



*NCGWA
Celebrating Over
70 Years*

February 2023

Water Words

A Letter From The President

Greetings all,

It is a great honor to write to you all today as your newly elected North Carolina Groundwater Association president. I would like to start off by saying “Thank You” to our former president, and my close friend, Bill Magette, for the great job he has done serving as our leader over the last few years. I look forward to many more years of his mentorship as he continues to be our current ‘past president’.

With that said, I would like to take some time to introduce myself. As a third generation driller, I have the privilege of working alongside my father and uncle as one of three co-owners of Yadkin Well Company. I currently hold certifications in North Carolina, South Carolina, Virginia, and Tennessee, as well as holding NGWA CWD/CVCLD credentials. Over the last 23 plus years since graduating high school, I have drilled wells as far east as Selma/Princeton and reaching to Murphy to the west. All along these paths, relationships have been made with counties and contractors. During the last 2c 0.100 well rule update, I had the privilege to sit on the round table with state regulators, and during the recent grout law I was able to create relationships in the state House of Representatives. In retrospect, I believe those experiences are what led me to this position of serving as your president of the NC Groundwater Association. It is my hope that the experiences of my past will better allow me to relate to you and your location, both in county and geologic knowledge. Please know that my door is always open.

May it never be said that NCGWA does not have our citizens and their health in our top priority. I hold firm to the mission statement that we will continue to provide, protect and preserve North Carolina’s greatest resource. By providing meaningful educational events, monitoring local, state and federal legislative agendas, as well as fostering an open, accountable relationship with the well contractor’s commission, I feel confident that together we can continue to uphold our mission.

I’m happy to report that our association is strong, but we need you all to be involved; sign up employees and your spouse, and please be sure to attend our featured events. As former US President Teddy Roosevelt said, “speak softly and carry a big stick”...you are that ‘big stick’. The more members we have, the bigger the stick, so join us! Together we will do great things. Remember, no other organization in NC is working to keep you in business more than the NCGWA.

On behalf of the NCGWA, I would like to thank everyone that took the time to attend our Winter Trade Show in January, and a huge “thank you” to the sponsors that devoted time and resources into our association. We have two exciting events coming up in the next few months, so be sure to check out the article on those events in this newsletter.

I look forward to shaking your hand and meeting you all!

Keep turning to the right,

Matthew Brown, President NCGWA

NCGWA 2023 Spring Drill Day
March 31, 2023
126 Rockhouse Rd., Marion, NC

NCGWA 2023 CE and Golf Tournament
April 27, 2023
Wedgewood Golf Course, Wilson, NC

STATEMENT OF PUBLISHER

Water Words is the official publication of the North Carolina Ground Water Association. Readers are invited to submit manuscripts, which preferably would be limited to 2,000 words or fewer in length. **Water Words'** advertising policy attempts to conform its advertising to business endeavors. Products or services advertised in Water Words are not directly or impliedly endorsed by the NCGWA. The views and opinions implied or expressed herein by authors and advertisers are not necessarily those of NCGWA, the editor or the publisher, and no responsibility for such views will be assumed. This publication is provided with the understanding that opinions, instructions and advice provided by contributing authors and editors are those of such authors and editors and not of this publication. Neither the publisher nor the editor is engaged in providing professional opinions of any nature. If technical or professional advice is required in any aspect of your business, we encourage our readers to seek professional services. The publishers of Water Words may refuse to accept any and all advertising it believes to be false, fictitious or misleading.

AD COPY AND ARTICLES MAY BE SUBMITTED TO:

WATER WORDS

Elaine Christian, Publisher
PO Box 41368
Raleigh, NC 27629
919-876-0687
Email: elaine@execman.net

RATES OF ADVERTISEMENT

Business Card Ad
\$50 per issue/\$200 year

Quarter-page Ad
\$100 per issue/\$350 per year

Half-page Ad
\$150 per issue/\$500 per year

Full-page Ad
\$250 per issue/\$850 per year

PUBLICATION DATES

Articles and ad deadlines

are the first day of

MARCH

JUNE

SEPTEMBER

DECEMBER

Any and all NCGWA members are encouraged to send information on past or coming events or news articles that would be of interest to other well drillers. Please send profiles of well drillers/companies that you feel deserve to be highlighted in our newsletter.

