

Share Your Thoughts

NHWPCA Annual Trade Fair

By Michael R. Theriault, PE, Wright-Pierce

No glorified virtual meetings and conferences from our homes or pseudo-offices could ever substitute an in-person networking experience. We've been surviving in our unique and individual ways and we all truly hope to never witness events like this again in our lifetimes. We reflect on just how much we've missed interactions with co-workers, friends, and acquaintances in our industry. Talking live with operators, regulators, suppliers, and engineers will always be more effective and personable than an email. George Neill's infamous comedy while raffling off gifts, Ray Vermette yelling 'Johnny-Five' over the crowd, or Fred McNeill's inspiring speeches to our state legislators. We've all missed these life interactions of our regular Association events. Enough is enough, and it's time that we prepare to move forward...



Mike Theriault currently serves as the 2nd Director of the NHWPCA and has been employed by Wright-Pierce since 2013

The NHWPCA would like to invite all of you to getting back toward some degree of normalcy in hosting our Annual Trade Fair on Friday October 1, 2021 at the DoubleTree Hotel in Manchester, NH on Elm Street. The trade fair floor will occupy the large Armory Room which had historically served as a meeting location for some of our events. It's a larger function area than our more recent trade fairs and will allow for plenty of space to interact with the people in our industry we've missed. The Armory Room will be available on the night before the event for exhibitor and booth setup.

The trade fair will include a couple of breakout technical sessions to earn some CEUs for those who choose to attend. A lucky operator from the Rhode Island Water Environment Association will be joining us after participating in a 3-day operator exchange program. We'll finally be able to congratulate a number of NEWEA and EPA award winners in person for the recognition these individuals and teams deserve. The event will be capped off by lunch with our fellow Association colleagues and a raffle of exciting gifts that nobody has been able to give away in some time. For attendees or exhibitors desiring to stay overnight, the hotel has set aside a block of rooms for our group.

We look forward to seeing you.

NHWPCA Board

Mike Carle
President

Robert Robinson
Vice President

David Mercier
Secretary

Mario Leclerc
Treasurer

Ryan Peebles
1st Director

Mike Theriault
2nd Director

Aaron Costa
3rd Director

Nate Brown
1st Director-at-Large

Peter Conroy
2nd Director-at-Large

Steve Clifton
NEWEA Director

In This Issue

Blurbs, Blurbs & More
Blurbs

Who's New at Your
Facility

Congratulations to
New Hampshire's
Newest Operators!

NEWEA Certification
Program updates

Clean Water Week
Poster Contest

Let's Take a Step Back
and Take a Moment to
Understand the Why!

Retiree Raves

President's Corner

PreTreatment Tales

Residuals Report

To Make You Smile...

Safety Corner

Thoughts from the
Bench

NHWPCA Annual
Trade Fair Information
and Registration

Editor's Words



Stephanie
Somersworth WWTF

The weekend in 2020 when America shut down due to the pandemic, my favorite band was starting a tour to promote their new album and I had tickets! Sixteen months later, I finally got to see them. Enter the Haggis is usually described as a Canadian Celtic rock band, but there's a lot more to their sound – google them and check out their signature song, "One Last Drink".

If working here in Somersworth during the craziness of an upgrade wasn't stressful enough, I've had extra stress coming from my hometown of Dovah, where my elderly parents and developmentally disabled brother live. I've learned that I can survive on less sleep and more caffeine for longer than I thought I could, but I really don't like it. I try to include plenty of self-care, and seeing Enter the Haggis is at the top of my list. The show was at 9 p.m. on a Sunday night, which is normally bedtime, not show-time, for me. The chance to be singing along with a crowd of fans was no contest to an early bedtime and I had an awesome time, I had a seat close enough to reach out and touch the stage!

The goal of this newsletter is to get y'all excited about attending the October 1st Trade Fair. There will be vendor booths to visit, a yummy meal and more! Best of all is the chance to network with "our people". "Our people" care about the environment. "Our people" don't hesitate to explain what not to flush. "Our people" talk about rain events, not rainy days. "Our people" are innovative and thrifty as we treat millions of gallons of wastewater every day. "Our people" don't hesitate to get our hands dirty. "Our people" keep a bottle of Febreze in our vehicles and have used it on ourselves. "Our people" are really sick of hearing "I suppose you get used to the smell, right?" but we smile and nod because we are professionals!

Make sure to say "hi" to me on October 1st! I'll be the one wearing the Enter the Haggis T-shirt that reads "Fire up that fiddle, boy, and give me one last drink!"



Upcoming Events

Go to www.nhwPCA.org for
live links to online registration

Check NHWPCA.org for details — Fall Training Classes

October 1, 2021 — Annual Trade Fair
DoubleTree Hotel, Manchester, NH

NEWSLETTER COMMITTEE

Stephanie Rochefort, Mary Jane Meier, Steve Clifton, Rick Nash, Ryan Peebles, **YOUR NAME HERE.**
We welcome additional members.

We are looking for meaningful articles for the Wastewater Operator in a timely fashion.
Send submission articles for *THE COLLECTOR* to: Stephanie Rochefort via email at srochefort@somersworth.com.

Editor: Stephanie Rochefort

THE COLLECTOR is the Official Newsletter of the NHWPCA

For more information about the NHWPCA visit our website at www.nhwPCA.org



155 River Rd. Unit 15, Bow, NH 03304 | 603-225-5529 | evans1@evansprint.com



Blurbs, Blurbs, & More Blurbs

Who's New at Your Facility

Tell Us About Your New Hires!

Hey Collector-fans, we need your help to celebrate our newest additions to the wastewater treatment field in New Hampshire. It's time to start understanding "Who's New?" and filling the roles of all the recent retirees. Please email your new hire's name and certification grade, and plant name, etc. to info.nhwpc@gmail.com and use the words in the Subject line 'New WW Hires'.

Congratulations to New Hampshire's Newest Operators!

