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Volume XVII — Summer 2020



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MISSION STATEMENT

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

On the Cover:

**This photo was taken by Jeff McCready, IRWA
Wastewater Technician, in Minonk, 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.



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Cancelled!

Essentially, since the beginning of the year “cancelled” pretty well sums up life as we knew it. As the Coronavirus started its march across the country it has forced the cancellation of just about everything one can possibly think of. Weddings, sporting events, concerts, conferences and training sessions were either postponed or cancelled altogether. This pandemic has been unprecedented in how it has disrupted not only the lives of everyone in the entire world but the economies of all countries as well.

As I write this article, the Illinois Department of Public Health (IDPH) is reporting a total of 144,013 confirmed positive cases of the Coronavirus disease (COVID-19) in Illinois with 6,951 deaths attributed to the virus. Laboratories throughout the state have reported a total of 1,636,055 tests have been collected within the state to date. IDPH is also reporting a recovery rate of approximately 94% in Illinois. To view updated numbers you can point your browser to IDPH’s website at <https://www.dph.illinois.gov/covid19/covid19-statistics>.

In March of this year, Governor Pritzker issued the first of a series of Executive Orders that shut down a HUGE portion of the states economic driving forces – bars, restaurants, non-essential retail outlets and many businesses. Many other states followed suit as the virus made its appearance in their respective states. These Executive Orders also made

it impossible for many associations to hold their annual meetings and conferences. Most recently, NRWA announced they would be cancelling their WaterPro conference that was to be held in Phoenix during September. Given the HUGE spike of new COVID19 cases Phoenix is currently experiencing, it was the right decision. Illinois Rural Water Association was extremely fortunate in that its annual technical conference was held just prior to Governor Pritzker’s initial order.

As of June 26, all regions of the state moved into Phase 4 of the “Restore Illinois” plan. As the state moves into this revitalization stage of Phase 4, public meetings and social events are limited to the lesser of 50 people or 50% of overall room capacity. Capacity restrictions will be reassessed on an ongoing basis as changes in public health metrics and/or scientific data warrants. With this change, municipalities and other governmental entities can resume their in-person public meetings – as long as gathering guidelines and social distancing restrictions are implemented. If in doubt, always consult with your legal counsel for advice. In order for the state to return to pre-COVID 19 status (Phase 5), a vaccine or effective treatment must be widely available. IRWA continues to monitor events and track positivity rates as Illinois and other areas of the Country start relaxing their “shelter in place” requirements. Illinois’ numbers are currently stable, but less than

*by Frank Dunmire,
IRWA Executive Director*



impressive are those from a lot of states that may have “jumped the gun” on their reopening efforts.

The Board of Directors of IRWA, at its June Board meeting, discussed future events that were/are being planned by the Association staff and have decided to cancel the Northern Conference that was to be held in Rockford in October as well as the Administrative Conference that was to be held later this month in Champaign. As of today, the golf outing scheduled for August 28th will be going on as planned. As the date for the golf outing nears, IRWA staff will be looking at what changes will need to be implemented to follow CDC guidelines at that time. IRWA is continuing to plan for its annual conference to be held in Effingham February 16 – 18 2021. Hopefully, by then there will be a vaccine or successful treatment in place. Until then, everyone be smart, be safe and stay healthy! 💧

Hydrant Flushing

It is that time of year to have your hydrants flushed and valves exercised and some of you have been busy doing so with the help of the summer help. Along with that comes some problems caused by the summer help getting in a hurry to complete the job. I won't mention the names of the couple of places that recently experienced a leak caused by the summer help closing a hydrant too fast. They don't understand when the water is flowing through a 6-inch pipe at a rate of 200 – 300 gallons per minute that they should slowly decrease that flow. Stopping it too quickly it will go somewhere. That is normally out the broken water main anywhere from 20 to 40 feet from the hydrant. One of the leaks I located with the correlator was 27 feet from the hydrant and had a crack all the way around the cast iron pipe.

