2016 CWWCA ANNUAL CONFERENCE
TWO DAYS!
JANUARY 8 - 9, 2016
CROWNE PLAZA DIA
DENVER, CO

EXHIBITORS
CONTINUING EDUCATION
MEMBERSHIP MEETING
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SCHOLARSHIP AUCTION
SOCIAL

THANK YOU TO ALL CWWCA MID-YEAR CONFERENCE SPONSORS FOR YOUR INCREASED SUPPORT!

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ADVERTISING INFORMATION

DRILLSTEM ADVERTISING
Advertising Rates for the Drillstem, a quarterly publication of CWWCA
(Published April, June, September, and December)
Classified ads are $1.00 per 3.5-inch line.

<table>
<thead>
<tr>
<th>Number of Issues</th>
<th>1</th>
<th>2</th>
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<td>Savings</td>
<td>0%</td>
<td>5%</td>
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<td>$450</td>
<td>$675</td>
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<td>$285</td>
<td>$405</td>
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<td>$172</td>
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<td>$50</td>
<td>$95</td>
<td>$135</td>
<td>$170</td>
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Help wanted ads will not be published.
Seeking employment ads will be published.
All rates for non-members are 10% higher.

COPIES MUST BE CAMERA READY OR TRANSMITTED ELECTRONICALLY
(.doc,.pdf, or .jpg format)

Please be sure to include all borders in the given dimensions (width x height) at 600dpi.
Avoid using colors in the ads since the DRILLSTEM is printed in black and white.
For full formatting requirements, please visit our website at CWWCA.org.

SEND COPIES AND PAYMENT TO:
CWWCA
1540 S. Holly St. #6
Denver, CO 80222

e-mail: execdir@cwwca.org
303.759.2294

WEBSITE ADVERTISING

BANNER ADVERTISING
Banner advertisements appear at the bottom of every page of the website. The advertisement rotates sequentially, so every ad will have equal display time. If the demand for banner advertisements warrants it, additional banners will be incorporated into the site.

**One-Year Banner Advertisement: $300**
If the advertiser is a CWWCA member, this fee also includes a free upgrade of your member directory listing. Banner ads should be 285 pixels wide x 96 pixels high, .jpg format and in landscape orientation.

MEMBER DIRECTORY UPGRADE
CWWCA members may choose to upgrade their listing in the searchable member’s directory.

Upgrading allows your listing to be displayed at the top of searches and sorts. It allows your listing to link to your website. And upgrading allows you to display your logo or picture of your choice with your listing.

**One-Year of Directory Upgrade: $50.00**
Pictures for the listing should be submitted in .jpg format and should be 225 pixels wide by 150 pixels high.

CWWCA CONTACTS

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Phone: 303.695.6388
E-mail: dickscuba@gmail.com

WEBSITES

Colorado Water Well Contractors Association
www.cwwca.org

American Ground Water Trust
www.AGWT.org; privatewell.com

Board of Examiners
www.water.state.co.us/boe/

Colorado Ground Water Association
www.coloradogroundwater.org

National Ground Water Association
www.ngwa.org

World Wide Drilling Resource
www.worldwidedrillingresource.com

CWWCA CALENDAR OF EVENTS

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>Oct 6, 2015</td>
<td>BOE Meeting</td>
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<tr>
<td>Oct 9, 2015</td>
<td>CWWCA Board of Directors Meeting</td>
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<tr>
<td>Oct 9, 2015</td>
<td>TWG Meeting</td>
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<tr>
<td>Jan 5, 2016</td>
<td>BOE Meeting</td>
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<tr>
<td>Jan 8-9, 2016</td>
<td>CWWCA Annual Conference</td>
</tr>
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<td>CROWNE PLAZA, DIA Denver, CO</td>
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the DRILLSTEM 2  Fall 2015
President’s Report

Thanks to everyone that attended the Mid-Year Conference in Breckenridge. Your attendance made this year’s conference a huge success. As always, the Breckenridge venue served to make learning a more relaxing and enjoyable experience. I would like to send a special tribute and show our gratitude to the host of sponsors that supported and attended this year’s event. And a GREAT BIG thank you to the program committee, and all the other individuals, who worked countless hours developing the program and then doing what was necessary to make the event truly special.

