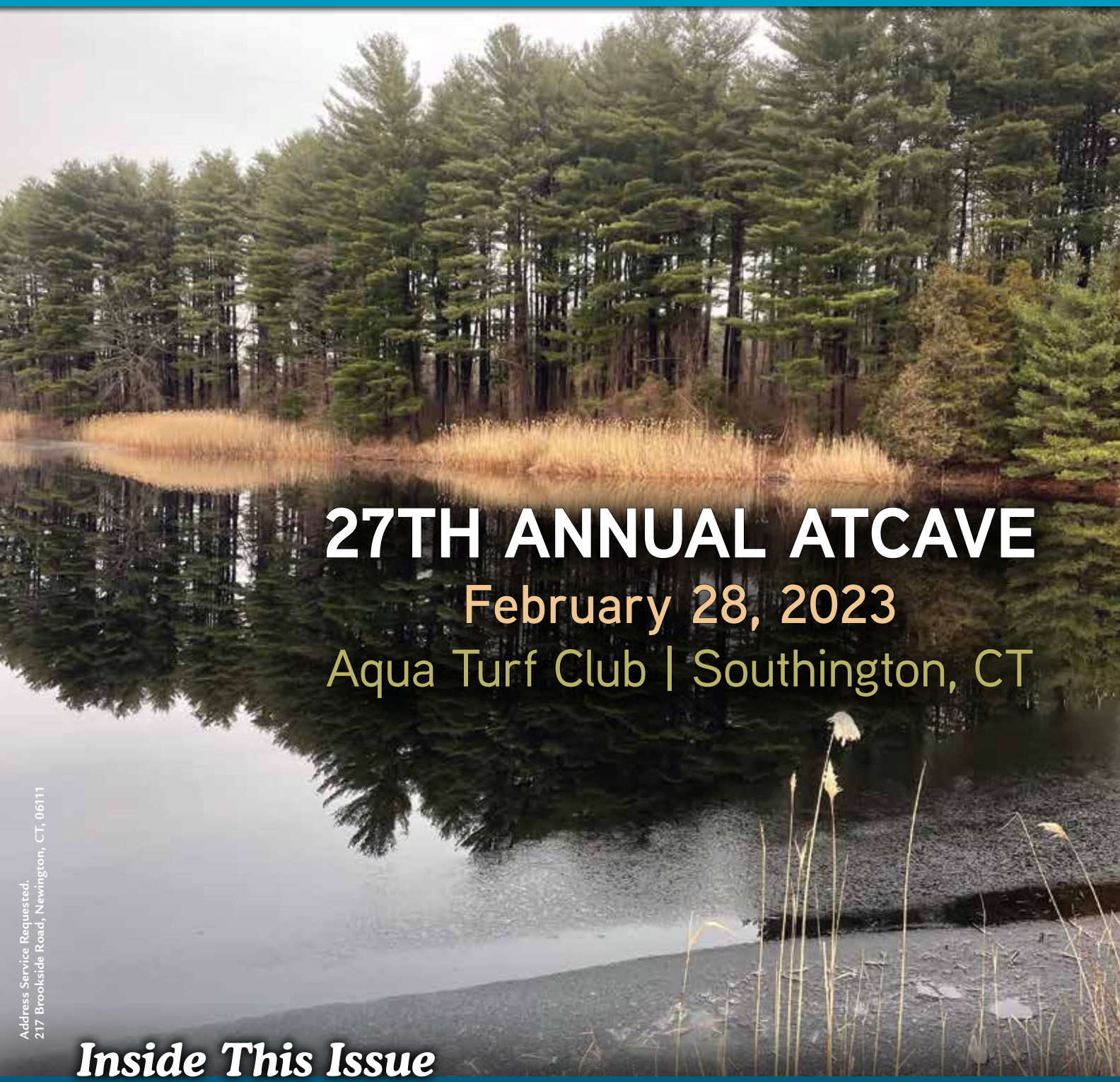
InFlow-Line

The Magazine of the CT Section American Water Works and the Connecticut Water Works Associations Winter 2022-23



27TH ANNUAL ATCAVE

February 28, 2023

Aqua Turf Club | Southington, CT

Address Service Requested.
217 Brookside Road, Newington, CT, 06111

Inside This Issue

CT Interagency PFAS Task Force Reconvened | Driving Supplier Diversity

Navigating Today's Water Systems

HARPER HAINES FLUID CONTROL

203-693-3740



QUALITY | DEPENDABILITY | SERVICE

Our expertise is based on analysis tailored to each water and wastewater system application and backed by decades of experience.

PRE-ENGINEERED SYSTEMS
HARPER HAINES CUSTOM SYSTEMS

High Quality Pre-Engineered Pumping, Water Treatment, Transient Control and Vacuum Priming Systems Provide Customized "Built-In" Dependability, Cost Control And Extraordinary Performance.

VALVE EXPERTS
HARPER HAINES WATERWORKS

We Provide Premium Water And Wastewater Valves. Our Unique Partnerships With Leading Valve Manufacturers Allows Us To Connect Our Customers To World Class Technology.

CLA-VAL SPECIALIST
HARPER HAINES VALVE SERVICE

We Maintain A Fleet Of Fully Equipped Service Vans To Provide Superior Technical Expertise On-Site. Cla-Val Field Service Specialists Throughout CT, RI, New England, NY and NJ. We Service All Manufacturer's Valves.

125 Old Gate Lane, Milford, CT 06460-3611 - www.harper-haines.com - info@harper-haines.com



It's ELEMENTARY

High Density Polyethylene (HDPE) manhole grade rings have been proven to withstand the harsh roadway and significantly out-perform antiquated construction materials and techniques.

Grade rings are one of the main components of manhole chimney sections. For years, concrete grade rings were the only source available for leveling and raising manholes. Many grade rings are built with a piece meal approach to material acquisition and no process or standard exists to guarantee a consistent quality product. Unfortunately, this also increases I & I issues and rehabilitation for the future.

Microbial Induced Corrosion (MIC) has been increasingly evident in concrete manholes and related sanitary sewer structures from the start. It is important to keep sewage from contaminating clean water sources.

MIC occurs when sulfuric acid, generated from raw sewage, reacts with the properties of cement to diminish the integrity on concrete manhole bases and related structures. Hydrogen sulfide (H2S) has the capacity to severely damage concrete manhole structures. As a common occurrence, utility operators, civil engineers, and the precast concrete industry have accepted this as fact and expect failure over time.

These conditions require revised designs for many components in the sewage transmission systems, including manholes. Ladtech, Inc. has designed the highest quality manhole chimney system that will eliminate the damage from sulfuric acid and the continuous destructive attack on the manhole chimney by capitalizing on the inherent strength, durability, and corrosive resistance nature of HDPE.



It takes a crew and heavy equipment to lift and install concrete rings. HDPE rings are light and easy to maneuver, virtually eliminating injury and reducing compensation claims.

The bottom line is, the decision to switch is elementary! Concrete fails under the stress and acid related degradation. Ladtech's durable and guaranteed recycled HDPE manhole adjustment rings will give you the greatest I & I barrier. With 5,000,000 rings in service over the last 24 years, and a life expectancy up to 100 years, they have already stood the test of time.

LADTECH System
HDPE Manhole Adjusting Rings

www.ladtech.com

RADAR
IS THE BETTER ULTRASONIC



$1,219
VEGAPULS 31

NSF
Certified to
NSF/ANSI/CAN 61-G

Compact 80 GHz level sensor with in-head display

- Accurate and reliable
- Signal beam travels through polyethylene and fiberglass tank tops
- Easy Bluetooth setup via the VEGA Tools app for smart devices

All advantages of the radar technology:
www.vega.com/vegapuls

InFlow-Line

Volume 17 – Number 4

Published four times a year by The Connecticut Section American Water Works (CTAWWA) and the Connecticut Water Works Associations (CWWA).

© 2023 CTAWWA and CWWA. All rights reserved.

InFlow-Line is published on behalf of CTAWWA and CWWA by:

Craig Kelman Associates

Tel: 866-985-9780
Fax: 866-985-9799
www.kelmanonline.com

Managing Editor: Katie Woychyshyn
Marketing Manager: Dave Gill
Design/Layout: Tracy Toutant
Advertising Coordinator: Stefanie Hagidiakow

All rights reserved 2023. The contents of this publication may not be reproduced in whole or in part without the express consent of the publisher.

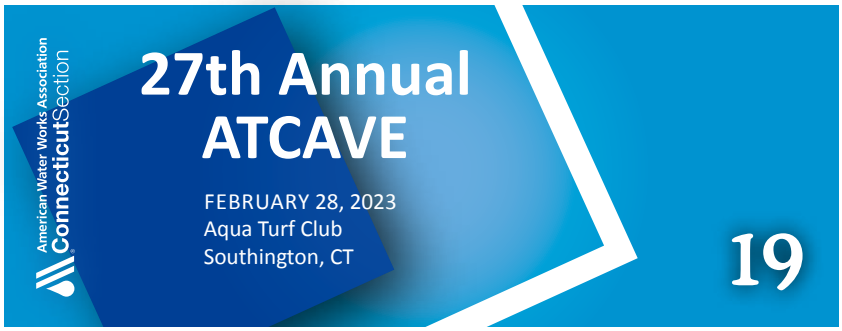
There is no direct or implied endorsement by the Associations, the members or the *InFlow-Line* editorial board for products or services described in articles in this publication.

The Associations reserve the right to edit any articles or to reject any submittals based on content or length consistent with the Boards' practices.

Cover:
South Norwalk Electric & Water's City Lake Reservoir in Wilton, CT.
Photo by Kathy Fortin.

FSC® MIX Paper from responsible sources FSC® www.fsc.org FPO

THINK GREEN
This document is printed on paper certified to the standards of the Forest Stewardship Council® (FSC®).





Features

16 Proposed Slate of Officers 2023-2024

19 ATCAVE 2023

23 A Successful CWWA/CTAWWA Fall Conference

24 CTAWWA's 2022 Holiday Lunch Photo Recap

27 CT Interagency PFAS Task Force Reconvened

29 Driving Supplier Diversity

30 Federally Funded or Assisted Utility Projects and Its Impact on Supplier Diversity Programming

33 Are You Adequately Protecting Your Facilities from Liquid Aluminum Sulfate Contamination?

InFlow-Line

Volume 17 – Number 4

CWWA
Betsy Gara, Executive Director
1245 Farmington Avenue
West Hartford, CT 06107
860-841-7350
gara@gmlobbying.com
www.cwwa.org

CTAWWA
Romana Longo,
Executive Director
PO Box 330472
West Hartford, CT 06133
Cell: 860-604-8996
Fax: 860-953-3051
adminmanager@ctawwa.org
www.ctawwa.org

Departments

8 Message from the CWWA President

11 Message from the CTAWWA Chair

13 Message from the AWWA National Director

15 Member Spotlight: Edward Gierla

39 Legislative Update

41 News and Notes

45 Advertiser Product & Service Center



Return to Table of Contents

We've made your Water our Business



We know water, and we know the water business

- Let Aquastore be the only tank you'll ever need
- Decades of experience
- Over 1200 tanks

Statewide Aquastore, Inc.
6010 Drott Drive
East Syracuse, NY 13057
Phone: 315.433.2782
Fax: 315.433.5083
www.besttank.com

STATEWIDE AQUASTORE, Inc.

Premium Water and Wastewater Storage Tanks

Ray Baral



Time **Flies**

I blinked and 2022 was over.

I remember as a child, hearing my elders repeat phrases like "where does the time go?" and "time doesn't wait for anyone," which echoed on every birthday and New Year's Eve. In my world, during those younger years, days lasted forever. Maybe it's the fact that I'm getting older or maybe it's the mere fact that we're living in an increasingly fast-paced world. No matter the reason, we – as water professionals – face no shortage of challenges today, with not enough minutes or hours in the day to overcome them fast enough.

In 2022, the Connecticut Water Works Association (CWWA) advocated on behalf of its members with legislators and regulators at both the state and federal levels. Matters pertaining to Legionella, PFAS, LCRR, water infrastructure funding, chemical supply chain disruptions, fire service charges, low-income housing assistance, and EPA's proposed rule designating perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic (PFOS) as hazardous substances under the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA) is where we concentrated most of our efforts throughout the year.

"I'm extremely proud to be associated with my brother and sister water professionals who dedicate their services in this noble industry."

With the long legislative session upon us, we can expect the carryover of some of the same concerns from 2022 into 2023, along with many others to surface from our committees. The Board members of CWWA, our Executive Director Betsy Gara, and our Utility and Legislative Committee members stand poised to collectively work together with our legislators and regulators on any emerging interests pertaining to safe high-quality drinking water,



GESICK & ASSOCIATES, P.C.

SURVEYORS • MAPPERS • PLANNERS

Gesick & Associates, P.C. is a progressive and future focused professional surveying company.