- Jonathan H. Forbes - Farmington - 1-OIT
- Erik J. Lynch - Stratford - 1-OIT
- Meadow B. Wotton - Lincoln - 1-OIT
- Brian I. Deschamps - Sunapee - 1
- Dale J. Houde - Dover - 1
- Aaron Bickford - Portsmouth - 2-OIT
- Derek J. Connell - Merrimack - 2-OIT
- Devin I. Greenhalgh - Merrimack - 2-OIT
- Tyler T. Juranty - Franklin - 2-OIT
- Chuck Tiffany - Farmington - 2
- James D. Casey - Dover - 3-OIT
- Mark A. Kondelis Sr. - NHDES - 4
- Kevin E. Wilkins - Merrimack - 4
- Aaron Bickford - Portsmouth - 1-OIT
- Alexander R. Mellen - Hillsboro - 1-OIT
- Ryan K. Monahan - 1-OIT
- Zackary M. Andersen - Antrim - 1
- Derek J. Connell - Merrimack - 1
- Devin I. Greenhalgh - Merrimack - 1
- Scott Richardson - Merrimack - 1
- Justin Ruskowski - Winchester - 1

- James D. Casey - Dover - 2-OIT
- Robert E. Doswell - Epping - 2-OIT
- Jamie N. McDonald - Seabrook - 2-OIT
- Branden A. Moore - 2-OIT
- Shane T. Nicols - Portsmouth - 2-OIT
- Paul S. Wotton - Lincoln - 2-OIT
- Nathaniel S. Jackson - Pittsfield - 2
- Ethan G. Marshall - Berlin - 2
- Rhonda J. Sheats - Troy - 2
- Michael J. Paganelli - Portsmouth - 3-OIT
- Kevin Wilkins - Merrimack - 3
- Dylan G. Delisle - Concord - 4-OIT
- Glen E. Wilson - Portsmouth - 4
- Willis G. Wotton - Lincoln - 4
- Glen Wilson - 3
- Richard Fournier - 1
- Joshua Ruel - 1
- Amy Lewis - 2
- Aron Caudel - 2
- Bob Seibel - 3
- Jeremy Gendron - 3
- Eric Bloom - 2
- Timothy Robare - 1
- Muriel Lajoie - 1
- Kenneth Vandenburg - 2-OIT
- Paul Doucet - 3

Thank you for choosing Eastern Analytical, Inc. for your testing needs.



Eastern Analytical, Inc.
professional laboratory and drilling services

4 YEARS

QUALITY DRIVEN

CUSTOMER FOCUSED

EMPLOYEE OWNED

NEWEA Certification Program updates

The NEWEA certification examination programs for Lab Analysts and Collection System Operators are being reviewed and updated to offer greater access to those seeking certification. The overhaul of the program became necessary as in-person testing was restricted due to Covid. Program updates offer the opportunity to complete the application, schedule and take the exams online. The operator will have the benefit of choosing an exam date that is convenient for them and accessed via a laptop computer. The proctor for the online exam will monitor your exam event via the camera in your computer. NEWEA hopes to begin the new online program by September 2021. What's different is Written Certification Exams will not be offered as part of the training courses, as done in the past. Later this year, once the roll out of the online program is functioning, there may be options for NEWEA to schedule and administer in-person exam events in the six New England states as well. Further details will be available in the next few months on the NEWEA website and updates will be shared in the Collector, as well. Stay tuned for notice of when these measures will begin.

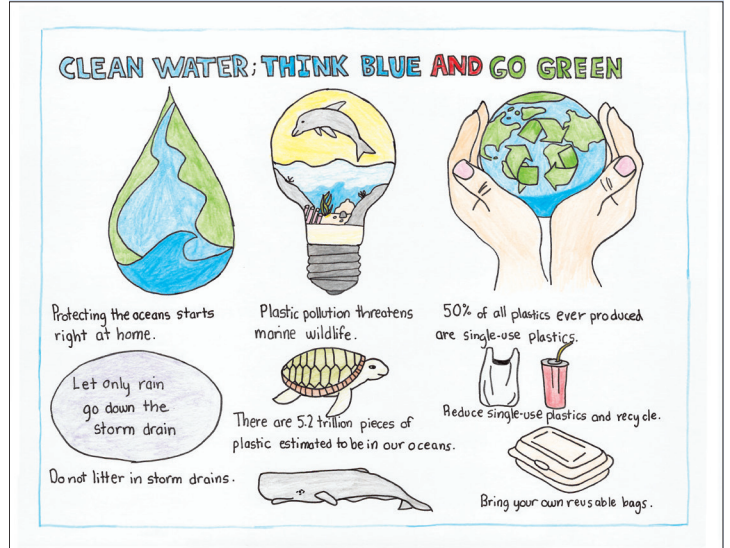
For more information, please go to the NEWEA Web link:
<https://www.newea.org/careers/certification/>

For future training, the NEIWPC and NEWETA trainers will continue to offer and schedule courses- either in-person (with class limits) and/or by virtual means. The Fall 2021 course schedules are available at the www.nhwpc.org , www.neweta.org and www.neiwpc.org.

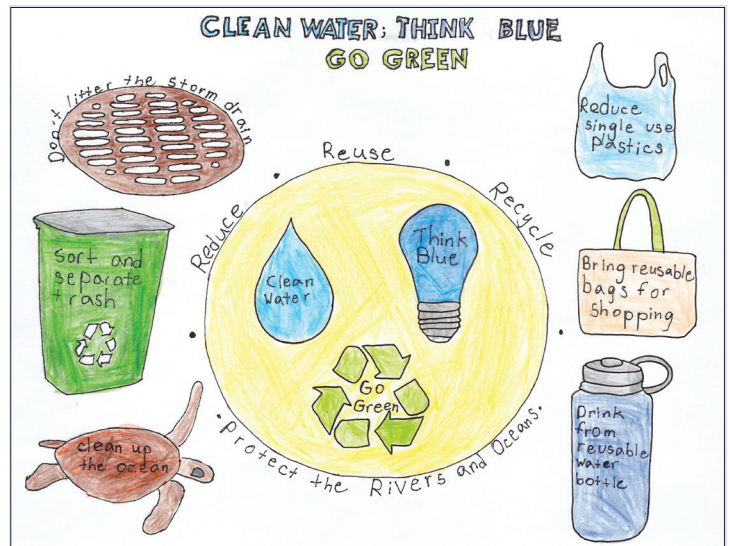
Clean Water Week Poster Contest

Every year for Clean Water Week, your Association organizes a poster contest for elementary school children in grades 1-6 and is proud to announce this year's winning posters. The contest is sponsored by NHDES and Monadnock Paper Mills donates recycled paper to print the winning

poster, which will be available to pick up at NHWPCA's October 1st Trade Fair.



Hannah Thomas, Grade 6, St. Christopher Academy



Basil Thomas, Grade 3, St. Christopher Academy

Let's Take a Step Back and Take a Moment to Understand the Why!

