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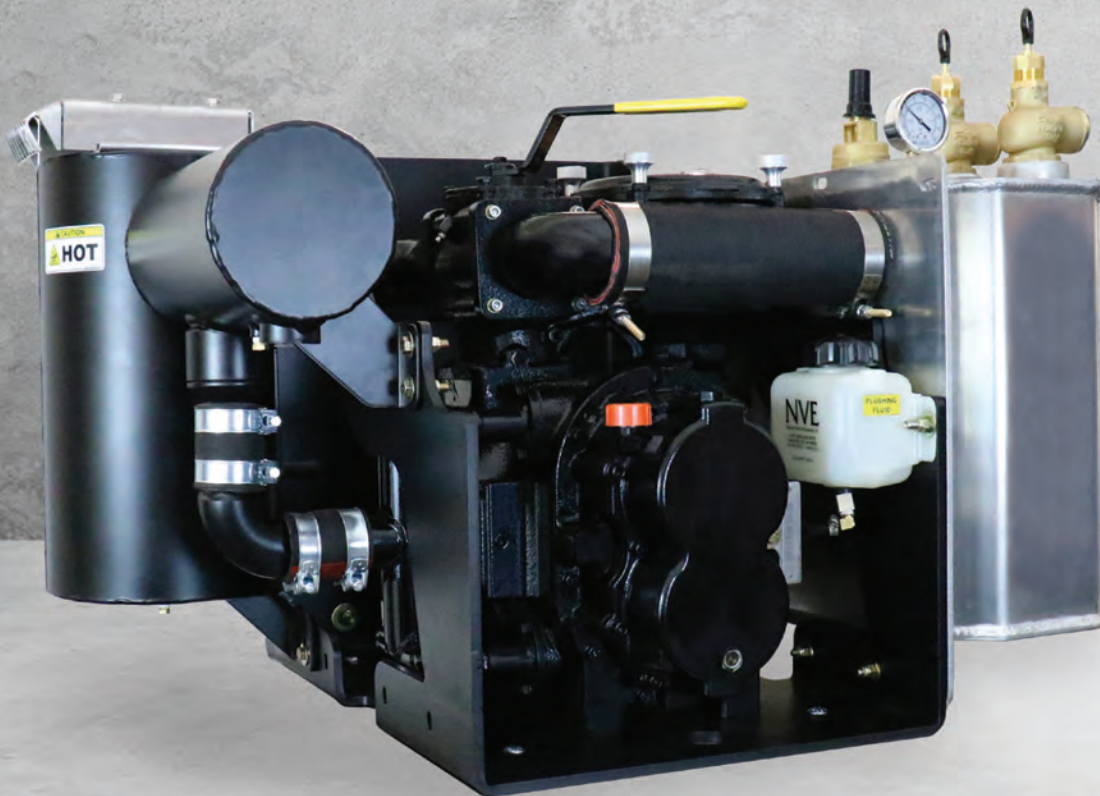
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ON THE COVER:



Adirondack Septic Tank was founded 50 years ago by Al and Sylvia in Amsterdam, New York, and is currently owned by their son, Rick. Service technician Billy Gifford cleans a grease trap at a McDonald's restaurant using a 2021 Peterbilt 348 truck built out by Amthor International and running a National Vacuum Equipment 4307 blower. (Photos by Chris Kendall)

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Jim Kneiszel
Editor

Preach Tank Security in the Wake of Another Child's Death

Ask customers to periodically inspect their septic access points and never leave a job site without the tank appropriately secured

It's more fun to report good news, but sometimes journalists — even trade publication editors — unfortunately have to dwell on bad news. In this instance, I hope that discussing the tragic death of children will somehow help bring a stop to a distressing pattern of unsecured septic tank lids in the United States.

The first time I wrote in *Pumper* about a young child falling into a septic tank and drowning was in April 2007. I will never forget about Loic J.M. Rogers, a 3-year-old Montana boy who died after he stepped on a plastic lid, flipping it, and fell to his death at his babysitter's house. When the little boy disappeared, police searched far and wide, only to find him in the nearby tank. As it turned out, the homeowner knew the lid was damaged, but was unaware it posed a danger and failed to report it.

Several times since that precious little boy's senseless death, new cases have prompted me to repeat a message about the importance of tank security for our pumper community in hopes that we could spread the message as an industry. Sadly, I'm still waiting for that message to take hold. And I'm still haunted by the memory of Rogers, who would be turning 18 this year.

The latest sad story comes out of Cape May, N.J., where another 3-year-old, this time a little girl named Emma, fell 10 feet into an unsecured septic tank at a campground and died. Like the Montana youngster, she stepped onto a lid that wasn't secured properly and it flipped. This is according to a report in the Cape May Herald newspaper. A state Department of Environmental Protection report found multiple violations at the campground citing unsecured lids that were either cracked or had missing bolts or screws, news accounts stated.

LOOKING BACK

Pumper Wade Dooley and I have formed a cordial relationship over the years periodically discussing tank security. I first talked to the owner of Little Stinkers Septic Service and Portable Toilet Rentals in Bozeman, Montana, when he wrote a series of letters to the editors of area newspapers after Rogers died. It was his mission to bring light to this critical safety issue, never wanting to see another child die in such a way.

Back in 2007, Dooley shared this message with me, and I passed it along to *Pumper* readers to share with their customers:

"The loss of life should be a wakeup call for all of us. When it comes to septic tanks, we all must do our part in making sure that they are cleaned and operating correctly; not only for the protection of our groundwater and health. We must think safety. If you are unsure of the condition of your septic tank or lid, contact a licensed septic service to inspect your system. Meet with them and have them explain any potential problems. ... Please add this to your family's to-do list. It might save a life."

The advice remains just as important today. I went back in my files and saw that I repeated concerns about tank safety again in 2014 and 2018 as tragic incidents of child deaths in septic tanks continued. Each time I gave Dooley a call and we discussed ways to change this narrative. In the most recent case of the New Jersey girl, the story is the same.

➤ Look for opportunities to educate your customers and the general public about septic tank security. Ask septic system owners to inspect their access points regularly and keep vehicle traffic away from risers and lids that could be damaged and create a safety hazard.