Established in 1994, Gesick & Associates, P.C.'s commitment to excellence, professionalism and client satisfaction has only become more determined. Our role is to provide clients with a foundation of knowledge and professional services critical to the success of any project. Flexibility is the key. Gesick & Associates, P.C. guides clients through a successful and profitable project by deploying the latest technology, ensuring quality management. As a forward-thinking company, Gesick & Associates P.C. constantly strives to meet our clients' current and anticipated needs: "Projects completed on time and on budget."

Please contact us for a personal, private, and professional response from a Connecticut Licensed Land Surveyor.

Our Mission Statement:
"Committed to excellence, providing professional services to meet our clients' needs."

We are certified by the State of Connecticut as a Veteran Owned Small Business Enterprise (SBE)

860-669-7799 • 860-739-0090 • www.gesicksurveyors.com

infrastructure investment, and in the overall protection of the public's health from source to tap.

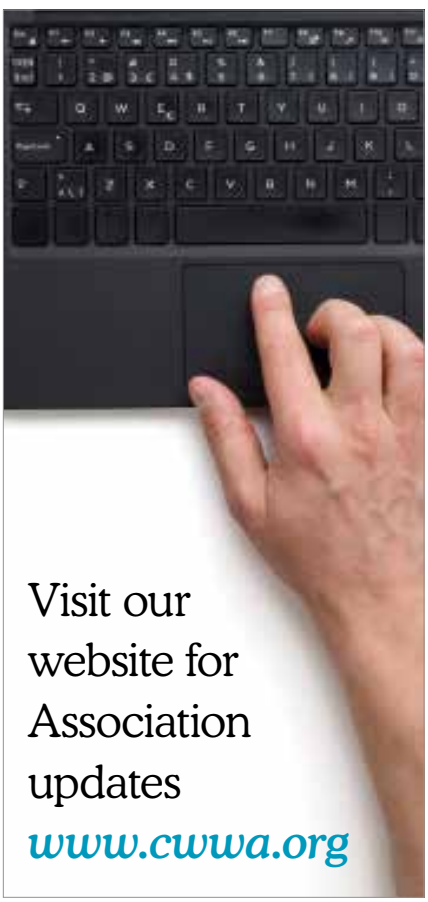
Author and business strategist Jim Rohn once said, "Each of us needs all of us and all of us needs each of us," which fittingly describes the value each and every one of you bring to the CWWA and to your own organization. Millions of people open their taps each day and don't give a thought to the efforts it took to treat and reliably deliver the life sustaining product we call water. Making this happen may look simple in the eyes of the consumer, but we as water professionals know that providing clean, pathogen- and contaminate-free water fit for consumption takes all of us.

As privileged as I am to be representing the CWWA as President, I'm extremely proud to be associated with my brother and sister water professionals who dedicate their services in this noble industry. The work you do today, whether on the job or off the clock as volunteers in organizations such as CWWA or the Connecticut Section of the American Water Works Association (CTAWWA), contribute to the successes and breakthroughs of tomorrow.

I wish you all the very best in the New Year! P.S. Try not to blink!

Ray Baral
President, CWWA







YOU MANAGE YOUR BUSINESS.
WE'LL MANAGE YOUR WATER.

Culligan of New England®
1-800-221-5522
www.culligannewengland.com

Corrosion Control, Sequestering, Scale Control



APPLICATIONS

Lead / Copper Inhibition
Fe / Mn Sequestering
Corrosion Control - All Types
Asbestos Fixation
Scale / Tuberculation Reduction

SERVICES PROVIDED

Water Analysis
Corrosion Coupon Studies
WATSIM Computerized System Analysis
Chemical Feed System Analysis

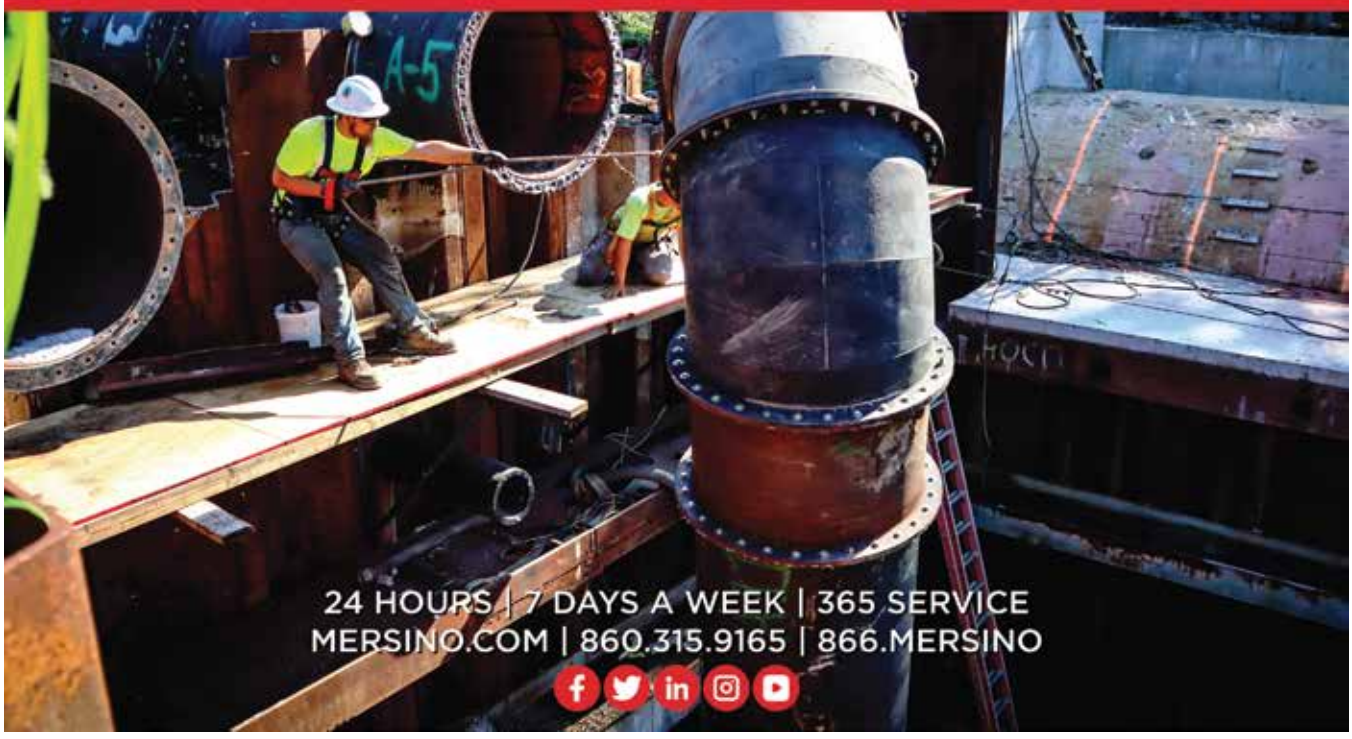
CHEMISTRIES AVAILABLE

Polyphosphates (Metaphosphates)
Orthophosphates
Orthopolyphosphates
Zinc Orthophosphates
Zinc Polyphosphates
Silicates
Silicate / Phosphate Blends

More Products...
More Solutions...
That's Coyne!

COYNE ENVIRONMENTAL
Coyne Chemical Environmental Services
Main: 215-785-3000
www.coyneenvironmental.com

MERSINO | GLOBAL PUMP
A MERSINO COMPANY
DEWATERING | BYPASS PUMPING | ONE-PASS TRENCHING | POWER GENERATION



24 HOURS | 7 DAYS A WEEK | 365 SERVICE
MERSINO.COM | 860.315.9165 | 866.MERSINO

Ingrid Jacobs



Take a Moment

I hope everyone had a wonderful holiday season and happy New Year! I can't believe we've started another January. It seems as if time is moving faster and faster each year. I hope during the holiday you had an opportunity to spend some time with families and friends and reflecting on the past year and celebrate traditions, both new and old. With the New Year we often-times look toward the future, making resolutions, setting intentions, and building new systems for success.

Since the year will go by so fast, I wanted to remind us all to take time to honor those that work tirelessly for our industry and for our communities. Take a moment to thank an operator, a water quality staff member, and all the folks behind the scenes. It takes a tremendous amount of hard work and dedication to continue providing high quality sustainable water to our communities. Please also take time to participate in a committee, to attend events, and to take on leadership roles. Your participation is more important than ever to not only ensure we meet current needs of our communities, but to ensure we continue to meet these requirements in the future.

One of our current initiatives is updating our strategic plan, which includes succession planning. We need folks to participate and take on leadership roles to ensure the future of the section, our industry, and our communities. I hope your goals, intentions, systems for 2023, whatever philosophy you find helpful, includes taking advantage of the many opportunities to learn more about the industry and to take advantage of opportunities to lead, to grow, and to connect.

Upcoming opportunities to join the wonderful folks in our section include free RCAP training for small systems on Source Water on February 9 and 16, and our always exceptional Annual Technical Conference and Vendor Expo (ATCAVE) on February 28 at the Aqua Turf. Coming in March we'll also have Hydrant Hysteria, which was a great success in 2022 and we look forward to sending another team to ACE in June.

For the events above and many more opportunities to learn, grow, and stay connected, please visit the Section's website at (*www.ctawwa.org*). Stay safe, be kind, stay connected with each other and I'm looking forward to a wonderful and very successful 2023.



Inside Drops for Manholes

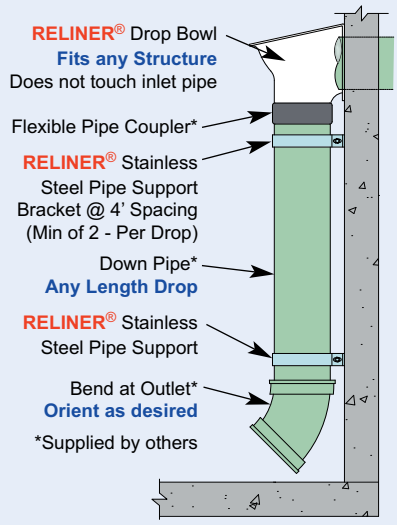
Stop wasting resources on outside drops**!**

Find out why sewer districts throughout the USA are specifying RELINER® products



Manhole Inside Drop

Eliminate outside drops
Reduce maintenance
Simplify cleaning
Stop Corrosion
Install Quickly



Outlet sizes to service
4" lateral drops through
24" wet well drops



Stainless Pipe Supports

Adjustable, non-corrosive
11 gauge 304 or 316 SS
Supports the pipe fully
1.5"-30" dia. in stock
Easy to install

RELINER®/Duran Inc.

www.reliner.com 1-800-508-6001

Chlorine Dioxide

Alternative Disinfection/Oxidation

APPLICATIONS

THM/HAA Control
Fe/Mn Oxidation
Nitrification Control
Taste and Odor Control
Color and Algae Control
CT Disinfection Credits

ADVANTAGES

Does Not Form DBP's
Instantaneous Reaction Rates
Bacteria/Virus/Cyst Inactivation
Not pH/Temperature Dependent
Higher Oxidation Potential than KMnO4 or Cl2

SERVICES PROVIDED

On Site Trial Capabilities
System Design/Installation/Maintenance
Reliable Supply and Logistics
Over 1000 Systems Installed by our Producer

More Products...
More Solutions...
That's Coyne!

COYNE ENVIRONMENTAL
Coyne Chemical Environmental Services
Main: 215-785-3000
www.coyneenvironmental.com



What a **Year**

I want to thank everyone for their efforts in addressing the seemingly never-ending to-do list, advisories, and challenges we faced during 2022. At times I can't help but think that these varied efforts were just the beginning of what is yet to come, however, while there seems to be no end to this list of priorities, we all know we are part of an industry that requires constant vigilance.

In 2023 we can optimistically look forward to clarification of LCRR details (but will this occur before or after potential further revision under the LCRI?), long-awaited direction on PFAS, further work on the important topic of Legionella and maybe even some information on the possible revisions to the M/DBP Rule. Keep your eyes open for further information and guidance on these subjects and others from AWWA (American Water Works Association).

I will again take the opportunity afforded me via this article space to encourage all involved in this industry to consider participation in the many facets of AWWA. The Connecticut Section has many active committees that are contributing to shaping the landscape in many areas and it is imperative that members continue to support these efforts through participation. From Source Protection, to Treatment, to Cross Connections, to the newly formed Emergency Preparedness and Security Committee, and many others covering a wide variety of topics, there are many opportunities to become involved and help to collectively define our common path(s) forward. Participation will allow you to further develop networks, learn from others experiencing common challenges and grow as a professional and I would suggest that all, especially emerging professionals, become actively involved.

Finally, I'd like to provide an update on AWWA's initiative, Water 2050. On December 1, 2022, AWWA released the first of five 'think tank' reports, each focusing on areas identified by AWWA as important in shaping our industry into the future. You may recall from an earlier article that the composition of these think tanks include not only drinking water professionals, but also those with dependencies and relationships with drinking water. This first Report is focused on Sustainability and includes 10 broad recommended actions which will serve as a starting point for further action and research. Please look at this Report at *www.awwa.org/resources-tools/water-2050/water-2050-report.*

Happy 2023 to everyone.

