

Roman Stone Leads The Way

On Tuesday, August 3rd at their Bay Shore location from 8:00 AM to 4:00 PM Roman Stone unveiled its first Annual Septic Trade Show. Most of the show was held outdoor in a tent and it turned out to be a perfect day weatherwise.

The event comprised of a wide variety of manufacturers and distributors and Advanced and Innovative Septic Systems demonstrating their products. There were also Training Classes resulting in TCH/CEU Credits.

For the over sixty attendees Roman Stone also included tours of their plant and even food and two ice cream



trucks. Plant tours did require

waivers to satisfy their insurance company. You can not be too safe there are always liability concerns.

The show comprised of over fifteen exhibitors including the Long Island Liquid Waste Association with our own booth. All and all it was a very encompassing group of vendors.

Our congratulations to the staff at Roman Stone for a job well done.

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PRESIDENT'S CORNER



Andrew Andriola

There is a light at the end of the tunnel, things will be back to normal soon. Yes I wish I had a dollar for every time I heard it and maybe even uttered those words myself over the past few years. This leads me to wonder what does that really mean, what is normal?

Since County Executive Steve Bellone announced his “War on Nitrogen” the septic industry in Suffolk began to evolve. Then came the pandemic and onsite septic systems, which Suffolk primarily depends on, suddenly required increased servicing due to age and increased usage. On top of that came the development of Innovative and Advanced low nitrogen yielding systems requiring increased training for servicing. A big change from our father’s septic industry.

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LILWA News is published quarterly by Act III Services. Contributions, including ideas, pictures and stories are welcome and should be forwarded to:

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Contributing articles are not necessarily the opinion of the Long Island Liquid Waste Association or Act III Services.

PRESIDENT'S CORNER

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The good news is most of our companies have had a banner year, however finding help has become more difficult and we must keep up with ongoing regulations. At LILWA we had to develop a Webinar for our Certification Program which according to the feedback we receive is more popular than the normal live all day program.

Unfortunately for the second year we have had to cancel our summer outing and holiday party due to safety and liability concerns. Even the LILWA Board of Directors Meetings have gone Zoom.

So, will we return to normal and is there such a thing? I believe that due to the total of all these issues our industry has to evolve. For the good or bad? Well, that remains to be seen and your opinion.

I would be remised if I did not congratulate Roman Stone on their first Septic Industry Show. LILWA was proud to take a table at the show which was maned by Nancy from our office. Having a Septic Show in our backyard was a breath of fresh air. Bravo.

Andrew Andriola
President



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UPDATE

Nitrogen Removing Biofilters

The Center for Clean Water Technology (CCWT) is continuing to develop non-proprietary, onsite wastewater treatment systems for residential and commercial use that reduce nitrogen to below 10 mg/L. The CCWT currently has three variations of for Nitrogen Removing Biofilters (NRBs) that are adaptable to site constraints, depth to groundwater and degree of desired nitrogen removal.

The CCWT (the 'Center') was recently granted pilot status by Suffolk County Department of Health Services for permitting two of its three designs for NRBs. The two designs being piloted are the unlined and lined NRBs. Eight installations of unlined NRBs have been installed to meet the minimum requirements for the pilot evaluation to attain provisional status for this design. The eight installation of the lined NRBs are expected to be completed in the fall. The Center expects its third NRB design, a sand bed coupled to a box filled with woodchips, will complete experimental phase testing by year end.



NRBs remove nitrogen and other pollutants from wastewater by nitrification in a sand bed followed by denitrification in an anoxic (oxygen free) sand/woodchip biofilter. Woodchips provide a source of carbon which converts nitrates to nitrogen gas that is then safely released into the atmosphere. Lined systems keep the wood-

(Continued on page 6)