"It's a shame because these are 100% preventable deaths," Dooley said when I caught up with him recently. He clearly remembers Loic Rogers the same way I do and we're both fed up to keep reading about children losing their lives in a septic tank. "I think these homeowners and commercial property owners should be held accountable. They're lucky it's not criminal manslaughter, as [it] should be. It never ceases to amaze me what we see."

TAKE ACTION

I'm sure Dooley would join me in asking you to look for opportunities to educate your customers and the general public about septic tank security. Ask septic system owners to inspect their access points regularly and keep vehicle traffic away from risers and lids that could be damaged and create a safety hazard.

And for the pumpers, include tank security and work site safety as topics in your daily discussions with crew members. Preach about watching out for others when a tank is opened during a service call, and never leaving a job site without making sure lids are secured appropriately and secondary barriers are in place whenever possible.

Putting this important safety issue into perspective, I will repeat another point Dooley made the first time I talked to him. It's clear we need to keep talking about the issue until everyone conforms to commonsense safety standards.

"We have a hot tub outside and we lock the lid. When you have a swimming pool, you put a fence around it," Dooley said. "Yet they put 1,000 gallons of septage out there and they treat it like it's not a hazard."

Thank you for representing the wastewater industry in the face of misinformation

A few months ago I told you about a video on YouTube posted by an Idaho real estate agent, George Tallabas, entitled *Don't Pump Those Septic Tanks*. In it, Tallabas spread misinformation about septic system maintenance that would lead viewers to ignore their septic systems and result in costly repair or replacement scenarios. In what I called his "fake news" diatribe, Tallabas assured homeowners maintenance is completely unnecessary over the life of a septic system. He said he has lived in home with a septic systems for more than 50 years and has never had one pumped or inspected.

After my column, the pumping community mobilized into action to counteract Tallabas' reckless statements. A few of you responded to me, while dozens of others went to the YouTube video and posted comments to inform viewers of the truth. Since I interviewed Tallabas and mentioned the video, thousands of people have checked it out on YouTube, and no small amount of pressure was put on Tallabas to rethink his stance ... unfortunately to no avail.

Pumper reader Paul Studholme, a certified master septic inspector, wrote to me:

"I have been inspecting septic systems for over 17 years and teach all my clients what I call Septic 101; how to look at their tank every couple of years to see if it's leaking, backing up and how to test if the tank needs to be pumped. I would see if there was someone in George Tallabas' area that would inspect his septic system so that it could be proven to him that a system needs to be pumped."

Pumper Scott Youker said he hears folks repeat similar claims to Tallabas' and he quickly sets them straight.

"Some of my customers tell me that and I reply to them that the septic tank is really just a big filter and, like the oil filter on their vehicles, it needs

to be cleaned periodically. You don't *have* to change/clean your oil filter, but catastrophic results will happen if you don't."

So many commonsense statements like these were added to the Tallabas video and you can search his name and read them yourself. The pumping professionals explained – over and over – how Tallabas was misinformed. And over and over, Tallabas said he was telling the truth and asked folks who disagreed with him to simply go away.

"You are doing a huge disservice to anyone with a septic tank by providing this completely false advice," wrote Fred Luhn. Tallabas said bacteria in the tank break down all waste indefinitely, to which Luhn replied, "It's this sludge that needs to be pumped out. The unicorns and fairies don't take it away. The first law of physics — matter cannot be created nor destroyed. What do you think happens to the solids you flush?"

Pumper David Neu wrote:

"It's really quite simple. You can't turn something into nothing, solids don't just magically disappear because, 'bacteria.' The solids will continue to collect and despite what you think, you can't keep all the harmful stuff out of your septic system, ... inorganics like dirt, silt, sand, etc., hair rags, food scraps, grease and oil; most of this cannot or will not be broken down by the bacteria in your septic system. If you really want to know, ride along with your septic guy for a day or two. Your mind will most definitely be changed."

J.J. Tiemann added:

"He refuses to be educated by people who are current experts in the wastewater industry who work with septic systems on a daily basis. In the interest of homeowners and the groundwater of our planet, this guy should really consider providing current septic system information ... or better yet, leave the septic 'education' to the current experts in the industry."

OPEN YOUR EARS

Unfortunately, there are many people who — like Tallabas — feel free to broadcast their ignorant rantings regardless of the negative impact it might have on others. Folks like Tallabas will never stop to consider they're wrong no matter how many pumpers or wastewater industry professionals try to set them straight. This is nothing new.

Perhaps Mike Stephens left the most interesting comment for Tallabas and those who have viewed his video when invoked a Biblical passage from Proverbs, "I would test the opinion of one person against the multitude of opposing opinions. 'There is wisdom in a multitude of counselors.'" **P**



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which should you use?

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Miller's Services of Saluda, Virginia, aims to impress on the initial service call, then keeps customers coming back by enticing them with the benefits that come from signing up for service-agreement programs. The programs are available for customers with alternative septic systems and customers that use the company's plumbing, electrical, heating and cooling services.

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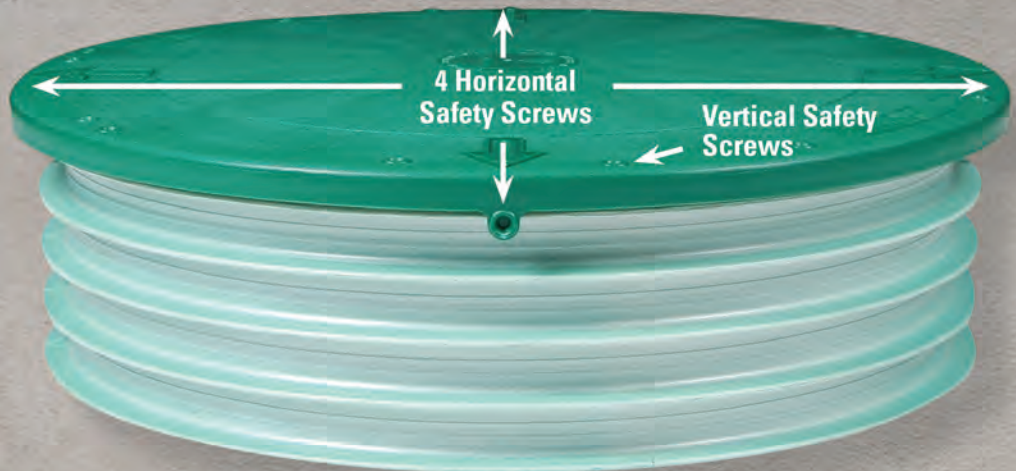
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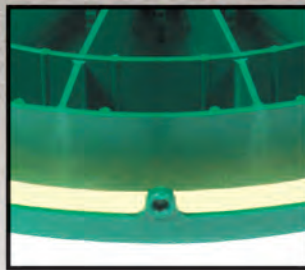
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Staying POWER