"I will again take the opportunity afforded me via this article space to encourage all involved in this industry to consider participation in the many facets of AWWA."






ENVIRONMENTAL
PARTNERS
— An Apex Company —
COLLABORATIVE SOLUTIONS. DRAMATIC RESULTS.
envpartners.com

Edward Gierla



Day Job:
Chief Plant Operator, South Central Regional Water Authority

Certifications:
- Class 4 Connecticut Water Treatment License
- 24-hour OSHA HazWOPER-trained
- 10 OSHA General Industry-trained

Career Accomplishments:
After graduating college in 2001, I began my career at the Regional Water Authority as a Water Treatment Operator Helper. Over the last 21 years I've held multiple positions within the treatment department as a Supervisor, Senior Supervisor, Team Lead, Assistant Chief Plant Operator, and currently, Chief Plant Operator. The RWA has four surface water treatment plants consisting of an 80 MGD direct filtration plant, a conventional treatment plant, a direct filtration DAF plant with ozone and another direct filtration plant, which is currently being redeveloped to include DAF, along with seven individual wellfields. Entering the water treatment department at the entry level position and working at every level within the department has provided me with a good understanding of how our multiple treatment plants and wellfields operate, as well as the continuous maintenance and improvements that are needed to ensure all of our locations perform properly. Over the past 21 years it has been exciting to see how technology has transformed the way we operate and monitor the multiple water treatment systems we have.

Personal Stats:
I enjoy fishing in largemouth and smallmouth bass tournaments where I'm a member of the Housatonic Valley Bass Masters. I've also played in a weekly golf league for over 10 years. If I'm not on the water or a golf course, you can find me and my wife shuttling our two sons around New England for their ice hockey games.

What is the most interesting experience you have had in your water career?
In 2018, the only raw water transmission line to our 80 MGD Lake Gaillard Water Treatment Plant needed to be drained and repaired. This necessitated the construction of a temporary 9,000 foot bypass transmission line with nine individual pumps and generators from the Lake Gaillard reservoir to the treatment plant. It was a privilege to work with our internal staff, engineers, and external contractors to make this major project a success without any disruptions to water quality or service. I've also had the ability to be a part of the redevelopment of most of the chemical feed systems for our water treatment plants, including the implementation of associated temporary chemical feed systems to maintain plant operations during these projects. It has been a pleasure working with so many skilled professionals and mentors on the various projects I've been involved in. Thank you all for your help, advice and friendship.

What else would you like to share?
The water treatment industry has provided me with many opportunities in my career and has exposed me to an industry that is dedicated to provide customers with high-quality water and services while also protecting our natural resources for future generations. In the water treatment sector, you can be exposed to treatment plant operation/maintenance, laboratory testing, sampling, troubleshooting and many more skills to develop your career. Remember, you can start at the entry level position and work your way up as far as you want to go. If you know anyone who is looking for a diverse career with opportunities for growth, please tell them look at a career in the water industry!





Proposed Slate of Officers 2023-2024

Listed below is the proposed Slate of Officers for term 2023-2024 for the Connecticut Section AWWA:

Chair	One Year Term	Alex Cosentino
Vice Chair	One Year Term	Nick Rossi
Past Chair [(a)]	One Year Term	Ingrid Jacobs
Secretary	One Year Term	Judy Soda
Treasurer	One Year Term	Rochelle Kowalski
2nd Year Trustee	2nd of a Two-Year Term	Hetal Shah
1st Year Trustee	1st of a Two-Year Term	Peter Grabowski
National Director	Three Year Term	Tom Barger

Article VII of the Section's Bylaws govern the election and nominations process and may be viewed at our website, *www.ctawwa.org* (select "About Us" and "Bylaws"). Any questions may be directed to Judy Soda at *jesoda38@gmail.com*.

If no further nominations are received by April 20, 2023, Judy Soda, as Secretary, will cast a ballot for the above slate and issue a notice to the membership via the next available issue of the Section magazine.

Other Board Positions for 2023-2024:

Trustee at Large 2nd	Carolyn Giampe
Trustee at Large 1st	David Banker
Administrative & Policy Council Chair	Shannon Miles
Associates Council Chair	Kris Bates
Education & Public Affairs Council Chair	Peter Galant
Technical & Standards Council Chair	Steve Vitko
Water Utility Council Chair	Tom Barger

Officers of the Board voted at their January board meeting to approve the Other Board Positions whose terms shall begin at the annual meeting in May.

Per the CTAWWA Bylaws, this announcement is notifying membership of the election of the Other Board Positions and Proposed Slate of Officers for the 2023-2024 term.

BUILD A BETTER SOLUTION:
Engineering Solution for a Successful Manhole Chimney Section

By Lana Wiedrich, President of LadTech, Inc.

Manholes are the most visible point in identifying the condition of our underground infrastructure, and with the advent of effective pipe repair technology, manholes are receiving increased attention from municipalities. A manhole chimney serves a crucial function: It makes sure manhole covers are flush with the street. The chimney is a connecting link, usually about a foot high, between the massive concrete or brick cylinder at the bottom and the cast-iron frame and cover at the top of a manhole. Leaks that are sealed out when pipes are lined are likely to travel to the next weakest part of the system – the manholes. When one part fails the whole system fails. For decades, workers have built chimneys the same way – by stacking up however many thin concrete rings were needed to bring the manhole up to the level of the pavement. Thankfully, manholes are the easiest segment to investigate and repair.

The "LADTECH System™" is the only manhole grade adjustment system made in the U.S. from 100% Recycled Plastic Polyethylene that is also acquired in the U.S. Ladtech's HDPE manhole adjustment rings provide a proven alternative to concrete grade or adjustment rings and is the most advanced alternative manhole grade adjustment system available anywhere. The material is renowned for its ability to stand up to the harshest of conditions without damage or deformity for generations.

EFFICIENT: One man can easily install the LADTECH SYSTEM™ in minutes. The rings nest together including a niche spacer ring and a 2% slope adjustment ring for a precision fit.

SAFE: It usually takes four men to lift and place a breakable concrete grade ring, which can cause back and bodily injury. The LADTECH SYSTEM™ eliminates that hazard, helping reduce compensation claims. One 4" HDPE Ladtech Ring only weighs nine pounds.

COST EFFECTIVE: LADTECH™ products speed manhole installation and repair efficiently, allowing the site to be closed in one day and reducing overall cost from 20% to 30% or more, based on conditions. No water, mortar, or bricks are needed, just a few simple tools.





Follow Ladtech, Inc. on Social Media.
Learn more at *www.ladtech.com* or by calling 877-235-7464.

WWW.LADTECH.COM

AQUARION
Water Company

Stewards of the Environment™

Aquarion Water Company proudly supports the Connecticut Section – AWWA and ATCAVE 2023.



American Water Works Association Connecticut Section

27th Annual ATCAVE

FEBRUARY 28, 2023
Aqua Turf Club
Southington, CT

View the full program at:
https://bit.ly/3wzLfJO

ctawwa.org

Get the most of ATCAVE 2023 by earning Training Contact Hours (TCH) toward your Connecticut Treatment and Distribution System Operator Certification. Select from tracks in Water Quality and Treatment, Distribution and Storage, or Management.

SESSION A-1: WATER QUALITY AND TREATMENT

2.0 TCH*
9:00 am to 11:00 am

Fast Track Design of PFAS Treatment at a Surface Water Plan
Mariusz Jedrychowski, PE, Wright Pierce
Amy Coppers-Costantino, PE, Wright Pierce

Small-Scale GAC Treatment for PFAS Removal from Groundwater
Matthew Hross, PE, Hazen and Sawyer

Hydrogen Peroxide Pre-Oxidation, a Full-Scale Demonstration Test
Ryan Fleming, PE, Weston & Sampson
Jim Hill, Regional Water Authority

Expediting PFAS Treatment Using Design Build Delivery
Kurt Van Heiningen, PE, CDM Smith
Jonathan Tardiff, P.E, Veolia
Kyle Kennedy, CDM Smith

SECTION B-1: DISTRIBUTION AND STORAGE

2.0 TCH*
9:00 am to 11:00 am

Galvanic Corrosion Exposure: Steel Water Tanks and Stainless-Steel Appurtenances
Scott Paul, PE, CorrTech Inc.
William Birkbeck, CorrTech Inc.

DPH's Environmental Health and Drinking Water Branch Initiatives
Lori Mathieu, CT DPH

Modeling a New Computational Method Approach Solution for Chlorine Residual Decay
Jeffery Ling, Kleinfelder

Proactive Water Storage Tank Maintenance and Inspections
Arthur Eschete, Jr., H2M architects + engineers

SESSION C-1: MANAGEMENT

2.0 TCH*
9:00 am to 11:00 am

DPH Update: Lead and Copper/ Bipartisan Infrastructure Law
Cindy Sek, CT DPH, Drinking Water Section
Cam Walden, CT DPH, Drinking Water Section

Utilizing and EPA LPIPE Lead Service Line Replacement Program in New London, CT
Jennifer Lachmayr, PE, ARCADIS
Joseph Lanzafame, PE, City of New London

Tackling LCRR Unknowns with Collaborative Intelligence
Katie Deheer, Trinnex
Mark Zito, Trinnex

Don't Be Fooled by LCR Compliance: A Village's Journey into the Discovery of a Lead Service Line Dilemma
Joseph Todaro, PE, H2M architects + engineers

ATCAVE LUNCHEON 11:15 am to 1:15 pm

Between the morning and afternoon technical sessions, tour the Vendor Expo, participate in the Vendor Booth Raffles and enjoy the ATCAVE Luncheon Buffet.

SESSION A-2: WATER QUALITY AND TREATMENT

2.5 TCH*
1:00 pm to 3:30 pm

PFAS: The Intersection of CT's PFAS Action Plan initiatives and EPA's Recent Actions
Pat Bisacky, CT DPH, Drinking Water Section

UCMR5: What to Expect and the Impacts
Ron Milke, Eurofins

Rapid Small-Scale Column Testing for PFAS Reduction
Bryan Sadowski, PE, AECOM

Research on Pipe Rig Studies for Corrosion Control Treatment
Adrienne Conigliaro, ARCADIS

Evaluation and Implementation of Fluoro-Sorb
Scott Grieco,PhD, PE, Jacobs
Anna Willet, PE, CETCO

SECTION B-2: DISTRIBUTION AND STORAGE

2.5 TCH*
1:00 pm to 3:30 pm

Saving Time, Water and Money Utilizing Hydraulic Modeling for Unidirectional Flushing
Benjamin Powers, Kleinfelder
Amanda Craver, Kleinfelder

GPS Data Collection, GIS Integration and Record Drawing Creation
Ryan Smith, PE, Snyder Civil Engineering, LLC
Joshua MacCulloch, PE,
The Metropolitan District

Update on DPH Operator Certification
Bill Sullivan, CT DPH, Drinking Water Section

Using Water Quality Models to Address Low Chlorine Residual n Distribution Systems
Heather Doolittle, PE, Tighe & Bond
Lesley J. Milligan, PE, Tighe & Bond

Financial Impacts of a Utility's Forgotten City
Roy Mundy, PE, McWane Ductile

SNYDER CIVIL Engineering, LLC

Professional Licenses:
CT • RI • MA • FL • NY
CT Certified SBE

Professional Engineering Services

Engineering Projects On Schedule and Within Budget While Maintaining a Strong Customer Focus and Furnishing High Quality Services

Seeking to Expand Our
Motivated Professional Staff

Give us a call today **860.342.1370**

Assisting Large Firms in Meeting Small Business Set Aside Contracting Requirements

860.342.1370 • www.SnyderCivil.com • 150 Marlborough Street - Portland, CT 06480
1960 Silas Deane Highway (Unit 204) - Rocky Hill, CT 06067



TEAM EJP
WATER • WASTEWATER • STORMWATER
SOLUTIONS



Quality products, services, and solutions for your waterworks needs!

Bristol 860-516-7200
Vernon 860-875-7116

1-800-EJP-24HR
WWW.EJPRESCOTT.COM

SECTION C-2: MANAGEMENT

2.5 TCH*
1:00 pm to 3:30 pm

Defining Sustainability – Intentional Planning for Energy, Carbon, and Waste Elements of Water Infrastructure Projects
Chelsea Conlon, JK Muir
Megan Coleman, JK Muir

A (Micro)Plastic Surgery for Your Communications Strategy
Alma Beciragic, PhD, ARCADIS

Lead and Copper Rule Improvements: The Known Unknowns and How Utilities Can Prepare
Jing (Jessica) Ping, PE, ARCADIS
Susan Brownstein, PE, ARCADIS

Management of New England Drinking Water Reservoirs in a Changing Climate
Benjamin Burpee, PhD,
GZA GeoEnvironmental, Inc.
Robert Kortmann, PhD,
Ecosystem Consulting Service

Should We Allow Trails on our Water Company Land?
Scott Bighinatti, Weston & Sampson
Kate Blacker, Groton Utilities

ATCAVE THROUGHOUT THE DAY

VENDOR EXPO
8:00 am to 3:00 pm Kay Pier North
Join us for coffee/pastries and visit the vendor expo before the morning technical sessions begin. The 2023 Vendor Expo is your chance to see the latest in water supply related technologies and equipment from 70 vendors and specialists in the water supply industry. For many attendees, the knowledge gained, and the contacts made at the Vendor Expo add significant value to their attendance at ATCAVE.