There are two ways to flush water mains, conventional method which is possibly the most common. The conventional flushing method consists of opening hydrants in the different targeted areas and discharging the water until the sediments are removed and the water becomes clear. This method of flushing is easy to conduct by one person but requires a large amount of water and may not completely clean the inside of the watermain. The water moves freely from all directions to an open hydrant. Since there is less flow in a single watermain, velocities may be too low to adequately clean, or scour, the watermains. If the hydrant is located at an intersection that has watermains following all 4 streets, that hydrant will pull water from all 4 directions, slowing the flow rate of all the mains. Valves still need to be exercised using this method.

The other method is called

unidirectional flushing. Unidirectional flushing isolates each pipeline to create flow in a single direction to quickly and efficiently clean the watermain. By concentrating flow, unidirectional flushing creates higher velocities that are better able to clean the watermain. The cleaned mains may have improved water clarity or color, reduced turbidity and improved chlorine residual. By closing valves and isolating the flow to a single direction with using specific hydrants. The major advantages of this method are improved cleaning of accumulated deposits on watermains, less required water than conventional flushing, and an impact reduction for customers. By using less water, unidirectional flushing can be an important component of a water use efficiency or conservation program.

Unidirectional flushing is typically performed in a set sequence to make sure a clean source of water is always used. In general, flushing should begin from a clean water source and flush from larger to smaller pipes. Flushing pipe lengths are limited to maintain efficient and

by **Chuck Woodworth,**
IRWA Circuit Rider



safe execution, typically to approximately 1,500 ft. Minimum pressures should be maintained as long as no dead-end mains are valved off. The major disadvantage of unidirectional flushing is the planning

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needed to develop the flushing program, as well as additional crew time that is necessary to inspect the required valves and hydrants before the flushing. It may also require more hydrants to be flushed than in a conventional program. However, the increased crew time may be offset by utilizing unidirectional flushing activities as part of valve exercising and hydrant testing programs. Unidirectional flushing field activities are very

similar to conventional flushing, with the major difference being the opening and closing of valves before and after each flush. Industry standard and utility best practices should be followed to encourage safe and effective activities.

Using unidirectional flushing this hydrant cleared up within 4 minutes after full flow was reached. 💧



IRWA CONFERENCES CANCELLED

This year, instead of the Spring and Fall Administrative Conferences we had planned on combining them into just one to see if we could get more attendees. We had decided to try for a date in July since either some months didn't seem to work for attendees or the Association had events going on in other months. As we were starting to hear about the Coronavirus creeping closer and just how serious it was, I was tentatively getting speakers and about to make a site visit to Champaign when the world shut down. Here it is 3 months later and places are just starting to re-open and people are beginning to meet in small groups again. Since even when we reach Phase 5 we will be able to only meet in groups of 50, (and of course make sure that we are all 6 feet apart) we have had to cancel the Administrative and Northern Conferences for 2020.

We were very fortunate to have been able to meet for our annual conference in Effingham in February (not to mention with record attendance!) as many of the other state associations weren't even able to do that this year. We are looking forward to seeing you all again next year when things are hopefully back to "normal". The Annual Conference in Effingham is scheduled for February 16-18, 2021. We will be looking at dates for July for the Administrative Conference and of course return to Rockford in October of next year (date TBD) for the Northern Conference. Make sure to watch for e-mails and the homepage of our website under upcoming events for updates on these.

The Ins and Outs of Leak Locating

*by Evan Jones,
IRWA Circuit Rider*

I recently have been working with an especially small system that has only 76 metered connections. They have been experiencing some major water loss. The system has a Class B water plant that has one small pressure filter, and pumps water from two wells into an aerator that dumps into a tank underneath. Then two high service pumps push water through the filter to their tower which is a whopping 10,000 gallons. This isn't going to seem like a major problem to most of you, but given their well capabilities, filter size, high service pumps that only pump at around 20 gallons a minute, and the size of their tower... it is a huge issue for them. They are losing 1.4 gallons a minute, which equates out to 2,000 gallons a day.

At this time last year, they had at least one day a week where the plant never even ran at all. That is also crazy for most of us to hear that even happens. This facility has a contract operator and two retired gentleman that do the day to day operations. One does the water plant and the other does meter reading, streets, and mowing. Now, when you have a leak like this in a small community, it is all hands-on deck.

Here is how the leak locating had started, even before I got a call.