NCGWA Board Of Directors

President

Matthew Brown, Yadkin Well Co., Hamptonville, NC

Vice President

Dustin Merrill, Merrill Drilling & Water Systems, Penrose, NC

Secretary/Treasurer

Reid Mullis, Gopher Utility Services, Kannapolis, NC

Immediate Past President

Bill Magette, Magette Well & Pump Company, Ahoskie, NC

Directors

Jonathan Kamionka, Bill's Well Drilling, Fayetteville, NC

Chad Mullis, DL Mullis Well Drilling, Monroe, NC

Dan Graham, Clear Water Solutions, West End, NC

Mike Floyd, McCall Brothers, Charlotte, NC

Neill Pardue, Air Drilling Company, Statesville, NC

Jimmy Morris, Magette Well & Pump Company, Ahoskie, NC

Jim Cornette, ARM Waterworks, Hampstead, NC

Robb Armstrong, Franklin Electric, Columbia, SC

Phil Silvestri, Preferred Pump, Liberty, NC

Executive Director

Elaine Christian, NCGWA, Raleigh, NC (919-876-0687)

Worth Pickard Scholarship

The N.C. Ground Water Association offers the Worth Pickard Scholarship to eligible students who are currently enrolled or who have been accepted into an accredited college or university.

Consideration will also be given to those seeking specialized courses of study, if the applicant is employed or otherwise involved in some area of the ground water industry.

For eligibility requirements visit:

<https://www.ncgwa.org/content/uploads/2015/03/WorthPickardScholarshipCriteria.pdf>

For an application visit:

<https://ncgwa.org/content/uploads/2021/07/Worth-Pickard-Scholarship-Application-.pdf>

**The deadline for the 2023
scholarship application is
April 15, 2023.**

Contact the NCGWA office at 919-876-0687 for more details.

NCGWA Upcoming Events

Mark your calendars for two upcoming events! Spring Drilling Day in Marion, NC and the annual NCGWA Golf Tournament in Wilson, NC.

Friday, March 31st we would like to invite you all to a hands on drilling day featuring Gefco, Bariod, Mudslayer, Epic, and many more! We will be drilling a well that will serve the new expansion of Equipment International, a group providing training to missionaries whom travel the globe.

So mud drilling in the mountains??? Yes, you heard right! We invite you to come watch us drill and set casing with mud rotary, and observe a mud reclaimer clean the mud. Is this technique something we would use in the piedmont or mountains?? Come and be educated on the many uses of this drilling method. We will also be demonstrating how an air hammer operates, followed by drilling the well with air once the casing is set. These demonstrations will provide a great opportunity for prospective Level A exam persons to observe and learn terms and theories that could be of benefit when taking the exam!

A barbecue lunch will be provided by the famous folks of Countryside BBQ, sponsored by Drilling Equipment Sales. We will also be raffling off a really nice shotgun, courtesy of Air Drilling/Geologic Exploration of Statesville, NC. This hands on drilling day will account for 6 hours of continuing education. I look forward to meeting you all there! We would like to thank all of our many sponsors, that number too many to list for fear of leaving some out.

In April, NCGWA will host its annual Wilson Con-Ed and Golf Tournament. This is always an exciting event to attend! John Boyette is heading up the event, and as always, a famous BBQ lunch will be enjoyed! Can you tell we are real NC people with all the BBQ? Stay tuned for more information on this event, as the topics to be covered have not been finalized.

Keep turning to the right, Matthew Brown, President NCGWA

Registration forms are available at the ncgwa website, <https://ncgwa.org/>

NORTH CAROLINA GROUND WATER ASSOCIATION

2023 Spring drill day

FRIDAY, March 31 | Equipment international | marion, nc
126 rockhouse Road, Marion, NC 28752

Friday, March 31, 2023

8:00 am	Welcome and Schedule, Matthew Brown Introduction to job site set up
8:00 am – 8:30 am	Permitting and Site Selection, Matthew Brown Equipment set up, Jonathan Kamionka Methods of Drilling
8:30 am – 9:30 am	Mud Mixing, Mark Whittle and Jim La Porte Operation and function of Mud Cleaning Systems
9:30 am – 9:45 am	Break
9:45 am – 11:45 am	Drilling the Grout and Casing hole, Jaime Meade Operation of the Air & Mud Rotary Drills
11:45 am – 1:00 pm	Lunch and time with vendors, shot gun drawing
1:00 pm – 2:00 pm	Set Casing and Clean up Mud Equipment, Jonathan Kamionka /Jim La Porte
2:00 pm – 2:15 pm	Break
2:15 pm – 4:15 pm	Down the Hole Hammer Drilling, Matthew Brown/Reggie Martin, Keystone Grouting of casing

NCGWA Annual CE and Golf Tournament

Save the Date! April 27th is the date of our 6th annual golf tournament which will be held at the Wedgewood Golf Course. It will also be the 23rd year of Con-Ed in Wilson.

We have 4 hours of con-ed in the morning along with hot donuts and coffee. Master Trooper Scott Baker will be giving us several updates. Richard Spruill will be speaking on Hydrogeology and Well Hydraulics for Drilling Contractors. Jason Berry will cover several topics: The Entrepreneur's Ladder/6 steps to Build a Brilliant Business/The 5 Ways to Increase Profit. After our CE classes, Parker's Barbeque will be serving eastern NC BBQ before the tournament starts.

