainty, we'd actually be a lot happier. It's tough letting go because we feel out of our

continued on page 20



Celebrating
40 YEARS
serving the
water quality
and
wastewater
industries

REGAL™
GAS CHLORINATOR

Your TRUSTED Selection
for Water Disinfection

.....



@chlorinators incorporated
1044 SE Dixie Cutoff Road, Stuart, FL 34994 USA
Tel: 772-288-4854 • Fax: 772-287-3238
www.regalchlorinators.com • Email: regal@regalchlorinators.com

MADE IN THE USA ★★★★

The REGAL™ Gas Chlorinator is made with pride in the USA and sets the standard for safety, reliability and economy, with the fewest replacement parts.

comfort zones and even incompetent at times. I know I get nervous when I feel like I'm in completely new territory and nothing seems familiar. I had a Macintosh computer ever since I can remember. Many of my friends and colleagues switched to an IBM platform because the Mac was no longer meeting their needs. I shared some of the same frustrations, yet I didn't want to switch. I had never even turned on a PC before.

Finally, my frustration got so high that I made the switch. At first, the learning curve was painful, but now I look back and I can't believe I waited so long. Don't we frequently say that after we've made a major switch in our lives? Once we released the fear and took the plunge—whatever it was—we often say, "I wish I had done it sooner." The other great bonus in letting go of fear and making a change is the learning that comes from it. It's revitalizing. It's energizing. Staying energized is tough if you feel like you are always behind. Living faster and harder does not improve quality of life; living with more focus does. You can't be focused and energetic if you are running nonstop, trying to do everything. Instead of adding every event, project, goal and opportunity to your list that comes your way, you must become discriminating. You need to become a connoisseur of possible "to do's." Reframe the way you think about your "to do" list. Instead of viewing your list as an endless list of obligations, it

should be a reflection of your passions and priorities. It should be an honor to get on your list. The key to creating a Grade A list is to really take some time to affirm your priorities. To be effective, this requires honest soul searching about some difficult choices. A fast track at the office, involved parenting, a serious hobby, volunteering, and season tickets to 81 home baseball games is probably too much to juggle. You can't avoid making these choices. You have to set your priorities. Once you have decided what's important your world gets a whole lot clearer. When you ask yourself, "Is chairing this committee in alignment with my priorities?" you'll know whether to accept or not.

You will be able to let go of other potential distractions and unwanted commitments. Jeffrey Miller, President and CEO of Documentum said it well when he stated, "There is always too much work to do and not enough time to do it. In order to prevent insanity, frustration and burn out, we need to develop our own pace and then develop laser-like focus on your priorities." Day in and day out it's still tough to keep track of priorities. I have found something that really helps keep my priorities in focus. Every night, the last thing I do before I end my workday is to make a realistic list for the following day. Don't make your list too long to achieve. Stick to four to six items. Through trial and error, I have discovered that it's

best to allow for the unexpected. I leave open some unscheduled time to build in for distractions that invariably crop up. The other element I include is time for important long-term projects. I spend a set amount of time working on one component of a big project. This is true whether it's a work-related project or a personal goal.

The other tools I regularly use are three questions I repeat like a mantra. They are:

- 1) What's important? This reminds me what my priorities are because sometimes it's hard to decline appealing invitations that are not reflective of my priorities.
- 2) What's important now? What has to be done now, today, and this week? This keeps me from getting distracted and focusing on good things at the wrong time. And,
- 3) What's important, not? I phrase this one with the "not" at the end because so often we think something is important and then belatedly realize it's not.

Once you determine what's important and establish your priorities, it becomes much easier to eliminate the clutter that can cloud your vision. Once we let go of what isn't important and what we can't control, we can enjoy the wild ride. Maybe you can even let go and ride "no-handed!"

IRWA Providing E-CCR Hosting

In January 2013, Congress passed legislation that would allow systems of any population to post their CCR's on-line as a method of delivery to their customers. This option will save time, resources and money!

The fee for us to host this on our website is only \$75.00 per year for members and \$100.00 for non-members. This is if the copy you provide is ready to post. If it has errors and needs cleaned up, an additional \$25.00 will be charged. You will be invoiced after your CCR is posted and it is payable via check or credit card.

