President's Message

Hello and thank God our hot summer is coming to an end!

By the time you get this, summer will be winding down and we hope that what is traditionally our busiest season has shown a marked improvement for everyone’s businesses. It won’t be long till the holidays are upon us again. In fact, we are now into the planning stages of our next NJGWA Holiday Party: January 14th, 2017 at Harrah’s, Atlantic City.

Be on the lookout for invitations in the next couple of months to get on your calendars and we hope to see you there!

It is with great sadness that we have to announce the passing of two of our members that have given so much to our industry and our associations. Their obituaries are located here in our newsletter.

• Henry King III
• Leonard Assante

In This Issue

President’s Message ................. 1
Officers .................................. 2
National News .......................... 2-7
Thank You to our Sponsors ........ 11

NJGWA 2016 Meeting Dates

Quarterly Meetings
Third Tuesday of March 3/15
Second Tuesday of May 5/10
Third Tuesday of September 9/20
Third Tuesday of November 11/15

Directors Meetings
Second Tuesday of February 2/2
Second Tuesday of April 4/5
Second Tuesday of August 8/2
Second Tuesday of October 10/4

In The News

Voorhees-based American Water, the nation’s largest publicly traded water and wastewater utility company, announced that it has signed an agreement to acquire the Shorelands Water Company, a privately owned water utility that provides water services to more than 11,000 customer accounts in Monmouth County. Financial and other terms of the sale were not disclosed. The agreement is subject to the review and approval of the New Jersey Board of Public Utilities.

“This important acquisition provides a direct link with our water system serving the community of Union Beach, enhancing supply to the northeastern sections of Monmouth County that we serve. The strength of the Shorelands system will help New Jersey American Water achieve a goal of increased reliability for customers without the need for additional projects that were being evaluated,” said Bill Varley, president of New Jersey American Water.

Shorelands was first established in 1926 as a supplier to the summer residents of West Keansburg. Under the guidance of the current owners since 1957, it grew to provide service to residents in the Bayshore communities of Hazlet, Holmdel, Union Beach, Keyport and Aberdeen. Shorelands delivers approximately two billion gallons of water to its customers annually.

When completed, the acquisition will continue the expansion of New Jersey American Water’s operations. Earlier this year, American Water completed the acquisition of Environmental Disposal Corporation (which provides service in the Bernards and Bedminster area), and New Jersey American Water acquired the former Roxiticus Water Company (in Mendham Township) and began providing water and wastewater service to Elk Township.
NGWA / NJGWA National News 2Q/2016:

On the National Front

Submitted by Denis Crayon, CHST Summit Drilling Co. Inc.

NGWA Events and Education Conferences

Conferences

September 8-9, 2016  Connecting the Dots...Groundwater, Surface Water, and Climate Connections

November 9-12, 2016  Emerging Leaders Alliance Conference

December 6-8, 2016  2016 Groundwater Week

Courses and workshops

September 7, 2016  Drilling Fundamentals for Hydrogeologists

September 7, 2016  Introduction to Organic Groundwater Geochemistry

September 12-13, 2016  Applications of Groundwater Geochemistry

October 3-6, 2016  Fracture Trace and Lineament Analysis: Application to Groundwater Characterization and Protection

October 13, 2016  The Sustainable Wellfield: An Asset Management Short Course

December 5-6, 2016  Groundwater/Surface Water Interactions: Tools and Technologies to Evaluate a Complex Environmental and Regulatory Setting

December 9, 2016  Hydrogeochemical Processes Controlling Metals Remediation of Aquifer Systems

Webinars and brown bag sessions

September 14, 2016  Drilling Fluid Mixing

September 15, 2016  Advances in Remediation Solutions Webinar Series: The New ROI — Return on Investigations by Utilizing Smart Characterization Methods

The New Jersey Ground Water Association newsletter is published quarterly. Deadline for copy and advertising is February 15, April 15, August 15, and October 15, 2016. Please contact George Strycker for article submission at 732-423-0521 or e-mail Gstrycker@aol.com. For information on placing an advertisement, please contact Barbara Mortillite at e-mail info@njgwa.org.
*September 15, 2016  An Overview of U.S. EPA’s Vapor Intrusion Guidance


September 22, 2016  Workplace Violence

*October 5, 2016  NGWA’s Best Suggested Practice for Residential — and Other Smaller Diameter — Well Cleaning