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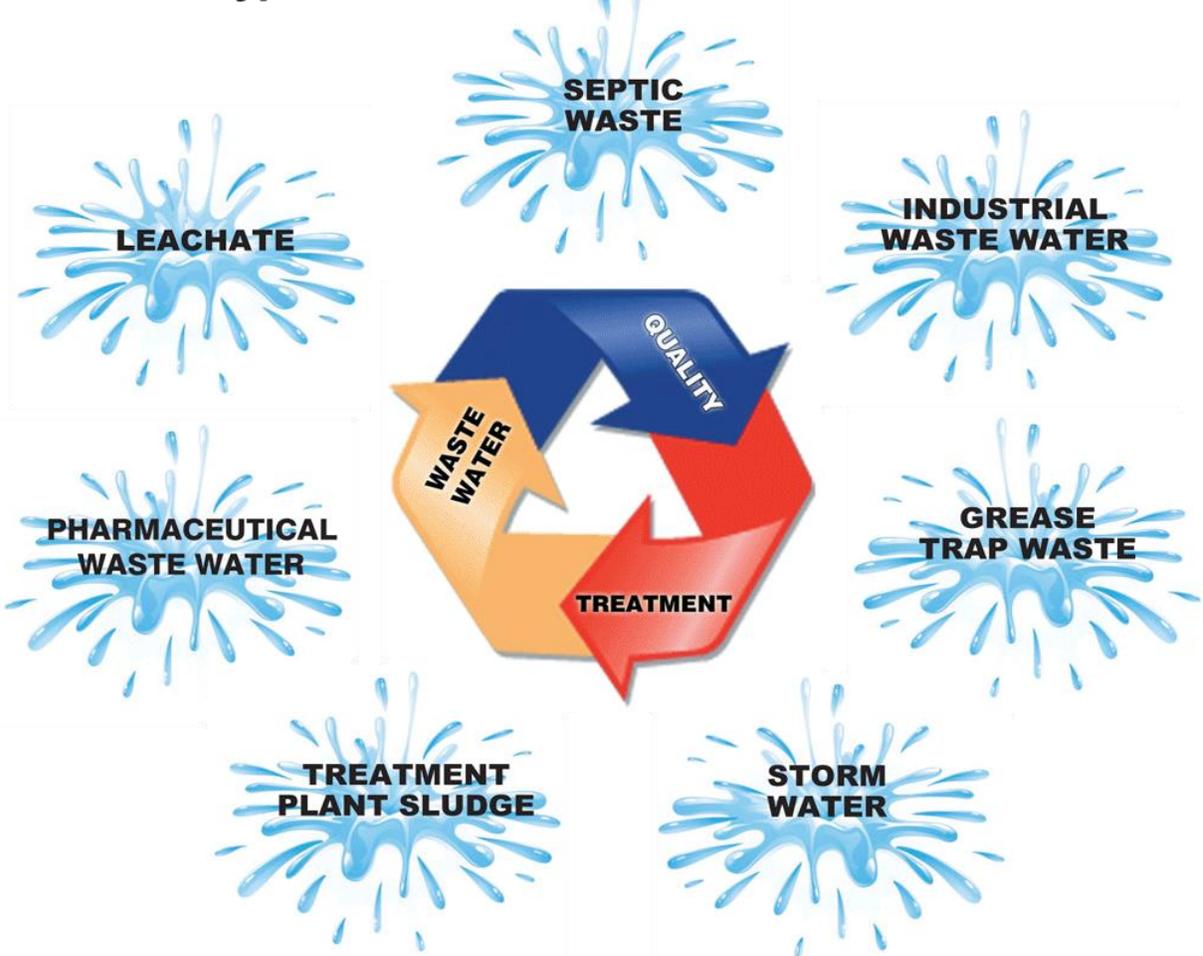
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Roman Stone Leads The Way

(Continued from page 1)

The feed back we have been experiencing has been nothing but positive.

Roman Stone is planning to make this an annual event.





UPDATE

(Continued from page 3)

chips completely saturated whereas unlined systems expose woodchips to repeated wet/dry cycles. The Center has monitored such systems in-ground for five years and believes continuous saturation results in improved denitrification in lined NRBs compared to unlined NRBs but at a higher cost of installation.

During and following the COVID pandemic, the Center has observed higher nitrogen (TKN) in septic influent in its Suffolk County installations. In spite of the higher nitrogen loading, the Center's systems continue to achieve much lower nitrogen in final effluent than required by Article 19.

Bulkhead Permeable Reactive Barrier at Hampton Bays

Funded by the Community Preservation Fund and the Town of Southampton the first full-scale bulkhead Permeable Reactive Barrier (PRB) was installed in 2020 in Hampton Bays. The project is a collaborative effort between the Cornell Cooperative Extension Marine Program (CCE) and the Center for Clean Water Technology. The 100 feet wide and 10 feet deep woodchip-based subsurface barrier intercepts nitrogen polluted groundwater flowing towards Shinnecock Bay and provides conditions conducive to microbial mediated denitrification. The PRB is expected to remove more than 1.5 metric tons of nitrogen over the next 20 years.



Groundwater nitrogen removing technologies will be critical to reduce eutrophication of Long Island's coastal waters, because even if all septic systems on Long Island would be replaced innovative/alternative onsite wastewater treatment systems within the next few years, nitrogen that has accumulated in Long Island's aquifer over the past decades will continue to seep into our coastal bays in coming decades. Permeable reactive barriers have the potential to be a promising approach to deal with this "legacy nitrogen."

Shinnecock Indian Nation Septic System Upgrades

The Center continues to collaborate with U.S. Indian Health Services (IHS) to install NRBs at the Shinnecock Nation in Southampton. These installations include both unlined NRBs, woodchip box NRBs and several experimental systems using woodchip biofilters on a gravity-only basis. Installations at the reservation enable the Center to increase the number of in-ground replicates of each design which allows the Center to build a more comprehensive database, tracing system performance for these designs. Also, IHS has been creative and flexible in testing innovative designs especially in connection with gravity based solutions.

Nitrogen Sensor

A nitrogen sensor was developed by SUNY Stony Brook University faculty member Dr. Qing Zhu which simultaneously measures nitrate and ammonia in wastewater and final treated effluent. The sensor design has recently completed an ISO (International Organization for Standardization) field verification test sponsored by the EPA and assessed by global engineering consultants VerifiGlobal and Battelle.