After three generations in business, the team at New York's Adirondack Septic Tank keeps its focus on pride of workmanship

By David Steinkraus

Adirondack Septic Tank has reached the enviable goal of 50 years in business by following one simple goal: Consistently pleasing the customers.

"We haven't made it 50 years without providing quality service and a good value to our customers," says Rick Zielinski, current owner of the company and son of founders Al and Sylvia Zielinski. "We've got customers, we did work for their grandparents and parents, and now their children. We've had a lot of time to develop relationships with the sewer plant operators, the town supervisors, all the people who make decisions for the type of work we do. And they know who to call."

"We've got an in-house unofficial motto," adds Rick's son Jeff



◀ The Adirondack Septic team includes, from left, Jeff Zielinski, Jamie Rossi, Billy Gifford, Chad Town, Sylvia Zielinski, Ann Zielinski, Rick Zielinski, Cliff Marellus, Ken "Buzz" Yorks, Roger Larson and Dan Zielinski. (Photos by Chris Kendall)



Adirondack Septic Tank

Amsterdam, New York

OWNER: Rick Zielinski

FOUNDED: 1971

EMPLOYEES: 10

SERVICE AREA: 10-county area in upstate New York

SERVICES: Residential, commercial and industrial pumping, residential septic system installation, commercial grease trap service, municipal pump station maintenance, jetting, inspections, portable sanitation, excavation.

WEBSITE: www.adirondackseptic.com

“ WE’VE GOT AN IN-HOUSE UNOFFICIAL MOTTO. WHETHER WE’RE THE FIRST CALL OR THE LAST CALL, WE’RE THE LAST CALL. WE LIKE A CHALLENGE, AND WE WANT TO FIND A SOLUTION. ”

JEFF ZIELINSKI

Zielinski, 37, a project manager. “Whether we’re the first call or the last call, we’re the last call. We like a challenge, and we want to find a solution. We don’t walk away from a job undone.”

Good relationships extend to competitors, too. Rick says Adirondack’s competitors are comfortable when their customers call Adirondack to provide services the competitor doesn’t offer. “And in return,” Jeff says, “we’re content in taking, for example, a pump-replacement job from a guy who only pumps tanks, and then handing the tank pumping right back to him. We’re not going to try to steal his customer. It’s easier to be friendly with our local competitors and pass work back and forth.”

PROBLEM SOLVERS

In the local market, Adirondack is a larger operator, and it solves larger problems. One cropped up several years ago when baby food manufacturer Beech-Nut built a new plant. Like Adirondack it also is based in Amsterdam, New York, and is a longtime Adirondack client.

Beech-Nut knew from the outset that its waste flows would exceed the capacity of the sewer system if released in one slug, Jeff says. The solution is a 279,000-gallon, aboveground equalization tank. It accepts surges of plant wastewater, then steadily pumps smaller amounts into the municipal sewer system.

The problem was sludge buildup in the tank. This needs to be removed regularly so it doesn’t enter the municipal sewer, Jeff says. During the first week of July, the plant shuts down for regular maintenance, and the crew from Adirondack Septic spends a day cleaning the tank.

Beech-Nut workers drain most of it, and Adirondack technicians suck out the rest with a vacuum truck, Jeff says. Then two to three guys go in with personal protective equipment, following confined-space entry procedures, and with continuous forced air ventilation and air quality monitoring. They use a jetter to wash down the inside of the tank and suck up the wash water with a vacuum truck.

Tank washing was initially done twice a year, according to Dan Zielinski, 35, Rick’s other son and operations manager. As Adirondack techs gained experience with the job, they suggested Beech-Nut install an aeration system to promote waste digestion and reduce buildup. As a result, washing dropped to once a year. Beech-Nut doesn’t have to pause production twice, and it doesn’t have to pay twice for cleaning.

▶ Pumper PROFILE



▶ Jeff Zielinski is shown in the company yard with Norweco Singulair Green tanks ready for installation.

▶ Technician Chad Town empties a load at the treatment plant using a Peterbilt truck from Amthor International with an NVE blower.



That reduced work for Adirondack, Jeff says. “But it’s probably added more than it’s taken because they have a sense of loyalty from us that has paid back dividends.”

BROAD SERVICE MENU

Adirondack Septic derives about 45% of business from its vacuum truck services, 15% from drain cleaning, 10% from onsite installations and excavating, 10% from camera inspection and location services, 10% from portable restrooms and 10% from pump station installation and maintenance.

“One of our biggest challenges is scheduling,” Dan says. “Some of the work is predictable. Most of it isn’t.” The company handles this with extensive cross training so anyone can jump into another job even if it’s not their primary role.

Among the calls that come in last-minute are from cruise boats. They sail the Mohawk River, which runs through Amsterdam and was part of the old Erie Canal system. Locks on the river close at 8 p.m., which sometimes means Adirondack technicians drive 30 or 40 miles to pump a holding tank because a ship was behind schedule and got stuck at a closed lock.

Next to the river is a train track, and that occasionally generates a last-minute call. Last winter, a maintenance train needed to have a holding tank pumped. “It sounded good on paper until we got down there,” Jeff says. “The tank we had to pump out was about 1,000 feet off the road between two sets of tracks with about an inch to spare on either side.”

“During a snowstorm,” Rick adds.

“GENERALLY, WHEN WE GET SOMEBODY ON A REGULAR MAINTENANCE SCHEDULE, THEY SEE A SIGNIFICANT DROP IN EMERGENCY CALLS.”