October 11, 2016  Advances in Remediation Solutions Webinar Series: Cleaning Up a Three-Mile-Long Groundwater Plume — It Can Be Done

November 3, 2016  How to Conduct an Incident Investigation

November 8, 2016  Advances in Remediation Solutions Webinar Series: Big Data and Environmental Remediation — Gaining Predictive Insights

January 19, 2017  OSHA’s New Final Rule on Crystalline Silica

* Free offerings for NGWA members!
Protect Your Groundwater Day
Simple ways everyone can act to protect groundwater

Everyone can and should do something to protect groundwater. Why? We all have a stake in maintaining its quality and quantity.

• For starters, 99 percent of all available freshwater comes from aquifers underground. Being a good steward of groundwater just makes sense.

• Not only that, most surface water bodies are connected to groundwater so how you impact groundwater matters.

• Furthermore, many public water systems draw all or part of their supply from groundwater, so protecting the resource protects the public water supply and impacts treatment costs.

• If you own a well to provide water for your family, farm, or business, groundwater protection is doubly important. As a well owner, you are the manager of your own water system. Protecting groundwater will help reduce risks to your water supply.

Groundwater protection

There are two fundamental categories of groundwater protection:

• Keeping it safe from contamination

• Using it wisely by not wasting it.

Before examining what you can do to protect groundwater, however, you should know that sometimes the quality and safety of groundwater is affected by substances that occur naturally in the environment.

Naturally occurring contamination

The chemistry of the groundwater flowing into a well reflects what’s in the environment. If the natural quality of groundwater to be used for human consumption presents a health risk, water treatment will be necessary.

Examples of naturally occurring substances that can present health risk are:

• Microorganisms (i.e., bacteria, viruses, and parasites; these tend to be more common in shallow groundwater)

• Radionuclides (i.e., radium, radon, and uranium)

• Heavy metals (i.e., arsenic, cadmium, chromium, lead, and selenium).

Public water systems are required to treat drinking water to federal quality standards. However, it is up to private well owners to make sure their water is safe.

Contamination caused by human activities

Human activities can pollute groundwater, and this is where every person can help protect groundwater — both in terms of groundwater quality and quantity.

Some common human causes of groundwater contamination are:

• Improper storage or disposal of hazardous substances

• Improper use of fertilizers, animal manures, herbicides, insecticides, and pesticides

• Chemical spills

• Improperly built and/or maintained septic systems

• Improperly abandoned wells (these include water wells, groundwater monitoring wells, and wells used in cleaning contaminated groundwater)

• Poorly sited or constructed water wells.

An emerging concern in recent years is the occurrence of pharmaceuticals and personal care products in water. Much research remains to be done to assess the health risks of trace amounts of these items. Learn more about this issue here.
Water conservation

Americans are the largest water users, per capita, in the world. In terms of groundwater, Americans use 79.6 billion gallons per day — the equivalent of 2,923 12-oz. cans for every man, woman, and child in the nation.

Agricultural irrigation is far and away the largest user of groundwater in America at 53.5 billion gallons a day followed by public use via public water systems or private household wells at a combined total of 18.3 billion gallons per day. More efficient use of water in either of these areas could save a huge amount.

At the household level, the greatest amount of water used inside the home occurs in the bathroom. The remainder of indoor water use is divided between clothes washing and kitchen use, including dish washing, according to the U.S. EPA.

Depending on where in the country you live, outdoor water use can vary widely.

If you want to get an ever better idea how much water you use, find out your “water footprint” by calculating the amount of water it takes to produce some of the food you consume.

ACT — acknowledge, consider, take action

On Protect Your Groundwater Day, NGWA urges you to ACT. Use this day to begin doing your part for protecting one of our most important natural resources — groundwater.

1. Acknowledge the causes of preventable groundwater contamination
   - Everyone
     - There are hazardous substances common to households
     - Most household water use occurs in a few areas around the home.
   - If you own a water well
     - Wellheads should be a safe distance from potential contamination
     - Septic system malfunctions can pollute groundwater
     - Poorly constructed or maintained wells can facilitate contamination
     - Improperly abandoned wells can lead to groundwater contamination (read related article).