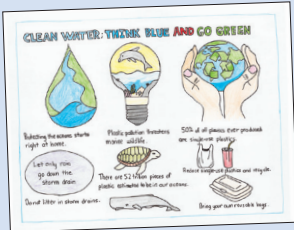
By Sharon L. Nall, P.E., NHDES WWEB and Sherry Godlewski, NHDES

As many of you know, the New Hampshire Department of Environmental Services (NHDES) Wastewater Engineering Bureau (WWEB) has been promoting asset management and energy

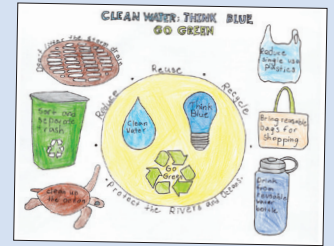
New Hampshire Clean Water Week

June 6-12, 2021

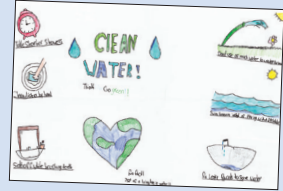
Clean Water: Think Blue, Go Green



Hannah Thomas, St. Christopher Academy, Grade 6



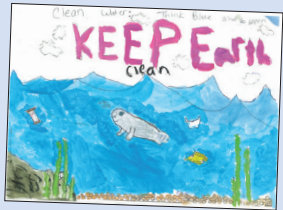
Basil Thomas, St. Christopher Academy, Grade 3



Lynden Crease, Newport Middle School, Grade 6



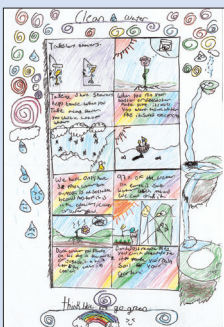
Abbey Barney, Westmoreland School, Grade 3



Zoe Naleid, VLACS, Grade 2



Glory Parker, Newport Middle School, Grade 6



Connie Yeingst, Newport Middle School, Grade 6



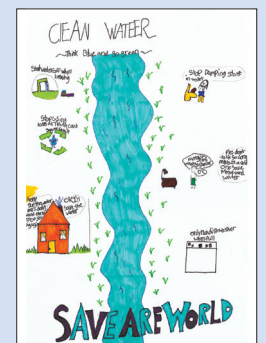
Cory Richardson, Newport Middle School, Grade 6



Hailey Hill, Newport Middle School, Grade 6



Logan Rusin, Newport Middle School, Grade 6



Zoey Michaud, Newport Middle School, Grade 6

2021-2022

August 2021						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September 2021						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

October 2021						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

November 2021						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December 2021						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

January 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

February 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

March 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

April 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

May 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

June 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

July 2022						
Sun	Mon	Tues	Wed	Thurs	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Special Thanks to Our Sponsors and Organizers:



Organized by: The New Hampshire Water Pollution Control Association
Printed on Recycled Paper Courtesy of: Monadnock Paper Mills, Bennington, NH
Sponsored by: The New Hampshire Department of Environmental Services



efficiency for several years now. But do you know and understand the “why” behind these programs? Let’s take a step back for a moment and talk about the “why”.



Our push for asset management and energy efficiency, and coming soon, flood and drought resiliency, is founded in taking a critical look at our work through a climate change lens. Once we evaluated all of our work through this lens, we developed these programs to help our regulated communities take steps to both mitigate climate change and to adapt to climate change impacts. With wastewater treatment plants (WWTPs) being intensive energy users, energy efficiency followed by, or in combination with, renewable energy, helps to mitigate climate change by reducing greenhouse gas emissions from power plant energy production. With WWTPs typically located on river banks in low lying areas, flood resiliency will be an important adaptation measure. As we have seen in recent years, drought resiliency will also become more and more important. Droughts can result in reduced infiltration and inflow (I/I) to the WWTP, which is a good thing in general. However, with that reduced I/I, the influent flow may be much more concentrated and may potentially require additional aeration capacity to treat. Through asset management, we want to help you prepare for all of the extreme conditions headed our way.

You will hear more about asset management in this issue as well as future Collector issues from Eliza Morrison. However, in the spirit of stepping back and looking at the bigger picture of “why”, let’s look at how it all fits together. As we break down climate change actions into either mitigation or adaptation, both of which we need to examine, we can focus in on asset management as the central key. Through a well-

developed and implemented asset management program, wastewater infrastructure owners and operators will have the data needed to identify vulnerabilities and to make strategic equipment repair, replacement, revision or removal decisions.

Last month, Sherry Godlewski and I provided a training webinar focused on extreme weather events in New Hampshire. Sherry has spent many years communicating the science of climate change in an understandable way and is an asset for NHDES and NH’s communities. During this training, Sherry explained the connection between the extreme weather events we are experiencing and their subsequent connection to climate change. She also shared projections of where we are headed in the not-too-distant future. The picture she painted was sobering to say the least but also highly motivating because we can, collectively, make a difference.

To give you a picture of how much extreme weather has become the norm, take a look at these two graphics. Extreme weather used to mean we had a named tropical storm or a hurricane headed our way. However, as you may have noticed just this summer, we had the hottest June on record, followed by the wettest July on record. And the July storm that just recently caused catastrophic flooding all over southern NH? That was just a rain event, no big named storm!

NH Presidentially-Declared Extreme Weather Events

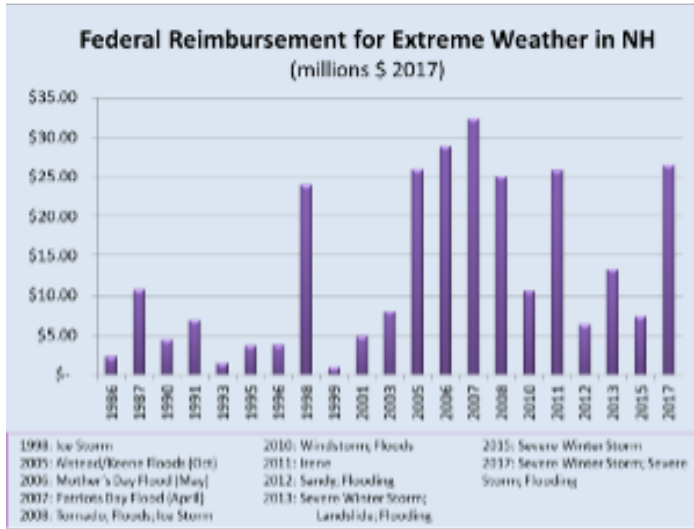
- 1953-2002 (50 Years)
 - 15 Disaster Declarations
 - 3 Emergency Declarations
- 2003-2018 (16 Years)
 - 21 Disaster Declarations
 - Hurricane
 - Tropical Storm
 - Severe Storms
 - Fall Snow Storm
 - Flooding events
 - Winter Storms
 - Landslide
 - Tornado
 - 10 Emergency Declarations



Ashtons Brook, Rochester, NH, May 2006



Somersworth Drinking Water Treatment Facility, May 2006
FEMA.gov



And let's talk about the heat and humidity for just a minute. Personally, heat and humidity are two of the reasons I moved north after growing up in Houston, Texas! I wanted to get away from those extremes so I am not ready for them here in New Hampshire. I don't know about you but when it gets hot and humid, I get cranky!

From AccuWeather and NOAA reports, the following statistics are available. You have probably already noticed that increasing numbers of days over 90 degrees are happening, but more significantly...