We have normally 12-16 4 man teams. If you don't have a team just sign up and we will put you together with other fellow drillers or manufacture reps. Put this date on your calendar and make plans to attend! We look forward to seeing everyone this spring! Registration form will be coming soon to the ncgwa website.

Thanks, John Boyette

Thank You to Our 2023 Trade Show Exhibitors

<u>Company</u>	<u>Phone</u>	<u>Company</u>	<u>Phone</u>
A.Y. McDonald Mfg.	(919) 741-8855	Mitsubishi Materials USA	(980) 312-3159
ActionCOACH/Business Growth Partners	(336) 703-7546	NC WCCC	(919) 707-5882
Baroid IDP	(803) 360-9732	NC811	(336) 707-4528
Charger Water Filtration	(434) 205-3463	Pentair Flow Technologies	(800) 426-9446
Cotey Chemical Corp	(806) 790-4533	Preferred Pump	(336) 373-5900
DAB Pumps	(843) 729-6513	Preferred Sources	(704) 504-3111
Drillers Service	(828) 431-3263	Rakestraw-Bankers Insurance	(336) 280-0321
Drilling Equipment Sales	(828) 322-3056	Rock Drill Sales	(720) 891-7164
Eastern Driller Mfg Co.	(717) 684-3070	Roscoe Moss Company	(614) 395-8495
Eijkelkamp North America	(908) 892-4550	Rotary Drill Service	(828) 465-0132
Flint and Walling	(260) 615-0896	Simmons Manufacturing Co	(864) 216-1152
Franklin Electric	(321) 356-6752	South Atlantic Jubilee	(855) 987-7469
GEFCO	(580) 341-9702	Water Chemistry	(540) 343-3618
Grundfos	(913) 227-3400	Water Systems Countil	(704) 658-8730
Hole Products	(320) 616-0210	Water-Right	(920) 460-6094
Keystone Drill Services	(814) 443-2670	Webtrol Pumps	(314) 631-9200
Manufacturers Assoc. of NC	(704) 562-7460		

Thank You to Our Trade Show Sponsors!

Drillers Service - Diamond Level

Preferred Pump - Platinum Level

Franklin Electric - Platinum Level

NCGWA CORPORATE PARTNERS

Baroid
Mark Whittle
PO Box 1675
Houston, TX 77251
mark.whittle@halliburton.com
281-871-5688



Pentair Flow & Filtration
Mike Hulburt
293 Wright St.
Delavan, WI 53115
mike.hulburt@pentair.com
714-227-8142



Drillers Service
Roy Lawson
PO Box 1407
Hickory, NC 28603
r.lawson@dsidsi.com
828-431-3245



Preferred Pump
Phil Silvestri
745 South Greensboro Street
Liberty, NC 27298
psilvetri@preferredpump.com
336-373-5900



Franklin Electric
Robb Armstrong
12 Summer Creek Court
Irmo, SC 29063
rarmstrong@fele.com
321-356-6752



Roscoe Moss Company
David Branham
4360 Worth Street
Los Angeles, CA 90063
dbranham@roscoemoss.com
913-488-1096



**ROSCOE MOSS
COMPANY**

Hole Products
Sibyl Hendley
508 Memminger Court
Woodruff, SC 29388
marketing@holeproducts.com
828-838-2110



Rotary Drill Service
Eddie Hendershot
PO Box 1470
Newton, NC 28658
ehendershot@rotarydrill.com
828-465-0132



Calendar of Events

- ◆ NGWA Fly In - March 22-23, 2023, Washington D.C.
- ◆ 2023 Spring Drill Day - March 31, 2023, Marion, NC
- ◆ Worth Pickard Scholarship Deadline - April 15, 2023
- ◆ NCGWA CE and Golf Tournament - April 27, 2023, Wilson, NC
- ◆ South Atlantic Jubilee - July 29 - 31, 2023 - Myrtle Beach Convention Center, Myrtle Beach, SC

The NCGWA would like to send a special thank you to Kristie Waters with Venable Brothers Well Construction in Walnut Cove for helping with the auction held at the annual trade show. Kristie has helped for many years with the clerking at the auction. We don't know what we would do without her. Thank you Kristie!!

NGWA Fly In - March 22-23, 2023

The Fly-In will focus on two days of advocacy surrounding the industry's most pressing policy issues. Attendees will meet with their representatives in Washington, D.C., and be given the opportunity to discuss priorities such as expanding grants for private water well owners, PFAS, managed aquifer recharge, workforce development, and new regulations for CDLs and CMVs. The Fly-In will also include a full day of policy presentations and networking opportunities.