All you need to do is follow the 3 easy steps below:

1. **E-mail us your completed CCR** (IF a system utilizes the CCR for issuing Tier 3 public notices, we would also need a copy of the notice with all required information. This notice would be placed at the end of the CCR.)
2. **We will post it on our site and e-mail you the link that goes directly to your CCR**
3. **You can then post that link wherever your customers can see it (billing statements, postcards, newsletters, etc.)**

If you have any general questions about the CCR you may contact Wayne Nelson at 217-820-1561 or email him at ilrwawn@ilrwa.org. If you have your CCR completed, and would like to post it on our site, email Heather at ilr wahm@ilrwa.org.

Things you should know about posting your CCR on-line (no matter which site you use):

- ** The e-CCR must contain all required language, data, definitions, and violations, as well as a phone number and contact person so that customers may call you with any questions.
- ** The e-CCR content must be in pdf or html format and contain exactly the same information as any copies that are posted, or mailed in hard copy format.
- ** CCR must be posted on-line for at least three months. This time period can exceed three months, however once it is posted, the original content and format cannot be changed.
- ** The link used for the e-CCR must take customers directly to the CCR with no additional navigation

This option can be used in place of newspaper, direct-mail, or hand-delivery of reports.

Since the eCCR notice will be given to ALL customers (via billings) of the availability on-line or the option of having a report mailed to them, this meets all Methods of Delivery options, including the direct-mail or hand-delivery method in the event that the system experienced an MCL violation. This language is found on the CCR Delivery Requirements page (under Method A, Option 2) that was sent to systems with their CCR certification form.

Important to note that the system is still responsible for submitting to the agency all required materials:

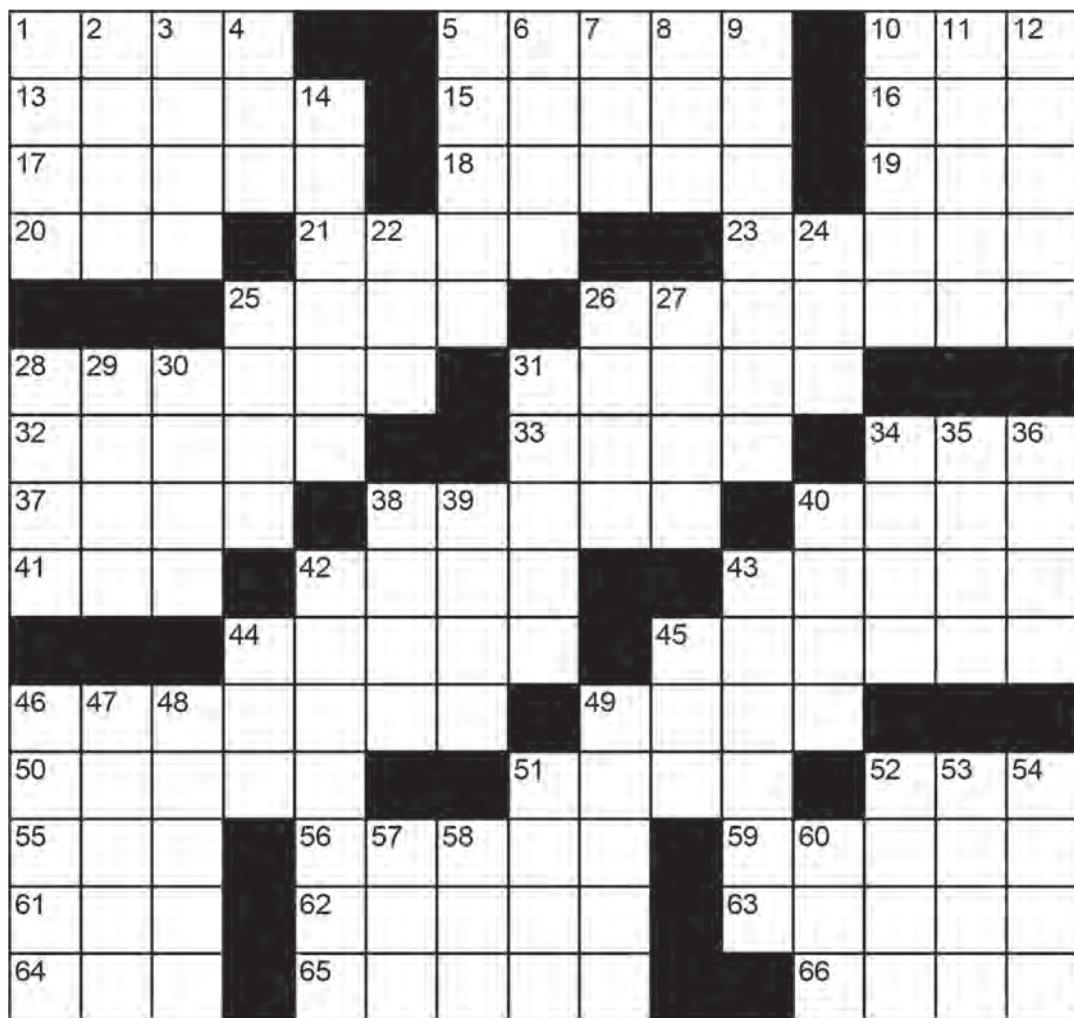
- A. Hard copy of the CCR
- B. Hard copy of the Public Notice (if one was issued with CCR)
- C. Copy of the billing with required eCCR availability language, including URL address
- D. Completed CCR certification form
- E. Completed Public Notice certification form (if public notice was included at end of CCR)