As we all move through life there are opportunities to work with and get to know individuals that have special talents and/or skills to offer to those around them. These individuals lend their respective gifts to help others learn and grow. The CWWCA membership has many individuals that fall into this category. It is with a heavy heart we mourn the passing of one of these special members, Scott Orr. Scott left us suddenly this summer due to natural causes. We will always remember Scott for his gentle smile and willingness to share his special talents with all those around him. CWWCA fondly celebrates Scott’s friendship and the many contributions he made to our organization. We will miss him greatly.

This summer, like the rest of the year, has gone by so fast it is hoped that each of you - our members, sponsors and fellow professionals in our industry, have taken the time to enjoy all that you have to be thankful for. I look forward to seeing each of you again at the Annual Conference in January. We are happy to announce the conference will be a two day event at the Crowne Plaza DIA in Denver on January 8-9, 2016.

Fred Baros
CWWCA President
In the Great State of Colorado, experienced drilling and pump contractors know that Western Hydro is the place to go for the equipment and supplies you want at competitive prices!

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Scott James Orr

Scott was born on Halloween, October 31, 1955 at Presbyterian Hospital in Denver, Co. He was the third child, and only son, of H. James (Jim) and Marian Jane (Hecht) Orr. Scott was taken to the family home on Lilley Court in Thornton, where he joined his two older sisters, Linda (Rhode) and Pixie (Berman). The family resided in Thornton until the summer before Scott started school, when the family moved to the "Big Red House on the Top of the Hill" on Agate Street in Broomfield.

Scott delighted in being a Halloween baby, believing for a long time all holiday the fun was in his honor. As a small child, he spent a great deal of his time pretending to be Superman. With a bath towel tied around his neck, Scott would take great leaps from high places, only to be disappointed in the effectiveness of his "cape" when he hit the ground with a thud. In the true spirit of Halloween, Scott also greatly enjoyed catching enormous wolf spiders to terrorize his sisters.

After moving to Broomfield Scott loved to take his trusty dog, Tagg-a-long, to the empty field across the street, where he would spend hours in the dirt building forts for Cowboys and Indians, or ramps for bicycle racing and jumping. The family joke was that Scott would have at least three trips to the doctor's office for stitches every summer, so on the last day of school each year, the countdown began. And Scott never disappointed! He continued riding dirt and motor bikes throughout his teens.

Scott received his GED in 1974, and he worked a variety of jobs. He joined his mother, Marian, in Montreal, Canada where he worked for AMTRAK before they subsequently moved to Washington, DC. When Marian became ill, Scott returned with her to the Denver area and continued to care for her until she died.

Scott loved the outdoors and was an avid skier, on water and snow. He taught his children and nieces and nephews the joy of water skiing. Scott's passion for water sports was parlayed into a lifelong career in water management. Scott began working for the Adams City Pump Company in Commerce City. He later joined the fledgling company, AmWest, and worked with his close friend and mentor, John Covert, to build a water management company famous throughout the mid-west and west. Scott wrote and published many articles on water management, and received many awards in his field through the course of his career. AmWest became part of Hydro-Resources, and Scott continued to build strong relationships with businesses and municipal authorities through the years. He was a mentor, teacher and leader in his field - receiving honors and building many lifelong friendships along the way.

Scott is survived by his loving wife, Julie McFaddin Orr; his daughters, Nikki (Marian Nicole) and Kate (Katlyn Pauline); his bonus children, Sarah (Palm) Jackson and Eric Palm; their spouses; his sisters and many grandchildren, nieces, nephews and friends, all who loved him as much as he loved them.

Spending time with his beloved family and traveling with Julie were Scott's favorite past times. He was the "go-to" guy in the family, first there in a crisis, last one to leave when all was done. Scott supported his children, step-children, grandchildren, nieces and nephews in all their endeavors - always with praise for their accomplishments, which he relished.