THANK YOU TO OUR SPONSORS:

Environmental Partners — An Apex Company
Harper Haines Fluid Control
Snyder Civil
Tighe&Bond Engineers | Environmental Specialists
Carlsen Systems Water Wastewater
Wright-Pierce Engineering a Better Environment
Kleinfelder

Return to Table of Contents

ATCAVE TECHNICAL TRAINING REGISTRATION FORM

Name:		Phone:
Street Address:		
City:	State	Zip Code
Company/Organization:		
Email address:		
CTAWWA Member #:		

PLEASE CONSIDER REGISTERING AND PAYING ONLINE AT WWW.CTAWWA.ORG

SESSION	TOPICS	CEU	TIME	TYPE	SINGLE	SELECT
WATER QUALITY AND TREATMENT						
A-1	· Fast Track Design of PFAS Treatment at a Surface Water Plant · Small-Scale GAC Treatment for PFAS Removal from Groundwater · Hydrogen Peroxide Pre-Oxidation, a Full-Scale Demonstration Test · Expediting PFAS Treatment Using Design Build Delivery	2	9:00 am to 11:00 am	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00	☐
A-2	· PFAS: The Intersection of CT's PFAS Action Plan Initiatives and EPA's Recent Auctions · UCMR5: What to Expect & the Impacts · Rapid Small-Scale Column Testing for PFAS Reduction · Research on Pipe Rig Studies for Corrosion Control Treatment · Evaluation & Implementation of Fluoro-Sorb	2.5	1:00 pm to 3:30 pm	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00[3]	☐
DISTRIBUTION AND STORAGE						
B-1	· Galvanic Corrosion Exposure: Steel Water Tanks and Stainless-Steel Appurtenances · DPH's Environmental Health & Drinking Water Branch Initiatives · Modeling a New Computational Method Approach Solutions to Chlorine Residual Decay · Proactive Water Storage Tank Maintenance & Inspection	2	9:00 am to 11:00 am	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00[3]	☐
B-2	· Saving Time, Water & Money Utilizing Hydraulic Modeling for Unidirectional Flushing · GPS Data Collection, GIS Integration & Record Drawing Creation · DPH Operator Certification Updates · Using Water Quality Models to Address Low Chlorine Residuals in Distribution Systems · Financial Impacts of a Utility's Forgotten City	2.5	1:00 pm to 3:30 pm	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00[3]	☐
MANAGEMENT						
C-1	· DPH Update: Lead & Copper/Bipartisan Infrastructure Law · Utilizing an EPA LPIPE Lead Service Line Replacement Program in New London, CT · Tackling LCRR Unknowns with Collaborative Intelligence · Don't Be Fooled by LCR Compliance: A Village's Journey into the Discovery of a Lead Service Line Dilemma	2	9:00 am to 11:00 am	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00[3]	☐
C-2	· Defining Sustainability-Intentional Planning for Energy, Carbon & Waste Elements of water Infrastructure Projects · A (Micro) Plastic Surgery for Your Communications Strategy · Lead & Copper Rule Improvements: The Known Unknowns & How Utilities Can prepare · Management of New England Drinking Water Reservoirs in a Changing Climate · Should We Allow Trails on our Water Company Land?	2.5	1:00 pm to 3:30 pm	Member	$140.00	☐
				Non-Member	$190.00	☐
				Small Systems CTAWWA Member	$0.00[3]	☐
FULL DAY REGISTRATION: REGISTER TO ATTEND A MORNING AND AFTERNOON SESSION: MEMBER FEE $190/NON-MEMBER FEE $240				Subtotal:	$140.00 $240.00	☐

[3]Lunch is not included with the Small System FREE Conference Registration. A Lunch Ticket must be purchased separately.

EXPO ONLY LUNCH TICKET(s)	Lunch in the Kay's Pier (11:00 am to 1:30 pm)	Quantity:_____ at $45.00 each	Total Lunch Ticket Cost:	

Please make checks payable to: CTAWWA and mail along with this form, register online at www.ctawwa.org or email with credit card information to *longoctawwa@gmail.com*

TOTAL FEE ENCLOSED:			
Name on Credit Card:		Billing Phone Number for Credit Card:	
Billing Address for Credit Card:			Zip Code:
Type of Payment: ☐ MasterCard/Visa ☐ AMEX ☐ DISCOVER		Signature:	
Credit Card #	Exp. Date	CCV#	Amount to Charge to Credit Card: $

☐ Check here if you have a disability and require accommodations to fully participate. You will be contacted by CTAWWA.

Mail and email registration deadline is Tuesday, February 21. All registration received after deadline will be a non-member pricing.
All cancellations must be received prior to Feb 24 to be eligible for a refund.

Return to Table of Contents

Tech Sales NE
ENVIRONMENTAL PROCESS TECHNOLOGIES

www.TechSalesNE.com

When performance matters, trust the people you know.
Matt Vareika - MattV@TechSalesNE.com

WEDECO®

AWC WATER SOLUTIONS LTD.

LEOPOLD
a xylem brand

GUARDIAN ENVIRONMENTAL PRODUCTS

Dutchland INCORPORATED
Engineered Concrete Environmental Solutions

Call off the chlorine
Call in the PAA

We're the Peroxyacetic Acid Professionals!



SaniDate® 15.0 is your sustainable alternative to chlorine.

BioSafe Systems
1-888-273-3088 | BioSafeSystems.com







Water Supply Specialists

Find out what we can do for you.

Water Supply Planning • Hydraulic Modeling •
Groundwater Development and Maintenance • Safe Yield Modeling • Dam Engineering •
Water Treatment & Distribution • Asset Management • Water Loss Control

wsp

6 Research Drive, Suite 260 Shelton, CT 06484 +1 203-929-8555 wsp.com

A Successful CWWA/CTAWWA Fall Conference



American Water Works Association ConnecticutSection

CWWA Connecticut Water Works Association Working for Quality Water

Almost 200 water industry professionals attended the 2022 CWWA/CTAWWA Fall Conference at the Aqua Turf in Plantsville, Connecticut on October 18. We also had a record number of sponsors and exhibitors, which helped make the event a huge success.

CWWA's President, **Ray Baral (MDC)**, and CTAWWA's Chair, **Ingrid Jacobs (Aquarion Water Company),** welcomed attendees, both commenting on the challenges the water industry is facing in complying with new state and federal requirements under the Lead and Copper Rule Revisions and in response to PFAS and other emerging contaminants. In addition, water companies are facing ongoing costs associated with replacing and upgrading aging water infrastructure. Both Baral and Jacobs noted that CWWA and CTAWWA, working with AWWA and other associations, are well-positioned to assist members in addressing these challenges.

Lead Service Line Replacement

Courtney Schaumberg (CDM Smith, Inc.) updated attendees on lessons learned from New Jersey's accelerated LCRR compliance deadlines, including public education outreach efforts to ensure that residents understood the importance of replacing lead service lines.

Following Schaumberg's presentation, **Cydney Caterino (Arcadis**) and **Joseph Lanzafame (City of New London**), discussed New London's efforts to develop an equitable and incentivized Lead Service Line Replacement program, including strategies to engage owners and residents, such as open houses/block events, social media posts, door hangers, yard signs, and website posts.

Addressing and Mitigating PFAS

Attorneys **Emilee Mooney Scott** and **Robert Melvin (Robinson and Cole)** updated attendees on legal and regulatory issues regarding PFAS, including EPA's revised health advisory levels, the state Department of Public Health's lowered drinking water action levels, and EPA's proposed rule designating PFOA and PFOS as hazardous substances under the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA).

Richard Desrosiers (GZA GeoEnvironmental), walked attendees through some Connecticut case studies involving projects to mitigate PFAS contamination. In addition, **Raymond Frigon, (Department of Energy & Environmental Protection)**, presented on efforts to implement the Governor's Interagency PFAS Action Plan to mitigate exposure to PFAS, including a take back program for PFAS-containing firefighting foam, and soil sampling at landfills and other areas.

Health Equity

CWWA and CTAWWA were honored to welcome this year's keynote speaker, **Commissioner Manisha Juthani, MC, (Department of Public Health).** Commissioner Juthani unveiled DPH's draft Intended Use Plan, noting how the plan incorporates a Social Vulnerability Index to prioritize funding under the Drinking Water State Revolving Fund to address health equity.

Presentations are available on CWWA's website at *www.cwwa.org.*

A big thanks to our sponsors for supporting this event!

CTAWWA's 2022 Holiday Lunch Photo Recap















Return to Table of Contents













Ti SALES

Take control of your CSO.



Ayyeka's Wavelet remote monitoring solution gives you the tools you need to tackle combined sewer overflow.



CONTACT US TO LEARN MORE

800.225.4616

www.tisales.com/cso

info@tisales.com

TATA & HOWARD

Unsurpassed Solutions in the Water Environment for Over 30 Years

New Source Development

Hydraulic Modeling

Distribution

Treatment

Water Audits

UDF Programs

Mains and Lead Line Replacement

MA | CT | NH | AZ

www.tataandhoward.com



Asset management steel & concrete tanks | treatment plants | pipes | meters

Water quality in distribution systems in-tank water mixers | trihalomethane removal systems disinfectant residual control systems

Smart metering services Advanced Metering Infrastructure (AMI) smart meters | managed services | performance guarantees

Contact your local water system consultant

Robert Rochette | 855-526-4413 | www.veolianorthamerica.com

Resourcing the world

VEOLIA

CT Interagency PFAS Task Force Reconvened

The Connecticut Interagency PFAS Task Force recently reconvened to provide an update on efforts to implement the state's PFAS Action Plan, developed in 2019 to prevent and mitigate exposure to PFAS following the following the accidental release of PFAS-containing aqueous film forming firefighting foam (AFFF) into the Farmington River.

The task force is chaired by the commissioners of the Connecticut Department of Energy and Environmental Protection (DEEP) and the Connecticut Department of Public Health (DPH). It is composed of representatives from nearly 20 state agencies and entities.

The task force was charged with developing an action plan including a comprehensive strategy to 1) Minimize environmental exposure to PFAS for Connecticut residents; 2) Minimize future releases of PFAS to the environment; and 3) Identify, assess and cleanup historic releases of PFAS to the environment.

"In the three years since we brought this group together and finalized our action plan, our state agencies have been hard at work to get a handle on this problem and identify and implement ways of getting PFAS out of our environment," Governor Ned Lamont said.

Task Force Progress includes:

- DPH issued updated drinking water action levels.
- Ongoing work with Public Water Systems to detect PFAS and implement measures to limit exposure.
- DPH established a new Emerging Contaminants Unit to implement PFAS action items.
- Public Act 21-121 requires the five bottled water sources located in Connecticut be tested for emerging contaminants, including PFAS.
- Testing for PFAS in fish.
  - DEEP performing follow-up surface water, sediment, and fish tissue sampling to refine stream reaches of concern and identify sources.
  - DPH issued fish consumption advisories to protect the public.
- DPH requires all new public drinking water sources to test for PFAS.
- DPH recommends all public water systems test for PFAS.
  - 121 public water systems serving 1.7 million people have voluntarily tested their drinking water for PFAS.
  - DPH administering EPA federal loan funds under the Bipartisan Infrastructure Law to assist in addressing PFAS related drinking water contamination.
- Utilized $2 million in state bond funding for AFFF Takeback Program and private well testing; $1.15M in bond funding committed for private well testing annually.
- Public Act 21-191 banned use of AFFF foam; bans PFAS as an additive in food packaging effective January 1, 2024.
- DEEP and DESPP initiated the AFFF Takeback Program (More than 35,300 gallons collected from more than 250 fire departments and safely disposed).
- Completed regional foam trailer cleaning; new trailers in the process of being purchased.
- DEEP created a geographic information system map to prioritize sampling.
- Sampled private wells in Connecticut communities where PFAS has been found in nearby drinking water sources; provided bottled water and treatment systems where PFAS exceeded action levels; contamination source investigation underway in Killingworth.
- Sampled $^1/_3$ of publicly owned treatment works.
- Industrial wastewater discharge permit screening for new permits and renewals.
- DEEP and the Connecticut Department of Agriculture issued guidance on PFAS in biosolids for agricultural producers.