There are plans for the nitrogen sensors to be used in Suffolk County through a partnership with The Nature Conservancy, to monitor innovative/alternative on-site treatment systems. Also, the Center and Dr. Zhu are now exploring different avenues for commercialization of the sensor

Executive Director Highlights



Linda
Perlow

So, it has now been over 5 years since the Suffolk County Department of Licensing began requiring on going education credits for New Septic Licenses and Renewals. My past experience with the establishment of the Home Improvement License years prior taught us it takes this many years or

more to establish 90 percent or more compliance.

There are many reasons for this. We are all very busy and those renewal dates seem to sneak up on us or we forget. Then there are those rebels who argue and fight it when sometimes its simpler to comply. Like all of you I also have occupational licenses that require renewals and ongoing education credits. I have learned to plan them well in advance and when it's convenient for my schedule.

It has been brought to my attention that If you are renewing an existing Suffolk County Liquid Waste License the generic form will be automatically mailed or emailed to you. If you have not received one and your renewal is approaching contact the Suffolk County Licensing Department **631-852-5808**.

If you are applying for a Suffolk County Liquid Waste License you will need a Liquid Waste License Application form CA-L22. For those of you who might need these forms they can be obtained at the:

SUFFOLK COUNTY DEPARTMENT OF LABOR, LICENSING AND CONSUMER AFFAIRS
725 Veterans Memorial Highway
Hauppauge, NY 11788

Or

You can download the forms through the certification page on our site www.lilwa.org.

As you may know we have now been doing webinars for over a year. The Long Island Liquid Waste Association exists for you. We continually want to learn how we can enhance and facilitate complying with Septic Industry requirements.

Our experience has been that in bad times you can often make lemonade out of lemons. This pandemic virus has caused us to take a new approach to our Board Meetings and the LILWA Certification sessions.

We have gone to online meetings and webinars and so far the response has been extremely positive. There is always room for improvement if there is anything else you feel we should include in our presentations please let us know.

For those of you who like what we do and want to get involved, I invite you to consider joining the Long Island Liquid Waste Association.

Your backing could be as simple as monetary support, or you could become an active member. One could be a committee member or a Board of Director.

LILWA promotes from within so you could easily advance to an officer position or even President of the association if you have the desire and ability.

We are always looking for new creative ideas and diverse approaches to problem solving. Don't be the Monday Morning Quarterback when you can get in the game. We want and value your opinions.

Our main mission is to enhance the Septic Industry for the betterment of the people who work in it and the public we serve. That being said, membership does have benefits.

For one thing LILWA is your advocate, your company does not have to get directly involved. We handle any issues you may have with government agencies for you. LILWA is recognized and valued by local Government and their agencies. We are an affiliate of the National Onsite Wastewater Technicians Association NAWT and acknowledged by national magazines such as

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Executive Director Highlights

(Continued from page 7)

the Pumper and their writers. Also, Newsday and its reporters.

Suffolk County even allots up to 2 Training Credit Hours just for being a LILWA member.

There is also a Long Island Liquid Waste Annual Scholarship Program available to LILWA members and their families plus their employees and their families. Along with this is the networking and pooling resources with colleagues.

It is not all work there is in addition social events plus more.

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Long Island Liquid Waste Association Certification 2021 & 2022

The LILWA Certification program has been approved by Suffolk County to fulfill the qualifications for **endorsements 1,2,3,4,5,6,7 and 9**. It is designed to educate those applying for or renewing a Suffolk County Septic License. The course schedule is below, and the fee is \$200 per person. It is an **8 Training Credit Hour (TCH)** program and is scheduled for 4 times per year.

The program is a 2 night webinar 5 PM to 9 PM for those applying for or renewing a Suffolk County Septic License. Applications can be down loaded at: **www.lilwa.org**.

1	Septic Tank Pumping, Cleaning and Maintenance
2	Grease Trap/Grease Interceptor cleaning and Maintenance
3	Yellow Grease/Fryer Oil Collection
4	Temporary Restroom Facilities
5	Waste Line Cleaning and Inspection
6	Bulk Liquid Waste Transportation
7	Vactor (pump/vacuum) Services
9	Conventional Septic System Installation

LILWA Certification Schedule 2021

February 15 &17, 2021	May 17& 19, 2021	August 16 & 18, 2021	November 15 & 17, 2021
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LILWA Certification Schedule 2022

February 15 &17, 2022	May 16 & 18, 2022	August 15 & 17, 2022	November 14 & 16, 2022
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Suffolk County Endorsement Training

10	Innovative and Alternative Treatment System Installer
11	Innovative and Alternative Treatment System Provider

For applications, training schedule and further information on Suffolk County's Endorsement Training visit: www.suffolkcountyny.gov/departments/consumeraffairs or call 631-852-5808



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If your children are sick, keep them home. Do not send them to school.
Contact your medical provider.

If someone in your household has been test positive for coronavirus,
keep the entire household at home. Contact your medical provider.

If you are an older person, stay home and away from others.

**If you are a person with a serious underlying health condition that can
put you at increased risk** stay home and away from people.