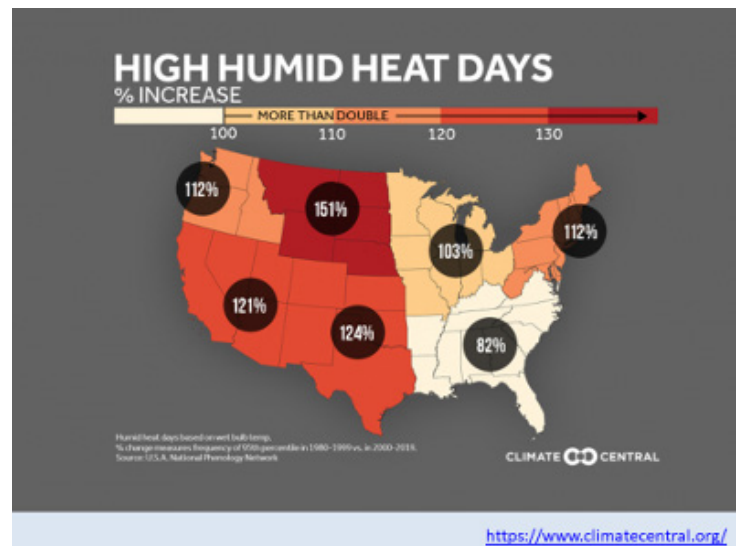
- Nighttime temps are increasing at a faster rate
- From 1940-2017 minimum temperatures have increased by 2.5 degrees F (statistically significant)
- Reducing night time cooling can have serious health effects
- Concord had its 4th hottest summer on record with 25 days above 90o F in 2020
- Manchester had 32 days above 90o F in 2020 usually less than 10 (since 1980)
- Humidity in the Northeast has crushed records
- Not going to change – will continue to move in this warmer than average direction

Heat and humidity are especially dangerous for work crews and operators that don't have the

opportunity to get out of the heat, don't hydrate adequately and can't cool down. When the air is really humid, I really just want to join Rudy here in front of the fan, not moving! Rudy is Sherry's very cool cat who also gets cranky in the hot humid weather.



And we are not the only area of the country seeing an increase in hot humid weather according to the map below.



As we prepared for the extreme weather events class, we were surprised at how readily available stories and photos were of flooding events that compromised or threatened to compromise

valuable wastewater infrastructure.

So, although this is a very quick explanation of the “why” we are pushing asset management and other tools shown below that make asset management the “umbrella of effective utility management”, we hope this gives you a better understanding of how the programs all fit together to help you effectively protect, maintain and operate your wastewater infrastructure for years to come.

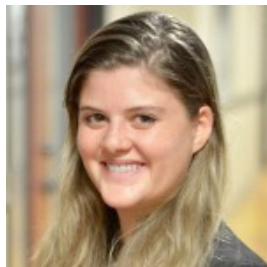


To learn more about the our programs that are available to help you adapt to and mitigate climate change, contact us at sharon.nall@des.nh.gov, sherry.godlewski@des.nh.gov or eliza.morrison@des.nh.gov.

Asset Management Article Series – Introduction and Core Elements

By Eliza J. Morrison, NHDES WWEB

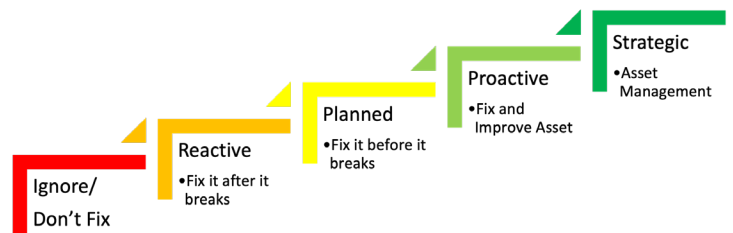
Hello NHWPCA members! My name is Eliza Morrison and I recently accepted a job back in April at New Hampshire Department of Environmental Services (NHDES) as a Sustainability Engineer in the Wastewater Engineering Bureau. I’ll be assisting Sharon Nall with the Asset Management programs, and supporting the sustainability of New Hampshire’s wastewater infrastructure through asset management, as well as climate change mitigation and adaptation. You might have seen my face around at the NHWPCA golf tournament,



or from my previous position at Wright-Pierce out of the Manchester office. When I’m not working, you can find me in my vegetable garden or enjoying a Safe Space at Concord Craft Brewery! Oh, and just a fair warning, my last name is changing in October to Styczynski, so free asset management advice if you pronounce it correctly when I see you around!

It is hard to believe that the NHDES Water Division has been promoting asset management for almost 10 years now! To continue to get the word out, I’ll be producing a series of articles for The Collector to cover asset management topics, including each of the core elements. I’ll go into definitions, as well as tips, examples, additional resources and general ways to move forward with asset management. To start things off, I’ll start here with a general introduction to what asset management is, and the benefits of developing a program. With that being said, stay tuned for future articles as I dive deep into ways to aid in the development or maintenance of your program!

When it comes to aging infrastructure, the age-old saying “if it isn’t broken, don’t fix it” doesn’t really apply. Our assets may not be completely broken yet, but our aging infrastructure certainly needs our attention right now. It’s only due to the dedication and resourcefulness of our operators that our infrastructure continues to operate as well as it does. By creating a shift in the industry from “reactive” management of assets to “strategic” management, this will help increase the impact of community infrastructure investments. This is an important step toward building sustainable communities. Asset management does not just stop at water infrastructure either, but moreover could be utilized to proactively manage all assets throughout a community.



By developing an Asset Management Program (AMP), a mindset shift can then take place. NHDES

recognizes the need and benefit of providing assistance to communities for the development and implementation of these AMPs. The primary goal of this assistance is to improve the long-term sustainability of water, wastewater and stormwater systems throughout the State.

The development and implementation of an AMP can help reduce operating risks and address infrastructure challenges as the infrastructure continues to age and deteriorate. Asset management enables a community to examine the need for each asset as well as the performance of the assets. Asset management is about delivering a specified level of service to customers at an optimal life cycle cost and an acceptable level of risk with a strategy that ensures long-term sustainability of public assets. This, in turn, allows owners and operators to self-evaluate their needs and funding strategies.

Below are some examples of outcomes that can be generated through an asset management program:

- Extending asset life and making data-driven decisions about rehabilitation, repair, and replacement
- Meeting user demands with a sustainability focus
- Determining rate adjustments based on sound operational and financial planning
- Budgeting focused on critical activities
- Meeting level of service expectations and regulatory requirements
- Improving emergency responses
- Reducing overall costs for both operations' and capital expenditures

To get started with asset management, there are five core elements that all play a crucial part when developing a program (shown below). In the next article, I'll get into asset inventory, and give examples of different approaches used around the state.