Task Force Next Steps include:

- DPH PFAS testing at public water systems serving disadvantaged communities and vulnerable populations.
- Have EPA draft drinking water rule for PFOA and PFOS.
- Utilize federal funding, including Bipartisan Infrastructure Law funding, to help municipalities and public water systems address PFAS.
- Dispose of AFFF from about 400 fire trucks.
- DEEP focused sampling of private wells in high-risk areas.
- Continued communication, outreach, and education with communities, stakeholders, and the general public.
- Update remediation criteria and establish water quality criteria.
- Expand landfill monitoring.
- Continued surface water and fish tissue sampling.

For more information on the Connecticut Interagency PFAS Task Force, visit *https://bit.ly/3iBIWmh.*



Campbell ULTRAFILTRATION

The future of filtration is here... Campbell Ultrafiltration+

Technology proven in the medical and dental industries is now available to you! MicronGurard™ enhances the ability of the filter to filter, using nanotechnology to remove smaller things from water than any filter alone would be capable of while maintaining a high flow rate.

Whether it's whole house filtration or a sink faucet you need to protect, we have an option to fit your needs.

WHOLE HOUSE SYSTEM

REMOVES

- Bacteria 99.9999999%
- Viruses 99.9999%
- Spores 99.9999%
- Cysts 99.99%
- Forever Chemicals 95%
  PFAS (PFOA and PFOS)
- Heavy Metals 99%

REDUCES

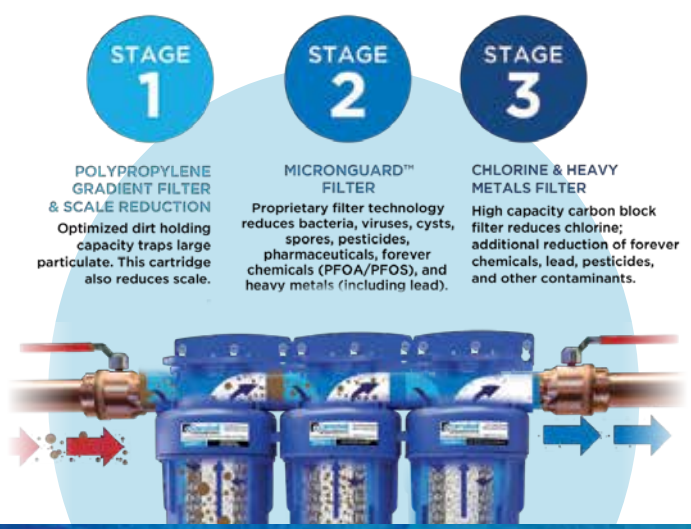
- Pharmaceuticals
- Pesticides
- Microplastics
- Particulates
- Chlorine
- Scale

ALSO

- Components are certified to NSF/ANSI 42

ALL IN ONE





UNDER SINK



REMOVES

- Bacteria 99.99999%
- Viruses 99.9999%
- Spores 99.9999%
- Cysts 99.99%
- Forever Chemicals 95%
  PFAS (PFOA and PFOS)
- Heavy Metals 99%

REDUCES

- Pharmaceuticals
- Pesticides
- Microplastics
- Particulates

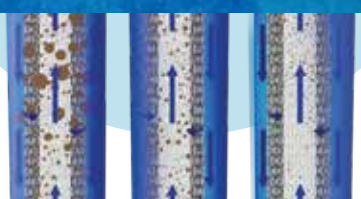
ALSO

- Conforms to NSF/ANSI 42
- Easy to install

INLINE FILTER



No Wastewater • No Salt • Easy to Maintain



BAKER WATER SYSTEMS DIVISION

Campbell Monitor MONOFLEX

800-523-0224
Sales@CampbellMfg.com
BakerWaterSystems.com

DRIVING SUPPLIER DIVERSITY

By Matt Stosse, Director of Procurement, Connecticut Water

It is well-documented that supplier diversity programs help foster inclusion and economic impact to the communities served, as well as provide for better business solutions that positively affect communities and stakeholders. Supplier diversity efforts align with Connecticut Water's broad organizational goals to consider Environmental, Social, and Governance (ESG) factors in our business practices as we strive to 'be a force for good' for the customers and communities we serve.

The benefits of supplier diversity transcend all business sectors, including utilities. At Connecticut Water, it was actively built into procurement processes in 2020. With established annual targets, Connecticut Water strives to increase our impact in the community by using diverse suppliers.

The company recognizes that partnering with diverse suppliers is an important measure of success, which fits squarely within our core values. Our mission can best be accomplished with a diverse supply chain that enables competition and enhances the economic vitality of the communities we serve.

SO, WHAT IS A DIVERSE SUPPLIER?

It is common for successful programs to include "women" and "minority" categories. Other categories included are LGBTQ+, Veteran, and Disabled Veteran.

WHAT QUALIFIES AS A DIVERSE SUPPLIER?

1. A business enterprise that is either:
   - At least 51% owned by the diverse category, or
   - At least 51% of the stock of which is owned by the diverse category if a publicly owned business, and
2. Whose management and daily business operations are controlled by one or more individuals in the category.

HOW DO YOU LOCATE A DIVERSE SUPPLIER?

One place to start is with a Community Based Organization (CBO) which typically employ a certification process for category-specific membership. The following CBOs are national entities, most with Connecticut or Northeast-based chapters. They provide resources and networking events to allow for outreach to a wider supply base. We encourage you to visit their websites to review opportunities available.

CBO ORGANIZATIONS	WEBSITE
National Association of Women in Construction (NAWIC)	*www.nawic.org*
Women's Business Enterprise National Council (WBENC)	*www.wbenc.org*
National LGBT Chamber of Commerce (NGLCC)	*www.nglcc.org*
US Department of Veteran's Affairs Vets First Verification Program	*www.vetbiz.va.gov*
National Minority Supplier Diversity Council (NMSDC)	*www.nmsdc.org*

> Our mission can best be accomplished with a diverse supply chain that enables competition and enhances the economic vitality of the communities we serve."

Connecticut's Department of Administrative Services (DAS) also lists diverse suppliers on their website at *www.portal.ct.gov/das,* where Small and Minority Business Enterprises (SBE/MBE) are certified through the State of CT.

Connecticut Water recognizes certifications from both CBOs and the DAS.

In developing our Supplier Diversity Program, it was necessary to first understand our current supply base. To do so, the DAS Website along with vendor survey results was utilized to identify diverse suppliers and correlate the findings to our existing vendors. Once identified, vendors were categorized in our Enterprise Resource Planning System as a specific diverse category, non-diverse or as un-addressable. This allowed us to measure:

- **Addressable/Non-Addressable Spend:** Addressable spend is where there is discretion on vendors with whom an organization does business. Non-addressable spend would include taxes, and utilities.
- **Diverse Spend:** This is the calculation of the percentage of spend with diverse suppliers as compared to overall addressable spend which would include non-diverse suppliers. Non-addressable spend is not included as vendor discretion is not available for those goods or services.

As we start 2023, we are seeking additional opportunities through the CBOs and DAS, as well as through the relationships with our water industry colleagues, to further broaden our diverse supply base – better serving our customers and communities.

PRO TAPPING & PIPE FREEZING

- ★ Wet Taps
- ★ Hot Taps
- ★ Line Stops
- ★ Pipe Freezes
- ★ Valve Insertions
- ★ Specialty Valves & Fittings

PRO TAPPING INC "THE NO SHUTDOWN SPECIALISTS"

24 HOUR SERVICE ★ SBE CERTIFIED

(856) 983-5442

620 Gravelly Hollow Road ★ Medford, New Jersey 08055
Fax (856) 985-8621 ★ www.protapping.com
info@protapping.com

Federally Funded or Assisted Utility Projects and Its Impact on Supplier Diversity Programming

By Mike Jefferson, Supplier Diversity Manager, The Metropolitan District (MDC)

The advent of the newly passed *Infrastructure Investment and Jobs Act* (IIJA) providing billions of dollars to upgrade our nation's infrastructure – including water and wastewater – brings great opportunities for our industry Sector to implement meaningful projects and create jobs in the construction and design industry. Great news.

However, there is a catch for supplier and workforce diversity. The rules just changed making it a challenge going forward to include small businesses, including minority and women-owned firms on utility projects that will surely be funded with federal dollars. In this article, I will discuss the most profound changes, and that is the Supplier Diversity certification requirement, its new processes, and new (and significant) reporting corporate compliance for the construction industry.

First, the regulations require that all small business contractors, material suppliers, support vendors, and professional services providers must register in the federally owned and operated System for Awards Management (known as SAM.gov). The trick here is that Small, Minority, Women-owned Business Entities (SMWBEs) now have to register and receive a Unique Entity Identifier Number which allows the federal government to track who they are, their Owners, their Affiliates, and their good standing in many government areas including with the Internal Revenue Service (IRS): they have to explain any lawsuits, have good character and more. There are not many in Connecticut currently registered.

"The rules just changed making it a challenge going forward to include small businesses, including minority and women-owned firms on utility projects that will surely be funded with federal dollars."

Second, the applying firm must select their North American Industrial Code (NAICS) correctly which defines their primary and related scope of work – or offerings. This is important because as of October 2022, the Small Business Administration (SBA) updated its codes and each firm must re-affirm its status as a small business and must be very specific. For example, small businesses in the water and sewer pipeline business should use code 237110 and have no more than $39.5 million in gross annual receipts. In CT, under the Small Business Enterprise (SBE) statutes it used to be $20 million a year across all trades, suppliers, and professional services, so the field for Minority and Women-owned Business Enterprise (MWBE) opportunity is expanded significantly. Firms that used to be primes now qualify as SBE/Disadvantaged Business Enterprises (DBE)s in their own right.

Also, for contracts or purchase orders over $10k, each firm at each tier must register on the newly minted federal site called the Notification of Construction Contract Award and report contracts over $10k within 10 business days to the Office of Federal Contract Compliance (OFCCP), which then compels the small business to comply with federal Equal Employment Opportunity (EEO) hiring and reporting requirements by submitting and having approved Affirmative Action plans, posting their worksites jobs, paying at least federal Prevailing Wage, submitting certified payroll records and more administrative requirements – but small firms do not have the back-office support to complete the tasks. That will be covered in our next article (think owner-operator truckers).

The Metropolitan District (MDC) has experienced these phenomena and we found that not many of our State of Connecticut Department of Administrative Services (DAS) certified firms were even registered in SAM.gov. As well, many of our larger vendors found the process difficult (many took over four months to become approved).

So, we partnered with a number of long-time resource organizations and enhanced our 12-year supplier Diversity



Small Contractor Development Program which includes our pop-up Contractor Resource and Opportunity Center that provide free services including the SAM.gov registration process assistance, Surety Bonding, Contract Financing, Match Makers with MDC Primes, Opportunity Conferences for upcoming large projects, and more. Our partners include the Connecticut Construction Industry Association (CCIA), the US Department of Commerce, the Minority Business Development Agency (MBDA), the Greater Hartford Chapter of the National Association of Women in Construction (NAWIC), the University of Hartford's Entrepreneurial Center and the CT Department of Administrative Services (DAS) Supplier Diversity Office to "Same-Time Service" our Diverse Suppliers with great success.

Try partnering with local and regional Diverse Supplier Program operators to help your organization and your supplier base become and stay in compliance with the fast-approaching federal-funded projects. It has worked for the MDC!

Oh – and the SBA just changed their Small Business NAICS CODE size standard to mitigate inflation on December 19, 2022, and the industry's vendor base of Diverse Suppliers changed and became expanded. Check your organization's database of non-Diverse Suppliers to see if they now qualify. MDC sponsors an annual Academy that covers such topics with our partners of CCIA, MBDA, NAWIC, and the University of Hartford's Entrepreneurial Center at no cost. The 2023 Academy starts in January for four lunchtime sessions.

To learn more, contact me at *mjefferson@themdc.com.*

Resources

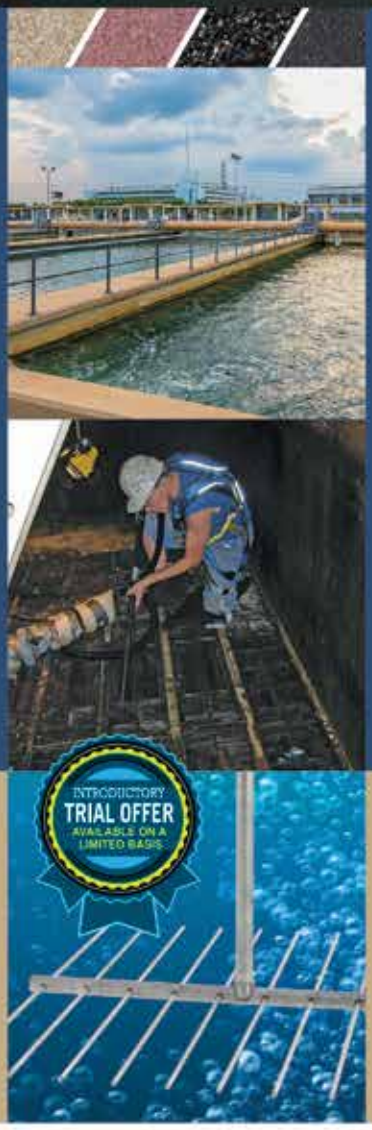
www.federalregister.gov/documents/2022/11/17/2022-24595/small-business-size-standards-adjustment-of-monetary-based-size-standards-disadvantage-thresholds





KNOWLEDGE
EXPERIENCE
PERFORMANCE

TOTAL FILTRATION SYSTEM SOLUTIONS



Call us for expert diagnosis, repair, installation, and maintenance.