2. Consider which apply to you
   - Everyone
     - What specific hazardous substances are in and around your home?
     - Where do you and your family use the most water?
   - If you own a water well
     - Is your wellhead a safe distance from possible contamination?
     - Is your well/septic system due for an inspection?
     - Are there any abandoned wells on your property?

3. Take action to prevent groundwater contamination
   - Everyone
     - When it comes to hazardous household substances:
       - Store them properly in a secure place
       - Use them according to the manufacturer’s recommendations
       - Dispose of them safely.
     - When it comes to water conservation:
       - Modify your water use
       - Install a water-saving device.
   - If you own a water well
     - Move possible contamination sources a safe distance from the wellhead
     - Get current on your septic system inspection and cleaning
     - Get your annual water well system inspection
     - Properly decommission any abandoned wells using a professional.

For more information

To discuss groundwater protection and other groundwater-related issues, follow NGWA’s Facebook page and post your comments or questions on the discussion board.

For more information on Protect Your Groundwater Day, contact NGWA Public Awareness Director Cliff Treyens at 800 551.7379, (614 898.7791), ext. 554, or ctreyens@ngwa.org.
McCray Stepping Down as CEO in December 2017

After more than 34 years of combined employment by the National Ground Water Association and its subsidiaries, including more than 20 as the chief executive officer, Kevin McCray, CAE, informed the NGWA Board of Directors of his retirement as the Association’s CEO on December 31, 2017.

“I am humbled and gratified by the many diverse opportunities afforded me during my service to the Association’s membership, as well as to the larger global groundwater community,” McCray told the Board. “All in all, everyone has been an honor to serve.

“It has also been my special reward to work beside exceptionally dedicated and member-focused staff colleagues throughout my NGWA career. I am confident I learned far more from them than ever could be tallied. They are NGWA, through and through.”

McCray first began work for the Association in 1979 as an assistant editor in its publishing subsidiary. From 1983 to 1985, he worked for an industry manufacturer, and returned to NGWA in December 1985, serving in a number of roles until being named the Association’s executive director in August 1995. He also serves as the chief executive of the Association’s foundation.

With McCray at the helm NGWA has accomplished a multitude of achievements greatly impacting the groundwater community in the last 20 years. Among them are:

- Publishing an industry standard in 2014, the ANSI/NGWA 01-14 Water Well Construction Standard
- Developing a set of industry best suggested practices that currently numbers 19 with more in development
- Hosting numerous national and international professional development opportunities, including events in Australia and Panama
- Having NGWA work with several federal agencies, including the U.S. Environmental Protection Agency, on a variety of programming benefiting the groundwater industry and well owners

“I will miss the energy and satisfaction of helping any individual or any organization in need of the Association’s resources,”
• Invigorated its charitable foundation, creating several endowed funds that have awarded tens of thousands of dollars in grants and scholarships.
• Hosting its biggest annual exhibition, the Groundwater Expo in 2004 with 5,959 attendees in Las Vegas.
• Seeing its technical journals, Groundwater and Groundwater Monitoring & Remediation, grow in international recognition with hundreds of thousands of articles downloaded annually from researchers all around the world.
• Developing a program for well owners to become better stewards of groundwater with a website and other material specific to homeowners utilizing water well systems as their daily source of water.

“I will miss the energy and satisfaction of helping any individual or any organization in need of the Association’s resources,” McCray added. “I look back on a legacy of accomplishments large and small and take pride in knowing I have left valued contributions.”

NGWA Board President Jeffrey Williams, MGWC, CVCLD, is activating a task group from within the Board of Directors, which will meet to review a recommended transition timetable and related actions, as well as expectations for the future CEO. He anticipates the search beginning in the first quarter of 2017. NGWA is not currently accepting resumes and is not taking calls or emails about the position at this time.

Williams anticipates the new CEO will assume his or her duties in conjunction with the 2017 Groundwater Week annual meeting and trade exposition December 5-7, 2017 in Nashville, Tennessee.

“During my time on the board, especially as president, I have looked to Kevin for guidance on many issues,” Williams said. “He has never failed to be thorough, forthright, and professional. He maintains a tremendous amount of insight and knowledge on so many subjects.