The two gentlemen I mentioned earlier, noticed production had gone up, so they read the meters, and found they were missing 60,000 gallons of water for the month. They then checked all the hydrants...still nothing. So, they walked all the water mains and checked their one creek crossing...still nothing. The men waited a week or two and go check out everything again, but still cannot find anything. So, they call me.

I headed over within a couple days, and start asking questions to get the "lay of the land". We started checking hydrants with my listening device. Low and behold we discovered a hydrant that had not shut down all the way. The maintenance guys, myself, and our newest member of the IRWA staff Kevin Plate, exercise the shut off valve in front of the hydrant and the noise went away. We thought we had taken care of the problem, and were all good! Now that was visit number 1 for me, which involved several hours between listening and exercising the valve.

However, the plant maintenance gentleman called me the next week to let me know what was going on. He said for two days after I had left, our total treated water going out of the plant, went down by about 2,000 gallons a day. But...it recently started going back up again.

On what became visit number 2, we started listening to all the meter pits and found nothing. Then the meter reader said he had a meter that had not been registering for quite a while, and that

is when the lightbulb went off! So, we went directly there and changed the meter! After the change out, we watched the meter's leak detector just to see if they had a leak that was negative. We finished up visit number two with checking the remainder of the meter pits, but no luck. The guys gave me a call the following week to give an update...the system was still losing 2,000 gallons a day.

Needless to say, I initiated visit number 3 to the utility. We were definitely getting frustrated by this point! We decided to start correlating a thousand feet at a time, checking every block in town. This is something I don't normally do, but I thought to myself, what other options did we have at that point. We finally got that finished up, and again no dice. And, by the way, I forgot to mention this system is about 95% transite water mains! Which along with plastic pipe, are the two worst types of pipe to try and locate a small water leak on, because they just do not carry the sound extremely far. So, to finish up visit number three, we brainstormed our next course of action. Then, between the three of us, we decided to uncover all of the shut offs to make sure they were accessible. And, then for visit number four, we will go to every one of them and listen, this will cut the distance down between listening points considerably.

I am now waiting for the call that they are ready to have me come make my fourth visit back to the system. At the time I am writing this, it has only been a few days since my third visit so I will probably be back that direction in the next week or so. I haven't made this many trips to do a water leak locate since my first winter working for IRWA, when I would go to Fairbury once a week while they had major water loss.

This just goes to show you, leaks big or small are in direct relation to how large your system is. If you have a need for assistance, just give your IRWA Circuit Rider or Wastewater Tech a call, and one of our staff will be happy to come assist you for various water and/or wastewater issues that may arise within your systems.

That's what we are here for. Have a great summer, and we will see you in the field. 💧



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Wayne City New Treatment Plant

by Roger Noe,
IRWA Circuit Rider

Wayne City, a little town in southwest part of Wayne County in southern Illinois, has been operating their new 6-million-dollar surface water treatment plant for about 2 weeks. They serve a population of



around 1,285 with 650 water connections, plus the town supplies water to Western Wayne Water District and the Village of Sims. Wayne City is my place of residence and my past employment. I was the past of operator of the old treatment plant, and now I serve on village board. It is exciting to see the plant finished and producing water. The fact that Wayne City was able to build a new water treatment plant for its residents rather than turning to other options is a huge deal for the little town. Continuing to supply water from within city limits to residents is something Wayne City should be proud of. One of the first things I did when I took over the operation of the old treatment plant around 2011, was call several people such as IRWA and engineering firms to see what we should do.... Such as renovate the old plant, investigate building a new facility, or buy water from another source. Several cost analyses were done



to determine the best option for the village to move forward. The biggest issue with renovating the old plant was, where do you begin with the renovating and where do you draw the line for completion. It was also determined at the time, it would be around one million more dollars to build a plant compared to purchasing water from another source. The board

continued on page 10



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Wayne City New Treatment Plant

continued from page 9

and community thought it would be best to move forward with building a new treatment plant. The village received a grant and loan from USDA to complete the new facility.

Looking from my perspective as a past employee at Village of Wayne City and current IRWA employee, I am excited to see plans that were in the works during my time of employment there finally coming to life. As a now board member for the Village of Wayne City, my thoughts and feelings towards the new facility has broadened. As a board member, it is an asset. I have to be much more involved in the legal and financial side rather than just the technical side. Water rates were slightly increased, as the ground being purchased took longer than we had liked, and as a result the price of the project increased. However, from all viewpoints, this is a great addition to the town and they will continue to reap benefits in the years to come.