Since 1977, Unifilt Corporation has been an industry-leading, global solutions provider.

- 5000+ Installations worldwide
- Filter evaluations
- Removal and installation of filter materials
- Guaranteed compatibility of components
- Equipment rentals
- Technical support
- State-of-the-art manufacturing and distribution of filter media: Anthrafilt™ anthracite, sand, high density material, and gravel
- Wheeler balls and Uni-Liners®

Improve filter media cleaning, boost productivity, minimize downtime, and reduce labor with the Unifilt Air Scour, featuring our proprietary, laser-cut microslits.

No filter media removal or underdrain replacement required...perfect for retrofits. Ask about an Introductory Trial Offer.

Learn more at www.unifilt.com.

UNIFILT CORPORATION

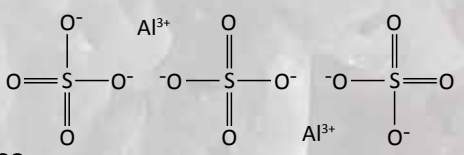
MADE IN THE USA

AWWA MEMBER

NSF Certified to NSF/ANSI 61

BAU HOPKINS

Represented by: Bau Hopkins
800.733.1860
sales@bauhopkins.com
www.bauhopkins.com



Are You Adequately Protecting Your Facilities from Liquid Aluminum Sulfate Contamination?

By James Hill, Ed Gierla, and Kevin Ovian

Inconsistent multimedia filter operation at the Regional Water Authority's (RWA) Gaillard 80 MGD surface water treatment facility and continual clogging of liquid aluminum sulfate (alum) chemical pumps led to an investigation of the root cause. Inspection of an effluent sample of the online liquid alum bulk storage tank revealed a sample, which appeared contaminated. The four onsite storage tanks were subsequently opened and also visually appeared contaminated. Operators also discovered approximately 20 ft^3 of solids at the bottom of all four of the 8,000-gallon storage tanks. Alum samples taken upon delivery showed no visual contamination and operator's recorded normal specific gravity. Plant performance also showed evidence of being degraded. Filter surveillance revealed excessive mud ball formation.

The RWA initially considered that the contamination was either coming from chemical delivery trucks that weren't being properly washed or directly from the manufacturer. Using a multi-pronged approach, the RWA worked to determine the source of the chemical contamination. The areas initially investigated were the chemical in the RWA's bulk storage tanks and the delivery trucks prior load and clean-out procedures and the vendor's process. Staff began the practice of saving 250 mL samples of alum from every delivery. The recovery process included cleaning bulk storage tanks, day tank, replacing filter media, chemical feed lines, ball valves, chemical feed pump maintenance kits and the alum chemical injector.

Initial Response and Discovery

Bulk Storage Investigation

In March 2019, operators opened chemical piping between the tank isolation valve and actuated valve and collected contents in a container as the first initial step in the discovery process; there was noticeable free-floating phase of contamination. The RWA contacted the Connecticut Department of Public Health (CTDPH) and chemical supplier immediately. A conference call was scheduled with both and individually. The CTDPH requested a written sequence of events and conference call. The chemical supplier indicated that there were no issues with their processes or chemical delivery trucks.

Due to the location of the contaminated alum sample, operators immediately isolated bulk storage tanks #1 and #2. Operators then collected samples of the finished water and alum for contaminants, which were sent to three different laboratories. Initial testing included analysis for oil and grease and GC fingerprint. Two consulting laboratories provided preliminary results, which indicated the presence of oil and grease (Total Petroleum Hydrocarbon [TPH]) and foreign compound found in the alum is identified as methylsiloxane (silicone). Finished water samples tested for methylsiloxane were non-detect. We also began screening Alum samples from the RWA's three other surface WTPS and provided daily updates to the CTDPH. Senior management had a conference call with the CTDPH, they were satisfied with the RWA's response and the ability to prevent any changes to treated water quality.

The RWA continued to operate Gaillard WTP with alum from bulk storage tanks that did not have detectable visible contamination. In an effort to isolate the treatment process from additional contaminants and to ensure use of clean, uncontaminated alum, the RWA contracted with Clean Harbors to have alum bulk storage tank #3 cleaned immediately and scheduled a delivery of alum the next morning. As an additional precaution, samples from each of the four alum storage tanks were obtained and dropped off at an outside laboratory for a more comprehensive chemical analysis to confirm the integrity of the alum in all tanks.

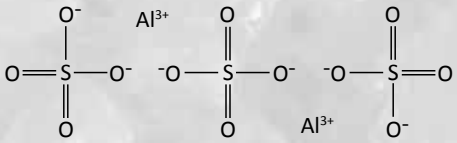
The following day, as a precaution, additional VOC and TPH samples were taken from the distribution point of entry. Analysis did not contain any volatile organic compounds except for Trihalomethanes (THMs) which was expected. The Gaillard WTP continued to operate with normal operating conditions and water quality.

The following week, alum bulk storage tank #3 was cleaned and had a fresh delivery of alum supplied for its use. The RWA began the practice of saving a 250 ml sample of all alum deliveries, collected from each delivery truck. The remaining three bulk storage tanks were isolated from the system. Alum samples were collected from two additional surface water treatment plants and subsequently sent out for analysis at Complete Environmental Testing (CET). The samples did not visually appear to be contaminated.

The RWA obtained confirmation of alum contamination in additional bulk storage tanks. Laboratory analysis of alum from Gaillard's alum bulk tanks #1 and #2 indicated there was 20 mg/L of TPH – confirmation that the samples were contaminated. Additional laboratory analysis was needed to determine the exact nature and components of the contamination.

Based on the new information, Gaillard alum bulk storage tank #1 and day tank were scheduled to be pumped out and cleaned the next morning. At this point in discovery, Lake Gaillard WTP was running on alum bulk tank #3 only, the day tank had been isolated, and bulk storage tank #3 had been cleaned and contained new, uncontaminated alum. Over the next months, Clean Harbors completely cleaned all alum bulk storage tanks and the alum day tank. The Gaillard WTP continued to operate with normal finished water quality.

In the following months, additional alum bulk tanks were sampled, cleaned, clean out pictures were taken and samples of liquid chemical and solids deposited on the bottom of the tank were obtained, labeled and stored in a locked cabinet.



Delivery Trucks Prior Load and Clean-Out Procedures

The RWA collected a sample of each chemical delivery and performed a specific gravity test and visual observation of the chemical along with checking chemical delivery paperwork before accepting each delivery. The discovery of solids in the chemical feed pumps and large amounts of chemical precipitate in bulk storage tank #3 (and subsequently all other tanks and day tank) pointed us in the direction of contaminated loads of chemical. The vendor who was suppling the alum does manufacture other chemicals, which are incompatible with alum. Water Treatment operators saved all alum bulk delivery chemical receiving records and decided to analyze which bulk tanks received which deliveries for the last six months.

The RWA created a spreadsheet with Alum delivery dates and which bulk tank received the load and then talked to our chemical supplier about prior shipments;

1) Nine shipments had liquid aluminum sulfate in the tankers prior to our delivery
2) Five shipments had poly-aluminum chloride in the tank truck prior to our delivery
3) One shipment had sodium aluminate in the tank truck prior to our delivery

After the RWA's discussion with the Alum manufacturer, the manufacturer agreed to supply washout tickets with every load and supply chemical with company only dedicated trailers.

Mud balls

During routine filter surveillance, Water Treatment operators noticed excessive mud ball formation and began collecting samples of the mud balls on the filters to see if that problem was associated with the contaminated Alum. Filter #13 was drained and mud ball samples were collected on top of the filter media, within the filter media and along the sides of the filter media. Samples were sent to Baron Analytical who provided some initial findings regarding the GAC filter media. The analyzed mud balls contained detectable levels of methylsiloxane.



Filter #13 Mud Balls

Based on this new information, Gaillard water treatment operators began the process of collecting samples of mud balls from all of the 16 filters. We received results that were unexpected. The mud balls analyzed by Baron Analytical found relatively high levels of sodium in several samples. The chemical manufacturers sample analysis indicated that the alum had almost no sodium in comparison. Because RWA felt that the new loads of alum were not contaminated, and that the cost of replacing granular activated carbon (GAC) filter media in all 16 filters was cost-prohibitive, the decision was made to remediate the filters. From $^{8}/_{14}$ to $^{8}/_{14}$ water treatment operators worked on manually removing mud balls from filters. Vacuum truck services reduced the manual labor required and sped up the process.

Discovery of Bacteria

In April, a sample from alum bulk storage tank #4 was taken. The sample looked very strange and was characterized as having the appearance of "egg drop soup." The RWA asked Baron's Analytical to investigate iron reducing bacteria.

Samples from two storage tanks were submitted to Baron Analytical for an eight-day Biological Activity Reaction Test (BART), which looks for sulfate, iron bacteria, heterotrophic bacteria and/or slime bacteria. The test cells indicated some positive response. We researched the availability of testing for iron bacteria by a plate method. No iron-reducing bacteria were found.

Additional analysis was suggested by RWA staff, including sulfate reducing bacteria. Scanning Electron Microscope (SEM) analysis was conducted and additional metals analysis with an EDS attachment. High resolution images clearly showed what appeared to be presence of bacteria. Additional SEM work showed a positive test for sulfate bacteria, and the iron bacteria test was again negative. Sulfate reducing bacteria were found on duplicate tests at 35,000 CFU/ml approximate population. The bacteria were anaerobic based on where the growth occurred. Non-aggressive Iron reducing bacteria were also found in duplicate samples.



Sample from Alum Bulk Tank #4
"Egg drop soup."



SEM Photograph of bacteria.

Return to Table of Contents

Discussions with Chemical Vendor

A representative visited Gaillard to assess the situation after the initial discovery of contamination. They indicated that what the RWA was seeing in the bulk tanks was "normal." Samples from the Alum bulk tank #1 and tank #2 were provided to the vendor. They agreed to clean alum bulk tank #1 at their expense. Discussions with their drivers indicated that the cleaning out the trucks is conducted using an "honor system."

The RWA met with the vendor, they were asked to clarify if they believe their product met our specifications, at which time they said yes. The RWA then presented the findings, which included a new analysis that showed a bacterium in the product. They offered to clean our remaining tanks and remove the contaminated product currently in the tanks and cover the clean-up cost. We talked about the possibility of having some language drafted up if they were to remove the product so we cannot be held liable for any disposal issues. We then discussed our existing cost that we incurred regarding the initial clean up.

Follow up items consisted of:

1) Having the RWA to look into options to dispose of the contaminated product with the vendor
2) Sharing the final analyses report that we will receive from Baron Consulting that shows the bacteria with the vendor
3) Having the vendor to respond back to us on the option to pursue our insurance to cover filter bed clean-up

Samples were provided to the vendor for analysis. The vendor's analysis showed no methylsiloxane. Six samples were from our storage tanks; three were samples obtained from Galliards tanks, and two were from tank #1 and one from tank #2. One of the samples from tank #1 was solids collected by RWA operators. All samples contained sodium, potassium and silicon that were significantly higher than vendor submitted samples showing varying high levels of sodium, potassium and iron.

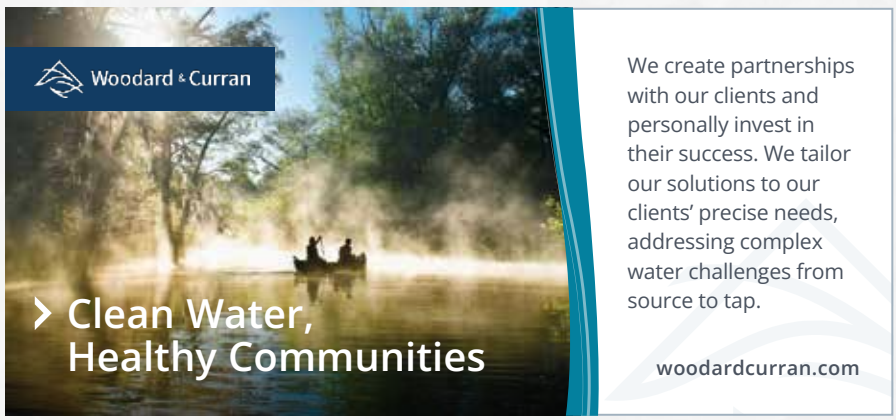
Specialized Analytical Labs for Analysis

Organic and inorganic methods of analysis were used including; Fourier Transform Infra-Red (FT-IR) Spectroscopy, Emissions Spectroscopy and Scanning Electron Microscope (SEM), BART, and EPA 16648 were used to analyze the composition of the alum and potential contamination.