“As Kevin opens a new chapter in his life NGWA must do the same. I anticipate this to be a challenging but rewarding experience. Kevin has set the bar very high with his level of service and dedication, but NGWA must now embrace the opportunity to find a person that can continue to lead our Association forward. We will work hard to ensure this transition is a positive move for both Kevin and NGWA.”
NJGWA Scholarship Program

Adam Rinbrand Scholarship fund

NJGWA Adam Rinbrand, Sr.,
College Scholarship Fund awards for 2016

Madison Neri
Matthew Dillon
Francesca DiGuglielmo

Students will each receive a check for $1000.00 at our September meeting.
Carol Graff and George Berry administer the fund.

The following individuals passed their Well Drillers Examinations and are being provided a one year Associate Membership to the NJGWA

Mark Christman
Master Driller, Branchville NJ

David Myerchin
Master Driller, Blairstown NJ

Andrew Wadden
Journeyman Driller
Washington Township NJ
Contractors’ equipment is covered by an Inland Marine policy, sometimes referred to as an equipment floater. Here are a few things you should be thinking about while reviewing your list, or schedule of equipment during your annual insurance renewal process.

**Have you purchased or sold any equipment throughout the year?** Whenever you purchase any new equipment be sure to tell your agent the item name, model, serial number and most importantly the purchase price. Many policies available today offer full replacement cost on items five years old or newer so you’ll want to insure brand new items for the full purchase price. If you’ve sold any equipment you’ll want to review your equipment schedule to be sure the item has been removed. There’s nothing worse than paying for coverage on something you no longer own.

Most items on your Inland Marine policy will be covered for actual cash value, or ACV. Often times I find people get a bit confused about what ACV is. ACV takes into account for depreciation, age, and condition of the item.

The most basic way to look at it is how much of the useful life of an item has been used up. As an example, if your drill rig is expected to last twenty years and it’s ten years old it should be insured for about half of the original purchase price. However, as stated earlier the condition of the rig will play a part in determining the value along with the market price at the time of a claim. This is one area where the driller’s expertise, and knowledge of their equipment is extremely valuable. Repairs, overhauls, and even basic upkeep all go into determining what your rig, or any other piece of equipment you own is worth.

Drillers’ equipment is very specialized and one thing I’m sure of – no one in the insurance business knows the value of it as much as drillers do. Talk with your agent, make sure they understand what they’re insuring for you and what it’ll take to replace it. ACV is a flexible thing. If you do your homework, and explain everything to your agent you should be very happy with how any claims are handled.

As always, if you have any questions please feel free to reach out to me; I’d be more than happy to help you work through some details. In the meantime be safe, work smart, and don’t go down the hole without the right coverage.
GRUNDFOS®

SUBMERSIBLE TURBINES

FEATURING

1. Serving all of New Jersey and Eastern Pennsylvania
2. Factory trained assemblers
3. Up to 50 HP
4. Motor inventory up to 50 HP
5. One day build for all in stock build components
6. Up to 385 GPM models available in stock
7. Assembled locally in Cinnaminson, NJ

CONTACT YOUR LOCAL BRANCH TO PLACE AN ORDER

2209 Lenola Rd. • Cinnaminson, NJ 08077
Toll Free: (800)-486-0810

Visit us on the Web: www.njgwa.org
Support The Companies That Support Your Association

New Jersey Ground Water Association 2015 Holiday Party Sponsors

**Platinum**
- Flomatic Corporation
  - Glens Falls, NY 12801
- Summit Drilling Co., Inc.
  - Bridgewater, NJ 08807

**Gold**
- Absecon Electric Motor Works, Inc.
  - Absecon, NJ 08201
- All Star Drilling & Probing, LLC
  - Morganville, NJ 07751
- Aquaflow Pump & Supply, Inc.
  - Huntingdon Valley, PA 19006
- Franklin Electric
  - Fort Wayne, IN 46809

- Goulds Water Technology
  - Xylem Inc. Applied Water Systems
    - Seneca Falls, NY 13148
- Hawk Drilling, Inc.
  - Hampton, NJ 08827
- Pentair
  - Minneapolis, MN 55416
- SGS Environmental Drilling
  - West Creek, NJ 08092
- US Exploration, Inc.
  - Indianapolis, IN 46203
- WellTech Products Inc.
  - Macungie, PA 18062
- Yorgey Supply NJ, Inc.
  - Shamong, NJ 08088

Your complete source for water systems and water treatment supplies

**DUFF Co.**

Your #1 source for Water Treatment and Well Pump Products.