global expertise delivered locally

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

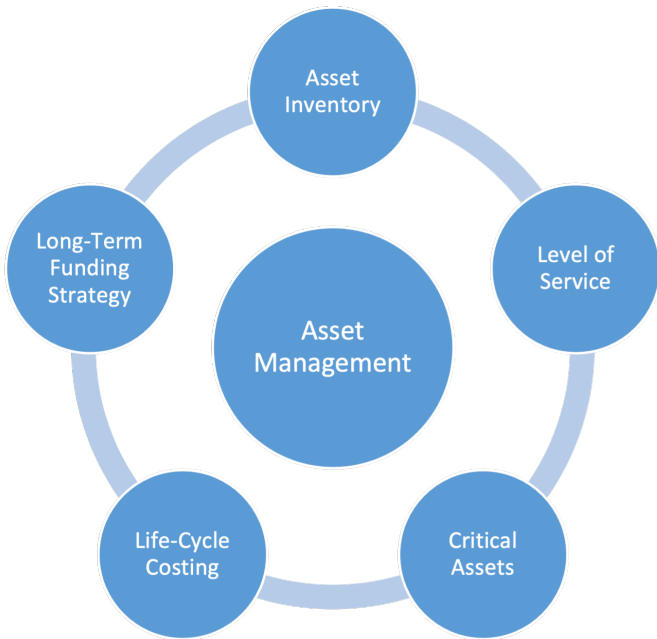
Scott Kelley

855-526-4413 | ask@suez.com

www.suez-na.com



An ISO 9001:2015 Quality Assured Company



NHDES is also excited to announce that we will be holding our regular in-person all-day Asset Management Workshop on December 16th, 2021. Keep an eye out for more information soon!

Feel free to reach out with any questions and visit our website for more information about Asset Management and funding opportunities (<https://www.des.nh.gov/business-and-community/asset-management>)!

Eliza.J.Morrison@des.nh.gov
603-271-1989

President’s Corner

Mike Carle, NHWPCA 2021 President

If last year was an exercise in dealing with uncertainty, this has been a year to regroup. Zoom has certainly made it easier to connect remotely but is no substitute to having a beer at Ellacoya and a good game of cornhole with everyone.



With Zoom meetings becoming the norm, new collaborations have become easier. Started by the former head of the DES Water Division, Tom O’Donovan, we have been working closely with

NHMA, NHWWA, and GSRWA to advance water infrastructure both at the state and national levels. Some of the areas we have been working on are ARPA funding, Wipes, PFAS, and how treatment plants have dealt with COVID.

The Association was able to successfully introduce legislation to limit the cost of wetlands’ permitting.

We worked with DES to amend shellfish rules to allow for alternative testing methods for detecting fecal coliform bacteria.

The second half of the year promises to bring more good stuff. Actual in person meetings and fun stuff like the Golf Tournament, the Trade Fair on October 1st in Manchester, and the Winter Meeting on December 10th in Portsmouth. In addition to our public events, the board and committees are hard at work with some behind the scenes initiatives. The Membership Committee (consisting of Aaron Costa) was able to make progress on one of the issues we’ve been working on for a while, offering different membership options including a Group Membership and an Affiliate Membership for larger groups and vendors. The Government Affairs Committee are hard at work getting prepared for the next legislative session, with wipes’ labeling legislation, SAG funding, and a push to recognize wastewater workers as essential personnel. Look for changes coming up on our web site too. Ken Conaty, Mary Jane Meier, and Dee Rainville have taken a look at how we can make visiting our site a more useful experience.

Lastly, in the coming months the board will be making some much needed updates to the Association constitution. Many of the changes are to clarify language and to update things that have changed over the past 50 years since it was written. Some of these changes include allowing for electronic voting, and eliminating references to the old grade V licenses. Once we finalize the details both the old and new constitution will be up on the website for everyone to look over. All members will have a chance to vote at the December meeting.

I’m looking forward to seeing you all again soon.



Retiree Rave

We continue our salute to the wastewater and drinking water operators and administrators who are now enjoying retirement. Our newsletter committee would appreciate hearing from our readers to expand this list so we can recognize our loyal, hardworking associates and friends. Perhaps we can develop Association activities based on the retiree interests, too. Please email your ideas and information to info.nhwPCA@gmail.com and use the words in the Subject line 'Retiree Rave Information'

Art O'Connell retired in June 2021 with 30 years of service at the WRBP facility in Franklin, NH and almost 30 years as a NH Certified Wastewater operator. Special thanks to Art for his service to our country in the US Army. He and Ken Noyes shared an office space and operations' experiences. Their team persevered through many upgrade projects and improvements, managed to keep making clean water and go on to receive awards for their outstanding diligence and operation of the WRBP plant. Over the years, Art enjoyed leading tours of the Franklin facility with visits from new operators, school age kids and college students. He enjoys hunting and fishing and looks forward to retirement. We hope he will stay in touch and wish him all the best.

Eric Swope retired from the City of Keene in July 2021 after 21 years of service in the Industrial Pretreatment Program (IPP). He is a 15-year member of NHWPCA. Eric began his career as an IPP Technician joining the Dynamic-Donna-Hanscom-Led-Team at the City of Keene. Within two years he earned the title of Program Coordinator. In recognition of his program's success, Keene earned the 2019 EPA Industrial Pretreatment Excellence Award. The IPP staff was recognized for exceptional work inspecting, permitting, and sampling industrial users that discharge industrial waste into the collection system and for providing invaluable public service. In Eric's own words:

"I work with local businesses and organizations

to protect surface waters, wastewater infrastructure, and worker and public health and safety by controlling the discharge of pollutants into the sanitary sewer system. I also work for surface water, groundwater, and stormwater pollution prevention/water quality protection through environmental monitoring and public education. Public education efforts often include collaboration with school groups and individuals, from elementary through university."

Throughout his life, he has practiced environmental stewardship, way before it was COOL. Through his past and current efforts, he helps educate people of all ages about the need to protect the environment. With a perfect mix of musical and theatrical talents, his success with public outreach is impressive. Of course, he says he does not act alone in this regard. Aaron Costa and Mary Ley of Keene share in making the program a success. And as a bonus to the entertainment, people actually learn about the organisms and life supported in our streams and the need to preserve and sustain water quality locally and globally. Our readers are invited to search some of Eric's videos on YouTube. Don't miss it!

Among Eric's memorable moments, he recalls an incident involving an ISCO Sampler. The Sampler tube had a blockage and a fair amount of pressure had developed in the line. As Eric was freeing the clog, the Sampler became a Poop Gun, and "instantaneously splattered his clothes." It was A Real Blast! And witnessed up close and personally by Aaron. Eric believes his success has been built on the many contacts he's



made in his career. Through collaboration with his coworkers, Keene State College, and many others, lots of great ideas for outreach events and programs were launched. Seeking assistance through the Digital Film instructors helped add a creative approach and nuance to education on all levels.

Eric's wife and two daughters are environmentally focused with careers as educators and engineers. They are making a positive impact locally and as far away as the Boundary Waters of Minnesota. As



he looks forward to his retirement, he will remain active among the local outreach projects with Keene State's Sustainability programs, especially their Storm Drain Mural project. He will continue his volunteerism with Keene's Immigrant and Refugee Partnership "Project Home" and "Healthier Monadnock" as well. Their goal is to create a welcoming environment to immigrants and offer partnership on their journey.