He is missed by all who knew him and loved him in return. Thank you for joining our family in the celebration of Scott's life and for loving him, as we did.
Driller and/or Pump Installer Apprenticeship Program

The apprentice program supported by the Colorado Water Well Contractors Association (CWWCA) is a voluntary program for CWWCA members, developed to assist individuals that would like to obtain a water well driller license and/or a pump installation license in the state of Colorado. Records will be kept by the CWWCA and available to the applicant to provide proof of experience to the Board of Examiners (BOE) during the license application process.

Please go to CWWCA.org for full apprenticeship information and application

TWG Meeting Recap

July 10, 2015

TWG Meeting Recap
Beaver Run Resort
Breckenridge, CO

Next TWG Meeting:
10:00 – 11:00 AM, Friday, October 9, 2015
Basement Conference Room
333 West Hampden Ave.
Englewood, CO

Attendees:
Joe Meigs, Keith Branstetter, Bruce Heir, Joel Canfield, Gene Wagner, Bryan Beckner, Todd Hunter, Mike Weidorn, Doug Stephenson, Fred Baros, Thom Hanna, Brad Himes, Scott Orr

Moderator for July 2015 Meeting:
Joe Meigs

Proposed Moderator for October 9
Gene Wagner

DWR Report
Permit activity is similar to last year. Please check CWWCA’s web site for report summary.

CDPHE Discharge Permits
Contractors reported that progress for more streamlined CDPHE discharge permit process has been very slow. CDPHE has expressed interest in visiting a job site to see what well testing or drilling looks like. Contractors reported mixed experiences in obtaining CDPHE permits; some have found CDPHE discharge permitting to be fairly easy, others have found permitting to be very challenging. In some cases, CDPHE discharge permits require real-time monitoring for certain parameters, such as chlorine used for disinfection.

It was suggested that CWWCA members meet with Andrew Ross and Lillian Gonzales of the CDPHE to develop a process for streamlined CDPHE discharge permitting or exemptions for standard drilling activities. The concern is that the big contractors are under the regulatory microscope, while small contractors may be completely unaware of the need for CDPHE discharge compliance.

Well Construction Rules

A Second Draft of the Water Well Construction Rules was circulated in June. Only one comment has been submitted so far from contractors on the Second Draft. The comment period is until the end of the July.

There is concern that the second draft of the rules are more lenient than the first draft of the rules. Specifically, one concern is that requirements for Type II wells do not appear to include a centralizer requirement through the grouted interval. In particular, there is concern that some Laramie-Fox Hills wells are considered Type II wells, not Type I wells in areas where the Laramie is at the ground surface.

To read the rest of the TWG Recap,
Please go to CWWCA.org
The CWWCA was a sponsor for the American Ground Water Trust’s teacher training program in Greeley. The program, held in June, had a focus on local Weld County water issues. The two-day program was organized in cooperation with the Central Colorado Water Conservancy District and the Poudre Learning Center. The objective of the AGWT Institute program is to help teachers understand the importance of groundwater. The “train the trainer” program includes explanations of the basic cause-and-effect of well pumping, land use changes, river diversions, contamination etc. on groundwater and surface water resources so that teachers (and then their students) can better understand the science that should be guiding water management decisions.

Since 2001 the American Ground Water Trust’s program “Ground Water Institute for Teachers”™ has trained a total of 2,000+ teachers and educators in 17 states. The approach is “train-the-trainer,” and the learning focus is on how to integrate water topics into existing curriculum. Many teachers received little or no basic geology/hydrology classes in their college or university training. It is an established tenet of education that an understanding of subject matter is a prerequisite for enlightened teaching. By using a presentation team of local experts and close-to-home water related case studies, the Institute program takes the teachers on a rapid learning experience that covers local water supply issues.

The Greeley program emphasized the ways in which water topics can be integrated with existing school curriculum and included some hands-on activities that could be applied at different grade levels. What could be more important for the future of sustainable water than having the next generation of Colorado voters and decision-makers more aware of water issues? When there are more demands than resources there have to be political and legal decisions made about who gets how much water, from where it should be supplied and when end-users can have access. The American Ground Water Trust believes that elected representatives (and the citizens who vote them into office) will benefit from a basic understanding of how surface water and groundwater resources are connected. Science needs to be the basis for water policy at local and state levels. In order for us to be effective stewards of our water resources, an appreciation of the role of water in the environment and the economy should be an essential part of our K through 12 learning heritage.