The old water plant was constructed in 1957 and was added onto in the 1980's. The building was an old block building which consisted of water that entered three concrete mixing basins then went through tube settlers. It was always a challenge having good chemical mixing and keeping floc together. All chemicals were added in one basic area due to lack of space, which created challenges. After the tube settlers, the water went through

a settling basin and then entered six little sand gravity filters. Wayne City's old water treatment plant also lacked any type of automated controls, and therefore everything had to be done manually. The age of the plant still produced safe quality drinking water, but it had exceeded its lifespan.

Construction for the new water treatment plant began in the fall of 2018 and was just recently completed. The new project consisted of a new building, rebuilding the river pump station at the 8-acre reservoir which acts as a natural settling basin, and a new bulk water station. The new water plant consists of two claricones with a three-cell sand filter bank. The plant will run at 500 gallons per minute with a maximum of 650 gallons. The facility runs one eight-hour shift; so, the challenge is the startup of the claricones each day to keep a good sludge blanket. According to the operator Kris Shreve, "it's still a work in progress to find the sweet spot to run the claricones efficiently, but I'm getting closer every day." The chemicals are stored and fed in separate rooms unless the chemicals are compatible with each other. The chemicals that are being fed are: liquid carbon, earth Tec, sodium hydroxide, sodium permanganate, anionic polymer, pre and post 12.5% bleach, fluoride, ammonia, and claritas. The chemist for their chemical supplier spent around 2 weeks jar testing and tweaking chemicals to get to the result of good quality water. The one challenge with this plant is the raw turbidity. It is usually less than 10 NTU, so it took time to get a



good sludge blanket for the claricones. The finished water at the new treatment plant is in between .05 and .08 which is great. Onsite, the new plant has a clear well of 30,000 gallons plus an aqua store tank which holds 105,000 gallons, which is then pumped to the distribution system which has a 200,000-gallon water tower. The plant is fully automated with Scada controls, which run the chemical pumps, valves, and high service pumps. The new plant has been providing safe, healthy drinking water to the residents of Wayne City for nearly two weeks now.

Wayne City's new water treatment plant is now operating in full force. Employees will no longer be entering the old water plant and will only be working strictly from the brand-new facility. Testing has been completed, employees have been trained and re-trained on how to operate the new facility, and they are pumping quality water to Wayne City residents' homes. Wayne City does not get to experience a lot of change very often and at first, some were not excited about it. But as the construction finished and new ways were taught, more people got excited about what this new plant would offer and how much more efficiently it would be ran. Wayne City is proud of their new plant, as they should be, and they will continue to supply water to their residents for years to come. 💧



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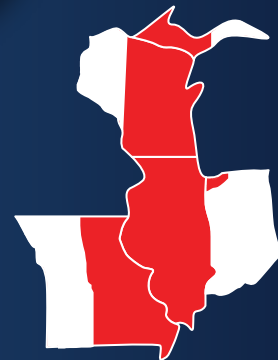
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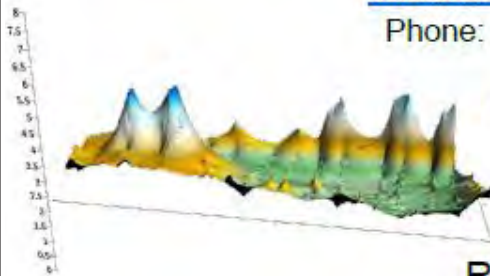
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ILLINOIS RURAL WATER ASSOCIATION

17th Annual Golf Outing

The Illinois Rural Water Association (IRWA) is hosting its 17th 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 28, 2020**. 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 **Friday, August 14, 2020** 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,

WHAT: 17th Annual IRWA Golf Outing

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

WHEN: Friday, August 28, 2020

WHERE: Piper Glen Golf Course—Springfield, IL

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

ILLINOIS RURAL WATER ASSOCIATION
17TH ANNUAL GOLF OUTING

The 17th Annual Illinois Rural Water Association Golf Outing will be held on Friday, August 28, 2020 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 Friday, August 14, 2020 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.