Pretreatment Tales

The New England Pretreatment Coordinators Association (NERPCA) was incorporated in August 2014 to assure that all of the pretreatment professionals within the EPA Region 1 borders are invited members, fully represented, and have an equal voice in the planning and other training activities coordinated by the Association. The Executive Committee consists of elected officials from POTW pretreatment programs from several of the Region 1 states: Maine, Massachusetts, New Hampshire and Rhode Island. Their primary function is the planning of the Annual Conference, assuring that education to pretreatment professionals continues.

Like so many other events during the pandemic, NERPCA's 2020 annual conference was 100%

For years to come, a question will remain.... "Why have we never seen a photograph featuring both Eric Swope and Plunger Man shaking hands?"



virtual. This year, the NERPCA board worked really hard on an awesome agenda for a multi-day conference. Speakers on various up-to-date IPP topics, panel discussions, break-out sessions, case studies, vendor booths and a networking reception, along with an optional half-day session called Pretreatment 101 for Coordinators who are new to this exciting field were all on the agenda.

And then the Delta variant caused COVID19 cases to rise again. And EPA curtailed employee travel for training. And we started hearing from various municipalities/states/vendors in our region that they were also not allowing travel. And we made the decision to cancel our in-person conference. Was it a difficult decision? Yes and No. No, it really wasn't difficult because we can't predict what protocols will be in-place in October. No, it wasn't difficult because we have been hearing that other Regional Pretreatment Associations are cancelling their in-person conferences for the same reasons. Yes, it felt difficult because

we really, really wanted to be in-person. Yes, it felt difficult but we couldn't really afford to wait longer to make a decision.

As this newsletter goes to print, the NERPCA board is working hard to change the in-person agenda into a virtual agenda. The virtual conference will have a lot of great training topics and is definitely worth the time to attend.

Check out NERPCA.org for all the details and a registration link to this year's conference.



Residuals Report

Municipal Septage Agreements

The Clean Water Act has provided the structure for the successful development and operation of many facilities throughout the state of New

BECOME A 2021 SPONSOR AND/OR ADVERTISER

Sponsor Opportunity: Your company's name, logo, contact person and phone number will appear in four quarterly issues of the "The Collector" in a special section designated for the newsletter sponsors!

Your company will receive a copy of each newsletter.

Advertisement Opportunity: New this year - a business-card, 1/4 page or 1/2-page advertisement can be published once, twice, three or even four times! *Your company will receive a copy of the newsletter(s) containing your advertisement.*

For maximum exposure for your business to 400+ wastewater professionals consider both a sponsorship and an advertisement!

Type of Ad (choose which issues by checking the boxes)

- Business Card Ad (3.95"W X 2.5"H) \$80.00 per each issue
- ¼ Page Ad (3.95" W X 5"H) \$130.00 per each issue
- ½ Page Ad (3.95" W X 10 "H) \$255.00 per each issue

DEADLINE: Rolling deadlines for 2021 are 2/1, 5/1, 8/1 and 11/1.

Please direct all advertising copy and graphics, as well as payment questions to:

Dee Rainville at: 603.228.1231 or info.nhwpc@gmail.com

Please mail payment to: NHWPCA, 17 Depot St. Suite 3, Concord, NH 03301

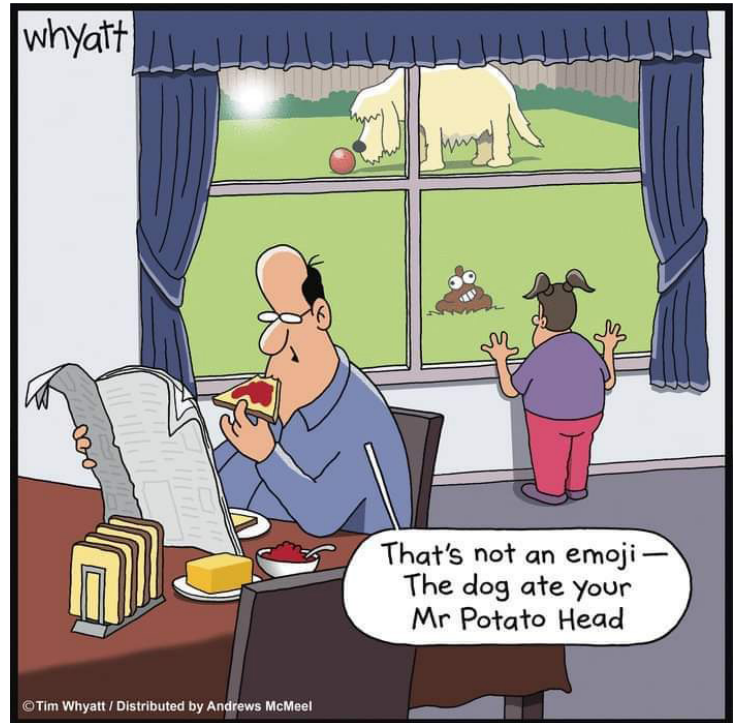
or pay online here: <https://tinyurl.com/nhwpc2021newslettersponsors>

Hampshire, resulting in major improvements to the water quality of the region. With such a strong rural population, many NH residents don't have direct access to these wastewater treatment facilities (WWTFs) through a collection system, and instead rely on on-site septic systems. These systems must be serviced and pumped periodically to ensure proper continued operation. Pumped septage volumes are transported to WWTFs by haulers permitted through the Residuals Management Section of NHDES. Acknowledging the importance of this relationship, NH RSA 485 A:5-b 'Municipal Responsibility' requires that "Each municipality...either provide, or assure access to, a department of environmental services approved septage facility or a department approved alternative option for its residents", with the phrase "provide, or assure access to" meaning "a written agreement with a recipient facility, or department approved alternative option, indicating that the recipient facility agrees to accept septage generated in that municipality". This helps to ensure that each municipality has an agreed upon destination for this waste stream, which has climbed to a total volume of over 115 million gallons per year. Written agreements help WWTFs, and NHDES, understand septage receiving needs with respect to facility capacities. Having current agreements in place to receive septage can also help subject WWTFs access improved financing for infrastructure improvement projects. Historically, many of the agreements would have a term of 5 years, and would need to be renewed following that period. This renewal process resulted in some administrative burden, for the contributing towns and the WWTFs, especially when there hadn't been any substantial changes over the prior 5-year term. So many current agreements have transitioned to open-ended agreements, which do not specify a term, and instead are ongoing until one of the parties decides to request a change. As NH's rural population continues to grow, so does the importance of the assurances to contributing towns provided by these agreements. And as these septage volumes grow, they provide an important revenue stream to the WWTFs built and operated to receive this material, providing a direct benefit to the community and the environment. For questions

about agreements you can contact Wade Pelham at the NHDES Wastewater Engineering Bureau, at (603) 271-2818 or wade.pelham@des.nh.gov.



To make you smile...



Safety Corner

Whatever happened to near misses?