The Greeley program covered a variety of topics that were designed to be stimulating, interesting and informative. Teachers received copies of all the presentations so they can use them as an information resource in the preparation of lessons and learning opportunities for their students. Some of the topics covered by the program are listed below:

- Building blocks to hydrologic literacy. Important items of water awareness for students
- How a well is drilled - equipment used for home, farm and irrigation water wells
- The origins of the state’s geologic diversity and the hydrologic characteristics of Colorado aquifers
- Routes to sustainability for natural gas development in Colorado – the fracking debate!
- 19th century and 20th century changes in groundwater and surface water the South Platte River Basin
- Pumping regulations and water supply challenges and solutions for a Weld County irrigation farmer
- The importance of protecting Colorado’s water resources for long-term sustainability
- Groundwater information and water education resources available for Colorado teachers

The program presenters (all of whom volunteered their time) were:

- Chuck Call, Well Watch Coordinator, Greeley
- Glen Fritzler, Weld County Grower, LaSalle
- Robert Longenbaugh, Consultant Engineer, Fort Collins
- Peter Barkmann, Hydrogeologist, Colorado Geological Survey, Golden
- Kathy Parker, Public Information/Education Coordinator, CCWCD, Greeley
- Andrew Stone, Executive Director, American Ground Water Trust, Concord, NH
- Laura Belanger, Environmental Engineer, Western Resource Advocates, Boulder

(Continued on page 8)
Joe Ryan, Faculty Director, Sustainability Research Network, University of Colorado, Boulder
Caitlin Coleman, Communications Specialist, Colorado Foundation for Water Education, Denver

The Greeley program was sponsored by generous support from the Colorado Water Well Contractors Association; Dynotek; White Sands Water Engineers; United Water and Sanitation District; Northern Water; Central Colorado Water Conservation District and the Poudre Learning Center.

The Institute was the fifth such training held by the American Ground Water Trust (AGWT) in Colorado. Previous Colorado programs have been held in Fort Collins and Denver.

Teachers attend these events for free but in order for an event to be scheduled, the AGWT must first line-up event sponsors.

If your company, organization or agency would like to host or help sponsor the next Colorado teacher training on water issues, please contact AGWT Executive Director, Andrew Stone (astone@agwt.org) (603 228 5444).

Teachers at the training program watching a demonstration of how a sand-tank model can be used to show ground water movement (above & right), taking part in a water quality measuring classroom exercise.
COLORADO WATER WELL CONTRACTORS ASSOCIATION
MID-YEAR CONFERENCE
July 10-11, 2015

THANK YOU!!
Jeff Appel, Chair & Dave Wilson

FRIDAY BREAK
SUPPLIER CONTRIBUTORS

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THANK YOU!!
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FRIDAY LUNCH
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Michael & Alicia Kamerzell
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WESTERN HYDRO CORP.

THANK YOU!!

Jeff Appel, Chair & Dave Wilson

Fred Baros, Robert Cockerham & Jeff Appel

Trey Maples, representing Baker, Campbell, Flomatic & Symcom, visiting with Gene Wagner

Dave Wilson of Baroid & Fred Rothauge of Hydro Resources

Brad Twiss, Nick Kline & Ramsey Davis of 2M, visiting with Raun Samuelson

Rick Dommer of Western Hydro Corp.

Sharon Floyd, Lucas O’Donnell, Mark Pitcher & Mike Floyd of Preferred Pump

Kris Jackson & Gray Hickey of Pentair
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SATURDAY BREAKFAST
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THANK YOU!!
Jeff Appel, Chair & Dave Wilson

Brad Himes, Brian Lake, & Robert Cockerham
Travis Day & Darrel Phillips
Todd Hunter & Ron Peterson

SOCIAL HOUR
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Richard G. Brown, CWWCA Lobbyist

The CWWCA has retained Dick Brown to work as our legislative liaison at the State Capitol. Dick is a long time lobbyist and consultant. He comes with a solid knowledge of Colorado water issues and provides legislative services to the Pikes Peak Regional Water Authority. In addition to water issues, he works with several other entities in both the nonprofit and corporate world.