JEFF ZIELINSKI

On the first attempt, the vacuum truck couldn’t get close enough to the railroad car. So the Adirondack technician waited until the train was ready to move, Jeff says. The train stopped at a road crossing just long enough for pumping, and then went on to its next destination.

CLEARING THE FOG

Grease traps are one of Adirondack’s commercial specialties. That began decades ago, Rick says, probably with an emergency call. Again, relationships come into play because a key to offering the service is having a well-run municipal plant willing to accept and treat grease, Jeff says. They have such a plant.

“I’ve had many conversations with the plant operators in the past about this,” Rick says, “and they understand that by pumping the grease traps it’s keeping the grease out of the citywide collections system.”

(continued)

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▶ Pumper PROFILE



▶ Jeff Zielinski, Ken "Buzz" Yorks and Dan Zielinski prepare to deploy a CUES Flexitrac C550c camera system at a work site.

Because the job is messy, trucks are built with grease in mind. All of the 4,000-gallon vacuum trucks have full-hoist dumping tanks. This allows better draining for lumps of grease, as does use of 6-inch hoses. Newer trucks have an onboard water tank for washing hoses, a dedicated hose to vacuum traps, plus scrapers and other tools specific to grease, Dan says.

Keeping a grease trap system functioning also means cleaning inlets and pump stations, so the grease trap specialty also leads to quite a bit of drain cleaning work, he says.

Adirondack technicians always suggest a maintenance contract after responding to a customer's first emergency grease trap call.

"Generally, when we get somebody on a regular maintenance schedule, they see a significant drop in emergency calls," Jeff says. Clients also see other costs and frustrations drop, "because it's not just the expense of the emergency call itself, which can be significant. It's also the downtime, or you had to close your bathrooms and kitchen on a Friday night with a full house."

PORTABLE SANITATION

Adirondack has been supplying portable restrooms since the 1980s, at first as fill-in work, Rick says. Today, one technician is dedicated full-time to the restroom division.

There are 225 to 250 units from Satellite and T.S.F., including standard portables, flushables, ADA-compliant units and hand-wash stations. There is also a 16-foot Forest River, an older 20-foot, as well as shop-built restroom trailers. During the busy season, other employees are pulled in to help with portable sanitation duties, Dan says. For the rest of the year, one technician can handle the workload.

BUILT FOR WORK

A diverse company like Adirondack must maintain a diverse inventory of equipment. The pumping fleet consists of:

- **2022 Peterbilt 348** with a Pik Rite 4,000-gallon aluminum dump tank and NVE 4310 blower
- **2021 Peterbilt 348** with an Amthor International 4,000-gallon aluminum dump tank and NVE 4307 blower
- **2020 Peterbilt 337** with an Amthor International 2,500-gallon aluminum tank and NVE 4307 blower
- **2002 Freightliner FL112** with a Presvac Systems 4,000-gallon aluminum dump tank and Utile pump
- **2006 International 4300** with a 2,500-gallon aluminum tank and Utile pump

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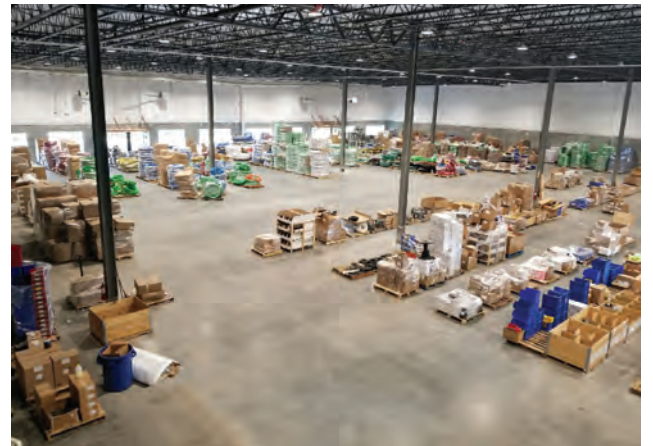
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 Dan Zielinski and Ken “Buzz” Yorks wash and detail one of the company trucks in the Adirondack Septic Tank yard. The 202 Peterbilt 337 truck carries an Amthor International tank and NVE blower.

Portable restrooms are serviced with a 2019 Ford F-550 with an Amthor International aluminum dual-compartment tank, Conde pump and Anthony liftgate; and a 2008 Ford F-550 with a Dyna-Vac stainless steel dual-compartment tank, Conde pump and Anthony liftgate.

For excavation, they use Kubota KX080-3, Kubota KX121-3, Kubota SVL75-2 tracked skid-steers and a New Holland TC40 tractor with a backhoe.

Jetters are from US Jetting. Cameras and locators are from CUES and Vivax-Metrotech.

The Adirondack Septic team consists of: Rick Zielinski, president and owner; Anne Zielinski, (Rick’s wife) office manager; Jeff Zielinski, project manager; Dan Zielinski, operations manager; Jamie Rossi, foreman for power jetting and excavation; Roger Larson, portable sanitation technician; Chad Town, service technician for pumping and power jetting; Ken “Buzz” Yorks, service technician for pumping; Billy Gifford, service technician for power jetting; Cliff Marcellus, service technician for power jetting. All employees are cross-trained.

WHY NEW EQUIPMENT?

The 2020 and 2022 Peterbilts break a long tradition at Adirondack. Someone else built them out. “We used to build all our trucks,” Rick says. “Back when we started, there was more time than money, so we had to do things ourselves.” As the business grew and maintenance work generated steady revenue year-round, winter was no longer a slow season, he says. Now it’s a more effective use of time to have someone else do the building.

New equipment also means the Adirondack team can do more work without adding more people, Rick says. It’s a question of putting the right people in the right place with the right tools, he says.

They’re constantly looking at equipment, Rick says, reading trade magazines to see what equipment other people are using and how they use it. When they’re close to a decision, the WWETT Show is invaluable for side-by-side comparisons, he says.

Equipment purchases are never on impulse, Jeff says. Their CUES Flexitrac C550c camera system is an example. For years technicians did mainline inspections by driving push cameras with a jetter. During that time, the Zielinskis gauged the demand in their area, he says. Last, they went to the WWETT Show, looked at crawler camera systems in person, and made their investment.