By Patty Chesebrough, NHWPCA Safety Committee

We'll never replace Chris Hipkiss, but the NHWPCA Safety Committee would really like to carry on his legacy of providing a Near Miss article in every Quarterly Newsletter to help keep our membership safe. We can't do this without your help! It's been over two years since we've received any Near Miss reports from the membership. We all know Near Misses occur every day in our industry, so let's return to sharing these incidents to help prevent injury of our fellow operators!

The National Safety Council (NSC) defines a


KATE BIEDRON MEMORIAL FUND




Established in May 2020 in partnership with CDM Smith, the Kate Biedron Memorial Fund honors the memory of Kate Biedron, an active NEWEA and industry leader, professional engineer, mentor and friend. This memorial fund will sustain initiatives that Kate supported and promoted throughout her career, including environmental education, academic mentorship and scholarships, and advocacy for diversity and inclusion in the water sector.

Kate was a dedicated water professional and longtime NEWEA member and leader. She graduated from UMASS Amherst, earned her Civil/Environmental master's degree from UMASS Lowell, and spent her 15-year career with CDM Smith. Within NEWEA, Kate was an active member and sought-after leader on many committees, serving as the Chair of the Public Awareness and Registration Committees and as the Director of the Meeting Management Council.

DONATION LEVELS



FEEL THE LOVE
\$1 – \$99



**WOOOOO
HOOOOO!!!**
\$100 – \$249

- Recognized on the website




KICK BUTT
\$250 – \$499

- Recognized on the website
- Sent a Kate Window Decal (1)




A-TEAM
\$500 – \$999

- Recognized on the website
- Sent Kate Window Decals (2)




SEWER GIRL
\$1,000 – \$2,499

- Recognized on the website
- Sent Kate Window Decals (4)



YOU ROCK
\$2,500 – \$4,999

- Recognized on the website
- Sent Kate Window Decals (10)



SUPERSTAR
\$5,000 +

- Recognized on the website
- Sent Kate Window Decals (25)



Near Miss as, “an unplanned event that did not result in injury, illness, or damage – but had the potential to do so. Only a fortunate break in the chain of events prevented an injury, fatality or damage.” Safety professionals widely agree that the majority of serious injuries were preceded by some form of Near Miss or other observable warning sign. How many times have you thought to yourself, “holy ****, that was close!”? Well, those are Near Misses, and you should be reporting them to your employer so that the hazards can be mitigated before resulting in a more serious incident. After you report it to your employer, please send an email to the Safety Committee, via pchesebrough@neiwpsc.org, letting us know what happened so that we can share it with fellow operators across the industry. All reports are kept anonymous.

Since many of you are now thinking, “I’m not doing that because my boss will ...”, we’ll take a moment to speak to supervisors and managers as well. One of the most critical factors in Near Miss reporting, as well as accident reporting as a whole, is that employers need to prevent negative repercussions that discourage reporting. If workers fear repercussion, they won’t report Near Misses, and even minor to moderate injuries. These repercussions can include verbal or written warnings, assignment of additional work to correct hazards, negative response or attitude from supervisors (e.g., “why are you bothering me with this?”), and many other negative reactions that discourage reporting. Just like accident reporting, supervisors, managers, and safety teams need to find incentives to reward Near Miss reporting. After you receive a report,



please send an email to the Safety Committee, via pchesebrough@neiwpsc.org, letting us know what happened so that we can share it with fellow operators across the industry. All reports are kept anonymous.

Sensing a theme yet? We certainly hope so. So, the next time you think, “holy ***, that was close!”, send us an email. You could save a fellow operator from a serious injury, or even save a life! Please share your Near Misses.

For more information on Near Miss reporting and ways to use Near Miss reporting to improve the safety program at your facility, please see the cooperative alliance fact sheet from OSHA and NSC here: <https://nsccdn.azureedge.net/nsc.org/media/site-media/docs/workplace/near-miss-reporting-systems.pdf>

This article is brought to you by the NHPWCA Safety Committee. If you or someone you has had a Near Miss, please let us know by sending the incident to Patty Chesebrough at pchesebrough@neiwpsc.org. All submissions are confidential. Thank you in advance for your submissions.



By Stephanie Rochefort, Somersworth WWTF

There’s been ANOTHER Method Update Rule (MUR). This just makes me feel old... I remember MURs that I anxiously awaited and MURs that were a lot of work to implement. I remember MURs that needed training sessions to understand and MURs that were easy-peasy. This MUR is just lousy timing for me here in Somersworth. If you’ve ever been at a facility during an upgrade, you’ll totally understand. There’s noises and vibrations and noisy vibrations. And interruptions! No, I can’t move my vehicle immediately, unless you’re willing to accept that in the lab-world, the definition of immediate is within fifteen minutes. After that conversation, which was actually okay when I explained what I was doing, I decided that I’m going to use the fifteen-minute definition of

immediate for many other things in my life. It's not just for pH and TRC hold-times! You think?

This latest MUR became effective July 19, 2021. There's a list of stuff to do whenever there's an MUR. So, this is what I did.

1. Check out if any of the methods that I use have changed. Table 1A lists methods for e-coli and yes, IDEXX is still approved. Table 1B lists all my other parameters. Ammonia, TRC, pH and total Phosphorus are all still listing 2011 Standard Methods as the approved methods. Big sigh of relief. But TSS is listed as 2015 now and BOD as 2016. Yikes, I've got some work to do!
2. Make sure that I have a copy of each approved method. Luckily the 2015 TSS method and the 2016 BOD method are both included in the 23rd edition of Standard Methods and I have the book.
3. Painstakingly compare the previous (2011) methods to the newly approved ones and take notes of what has changed.
4. Update my lab SOPs to include any changes in the newly approved methods.
5. Train staff on these changes.
6. Update my bench sheets with the updated method reference.

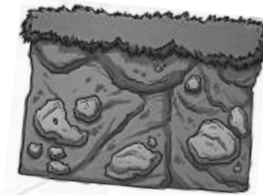
There are several changes and improvements that I found in the 2016 BOD method. The method now actually states that it's acceptable to use disposable plastic BOD bottles and there's a list of probes to use to measure D.O., including optical. The wording about hold-time is clearer. There are changes in the section about the dilution water quality check. The 2011 method states to incubate one or more bottles for this check, the 2016 method says two or more. The 2011 method states to discard the batch if the dilution water quality check depletes more than 0.2 mg/l, the 2016 method says to clearly identify such samples in data

records. Overall, I like the way the 2016 method reads and found it easy to make this update.

The 2015 TSS method also has several changes/improvements. 2540A lists QC requirements, the previous method referred us to 2020 for QC. A funny little change that I noticed is that the apparatus list in 2540D now lists forceps, where that wasn't previously on the list. A happy change that I noticed was no more repeating the prep cycle to constant weight!!! The sample analysis section has lots of differences, and they're all good! This narrative section is much easier to follow. If previous MURs had consisted of such positive changes, I wouldn't have dreaded this one.