Just For Fun!

Crossword Puzzle

Down

- 1 Has
 2 Selector
 3 Cart for hauling heavy things
 4 Part of a min.
 5 Ladies
 6 Fake butter
 7 Tell a tall tale
 8 Fall mo.
 9 Saved
 10 Core
 11 Drivel
 12 Inscribed pillar
 14 Squishy
 22 Turn tail
 24 Alternative (abbr.)
 25 Fish breathing slits
 26 Preposition
 27 Part of the "KKK"
 28 Freeway entrance
 29 Fencing sword
 30 Buck
 31 Large religion
 34 Away
 35 Native ruler
 36 Not as much
 38 Mr. Donahue
 39 Tube
 40 _____ hoop (child's toy)



- 42 incorrectly
 43 Breath mint
 44 Pressure unit
 45 Grease
 46 Weight unit
 47 End of the alphabet
 48 Nominated
 49 Elite intellectuals' society
 51 Puff
 52 Organization of Petroleum Exporting Countries
 53 Animal insect
 54 Sensed
 57 Caustic substance
 58 Long time
 60 Mr.'s wife.

Across

- | | | |
|---|--------------------------|------------------|
| 1 Chances of winning | 23 Christmas _____ | 44 Rainbow maker |
| 5 Sorrow | 25 African antelope | 45 Lubricators |
| 10 Discs | 26 Luau guitar | 46 Soothe |
| 13 Electrical connections | 28 Renounce | 49 Mineral |
| 15 Girl in Wonderland | 31 Cove | 50 Forcefully |
| 16 Artist's creation | 32 Ably | 51 Disconnected |
| 17 National Association for the Advancement of Colored People | 33 Wall support | 55 Rock group |
| 18 Sees | 34 Hair stuff | 56 Reap |
| 19 Buck's mate | 37 Grain | 59 Plentiful |
| 20 Slick | 38 Herb | 61 Ripe |
| 21 Brand of sandwich cookie | 40 _____ schooled, place | 62 French city |
| | 41 Wooden leg | 64 Little bit |
| | 42 Horse command | 65 Rumormonger |
| | 43 National capital | 66 Get out! |

Answers on page 24

Come on in! Check out ALL the benefits
and information available only to members!

WaterPro[®]

Online Community



Share



Network



Discover



Where Water Pros Go!

<http://waterprocommunity.org>



Crossword Puzzle Answer Key



P.O. Box 4018
Ballwin, MO 63022
636-391-8992
Fax: 636-391-1544
resslerassociates.com

THE CLEAR CHOICE FOR YOUR WATER NEEDS

Water Quality Monitors
Lime Slakers
Membrane MicroFiltration
Aeration
Spare Parts & Replacements



Filters & Media
Chlorination Equipment
UV Disinfection
Mixers/Flocculators
Chemical Metering Pumps

Quality Products with Superior Service

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 at www.ilrwa.org or you may call our office at 217-287-2115.

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

WHAT'S IN IT FOR ME?