The 2023 Fly-In will include:

- Guest speakers from Capitol Hill, the administration, and partner organizations
- Great networking opportunities and social events
- A legislative briefing to prepare attendees for meetings on Capitol Hill
- A day of Capitol Hill meetings arranged by NGWA staff
- And much more to be announced!
-

A full schedule of events is available but registration ends **February 27**. So don't wait and register. Just go to <https://www.ngwa.org/get-involved/advocacy/fly-in> for registration information.

Please contact Ben Frech at bfrech@ngwa.org with any questions you may have and we will see you in Washington, D.C.!

Road Salt Found to Impact Groundwater Throughout Year

To reduce hazardous road conditions caused by snow and ice, many counties, municipalities, homeowners, and others use deicers. Salt is the most common option to treat roads.

But how might road salt impact groundwater? Does it have impacts only in winter, or does it have lasting impacts year-round?

These are key questions that Rachel McQuiggan, a researcher at the Delaware Geological Survey, and colleagues wanted to answer. In their research, they monitored stormwater and groundwater at an infiltration basin.

“Most stormwater management practices are designed to protect surface waters,” McQuiggan said. “Infiltration basins, and even some types of green infrastructure, are designed with the idea that stormwater benefits from a natural ‘filtering’ of contaminants as it infiltrates through soil, and contaminants dilute as that recharge mixes with existing groundwater.”

She adds that these are used to prevent contaminants like salt from being discharged straight into surface water. But in states like Delaware, groundwater contributes up to 80 percent of the water in rivers and streams. This means that salt will eventually reach rivers and streams, just on a longer timescale.

The researchers monitored the infiltration basin from mid-May 2019 to mid-February 2022 to evaluate the impact road salt had on groundwater quality. One aspect of their findings showed that geological complexity, such as differences in subsurface soil properties, influenced how salty stormwater moved through groundwater.

The researchers explained it is important to consider things like placement, depth, and frequency of monitoring groundwater to get the full picture.

The team also found that groundwater is impacted by road salt throughout the year, not just during winter. This is because the salt is retained in the soil in the infiltration basin. Salt is made of sodium and chlorine atoms, and chloride more easily moves in water. However, sodium more easily latches onto soil particles.

Taken from the Water Well Journal. To read the complete article please visit <https://waterwelljournal.com/road-salt-found-to-impact-groundwater-throughout-year/>

UTILIZE OUR EXPERT BUILD CENTER TODAY



 ESSENTIAL. *≈ CUSTOMIZE IT.*



**ANY MCDONALD 6-10" STAINLESS
STEEL PUMPS UP TO 125 HP**

**FRANKLIN 6" & 8" CAST IRON
STS/SSRS UP TO 125 HP**

**24 HRS OR LESS TURNAROUND
FOR CUSTOM BUILT TURBINES**



DSIDSI.com

CALL YOUR LOCAL NORTH CAROLINA DSI BRANCH TODAY!

HICKORY 828-322-1103 • GREENSBORO 336-275-9858
SELMA 919-934-5074 • WILMINGTON 910-799-1128

NCGWA
PO BOX 41368
RALEIGH, NC 27629

FORWARDING SERVICE REQUESTED

NCGWA

919-876-0687

WWW.NCGWA.ORG

North Carolina Ground Water Association - Membership Application

Active Members: Contractors Division

- *Any person engaged in the business of well drilling. *Any person engaged in the business of monitoring well drilling.
- *Any person engaged in the business of installing, maintaining, and repairing pumps and who is authorized to execute contracts in connection therewith but does not engage in the business of water well drilling.

Active Members: Non-Contractors Division

- Manufacturing:** Any person engaged in manufacturing equipment, materials, or supplies in the ground water industry.
- Water Equipment Wholesalers and Suppliers:** Any person which does no contracting for the drilling of water wells and/or installation and servicing of water pumps, and which:
 - *is an established wholesaler maintaining warehouse and stock of pumps, pump parts and other water handling equipment which are sold regularly to dealers and/or contractors for resale; or
 - *is engaged in the business of supplying equipment, rigs or tools or rendering specialized services to the water well industry from an established place of business in its trading area.
- Technical:** Any person engaged in the supervision, regulation, evaluation, development or investigation of underground water supply installations or related to technology or any individual in an accredited university, college or preparatory school, public or private, studying or teaching subject matter embracing the water well industry.

_____ **Active Members-Contractors, \$75 per person, per year**

_____ **Active Members-Non-Contractors, \$75 per person, per year**

Associate Members: Any eligible person interested in the work of the Association who is not eligible to become an active member may become an Associate Member. _____ **Associate Members \$75 per person, per year**

1. Name _____ Commission Issued Certification # _____
2. Company _____ Phone _____
3. Street/P.O. Box _____ Fax _____
4. Town/State/ZIP/County _____
5. Email _____

Please check what type of membership and fill out your information and send it, along with your payment, to NCGWA, P.O. Box 41368, Raleigh, NC 27629. Make checks payable to NCGWA. If you have any questions, please call 919-876-0687.