“And then by the time we do pull the trigger, we’ve got a list of jobs to put it right to work,” Jeff says.

STAYING HUNGRY

A significant portion of the business has grown from Adirondack’s selection as a Norweco distributor since 2012, Jeff says. Most of that business is focused on Singulair Green units. Adirondack either installs and services, or it provides components to other contractors and then takes over maintenance. The product works well on small lots near surface water, Rick says, and the Adirondack foothills and mountains of their area are full of lake homes.

If service has been the key to 50 years of history, there is another for the future 50 years. Staying hungry, Dan says.

“You have to come in every day willing to do whatever it is, and it can vary a lot, whether it’s fixing something on a truck so the guys can get out the door in the morning, or sitting in the machine digging a hole, doing whatever needs to be done,” he says. “One day you’re in the inner city, and the next you’re working in a \$10 million house. We see everything.” **P**

 Technician Cliff Marcellus sprays down a grease trap while Dan Zielinski shines a light in the tank.



Pride brings productivity

All the motivational books in the world can’t substitute for the simple benefit of having people take pride in their work. Adirondack Septic in Amsterdam, New York, utilizes a few strategies for helping their people take pride.

Although people must float among jobs if needed, the company tries to keep technicians in a single truck, he says. “It’s not their truck, but it’s the truck they’re in the most, so they take a special pride when it comes to greasing it, oiling it, cleaning it,” he says.

“You kind of buck that old view of the septic guy with the leaky, rusty truck,” says Jeff Zielinski, a project manager at the company. “We show up with a brand new truck with a polished aluminum tank. It’s clean. It’s not leaking oil on [the customer’s] driveway.”

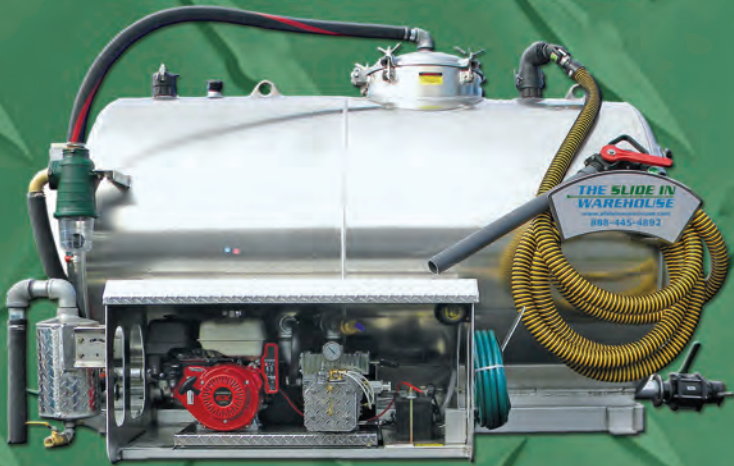
New trucks provide more motivation, he adds. “Any opportunity they get at the end of the day, the brush comes out, the truck gets a bath.”

Technicians receive shirts, sweat-shirts and hats with the company name. In summer, when heat and humidity descend, long pants aren’t required, and days can start early so guys aren’t sweating in the heat of the day.

All the trucks have air conditioning, so technicians have a break from the heat on 90-degree days. Transmissions are mostly automatics to make driving easier. And most trucks have Bluetooth, Jeff says, so drivers can answer phone calls safely hands-free, and right away.



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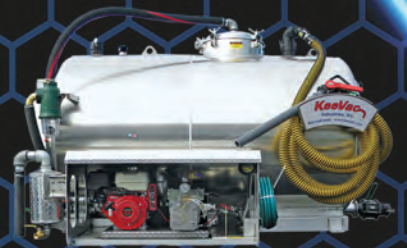
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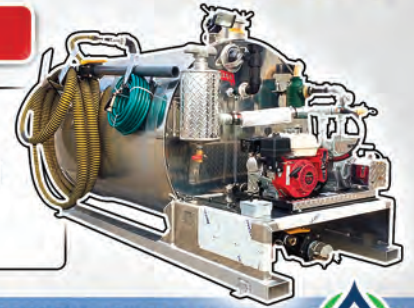
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Federal Law Related to PFAS Contamination May Impact Pumpers and Installers

By David Steinkraus

PFAS, a group of manmade substances called “forever chemicals,” have become an environmental issue worldwide. Now the U.S. wastewater industry is starting to face issues related to PFAS regarding municipal treatment of septic waste, land-spreading of septage and impacts on onsite systems. In late July, by a vote of 241-183, the U.S. House of Representatives passed a bill to declare some PFAS chemicals a hazard. If it becomes law, the bill would, among other actions:

1. Require the administrator of the U.S. Environmental Protection Agency to designate two PFAS chemicals (perfluorooctanoic acid and perfluorooctanesulfonic acid and their salts) as hazardous substances.
2. Require the administrator to decide, no more than five years after the bill becomes law, whether all PFAS compounds should be designated hazardous.
3. Require EPA to annually publish a list of technologies that will remove PFAS from drinking water.
4. Require EPA to order comprehensive toxicity testing of PFAS compounds.
5. Create a labeling program to tell consumers which products are safer choices because they do not involve PFAS.
6. Establish a website about home water well testing.

The bill, H.R. 2467, was introduced on April 13 by Michigan Reps. Debbie Dingell, (D-Dearborn), and Fred Upton, (R-St. Joseph). After passing the House, the bill moved to the Senate committee on Environment and Public Works.

PFAS stands for per- and polyfluoroalkyl substances. It's a family of more than 4,000 chemicals that have been made since the 1940s and are used in a wide variety of products including carpet, fabric, paper packaging and some firefighting foams. PFAS traces have turned up in wells and municipal water systems. Research so far suggests that high PFAS concentrations in humans may increase cholesterol levels, decrease response to vaccines, increase risk of thyroid disease, decrease fertility in women and increase the risk of high blood pressure or pre-eclampsia in pregnant women.

Water utilities, worried about being hit with the cost of treating for PFAS, lobbied Congress through their associations for more money and liability protection.