ALL MEMBERS RECEIVE:

- ◆ Mailing of T.A.B. (Technical Assistance Bulletin) pertaining to water/wastewater systems every other month
- ◆ Mailing of "IRWA Water Ways" quarterly magazine
- ◆ Member prices for IRWA conferences and other fee based training
- ◆ Annual mailing of Industry Contact Book
- ◆ A voice at the State and Federal levels of government via lobbying efforts



VOTING & SUPPORTING MEMBERS RECEIVE:

- ◆ Mailings of all upcoming training sessions in your area
- ◆ Free access to our large selection of technical equipment
- ◆ Technical assistance provided by field technicians at no charge to you
- ◆ Listing of your job openings in a mail out to our S.O.U.P. Members at no charge to you
- ◆ Access to IRWA Technical Assistance Library, slide presentations, & videos at no charge
- ◆ Discounts from affiliate programs through National Rural Water on fleet vehicles



ASSOCIATE MEMBERS RECEIVE:

- ◆ Discount on advertising rates in Water Ways
- ◆ Free advertising in IRWA's Industry Contact Book
- ◆ Link to your website from ours
- ◆ Discount for members only given on IRWA's conferences
- ◆ The chance to offer IRWA's members a special discount to promote your product
- ◆ The opportunity to submit abstract for review for possible presentation at training sessions or conferences



S.O.U.P. MEMBERS RECEIVE:

- ◆ We will keep a database of all IRWA training sessions you have received throughout the year. A printout of IRWA CEU's will be mailed out to you on an annual basis
- ◆ Job referral mailing with a listing of jobs open in the water & wastewater industry from our voting members
- ◆ 10 % discount on all items in the IRWA store for S.O.U.P. members whose system is a Voting member

Let's Be PERFECTLY **CLEAR...** Demands Aquastore!



Here's Why:

The Best Coating

Glass-Fused-to-Steel tanks have been proven in rural areas for over 60 years. There is simply not a better tank coating on the market. But that's not the only reason so many rural water districts have chosen Aquastore® tanks.



Flexible Applications

Aquastore is the leader in rural water quality, service and lifetime value delivered to our customers. We design and build Aquastore tanks that satisfy rural water storage and treatment needs including ground tanks, composite elevated tanks and standpipes.

The Right Storage Tank

At Cady Aquastore, we strive to deliver turn-key service and support from start to finish. We don't just sell you a tank. We help specify, design and construct the right tank for your situation.

Never Needs Repainting

And best of all, an Aquastore never needs repainting. For the minimal maintenance required, Cady Aquastore provides support when needed. With Aquastore, rural water districts get the complete package and we are proud to deliver.



920 W Prairie Drive, Suite G • Sycamore, IL 60178
Ph: 815-899-5678 • Fx: 815-899-5681
daveh@cadyaquastore.com • www.cadyaquastore.com

Southern Illinois
Municipal Equipment CO., Inc.
St. Louis, MO
314-645-2400

Northern Illinois
Peterson and Matz, Inc.
Elgin, IL
847-844-4405

AQUASTORE®
Glass Tanks with a Heart of Steel™

CST
STORAGE

©2013. Aquastore is a registered trademark of CST Industries, Inc.



3305 Kennedy Rd.
P.O. Box 49
Taylorville, Illinois 62568

PRESORTED
STANDARD
U.S. POSTAGE
PAID
Springfield, IL
Permit No. 500

Water & Wastewater Professionals **EVERWHERE TRUST** **USABlueBook®**

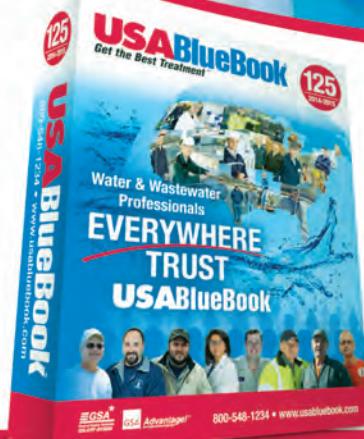


“ USABlueBook helps us avoid having to keep things in stock. I don't have the space, and I don't have the time to do inventory. If I need something, I can just call up USABlueBook, and you guys will get it to me.”

Carl Naumann — W & WW Superintendent at City of Justin WWTP • Justin, TX

“I always go to USABlueBook first. If you have something available, you'll get it to me by the next day. You have the product selection and technical support I need. Plus, I like when I call and get to speak with the same people. It's more personal that way.

Emma Kohl — Lake Supervisor at Crystal Lake WWTP • Crystal Lake, IL



Call 1-800-548-1234 & request your
FREE USABLUEBOOK CATALOG 125

Unsurpassed personal
customer service and
expert technical
support

95% of customers
receive their
in-stock orders
in 1 to 2 days!

Over 27,000
items in stock
for same-day
shipping

USABlueBook®
Get the Best Treatment™

800-548-1234 • www.usabluebook.com