Dick's involvement with water issues began when he was the city manager in Fountain, Colorado. The Fountain water system had both surface and groundwater supplies - although the majority of the municipal water supply came from wells. Under Dick's management, Fountain became one of the first municipalities to have a plan of augmentation approved by the water court. Dick also was instrumental in Fountain becoming a partner in the Fountain Valley pipeline project.

Dick left Fountain to join the staff of the Colorado Municipal League. From there, he joined the staff of Denver Mayor Bill McNichols and became acquainted with the Denver Water system.

After several years in the private sector doing legislative and consultant work, Dick came back to water with the Pikes Peak Regional Water Authority (PPRWA). Dick serves as the PPRWA representative to the Water Congress and has served on many of the committees and task forces organized by Water Congress. He has also done other water work for communities such as the Town of Bennett.

As part of his work with the PPRWA, he has been involved with the preparation of the state water plan initiated by Governor Hickenlooper and assisted in the drafting of the Arkansas Basin Implementation Plan. He serves on the Water Conservation Technical Advisory Committee of the Colorado Water Conservation Board (CWCB). He recently has been asked to serve as a member of the just organized working group under the CWCB that will explore long-term financing strategies to fund needed water projects.

Dick has a bachelor's degree in economics and a master's in public administration with a double concentration in city management and public finance. He was the first inductee into the public administration honorary society (Pi Alpha Alpha) from southern Colorado.

Dick's work for the CWWCA will be broad based to identify legislative and regulatory issues of interest to our members. One of the initiatives that we are pursuing is the increase in the number of well inspectors at the Division of Water Resources. During the 2015 legislative session, we worked closely with the Joint Budget Committee and the staff of the State Engineer in an effort to make that happen. Plans are to continue that effort during the upcoming 2016 legislative session.
S4,000 – S30,000 SEMCO Pump Hoists

1 - 6" Pipe Elevators w/ Metal Bales
6" - 16"HD Pipe Elevators w/ Cable

S110H Hydrorench 1-10"

1-2", 2 1/2-4J&K Kwik Klamp
August 31, 2015

The Board of Examiners (BOE) staff have been requesting ideas and input from the water well construction and pump installation community regarding updating the current Water Well Construction Rules (2 CCR 402-2). The current rules were finalized ten years ago and it is necessary to periodically review them and make sure they are meeting the twin goals of the Board of Examiners mission – to protect human health and to protect Colorado’s groundwater resources.

Over the past year BOE staff hosted six public forums for stakeholders to express their thoughts and ideas: the Colorado Water Well Contractors Association 2014 and 2015 Mid-Year and 2015 Annual Meetings, and three public stakeholder meetings. In addition, we have sought comments and suggestions on rule changes through the BOE web pages (on the DWR website) and comments to BOE staff directly through email. We have received comments, suggestions and ideas from many of you using these avenues for input to the rulemaking process. Thank you for your participating in this process!

On June 26, 2015 we released a second draft of potential changes to the Water Well Construction Rules based on your input. These were released as a “clean” document in which the changes are shown in normal text and two “red-line” versions. One document shows the changes between this 2nd draft and the 2005 rules and the other compares this 2nd draft with the 1st draft released February 6, 2015. These draft versions of new rules contain many changes. Most of the changes are merely rewording to better explain and clarify the existing definitions and practice requirements. Others are actual changes in the practice of water well construction and pump installation. The second draft changes to the Rules can be accessed at the Rules & Regulation website: http://water.state.co.us/groundwater/BOE/Pages/BOERules.aspx

The BOE and its staff have recently revised the Draft Timeline to accommodate for the large amount of input received from the groundwater community in anticipation of the completion of the final draft of the proposed Water Well Construction Rules. Depending on the amount of continued interest from the groundwater community there may be a fourth and final stakeholders meeting scheduled in the upcoming months.