“We want to protect the public from PFAS, we want all that,” said Mike Keegan, a regulatory analyst at the National Rural Water Association, which represents local water utilities. “But when you get into the mechanics [of the bill], what they’re really doing is passing on the liability to the public.”

The Association of Metropolitan Water Agencies, representing the largest publicly owned water utilities, said liability should be the responsibility of PFAS manufacturers, reported the *Louisiana Illuminator*.

Some states have already taken action on their own. New Hampshire, for example, set its own PFAS drinking water limits, first by administrative rule and then by legislative action when a court injunction threatened to delay new standards.

It was also in New Hampshire where the onsite implications of PFAS came into focus. In April 2019, the state informed Biological Recycling Company, which processed septage and land spread sludge, that it was the likely source of PFAS contamination in wells on neighboring properties.

A few months later, the company told the state it could not pay for filter systems for each affected home and would cease its septage hauling and spreading operations.

NATION

When the House of Representatives passed the INVEST Act this summer, it included \$500 million over five years to help homeowners install and replace decentralized wastewater systems, reported the National Onsite Wastewater Recycling Association.

Earlier this year, the Senate passed a similar bill providing \$250 million over five years. Committees from the two legislative bodies will meet to resolve differences in their respective bills, and the result may be included in a large, general infrastructure bill, NOWRA reported.

New Jersey

A company accused of making robocalls to sell its septic tank cleaning products agreed to several penalties, including dissolution, as part of a settlement agreement with the U.S. Justice Department.

Environmental Safety International was accused by the federal government of making more than 45 million illegal telemarketing calls to people nationwide between January 2018 and March 2019. The company was trying to sell people its Activator 1000 line of products. About 31 million

of those calls were made to numbers on the Do Not Call list maintained by the Federal Trade Commission.

Under the settlement, ESI will pay more than \$1.6 million and agreed to a permanent ban on telemarketing. The company must also cancel all balances for people who bought products but did not pay. Owners Joseph and Sean Carney agreed to apply for dissolution of the company, and they must forfeit a residential property valued at \$774,000.

New York

Some landowners in Warren County would be required to have onsite systems inspected before a property is sold.

The county surrounds the southern tip of Lake George and covers much of the lake's western shore. For a few years the lake has been plagued by algae blooms, and some municipalities have passed their own laws to address pollution from onsite systems.

The law being proposed by a county committee would require inspections by a third-party contractor if a system is within 250 feet of the mean high-water mark of seven bodies of water, reported the *Post-Star* of Glens Falls.

The water bodies are Lake George, Schroon Lake, Schroon River, Brant Lake, Loon Lake, Lake Luzerne and the Hudson River. Municipalities would be allowed to opt out of the law, and the towns of Queensbury, Bolton and Chester would be exempt because they already have inspection laws in place. Glens Falls would also be exempt because most properties are connected to municipal sewer.

Texas

Earlier this year, the Midland County Commissioners' Court agreed to pay to pump the septic tanks of people whose onsite systems were damaged by severe flooding. Commissioners set some criteria to determine whether a tank is eligible for pumping, reported the *Midland Reporter-Telegram*.

The criteria are:

1. The county must be under an emergency declaration approved by commissioners.
2. A residence must be within the current flood zone.
3. A residence must be under standing water for at least 72 hours.

The cost to the county was estimated at \$100 per household. Although counties are prohibited from spending public money on private residences, the county attorney said it was permissible in this case because of the public health risk. **P**



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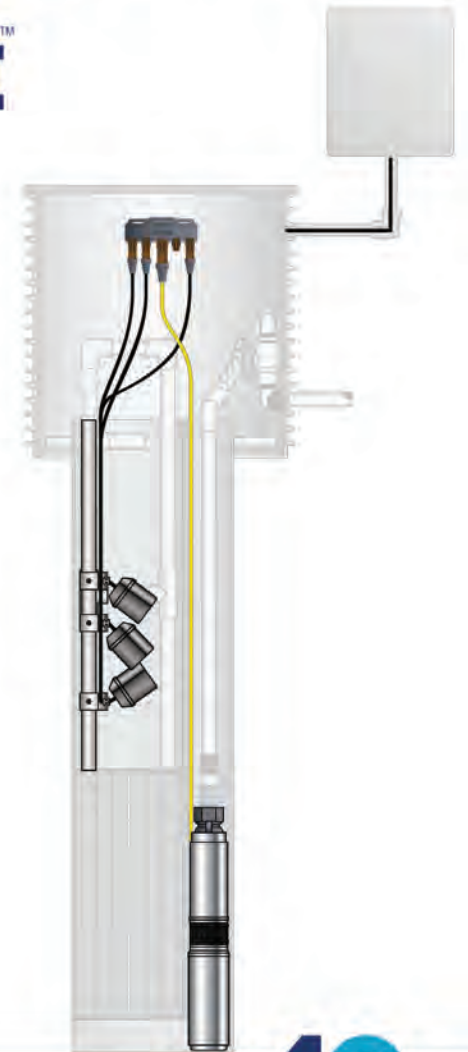
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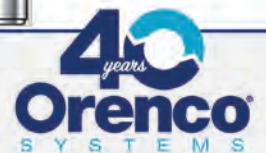
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Paul Costello. (Photos courtesy of Vermont Council on Rural Development.)

Community Septic Systems Provide a Boost to Rural Vermont Towns

Failing onsite systems threaten the future of quaint villages, forcing officials to look for creative wastewater solutions that residents and businesses can afford

By Ken Wysocky

It's becoming increasingly difficult for small towns across Vermont to remain economically viable. The reason? A lack of public wastewater treatment systems, which curtails efforts to build or expand homes and commercial buildings.

But the town of Warren and a handful of other communities have taken an innovative approach to this vexing economic development problem: A community septic system, in which individual septic and pump tanks are connected via a sewer line to a large waste tank that distributes to multiple drainfields.

So far, these towns are the exception to the rule. In fact, almost two-thirds of the state's villages — some 200 in all — have no public wastewater infrastructure. Instead, residents and businesses typically rely on individual septic systems, generally located on lots too small to accommodate bigger systems needed for expansion.