- Softeners • Filters
- Pumps, Tanks & Neutralizers
- Grounds Well Pumps
- Water Conditioning Specialists

For more information, contact your Duff representative:
- John Errington • 610.475.8760
- jerrington@duffco.com • www.duffco.com

201 E. Lafayette Street
Norristown, PA 19401
610.275.4453

**YORGEY SUPPLY NJ**

WHOLESALE DISTRIBUTION
- Pumps and Water Systems
- Constant Pressure Drives
- Water Treatment Equipment
- Environmental Well Products
- Sewage and Effluent Systems
- Geothermal Loops and Fittings

CONTACT
- PHONE
  866-YORGEY-NJ
  609-801-0771
- FAX
  609-801-0772
- ADDRESS
  89 Willow Grove Road
  Shamong, NJ 08088
- ONLINE
  yorgeysupplynj.com

COMPETITIVE PRICING • QUALITY PRODUCTS • EXCELLENT SERVICE
New VFD Enviro-Check® Valve

Available 1” - 4” Unique Patented Design VFD Check Valves
(Also available in Ductile Iron and Stainless Steel 1” thru 8”)

America’s First Choice

New patented submersible pump check valve for use on variable flow demand (VFD) systems and applications. Standard check valves will “chatter” and be noisy when the system goes to low flow, causing eventual failure. The unique Model 80E VFD and 100E VFD valves are designed to minimize flow losses and hydraulic shocks in the pumping system.

Flomatic’s valves are used by more pump manufacturers than any other valve on the market. This new, exclusive poppet system ensures that the valve smoothly and automatically adjusts to flow changes and is noiseless at even very low flows. Call for complete information at 800-833-2040 or visit us on the web at www.flomatic.com
Henry E. King III
November 29, 1956 – May 21, 2016

Henry E. King III, age 59, of North East, MD and former longtime resident of both New Castle and Bear, DE, passed away peacefully at home, with his loving family at his side. A native Delawarean, Henry was born in Wilmington on November 29, 1956, and was a son of Henry E. and Carolyn (Woerner) King. He was a member of the graduating class of 1974 from William Penn High School and received his bachelor’s degree from the University of Delaware in 1978. After completing high school, Henry went to work for the family business - Aqua Flow, and over the years helped to grow the company to 11 locations in 4 states.

An avid football fan, he was a passionate and lifelong supporter of the Washington Redskins. Henry was an active member of several professional associations. He will be remembered for his kind and compassionate nature and as a true gentleman with a heart of gold. Above all else, Henry was a devoted family man who adored his daughters.

In addition to his parents, he is survived by his loving wife of 13 years, Crystal (Edmonds) King; daughters, Courtney McEntee (Christopher), Katie McCracken (William), Stephanie Stone (C.J.) and Shannon Boydten (John); siblings, Deborah King and Edward King (Loretta); grandchildren, Jordon Stone, Bryson Weber, Sage Stone, Logan Boyden, Gabriel McEntee and Brelee Stone; 6 nieces; and many dear friends.

In lieu of flowers, contributions in Henry’s memory may be made to the St. Jude Children’s Research Hospital, 501 St. Jude Place, Memphis, TN 38105 or to John Hopkins Children’s Center, Department of Child Life, Charlotte R. Bloomberg Children’s Center Building, Room 7217, 1800 Orleans Street, Baltimore, Md. 21287.

To sign guest book, visit spicermullikin.com
SPICER-MULLIKIN FUNERAL HOMES & CREMATORY, 302-328-2213

Leonard A. Assante
July 14, 1941 – August 15, 2016

Leonard Anthony Assante, 75, died peacefully on Monday, August 15, 2016 at CareOne at Somerset Valley. Son of the late Michael and Rita Assante, Len was born and raised in Martinsville, NJ and was a recent resident of St. Michaels, Maryland before moving back home to New Jersey in 2015. He graduated from Bound Brook High School in 1959 before joining the US Army. After his service in the military, Len returned to Martinsville to work with his father and brother at Assante Brothers/Plainfield Well Drilling Company, retiring in 2008.