The date of the public hearing on the final draft of the proposed rules is tentatively scheduled for the week of January 4, 2016 to coincide with the Board’s regularly scheduled meeting. This public hearing will allow time for final testimony in front of the Board before the anticipated adoption of the final revised rules. Please see a link to the latest schedule on the BOE Rules & Regulation website, http://water.state.co.us/groundwater/BOE/Pages/BOERules.aspx.

Sincerely,
Staff of the Board of Examiners
Protect Yourself from Hand Injuries

Repetitive strain injuries: These injuries can occur as a result of continuous, repeated hand movements over long periods of time. They affect the tissues and joints of the hands. Some common repetitive motion injuries include tendinitis, carpal tunnel syndrome and white finger.

Traumatic injuries: These injuries can occur when hand tools and machinery are used recklessly, leading to hands or fingers being pinched, crushed, torn or punctured.

Contact injuries: These injuries can occur after direct contact with cleaning solutions, solvents, acids, flammable liquids and other hazardous substances. Contact injuries include severe burns and irritation to the hands and fingers.

Gloves are your safest bet for protecting against most of these hand injuries. Unfortunately, there isn’t one universal glove that protects against the hazards for every job, so you must take some time to determine which pair is right for you before beginning any tasks.

Preventing Repetitive Strain Injuries

Gloves won’t protect against repetitive strain injuries. In order to protect yourself from this type of hand injury, you must change your grip or your hand motions often in order to avoid repeating the same movements. If possible, you should switch up tasks to give your hands a break.

Here are some symptoms of repetitive strain injuries that you should watch out for:

- Stiffness of the wrist or hand
- Numbness of the wrist or hand
- Swelling in the wrist
- Tingling or burning in the wrist, hand or fingers
- Weak grip

If you find yourself experiencing any of these symptoms, speak to your supervisor immediately.

Basic Hand Safety Tips

Sometimes hand injuries occur because of human error, inattentiveness or lack of knowledge. To prevent injuries from occurring, follow these suggestions:

- Avoid taking shortcuts
- Remain alert
- Anticipate hazards
- Follow all proper procedures and safety rules
- Think about a task before you begin
- Wear the proper gloves for the job
- Maintain good housekeeping on the worksite
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- Well Logging
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Last Name__________________________________First Name____________________________Initial_________

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DO YOU WISH TO HAVE YOUR NAME LISTED ON THE WEB PAGE? YES ( ) NO ( )
LICENSE #________________________(WE MUST HAVE THIS TO PLACE YOU ON THE WEB PAGE)
YOU MUST check yes or no, otherwise we will assume that your answer is NO

PLEASE ENTER YOUR DISTRICT #_____ 

PLEASE CHECK THE APPROPRIATE MEMBERSHIP CATAGORY

_____1. Drilling Contractor (owner or manager of a well drilling business) $195.00
_____2. Pump Installation Contractor (owner or manager of a pump installation business) $195.00
_____3. Drilling and Pump Installation Contractor (owner or manager of both businesses) $195.00
_____4. Associate (any person or firm engaged in the manufacturing or selling of equipment services for the water well industry) $195.00

UPGRADE WEBSITE MEMBER LIST We must have your License Number $ 50.00

_____5. Technical (an hydrologist, geologist or engineer involved in teaching, research, consulting or government services concerned with the ground water industry) $ 75.00
_____6. Retired (retired members wishing to retain membership privileges) $ 40.00
_____7. Affiliate (professionals having an interest in the water well industry) $ 40.00
_____8. Employees (employees of paid members—$20.00 each employee) $ 20.00

***Please list name and address of each employee at the top of the page

_____9. Student

VOLUNTARY CONTRIBUTION TO THE CWWCA BUCK LIVELY SCHOLARSHIP FUND $____

THANK YOU!!!!

TOTAL $____

Method of Payment
Check #________________Amount_______________
Credit Card _____VISA_____MASTER CARD_____DISCOVER
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