"The economies in some of these small towns are stagnating," says Paul Costello, executive director of the Vermont Council on Rural Development, which helps small towns and villages create economic development plans and identify funding sources to make them a reality.

"The fundamental challenge is attracting young people and entrepreneurs," he explains. "But in smaller towns, there's not enough housing for them. Many people in small villages rely on individual septic systems that have become outmoded over time ... and newer systems are expensive, which undermines the development of new housing.

"So the bottom line is there's increasing interest in shared septic systems," he continues. "But that requires analyzing a town's needs and figuring out how to build a funding package that can succeed politically."

Shared systems are expensive to build. As such, it can be difficult to convince residents in small communities to support bond issues to fund such projects. Even a small shared system for 50 to 200 people might cost \$10 million or more, he says.

A MODEL FOR SUCCESS

The historic and picturesque town of Warren, population roughly 1,600, provides other small Vermont municipalities with a blueprint for funding and building a successful shared decentralized system. The town's journey

"The fundamental challenge is attracting young people and entrepreneurs. But in smaller towns, there's not enough housing for them. Many people in small villages rely on individual septic systems that have become outmoded over time."

— Paul Costello

began about two decades ago, when failing drainfields on five individual septic systems and one that served an elementary school spurred officials into action.

A chief concern was the health of the Mad River, into which some of the failed drainfields were leaching. Water-quality tests performed by a local environmental group, Friends of the Mad River, showed increasing levels of bacterial contamination.

Another concern was the economic viability of the historic Pitcher Inn, built during the Civil War and now an upscale inn and restaurant/tavern, and the Warren Store, built in 1839 as an inn and boarding house and now an old-fashioned country general store.

The inn and the store are the two largest businesses in town and also are popular tourist attractions in central Vermont's Mad River Valley, says Cindi Jones, town administrator.

THE SWITCHOVER

The decentralized system was installed in two phases. The main component is a cluster system with a 50,000-gallon septic tank coupled with 12 drainfields, located under a 2-acre field that's part of the grounds of an elementary school. The town uses only half of the drainfields at a time, rotating from even-numbered fields in one year to odd-numbered fields in the next, Jones explains.

Effluent from septic tanks is dispersed, either by gravity or by pump, to a main sewer line that runs through the town. From there, three pump stations send the effluent to a fourth pump station, which further filters the effluent before pumping it into the 50,000-gallon tank. (The elementary school has its own septic system.)

The system serves 74 of the town's 95 parcels. (Some property owners opted out of the project). The properties connected to the system include the Pitcher Inn, the Warren Store, some municipal buildings, various small businesses and about 50 homes, Jones says. Most residential tanks are 1,000 gallons, she says.

GRANTS HELPED OUT

The total cost of the project was around \$4.6 million. Grants from the U.S. Environmental Protection Agency and the state of Vermont paid for approximately \$3.7 million of that. The town took out a loan in the form of municipal bonds to pay for the balance, a report shows.

The Mad River Planning District worked with two Vermont-based consultants, Forcier Aldrich & Associates (now Aldrich + Elliott) and Stone Environmental, to determine the best course of action and find funding sources. A citizens' advisory committee created a community outreach/education program to obtain input from residents as well as marshal support for a bond issue.

The town is responsible for managing both the onsite and cluster systems. Tanks get inspected and outlet filters cleaned annually. If tanks are more than 8 inches full, they're pumped out, Jones says. "The main tank at Brooks Field gets pumped every 12 to 13 years," she says.

An operation and maintenance budget, funded by user fees, pays for all costs associated with managing the system, including scheduled and unscheduled maintenance. User fees are determined by a formula that includes the number of bedrooms or living units. The average fee is around \$657 annually for a two-bedroom home and about \$840 for a three-bedroom home, Jones says.

"We've had very few maintenance issues," she notes. "The system seems to work very well. I frequently get calls from other communities that want information about it."

ECONOMIC VITALITY RESTORED

The bottom line: The decentralized wastewater system has been vital to attracting new businesses and promote more real estate development, Jones says. There remains ample extra capacity to handle additional residential and commercial business development.

"Economically, it was a great thing for the town of Warren and a great thing for keeping the river clean," she points out. "If we hadn't done something, I don't think the Pitcher Inn would still be here and maybe not the Warren Store, either."

"If they both folded, there wouldn't be much in Warren," she says. "It would be pretty quiet around here." **P**



▲ A community septic system ensured preservation of the historic Pitcher Inn, built during the Civil War and now an upscale inn and restaurant/tavern in Warren, Vermont.



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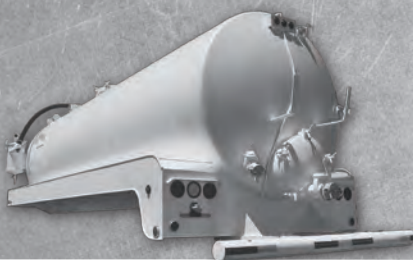
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Shelley Armato is CEO at MySmartPlans and provides professional construction services to healthcare, scholastic, government and commercial market sectors. For more information, visit www.mysmartplans.com.

5 Keys to Becoming an Industry Disrupter

Change is hard, but the small-business owners unafraid to try something new will weather tough times and emerge as leaders in the field

By Shelley Armato

Everyone has the potential to be an industry leader. These leaders are the ones who transform the world — who disrupt their industry and launch massive and positive change.

The challenge is that too many people are comfortable and complacent with where they are. They've settled into the pattern of reacting to disruptions rather than causing them. Think about your own industry and how it's changed over the years. Who initiated the biggest changes? Who were the disruptors? Were they the people who sat on the sidelines? Or the ones who took bold action?

Contrary to popular belief, having access to large amounts of money isn't what makes someone a disruptor. Money alone isn't what makes change happen. In reality, tenacity and courage are all you need. So stop blaming others or outside circumstances for limiting your ability to enact change. By using the internal resources you already have, you can take action today.

Here are the five keys that will help shift your mindset so you can be the disruptor others react to.