Len served the groundwater industry with distinction for more than 50 years. He held leadership roles, including President, in the New Jersey Ground Water Association, and the Northeast and Mid-Atlantic Board of Directors. On a national level, Len served on numerous committees; taking a keen interest in both education and governmental affairs to ensure access to clean water for all. His involvement culminated in his role of President and recipient of the industry’s most prestigious accolades: the Ross L. Oliver Award in 2002 for his overall contribution to the industry, and the Standard Bearer Award in 2006 for his active role in legislative initiatives affecting groundwater.

Throughout his life, Len shared his time and talents with numerous organizations. Notably, he was a partner and developer of Warrenbrook Country Club; a board member of Girl Scouts; and an active supporter of the local PTA.

Len was a loving and dedicated father, grandfather, husband, sibling and friend. He shouldered the burdens of others without hesitation; gave freely of his love and support; and approached the world with unbridled compassion and good humor. He was a storyteller extraordinaire and forever a kid at heart. While he will be dearly missed by all, his spirit will live on in those who were blessed to have known him.

Len is predeceased by his first wife, Mary Lou (Canavesio) Assante who passed in 1982.

He leaves behind to cherish his memory his wife, Joanne (DeFino) Assante; daughters, Linda Assante Carrasco and husband Marc and Lisa Assante Carmine and husband Michael; grandchildren, Sarah, Maya and Kaleigh; and siblings Michael Assante, and Angela Prokopczyk.

Should friends desire, contributions in Len’s honor may be sent to the following: NGWREF Len Assante Scholarship Fund which awards scholarships to assist those studying in groundwater-related fields. Donations can be made through the following link: http://www.ngwa.org/Foundation/assante/Pages/default.aspx
I received a message from the owner from my old company one day: “I got a pretty easy job for you. Give me a call when you get a chance.” So I called him and come to find out, he wanted me to get my rig, drive it to Baltimore (I was based out of New Jersey) so I would be there by daylight and they were going to load it on to a barge and float it out into the harbor to drill an inclinometer.

I couldn’t wait to see this. I had a fairly big rig. - A Failing 1500 on a tandem truck going about 50K. So my helper and I drove down at night, got a hotel and were at the dock first thing in the morning.

I met the owner of the dock and he showed me the barge. It was a fairly substantial barge! I forget exactly, but probably 40’ X 100’. It could have been slightly bigger! He took us onto the barge to show how well it was built and to show me the hole that we could drill through.

There was only one problem: I might have been able to drill through the hole in the barge, but there was no way to set inclinometer pipe and get the barge off of it without breaking the pipe. They were going to have to make a platform off of the back of the barge to drill through so we could pull off of the inclinometer pipe when we were done.

Also, I told him that I needed water for drilling, to which he said “you’re working in the water.” We needed potable water to grout the inclinometer in place. I could have drilled the hole with revert and the saltwater, but I needed potable water to grout. I called the owner and we went back to the shop while they fabricated the platform.

We received a call a few days later that it was ready, so we went back down with an empty tank and put it on the barge and pumped the potable water into it. We loaded our inclinometer pipe and grout tub and drilling mud and grout.

They had done a pretty good job with the platform - well built and well braced. I wasn’t going to have to get the rig onto it. We only had to stand and work off of the platform. I had plenty of room between the last set of tires and where the Kelly bar goes through, so I just backed it up to the end of the barge, set the mud pan on the platform and we were OK.

We looked the platform over a little further. They had installed 2 sets of cables all the way around the platform as a mid rail and top rail for fall protection, but there was no toe board. So we had to quickly make something up (we didn’t want anything rolling off as we were working -or us).

They gave us directions for how to get to where the barge would be anchored. So the tugboat and barge took off and we took off. We drove around and met our owner at the meeting spot. He opened his trunk and gave us 2 life jackets. We put them on and they found out they were full survival life jackets. We
couldn’t move! There wasn’t any way we could work in them, we couldn’t even move our arms. He had to go out and find us working life jackets.

We went over to see the barge. It was anchored about 10’ off of the old dock in about 50’ of water. They had already set a 12” pipe through the water and set it into the bottom sediment @ 10’ for us to drill through.

My question- how do we get onto the barge? So the guy at the dock throws a 2” x 12” x 12’ from the dock to the barge and says “that’s how,” Well you know I’m about as clumsy as they come and didn’t want to test the life jacket before I even got on the barge. So I said “NO WAY!” They had to go find me an acceptable platform to use, which they did fairly quickly.