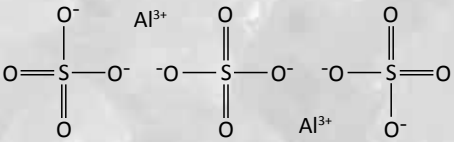
Results/Conclusions

All chemical deliveries were NSF 61 certified and the independent analysis was cross-referenced with ANSI/AWWA standard B403-16. Initial inorganic analysis did not indicate anything out of normal chemical contract specifications. Organic analysis indicated a small concentration of methylsiloxane in one of the bulk storage tanks. Inorganic analysis showed sodium levels significantly higher than the "normal" sample provided by the chemical vendor. Initial testing of bacteria using BART was negative. Electron microscope images confirmed the presence of sulfate reducing bacteria and subsequent testing found live colonies of sulfate reducing bacteria.

Previous chemical receiving processes and bid specifications did not adequately reduce the risk









Samples collected directly from the truck's tank. The one to the left and to the right show visible evidence of bacteriological contamination.

of receiving contaminated alum. Additional measures were put in place to reduce risk of similar incidents including; modifications of the bid specifications regarding requirements for bulk tank truck clean-out certification, a no-bacteria requirement, sodium concentration specification limits and changes in initial grab sample analysis. As a closing note, if you have excess solids build-up in your bulk storage tanks and in your alum chemical feed system, you may have received contaminated alum and may need further investigation!

Tighe&Bond

Asset Management
Energy & Sustainability
Funding
Stormwater
Transportation
Water Resources
Wastewater

Offices throughout the Northeast
www.tighebond.com



transform your environment



SUSTAIN IT

- water infrastructure
- emerging contaminants / PFAS
- resiliency
- water treatment and storage
- booster stations
- distribution piping
- master plans
- reservoirs & dams
- groundwater supply
- hydrogeology
- construction, maintenance & repair services

712 Brook Street, Suite 103
Rocky Hill, CT 06067
tel: 860-513-1473
westonandsampson.com
Offices along the East Coast

an employee-owned company

Weston & Sampson℠



Use Paper Responsibly

Today's forest industry is working hard to become one of the greenest industries on earth.

Paper is an essential part of human civilization. While we all use and depend upon electronic communications, it is easy to ignore that it comes at an environmental cost. Worldwide spam email traffic creates greenhouse gases equivalent to burning two billion gallons of gasoline yearly, with numbers rising. More than $55 billion in toxic e-waste material is thrown away every year in the US alone, with a recycling rate of only 20% compared to 64.7% for paper.

No industry is perfect. But the paper industry has made, and continues to make, huge investments in environmental responsibility. Specifying and buying paper from certified sources ensures the continuation and growth of carbon absorbing forests. Using paper with appropriate amounts of recycled fibre helps preserve forests, conserve energy, and maximize fibre usage through paper lifecycles.

Detect leaks before they turn into disasters.



Connecticut's Answer to Unaccounted for Water %

- Unmatched expertise
- Proven solutions that work
- Programs that pay for themselves

CONN-PROFESSIONAL
WATER SERVICES

Leak Detection Professionals

866-612-2763
www.cpwaterservices.com



We've Got Your WATER SERVICES Covered

PFAS
More than 100 Projects in 10 States

Tracking Regulatory Changes
Environmental Investigations
Vulnerability Assessments
Remedial Treatment
Risk Management
Audits





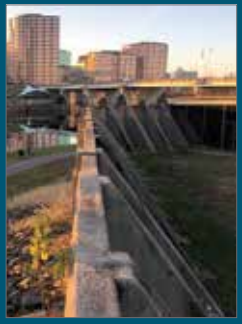

Water Supply
More than 2,000 Projects Completed

Groundwater Supply Exploration, Development,
Yield & Quality Enhancement Water Resource Protection
Watershed and Stormwater Management
Limnology and Bathymetric Surveys
Water Supply, Conveyance & Storage
Water Quality and Treatment
Hydropower Relicensing









Dams
More than 1,000

Dam Rehabilitation Design/Oversight
Hydrologic and Hydraulic Analyses
Dam and Levee Engineering
Subsurface Explorations
Part 12D Inspections
Stability Analyses




GZA Known for excellence. Built on trust.

gza.com

For more information, contact:

PFAS | Richard Desrosiers, P.G., CT LEP richard.desrosiers@gza.com
Dams | James Davis, P.E. james.davis@gza.com
Groundwater Suppy | James Emery, P.G. james.emery@gza.com
Surface Water Supply | Stephan Roy, P.G. stephan.roy@gza.com



CWWA Legislative Update

CWWA Gears up for 2023 Legislative Session

The Connecticut General Assembly kicked off on January 4, 2023 for a long legislative session that will end on June 7. Eight new state senators and 28 new state representatives were sworn in, with the Democrats picking up one seat in each chamber for a 24-12 majority in the state Senate and a 98-53 majority in the state House.

As veteran political journalist Mark Pazniokas, *CT Mirror*, points out in a recent story, this "will continue an era of rapid change: More than half of the seats in the House and nearly two-thirds in the Senate will have turned over since 2018, some more than once." At the same time, several new committee chairs and ranking members have been appointed.

Given that the state legislature has been largely closed off to the public since March 2020 due to the ongoing COVID-19 pandemic, this poses challenges for CWWA and other advocacy organizations who rely on good working relationships with legislators on both sides of the aisle to address issues facing their members.

"Since 2020, we've had to rely on emails, texts, phone calls, and Zoom meetings to communicate with legislators, which worked well with legislators that we had established relationships with over the years. However, given the number of new faces in the legislature and new committee assignments, we need to do more," said Betsy Gara, CWWA's Executive Director.

"CWWA will be ramping up its grassroots efforts to better connect our members with their legislators to discuss proposed legislation and how it may impact public water supplies," explained Gara. "We also want to make sure that legislators understand the challenges facing water companies in providing safe, reliable high-quality water to customers at a reasonable cost."

CWWA will be inviting legislators to participate in meetings with CWWA and our members to discuss CWWA's 2023 Government Affairs Agenda. The agenda, which reflect input from CWWA's Board, Legislative Committee members, includes the following priories:

- Target state and federal funding opportunities to provide grants to all water companies and authorize appropriate rate recovery mechanisms for critical infrastructure investments and upgrades, including lead service line replacement programs and treatment costs to address PFAS and other water quality issues.
- Prioritize opportunities for water companies to reduce energy costs and improve energy efficiency by ensuring eligibility for the state's various energy programs.
- Enact stronger mechanisms for enforcing water use restrictions during drought and other water supply emergencies.
- Expand efforts to promote opportunities and provide training for careers in the water industry, with the emphasis for the new generation of water system operators.

The agenda also includes a number of other recommendations on issues affecting water quality, infrastructure investment, operational issues, and source water protection.

Visit *www.cwwa.org* to download the complete 2023 Government Affairs Agenda.

"CWWA will be inviting legislators to participate in meetings with CWWA and our members to discuss CWWA's 2023 Government Affairs Agenda."



ARCADIS

Lead and Copper Rule Revisions Experts

Assisting Communities with Equitable Implementation Plans

1500+ Utilities Served Nationwide

$300m Obtained in Funding Programs

50+ LCRR Experts






SUSTAINING THE FUTURE OF PUBLIC UTILITIES

B.S. IN BUSINESS ADMINISTRATION PUBLIC UTILITIES MANAGEMENT PROGRAM

Develop the skills and knowledge needed for in-demand middle-and upper-level management careers with the region's public utility companies.

FIRST PROGRAM OF ITS KIND IN THE UNITED STATES

- Utility companies require innovative leaders who understand management principles and possess the financial and technical skills to replace a rapidly aging workforce.
- Current utility employees looking to advance their careers and fill dynamic managerial roles in public utilities may enter the program to receive a solid management base, coupled with an industry-specific concentration.
- Traditional students may enter the degree program, selecting the public utilities management concentration.
- Scholarships are available for students enrolled in the program.
- Students may transfer from their associate degree program in public utilities management at Gateway Community College and complete their bachelor's degree at Southern.

FOR MORE INFORMATION
Dr. Gregory Robbins Associate Professor of Management
RobbinsG2@SouthernCT.edu | (203) 392-5865

Southern Connecticut State University
SCSU
SouthernCT.edu

Maureen Westbrook Retires as Connecticut Water's President and Craig Patla Appointed to Succeed Her

December 31, 2022 marked the end of an era at Connecticut Water, when Maureen P. Westbrook retired as president of the company following a distinguished 34-year career. Maureen will be succeeded by Craig J. Patla, who was appointed to the position by the Connecticut Water board of directors, effective on January 1, 2023.



Maureen P. Westbrook



Craig J. Patla

Craig is licensed professional engineer who has been with Connecticut Water for 32 years and has served as the company's vice president of service delivery since 2014. He started his career in 1990 as a field engineer and has steadily been promoted to positions of increasing responsibility over his three-decade career. He has been responsible for all company supply operations, field services, water quality, environmental compliance, safety and engineering, and planning functions for the company. Further, he has led the company's emergency response efforts during major storm events and widespread power outages and is engaged with PURA on its Emergency Support Function #12 team.

He has also been active in CWWA serving on its board.

Maureen has been extremely active in Connecticut's water industry. She left the Connecticut DPH to join Connecticut Water in 1988. Over the years, she has served as the chair of the Connecticut Section and President of CWWA. She currently serves as a tri-chair on CWWA's legislative committee and was recognized with the distinguished George W. Fuller by the CTAWWA in 1998. She was actively involved with the state's Water Planning Council (WPC) from its inception and served as a member and co-chair of the Water Planning Council Advisory Committee and various WPC working groups.

Maureen established a strong reputation at the capitol and along with Betsy Gara and Lori Vitagliano were looked to as 'the water women,' serving as a resource advocating for or opposing various proposals related to water. She sought to engage her water colleagues in the legislative process and to partner with stakeholders, collaborating on efforts that balanced the various interests while benefiting water utilities and their customers. She was particularly proud to be part of legislation that created financial incentives for the donation of water company lands for open space, developed grant programs for acquisition of open space and watershed land, provided for of a *Water Infrastructure and Conservation Adjustment* (WICA) charge for infrastructure replacement and authorized a water revenue adjustment mechanism to promote water conservation. She was a regular speaker at CWWA events with updates on legislative and regulatory activities, including seemingly countless updates on streamflow regulations and the state water plan.

In making the announcement about Maureen's planned retirement, Eric Thornburg, chair of the Connecticut Water board noted, "Maureen has been vital to our success in serving our customers and communities and achieving meaningful environmental goals. She has been a strong leader of our people, with a focus on driving our culture and values. The water industry and our own customers and employees will benefit from Maureen's contributions well into the future, and we thank her for her service."

Maureen has been with Connecticut Water since 1988 and served as Connecticut Water's president since October 2019. Under her leadership the company has been recognized as a US Top Workplace in 2022 and a Connecticut Top Workplace in 2021 and 2022.

STILES CO
SMART WATER SOLUTIONS
Badger Meter
REED
AERVOE
FORD METER BOX
Call Stiles Co. for all of your Waterworks needs.
922 Pleasant St, Norwood, MA
www.stilesco.com 800-426-6246

Hazen
hazenandsawyer.com
100 Great Meadow Road, Suite 702
Wethersfield CT 06109
860 257-1067

Connecticut Water Receives Community Service and Safety Awards

Connecticut Water was once again recognized by Connecticut Construction Industries Association with two 2022 awards:

- A Community Service Award for the Shenipsit Lake Reservoir Recreation Program, which provides for free hiking, fishing from the shoreline, and from registered boats through a permit with the Connecticut Department of Public Health.
- Its 19th consecutive Safety Award honoring the company's commitment to a safe workplace.

Thank you to CCIA and to the 200+ Connecticut Water team members who reflect this success!



MDC's Susan Negrelli Receives Public Owner of the Year Award

The Metropolitan District's (MDC) Susan Negrelli was recently named a recipient of the 2022 Public Owner of the Year Award by the Associated General Contractors of Connecticut (AGC CT). Negrelli, the MDC's Director of Engineering and Planning, was recognized was presented with the award at the AGC CT's Industry Recognition Awards event held on October 13. AGC CT is the building division of the Connecticut Construction Industry Association, representing commercial, industrial, and institutional construction contractors, subcontractors, material suppliers and professionals serving the Connecticut construction industry. The Industry Recognition Awards are presented annually to honor industry leaders who have earned special distinction for their contributions to the construction industry. The Public Owner of the Year award to goes to municipalities or government agencies.