Solutions in a flash

Dd

**DIRT**

[durt]

Cc

**CEMENT**

[si-ment]

Pp

**PIPES**

[pahyp]

Ee

**ENGINEER**

[en-juh-neer]

civil & environmental engineering
www.underwoodengineers.com



New Hampshire Water Pollution Control Association - Celebrating 54 Years!
2021 Annual Trade Fair
Friday, October 1, 2021

June 2021

Dear Friends of NHWPCCA:

The NHWPCCA's Annual Trade Fair will be held on Friday, October 1, 2021 at DoubleTree by Hilton Hotel, Manchester, NH. Last year's fair drew many exhibitors and enthusiastic attendees, despite COVID challenges. We invite you to participate by displaying your products and services to our members and guests.

EXHIBIT AREA: Exhibits will be displayed in the Armory of the DoubleTree by Hilton Manchester from 8:00 a.m. to 1:00 p.m. **The Exhibit area is limited capacity, so please register early.**

The exhibit area will be available to exhibitors for set-up after 5:00 p.m. the night before on Thursday, September 30, 2021 or 7:00 a.m. on Friday, October 1, 2021. Complimentary continental breakfast will be served for exhibitors during set-up on Friday morning. NHWPCCA volunteers will be available to assist you with your booth locations.

EXHIBIT SPACE: **Exhibit spaces will be assigned only when payment for the space is received.** Spaces will be assigned in the order that registrations with payments are received, on a first come, first served basis, and best accommodating Exhibitor's preferred booth location. Please note that electricity is available for an additional cost but is not available to all booths. Please see the attached booth layout plan.

LUNCH: Banquet Buffet: Lunch will take place in the Pemigewasset Room at the Double Tree around 12:00 pm, for which you may register separately. Add the appropriate fee noted on the registration form for participation in the luncheon.

ACTIVITIES: The NHWPCCA raffle will be held after lunch. All exhibitors are encouraged to participate and increase your company's exposure by donating a raffle prize.

TECHNICAL SESSIONS: There will be two technical sessions offered concurrently during the open exhibit time.

EXHIBIT FEES: (Please note: you must be an Affiliate Member for that pricing.)

Affiliate Member Discounted Rate:	\$400.00 postmarked on or before <u>September 16, 2021</u>
Affiliate Member Regular Rate:	\$450.00 postmarked after <u>September 16, 2021</u>
Non- Affiliate Member Discounted Rate:	\$600.00 postmarked on or before <u>September 16, 2021</u>
Non- Affiliate Member Regular Rate:	\$650.00 postmarked after <u>September 16, 2021</u>

Electrical charges are \$75.00 per connection, please note on registration form

PAYMENT INFORMATION: **All** completed registration forms with payment must be postmarked by, September 16, 2021.

ACCOMODATIONS: The DoubleTree by Hilton Manchester has set up a discounted room rate of \$149.00 per night plus tax. Please register online here: <http://group.doubletree.com/WPC>. The code is: CDTWPC.

We look forward to seeing you at the NHWPCCA 2021 Trade Fair. If you have any questions, please do not hesitate to contact the Association representatives listed below. Thank you for supporting the Association's efforts.

Sincerely yours,

Ryan Peebles
 1st Director
 802-222-1762

Mike Theriault
 2nd Director
 603-606-4435

Dee Rainville
 Operations Manager
 603-228-1231

REGISTER ONLINE HERE: <https://tinyurl.com/NHWPCA2021VENDORS>



NHWPCA 2021 TRADE FAIR

October 1, 2021

DoubleTree by Hilton Manchester Hotel - 700 Elm St, Manchester, NH 03101

Exhibitor Registration Form

Celebrating 54 Years!

REGISTRATION DEADLINE: REGISTRATION & PAYMENT MUST BE POSTMARKED BY SEPTEMBER 16, 2021

REGISTER ONLINE HERE: <https://tinyurl.com/NHWPCA2021VENDORS>

Company: _____ Affiliate Member? _____

Contact Name: _____ Phone: _____

Person staffing booth: _____ Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Email contact: _____

Affiliate Members (See attached application form to become an Affiliate member):

-Please reserve _____ exhibit spaces at \$400.00 per space, **postmarked by September 16, 2021** \$ _____

-Please reserve _____ exhibit spaces at \$450.00 per space, **postmarked after September 16, 2021** \$ _____

-Please reserve luncheon tickets for _____ \$40.00 each (affiliate member) \$ _____

-Please reserve electrical connections for _____ booths at \$75.00 per booth \$ _____

Non Affiliate Members:

-Please reserve _____ exhibit spaces at \$600.00 per space, **postmarked by September 16, 2021** \$ _____

-Please reserve _____ exhibit spaces at \$650.00 per space, **postmarked after September 16, 2021** \$ _____

-Please reserve luncheon tickets for _____ \$55.00 each (non-affiliate member) \$ _____

-Please reserve electrical connections for _____ booths at \$75.00 per booth \$ _____

TOTAL \$ _____

Booth Preferences (see layout): First Choice _____ Second Choice: _____ Third Choice _____

Check #: _____ OR Card #: _____

Exp. Date: _____ Sec. Code _____

Name on Card: _____ Signature: _____

****Credit Card Billing Address (IF DIFFERENT THAN ABOVE):**

We will bring a prize for the raffle: _____ Yes _____ No

(raffle prize contributors will be generously recognized)

Tables will be assigned on a first come, first served basis, as payments and applications are received.

Vendors will be allowed to pick their spot on a first registered AND paid basis.

No booth will be assigned without payment--NO EXCEPTIONS

PLEASE MAKE CHECKS PAYABLE TO: "NHWPCA"

Return this application with payment to: NHWPCA - Trade Fair Registration
17 Depot St Suite 3
Concord, NH 03301

Contact Dee at info.nhwpc@gmail.com or 603-228-1231



WATER
POLLUTION
CONTROL
ASSOCIATION

17 Depot Street
Suite 3
Concord, NH
03301

NON PROFIT ORG.
U.S. POSTAGE
PAID
CONCORD, NH
PERMIT NO 1513

2021 NHWPCA Sponsors



Eastern Analytical, Inc
professional laboratory and drilling service

Jennifer Laramie
(800) 287-0525



UNDERWOOD
engineers

David Mercier
(603) 230-9898



STATEWIDE
AQUASTORE, Inc.
Premium Water and Wastewater Storage Tanks

Annie Wheeler
315-247-9344



AQUA
Solutions

Michael Loncoski
207-828-5559



HOYLE
TANNER

Joe Ducharme
(603) 460-5160



WRIGHT-PIERCE
Engineering a Better Environment

Tim Vadney, PE
(603) 570-7104



Tighe & Bond

F. Adam Yanulis
617-680-3091



BAU
HOPKINS

Gene Weeks
508-699-9300
www.bauhopkins.com



Pump
Systems
INCORPORATED

John Benham
(603) 934-7100



Mechanical Solutions
inc

For all your Pumping & Mixing needs !

Gary MacDonald
860-748-4380