We got on the barge and set the rig up and we had them maneuver us over the pipe. Then we discovered that the barge didn’t have any spuds. Their plan was to throw 2 ropes to the dock and keep them taut. Then they pulled another larger barge alongside of us that had a crane and spuds. The crane hooked onto our barge and pulled us tight against the dock ropes.

It wasn’t too bad until a large container ship came by, which threw us off our hole and we had to reset the barge and ropes. Every time a large ship came by we had to reset everything. So eventually we started drilling and we also had to watch for ships coming. When a ship came by we had to quickly pull our rods so we didn’t shear them off between the barge and the rig, then wait for it to go by, reset the barge and continue drilling.

It took 2 days of playing this game to get the hole done which only went about 100’ total. We finished the hole very late on a Wednesday afternoon right before Thanksgiving. We were getting ready to leave for the holiday when the dock foreman said he had just received special permission for us to stay late and finish. Great!

Everyone else had left except for us and one pissed off crane operator. I didn’t really have any worry about the hole collapsing because we were in the hard red and white clay down there that some of you may be familiar with. So we stayed and installed the inclinometer and grouted it in place. Thank God for the crane lights! We flushed our pump and drained the pump and lines down, laid the tower over and moved the rig to the center of the barge and reset the jacks just in case - and drove home like hell.

We came back down on Monday and discovered that over the weekend they had had a big storm which pushed the barge up onto the inclinometer pipe and broke it off in the 12” casing. Great! It was broken down far enough that I couldn’t reach it to fix it. The inclinometer casing has grooves on the inside of the pipe that you need an alignment tool to get the repair coupling (I didn’t have a repair coupling or alignment tool with us anyway) on right so that the reading tool can pass freely along the grooves.

It worked out that we were able to rig something up with 1” PVC pipe that we could guide the reading tool into the broken pipe and get it aligned with the grooves. We lowered it to the bottom and pulled it back and they got their initial reading. All done!

We finished packing up the rig. They floated it back to the original dock and we picked it up and drove home. Success!

Then, I received a call a couple of weeks later. They wanted another inclinometer installed. What would it take to get me back there? I gave him my list of ‘demands’ of which the only one really was a barge with spuds. I never heard from them about it. Didn’t ask! Never went back there! I don’t know if someone else did it or not. Really, if everything was fully thought out ahead of time it could have been a fairly easy job.

Submitted by Ron Barber,
Master Well Driller
August 4, 2016

“I got a pretty easy job for you. Give me a call when you get a chance.”

---

New Jersey Groundwater Association

MORRIS industries, inc.
Your Complete Source For All Ground Water And Environmental Products

George Berry
Dan Fletcher
P.O. Box 278
777 Route 23 South
Pompton Plains, NJ 07444

(973) 835-6600
(800) 835-0777
FAX (973) 835-7414

Amtech Insurance Brokers
A Division of Assured SKCG, Inc.

Phone: 518-783-8800
800-543-2315
Fax: 518-783-0345

8 Stanbury Circle
Latham, NY 12110
www.amtechins.com

Paul V. Quirk, CIC
pquirk@amtechins.com
New Jersey Groundwater Association
NJGWA, c/o Barbara Mortillite
14 North Mt Airy Ave
Egg Harbor Twp, NJ 08234

Quarterly Meeting
September 20, 2016
Mastori’s Restaurant & Diner
Rt. 206 & 130, Bordentown, NJ

6:00 p.m. Cocktail Hour
7:00 p.m. Dinner

Guest Speaker:
Sgt Scott Dorrler
New Jersey State Trooper
Topic: “Transportation Safety Unit”