As Director of Engineering and Planning for the past eight years, Negrelli oversees planning, design and construction of capital improvement and clean water projects; technical services; and supplier diversity. The MDC's annual capital improvement spend is approximately $80-95 million. In addition to capital projects, Ms. Negrelli has directed the implementation of the over $2 billion Clean Water Project, including the over $500 million South Hartford Conveyance and Storage Tunnel project, which has been in construction for the past six years and is one of the largest construction projects in all New England. Negrelli has been an MDC employee for over 25 years and remains involved in local, regional, and national professional industry associations.

"Susan has played a vital role in the MDC's commitment to improve the water and sewer infrastructure for the towns we serve. Whether it's overseeing the capital investment of over ten miles of water main every year or the massive undertaking of the Clean Water Project, Susan has kept us moving forward," stated MDC CEO Scott Jellison.

The MDC is a nonprofit municipal corporation chartered by the Connecticut General Assembly in 1929. The MDC provides water, wastewater treatment and other services to its member towns: Bloomfield, East Hartford, Hartford, Newington, Rocky Hill, West Hartford, Wethersfield and Windsor. In addition, the district supplies treated water to portions of Glastonbury, South Windsor, Farmington, East Granby, and Portland.



Welcome New Members

Claire Butler,
Yale University

Katie Dalessio,
Waterbury Water Bureau

Samuel Gurwitz

Robert Horn,
Aquarion Water Company

Kara Keating,
Roebic Laboratories Inc.

Nicole Laboy,
Connecticut Storm Surge

David Loglisci,
First District Water Department

Russell Macgregor,
Norwich Public Utilities

Carolyn Marchak,
Student

Kara McClaskey,
Student

Vanessa McPherson,
Arcadis US, Inc.

Alisa Morrison,
Norwich Public Utilities

Katie Peart,
BILCO

Erik Salvati,
Allnex USA Inc.

Ryan Smith

Matthew Way,
FW Webb Company

Michelle Williams,
Connecticut Water Co.



Thank You to our 2023 Section Enhancers

AECOM
Aqua Solutions
Aquarion Water Company
Arcadis US Inc
Bau/Hopkins
Carlsen Systems, LLC
CDM Smith
City of Bristol Water & Sewer Dept
Clow Valve Company
Comprehensive Environmental Inc.
Connecticut Water Company
Core & Main
Culligan By Waterco
DN Tanks
EBAA Iron Sales, Inc.
Environmental Partners
FW Webb Company
Ferguson Waterworks
Fuss & O'Neill, Inc.
GL Lyons Associates
G & L Water Works Supply
H2M architects + engineers
H2Olson Engineering, Inc.
Harper Haines Fluid Control, Inc.
Hazen and Sawyer
Holland Company
Hymax a Mueller brand
JKMuir, LLC
Kennedy/MH Valve
Kleinfelder Inc.
Luchs Consulting Engineers, LLC
McWane Ductile
Michels Corporation
Mueller
Neptune Technology Group
Paramount Construction LLC
PRIME AE Group
Reed Manufacturing Company
SB Church
Sima Drilling Company
Snyder Civil Engineering, LLC
South Central CT
Regional Water Authority
Stantec
Statewide Aquastore Inc.
Tata & Howard
The Metropolitan District
Tighe & Bond, Inc.
Ti-SALES
VTScada By Trihedral
Water & Sewer Specialties
Weston & Sampson
Woodard & Curran
Wright-Pierce

(As of January 25, 2023)

AQUA Solutions

www.aquasolutionsinc.net
866-711-AQUA (2782)

SEE OUR FULL LINE OF WATER TREATMENT OPTIONS

Roberts Filter Group
Innovations for Generations



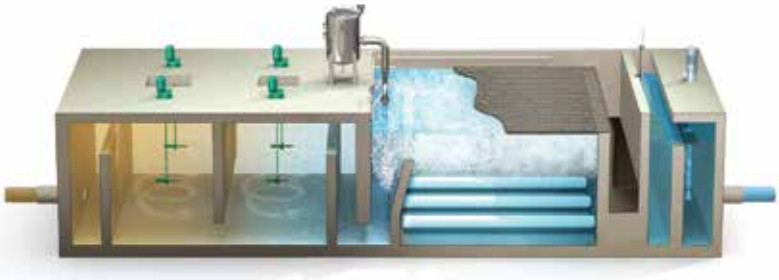
ROBERTS FILTER PRESSURE
FILTER SYSTEMS

MRI
meurerresearch



MRI HOSELESS CABLE-VAC
SLUDGE COLLECTOR

suez
Water Technologies & Solutions
Authorized Sales Representative



SUEZ AQUA DAF

RSA ELECTRAULIC ACTUATION



FILTER EFFLUENT CONTROL
- Superior Modulating Control Improves Filter Performance
- 10 year Warranty offered for Filter Effluent Service

Advertiser *Product & Service Center*



InFlow-Line is made possible by the companies below who convey their important messages on our pages. We thank them for their support of The Connecticut Section American Water Works Association (CTAWWA) and the Connecticut Water Works Association (CWWA) and their publication and encourage you to contact them when making your purchasing decisions. To make it easier to contact these companies, we have included the page number of their advertisement, their phone number, and, where applicable, their website.

COMPANY	PAGE	TELEPHONE	WEBSITE
AQUA SOLUTIONS, INC.*	44	866-711-2782	*www.aquasolutionsinc.net*
AQUARION WATER COMPANY*	18	203-445-7310	*www.aquarion.com/ct*
ARCADIS US INC*	39	203-364-9700	*www.arcadis.com*
BAKER WATER SYSTEMS, A DIVISION OF BAKER MANUFACTURING CO., LLC	28	800-356-5130	*www.bakerwatersystems.com*
BIOSAFE SYSTEMS	22	888-273-3088	*www.biosafesystems.com*
CONN-PROFESSIONAL WATER SERVICES	37	203-888-2763	*www.cpwaterservices.com*
CORE & MAIN*	48	203-330-0162	*www.hdswaterworks.com*
CORRTECH INC.	13	888-842-3944	*www.corrtech-inc.com*
COYNE ENVIRONMENTAL SERVICES	10, 12	215-785-3000	*www.coyneenvironmental.com*
CULLIGAN OF NEW ENGLAND*	9	203-744-0200	*www.culligannewengland.com*
E.J. PRESCOTT	20	860-875-9711	*www.ejprescott.com*
ENVIRONMENTAL PARTNERS GROUP, INC.	14	617-657-0200	*www.envpartners.com*
FORD METER BOX COMPANY	6	260-563-3171	*www.fordmeterbox.com*
G & L WATER WORKS SUPPLY	46	800-246-5242	*www.glwwsupply.com*
GESICK & ASSOCIATES, P.C.	8	860-669-7799	*www.gesicksurveyors.com*
GZA GEOENVIRONMENTAL INC.	38	860-286-8900	*www.gza.com*
HARPER-HAINES FLUID CONTROL INC.*	2	203-693-3740	*www.harper-haines.com*
HAYES PUMP INC.	47	978-369-8800	*www.hayespump.com*
HAZEN AND SAWYER*	41	860-257-1067	*www.hazenandsawyer.com*
KLEINFELDER*	46	860-563-7775	*www.kleinfelder.com*
LADTECH	3, 17	651-415-1252	*www.ladtech.com*
LUCHS CONSULTING ENGINEERS, LLC/DECARLO & DOLL, INC.*	31	203-379-0320	*www.luchs.com*
MERSINO	10	866-637-7466	*www.mersino.com*
MISSION COMMUNICATIONS	47	678-969-0021	*www.123mc.com*
PITTSBURG TANK & TOWER GROUP INC.	46	270-826-9000	*www.pttg.com*
PRO TAPPING, INC.	29	856-983-5442	*www.protapping.com*
RELINER/DURAN INC.	12	800-508-6001	*www.reliner.com*
SB CHURCH	35	203-888-2132	*www.sbchurchco.com*
SNYDER CIVIL ENGINEERING, LLC*	20	860-342-1370	*www.snydercivil.com*
SOUTHERN CONNECTICUT STATE UNIVERSITY	40	203-392-7278	*www.southernct.edu*
STATEWIDE AQUASTORE, INC.*	7	315-433-2782	*www.besttank.com*
STILES COMPANY INC.	41	781-769-2400	*www.stilesco.com*
TATA & HOWARD*	26	800-366-5760	*www.tataandhoward.com*
TECHNOLOGY SALES ASSOCIATES, INC.	22	978-838-9998	*www.techsalesne.com*
TI-SALES INC.*	26	800-225-4616	*www.tisales.com*
TIGHE & BOND*	36	203-712-1100	*www.tighebond.com*
UNIFILT CORPORATION	32	724-758-3833	*www.unifilt.com*
VEGA AMERICAS, INC.	4	800-FOR-LEVEL	*www.vega.com*
VEOLIA ADVANCED SOLUTIONS USA	26	855-526-4413	*www.veolianorthamerica.com*
WATER & SEWER SPECIALTIES*	46	877-342-5318	*www.waterandsewerspecialties.com*
WESTON & SAMPSON, INC.*	36	860-513-1473	*www.westonandsampson.com*
WOODARD & CURRAN*	35	888-265-8969	*www.woodardcurran.com*
WRIGHT-PIERCE*	38	860-343-8297	*www.wright-pierce.com*
WSP	22	203-929-8555	*www.wsp.com*

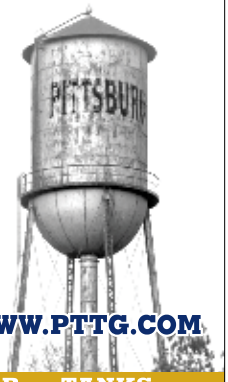
*This advertiser is also a 2023 Section Enhancer. List current to January 2023.

Return to Table of Contents

STRUCTURE. & INTEGRITY.

PITTSBURG TANK & TOWER GROUP
An ESOP Company Since 1919

"100 years and still climbing"



CREWS AVAILABLE GLOBALLY

WWW.PTTG.COM

INSPECTIONS	REPAIR	TANKS
Wet	Code Updates	Elevated
Dry	Paint	Ground
ROV	Insulation	Relocation
In-Service Cleaning		Erection
		Dismantles

AISC CERTIFIED FABRICATOR

NEW TANKS – Rick DiZinno
(270) 826-9000 ext. 2601

EXISTING TANKS – Jordan Pyles
(270) 826-9000 ext. 4601

KLEINFELDER
Bright People. Right Solutions.

EXPERTISE. INSIGHT. INNOVATION.

Engineering solutions for your LCRR, PFAS and other emerging issues. We deliver on your water challenge.



200 Corporate Place, Suite 310
Rocky Hill, CT 06067
(860) 563-7775
www.kleinfelder.com

G&L

WATER WORKS SUPPLY
CHESHIRE, CT
203.272.1770



Specializing in Water Works Parts



Family Owned Since 1990

131 Brownstone Avenue
Portland, CT 06480
860-342-5318
info@waterandsewerspecialties.com



Home of
"Meter Pit Man"

Mission is Simply More Intelligent

Advanced Monitoring • Low Cost • Managed SCADA

Proactive Notifications

- Alarms dispatched to all your devices—phone, tablet, computer, fax, pager
- Customizable notifications
- Convenient alerts

Secure Data

- Defense–in–depth security policies
- Multiple security measures layered to protect your system
- Securely access your data anywhere

Purpose–Built Hardware

- **NEW** radio supports multiple carriers to ensure optimum connection
- Standardized RTUs are economical
- Fast and easy installation increases efficiency
- Advanced remote–control business logic

Convenient Support

- U.S.–based technical support 24-7-365
- Live weekly training webinars
- Audit trail for accountability
- All resources at no charge

Mission Managed

- No software or cellular carrier relationships to maintain
- Continual system enhancements
- State–of–the–art web portal features live data, multiple windows, and more
- Comprehensive reports
- All necessary components included—no hidden fees



MISSION COMMUNICATIONS

123mc.com

Locally Represented by:

Flow solutions since 1898

HPI

HAYES PUMP, INC.

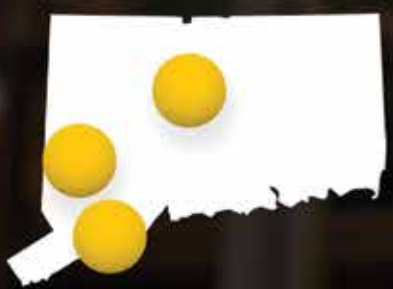
66 Old Powder Mill Rd., W. Concord, MA 01742

Tel: 978-369-8800 • Fax: 978-369-8461

CORE & MAIN

WE'RE ALL ABOUT *Your Success*

Customer service and a project well done go hand in hand. At Core & Main, we don't just assist you with your waterworks project needs. We partner with you all the way to the finish line. Give us a call to get started.



Bridgeport
295 Hancock Ave
203-330-0162

New Britain
One Hartford Sq
860-826-0517

New Milford
506 Danbury Road
860-210-6262

coreandmain.com

Itron

U.S. PIPE
A Forterra Company

MUELLER

BUILT STRONGER. LASTS LONGER.
EBAA IRON
EBAA IRON SALES, INC.

Local Knowledge, Nationwide®