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Registration Form

Friday, August 28, 2020—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	(2 Airplane Tickets– any destination in continental United States)
\$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.

Your Authentic Self: Love Who You Are Right Now

by Dr. Rita Louise

When we are congruent with ourselves, our inner world matches our outer world. We are our “authentic self.” Being our authentic self is about reconnecting with who we are.

Many of us live our lives on autopilot. We exist day to day programmed like an automaton and never consider the choices we have. We let our old habits dominate what we do and what we think. We have walked down the same familiar, well-worn path for so long that we assume this is what life is all about. We unwittingly accept it and do not believe it can be any better or different. We can become so entrenched in our old habits that we do not even realize that we are not living but are only surviving.

If you think about it, many of us have spent the better part of our lives operating based on a series of false beliefs. These beliefs can make us feel as if we are somehow inadequate. We learned to say and do things to keep the peace and make others happy. But, who is working on making us happy? This task, my friends, is ours and ours alone. Researchers suggest that our ability to be congruent with ourselves and others is linked to our happiness.

When we are congruent with ourselves, our inner world matches our outer world. We are our “authentic self.” Being our authentic self is about reconnecting with who we are. It is about being true to ourselves. It is about having our thoughts (inner world), words, and actions (outer world) match. It is about honoring our feelings and having the confidence to express them. It is about going deep inside and letting go of the false beliefs, which are not serving us any longer.

Individuals who are controlled by their negative programmed false beliefs frequently want to please others over themselves. They also have a hard time being authentic. It can be terrifying to do or say things that go against the norm, the tried and true. Our ability to be authentic is often challenged in our relationships, where we find ourselves discarding our own wants and needs to make room for what we think others desire. We fear the repercussions of our words and actions. “Will he or she still accept me if I speak my truth?” “What will happen if I say no?”

Being authentic allows us to love and accept ourselves at our core, to do what makes us happy, and to follow our passions regardless of who we may disappoint. Doing so may leave us vulnerable, but at the same time, allows for the creation of genuine, intimate relationships filled with unconditional love.

What does loving ourselves feel like? It is about treating ourselves with kindness, concern, and compassion. It is about

not judging ourselves harshly or punishing ourselves for every mistake we make. It is about being warm and understanding, recognizing our inadequacies and imperfections, and responding to them with the same level of support and respect we freely offer others. It is about liking who we are, lock, stock, and barrel.

Self-love compels us to act with our best interest in mind and challenges us to ask, “Why not?” As they say, whatever does not kill you will make you stronger. Imagine the inner strength you will develop as you flex this muscle.

We naturally love ourselves when we have appropriate self-worth and self-esteem. These things allow us to be internally whole and let us interact with the world as our authentic selves. There is one other thing that is required to love ourselves. It necessitates we move beyond our fears. It demands us to have the courage to feel our feelings and honor them, regardless of where they may lead.

We have to be willing to risk showing our true self, complete with all of our imperfections, shortcoming, and insecurities when we are our authentic selves. We have to embrace who we are instead of who we think we should be. We also have to be prepared to love ourselves enough to accept the costs and consequences our words and actions may elicit from others. It might sting in the moment, but in hindsight many come to realize it was the best and smartest thing they ever did. Being authentic creates a foundation where we can begin to experience joy and happiness in all we do every day of our lives.

Excerpt from: *The Dysfunctional Dance Of The Empath And Narcissist* 💧

ABOUT THE AUTHOR

Dr. Rita Louise is a gifted empath and talented clairvoyant medical intuitive. She is a Naturopathic physician and the founder of the Institute Of Applied Energetics that trains students in the art of medical intuition, intuitive counseling, and energy medicine. She has authored six books, including her new title *The Dysfunctional Dance Of The Empath And Narcissist*, and produced several feature-length and short films. Dr. Louise has appeared on radio, television and in movies and has lectured on health and healing, ghosts, intuition, ancient mysteries and the paranormal. Her books and articles have worldwide circulation.

You can visit her webpage at SoulHealer.com



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!