R.S.V.P. Yorgey Supply, NJ
609-801-0771

Please Support the Associate Members that Support our Association

<table>
<thead>
<tr>
<th>Company</th>
<th>Contacts</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amtech Insurance Brokers, Inc.</td>
<td>Paul Quirk</td>
<td>Insurance</td>
</tr>
<tr>
<td>Aquaflow Pumps &amp; Supply, Co.</td>
<td>Ed King</td>
<td>Well Supplies</td>
</tr>
<tr>
<td>Baker Water Systems</td>
<td></td>
<td>Well Screens, Casings, Water System Products</td>
</tr>
<tr>
<td>BAROID Industrial Drilling Products</td>
<td>Dennis Duty</td>
<td>Quik-Trol Gold, Ez-Mud Gold, Bore-GROUT</td>
</tr>
<tr>
<td>Blake Equipment</td>
<td>Marty Theys</td>
<td>Franklin, Goulds, Baroid</td>
</tr>
<tr>
<td>CETCO</td>
<td></td>
<td>Super Gel-X, CETCO Grout, PureGold Medium Chips</td>
</tr>
<tr>
<td>Drillers Service, Inc.</td>
<td>Mark O'Keefe</td>
<td>Franklin Electric, Amtrol, Well Supplies</td>
</tr>
<tr>
<td>Duff Company</td>
<td>John Errington</td>
<td>Well supplies</td>
</tr>
<tr>
<td>ECT Manufacturing, Inc.</td>
<td>Jeff Sassin</td>
<td></td>
</tr>
<tr>
<td>Flexcon Industries</td>
<td></td>
<td>Well Rite Well tanks, Flexlite well tanks, mixmaster Baffled retention tank</td>
</tr>
<tr>
<td>Flomatic Valves</td>
<td>Nick Farran</td>
<td>Check valves, Foot valves, Control Valves</td>
</tr>
<tr>
<td>Franklin Electric</td>
<td>Jim Sacriponte</td>
<td>Check valves, Foot valves, Control Valves</td>
</tr>
<tr>
<td>Franklin Electric</td>
<td>Jim Hartman</td>
<td>Submersible &amp; Centrifugal Pump Motors, Drives &amp; Controls, Solar Pumping Systems</td>
</tr>
<tr>
<td>GEFCO, Inc</td>
<td></td>
<td>Well Supplies</td>
</tr>
<tr>
<td>Geoprobe</td>
<td>Victor Rotonda</td>
<td>Geoprobe Systems</td>
</tr>
<tr>
<td>Goulds Water Technology</td>
<td>Joe Daley</td>
<td>Submersible Motors &amp; Controllers, Submersible &amp; Centrifugal Pumps, VFD Controllers</td>
</tr>
<tr>
<td>Grundfos Pumps, Inc.</td>
<td>Dick Hatten</td>
<td>SQ/SQE, 4”-10” Submersibles, CUE-Variable Frequency Drives</td>
</tr>
<tr>
<td>Martin Products Inc.</td>
<td>Glenn Martin</td>
<td>Monitoring well manholes, steel vaults, locking well plugs</td>
</tr>
<tr>
<td>Mid-Atlantic Sales, Inc.</td>
<td>Herb Hughes</td>
<td>Amtrol, Inc, Charter Plastics, Merrill Manufacturing</td>
</tr>
<tr>
<td>Morris Industries</td>
<td>George Berry</td>
<td>Well Supplies</td>
</tr>
<tr>
<td>NH Yates &amp; Co, Inc.</td>
<td>Mark Fadoul</td>
<td>Cash Acme (Sharkbite), Red-White Valve Corp., Canature/NOVO, Barnes Pumps</td>
</tr>
<tr>
<td>NUMA</td>
<td>Ted Foust</td>
<td>Down the hole hammers, Drill bits, Super Jaws Overburden systems</td>
</tr>
<tr>
<td>Preferred Pumps</td>
<td>Charley Conyers</td>
<td>Well Supplies</td>
</tr>
<tr>
<td>Probe Support Services, Inc.</td>
<td></td>
<td>Geoprobe leasing &amp; training</td>
</tr>
<tr>
<td>Sonic SampDrill</td>
<td>Jay Boland</td>
<td>Drilling Equipment</td>
</tr>
<tr>
<td>US Exploration Equipment Co</td>
<td>Bill Knorr</td>
<td>Solid Stem Augers, Hollow Stem Augers, Boart Longyear Coring Equipment</td>
</tr>
<tr>
<td>WellTech Products, Inc.</td>
<td>Kris Bickford</td>
<td>Well Protection Products: Boart Longyear Rods, Casing, Shoes &amp; Bits; Aardvark Inflatable Packers</td>
</tr>
<tr>
<td>Yorgey Supply, NJ</td>
<td>George Stryker</td>
<td>Well Supplies</td>
</tr>
</tbody>
</table>