2020 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)



Model Year	Brand	Description	Incentive
2020	Chrysler	Pacifica/Voyager	\$3,000
2020	Dodge	Durango AWD	\$5,000
2020	Dodge	Durango RWD	\$5,000
2020	Jeep	Grand Cherokee 4X2	\$5,000
2020	Jeep	Compass 4X4	\$2,900
2020	Jeep	Grand Cherokee 4X4	\$5,000
2019	Ram	Classic 1500 Quad/Crew 2WD	\$8,500
2019	Ram	Classic 1500 Quad/Crew 4WD	\$8,500
2019	Ram	Classic 1500 Regular Cab 2WD	\$5,500
2019	Ram	Classic 1500 Regular Cab 4WD	\$5,500
2020	Ram	2500 Regular Cab 4WD	\$5,500
2020	Ram	3500 Crew/Mega Cab 4WD	\$6,250
2020	Ram	2500 Crew/Mega Cab 4WD	\$6,250
2020	Ram	Classic 1500 Regular Cab 4WD	\$5,500
2020	Ram	Promaster 1500 Cargo Van	\$6,500
2020	Ram	Classic 1500 Quad/Crew Cab 2WD	\$8,500
2020	Ram	Classic 1500 Regular Cab 2WD	\$5,500
2020	Ram	Classic 1500 Quad/Crew Cab 4WD	\$8,500
2020	Ram	2500 Crew/Mega Cab 2WD	\$6,250
2020	Ram	Promaster 2500 Cargo Van	\$7,000
2020	Ram	Promaster 3500 Cargo Van	\$4,500
2020	Ram	Promaster City	\$4,500
2020	Ram	3500 Cargo Van High Roof (159 IN WB)	\$7,500
2020	Ram	3500 Cargo Van High Roof (159 IN WB EXT)	\$7,500
2020	Ram	1500 Quad/Crew 2WD	\$6,750
2020	Ram	1500 Quad/Crew 4WD	\$6,750
2020	Jeep	Grand Cherokee 4X4 Exodiesel	\$2,500
2020	Jeep	Grand Cherokee 4X2 Exodiesel	\$2,500
2020	Ram	3500 Crew/Mega Cab 4WD Ecodiesel	\$2,250
2020	Ram	2500 Crew/Mega Cab 2WD Ecodiesel	\$2,250
2020	Ram	2500 Crew/Mega Cab 4WD Ecodiesel	\$2,250
2020	Ram	2500 Regular Cab 4WD Ecodiesel	\$1,750

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

The printed maps can be large-scale wall maps up to 36"x48" showing utility features with the desired layers (aerial photos, streets, topography, etc.).

The digital map file on a CD, can be accessed with free software that IRWA will provide and install on a utility computer. The program allows you to view, print and click on system features (such as a valve, hydrant, meter pit, curb stop, manhole, lift station, treatment facility, etc.) and pull up attribute data about each. As well as several other capabilities such as printing, zooming, etc.

IRWA has a working relationship with DiamondMaps.com, to put your IRWA project maps on their server, for mobile viewing with a smartphone or cellular capable tablet - including editing capability. This is at no extra charge to the system for the first year's subscription. Continuance of the Diamond Maps service after the first year is at the utility's discretion.

Payment for services is a set charge per feature, with IRWA members receiving an automatic 30% discount, and even more of a reduction with bigger projects.

For more information, you may download a brochure from IRWA's website: www.ilrwa.org/Equipment/Asset_Mapping.html or contact Don Craig by phone: 217-561-1061 or e-mail: craig@ilrwa.org

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

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!



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2020 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 50 United States
- Call your State Association today to get your Fleet Identification Number (FIN)
- Companies, service providers or other sales organizations are not eligible for this program

Eligible Vehicles	Incentive
Fusion (Excludes Hybrid & Energi)	\$2,000
Edge	\$2,500
Escape SFWD	\$1,500
Escape (Excludes Hybrid/PHEV)	\$1,800
Expedition	\$4,000
Explorer	\$1,000
Explorer XLT 4WD or RWD	\$1,500
F-Series Super Duty F250-F550	\$5,800
F150 4X2 Reg Cab	\$4,500
F150 (Excludes Raptor)	\$5,500
Transit Connect	\$2,400
Transit 2WD	\$4,200
Transit AWD	\$3,500
Ranger 4X2 Crew Cab	\$1,000
Ranger 4X2 SuperCab	\$300
Ranger 4X4 Crew Cab	\$1,700
Ranger 4X4 SuperCab	\$1,400



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