1. Get comfortable with change.

Disruption is all about change. Any company that survives long-term has changed over the years. Whether they added new products or services, catered to a different market or totally reinvented themselves, they had the courage to morph in some way. Unfortunately, many people get stuck in the vision of what their company was in the past, rather than what it could be in the future. This mindset forces them to always be reactive to the disruptions others make — they are never the disruptors themselves because they are too tied to the past. To transform your industry, you have to be future-oriented and ready to make a change at a moment's notice. If you're not nimble, you'll never be the leader. Remember that everything is different today than it was just a few years ago, and that has to include you and your company.

2. Look for the common challenges in your industry.

If you want to be an industry disrupter, you need to always be looking to solve challenges — at work as well as at home. In other words, problem solving must become a way of life, not just something you do when times are tough. Look around and ask yourself, "What can I do differently and better?" Realize that if you think something is challenging or in need of change, chances are that others think that too. Ask your customers and employees what changes they wish would transpire. Then really listen to their answers. Insight leads to change.

➤ Look around and ask yourself, "What can I do differently and better?" Realize that if you think something is challenging or in need of change, chances are that others think that too.

3. Research everything.

To find the problems and the solutions, you need to know what's going on in your industry at all times. Research solutions that others have tried to introduce. Sometimes disruption isn't about reinventing the wheel; it's about making the existing solutions better. Often, even a tenth of a degree of improvement can make massive progress. Additionally, do research for your emotional wellness, because when you're emotionally healthy, you can take on anything. Broaden your research to encompass all aspects of yourself, your business and your industry.

4. Be resilient in your ability to solve problems.

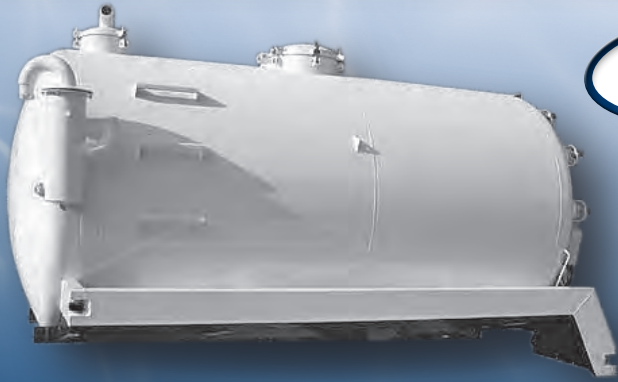
Being a disrupter means being resilient. To build your resilience, refrain from asking disempowering questions like "How am I going to do this?" A better question is "Why am I going to do this?" "Why" leads to "When," and then "When" becomes "How." With your "why" and "when" already mapped out, the "how" becomes much easier and you're more apt to take that first step. Along the way, you'll run into roadblocks and rejection. That's OK. Learn from setbacks and harness your resilience to bounce back and keep going.

5. Find the eagles in your life.

People in your life can either lift you up or pull you down. We all have people in our life who love hearing our problems and then telling us all the things we shouldn't do. But if you let these people dictate your decisions, you'll never be a disrupter. Instead, you have to find the eagles. During storms, eagles soar higher because they know the crosswinds will help them gain altitude. In other words, during challenges they rise.

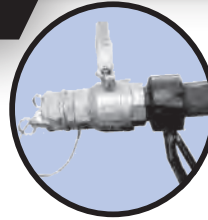
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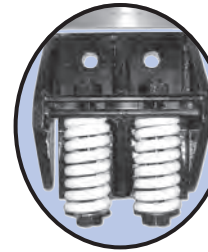
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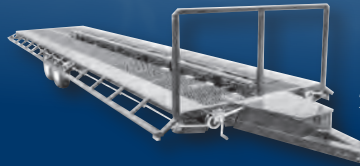
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GET READY FOR CHANGE

Regardless of your past successes or failures, you can initiate massive industry change. So why settle for always reacting to the disruptions that others enact? Have the courage to take action. Be the disruptor that leads your industry to new heights ... and your company to even greater success. **P**



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Jim Anderson, Ph.D.
Contributor

Jim Anderson, Ph.D., is an emeritus professor at the University of Minnesota Department of Soil, Water and Climate. He works with the National Association of Wastewater Technicians and is a recipient of the pumping industry's Ralph Macchio Lifetime Achievement Award. Send Anderson questions about septic system maintenance and operation by email to editor@pumper.com.

How Installers Can Attack the Growing Problem of Algal Blooms

Waterfront homeowners and environmental officials issue growing concerns about the impact of phosphorus on water quality for recreational areas

By Jim Anderson, Ph.D.

Over the past year, I have had a couple of readers/homeowners in lakeshore areas ask why septic system setbacks and requirements are based at least in part on the potential for phosphorus inputs to the lake. So it's a good time to address the topic and useful ways service providers can discuss phosphorus with their customers.

Phosphorus is the limiting nutrient for algal growth in most freshwater lakes. Phosphorus can result in large algal blooms, sometimes resulting in development of toxic types of algae. Large blooms also affect use of the lake for swimming and fishing. Aesthetically the lake does not look or smell good during these episodes. It is something every lakeshore owner wants to avoid.

It is difficult to estimate the contributions of lakeshore septic systems to overall lake phosphorus loadings, but it is clear they sometimes deliver effluent directly to the lake. Think straight pipes or systems installed directly into shallow groundwater at the lake level. These must be replaced with well-designed, installed and maintained systems meeting proper lake setbacks.

Detergents and human waste account for the bulk of phosphorus found in wastewater. Over the past 30 years, lower-phosphorus detergents have become prevalent in the market and less detergent is needed to clean clothes. So the load to septic systems in the wastewater stream has been reduced. Soils in most cases are effective at tying up phosphorus and keeping it from moving to the lake.

TRAPPED IN SOILS

In the septic tank, phosphorus is changed to a soluble form that can be adsorbed onto surfaces of the mineral particles in the soil and form insoluble precipitates with iron and aluminum compounds. In most research studies, the amount of phosphorus removed by soils through these reactions exceeds predicted amounts. This is probably due to slow diffusion of phosphorus into soil particles.

Based on this research, it is estimated that the depth of penetration on fine textured soils (loams, silt loams, clay loams) would be four inches per year or less. The only soil type where there may be significant movement away from the system (up to 20 inches/year) is clean, inert sandy soils where the predominant sand particles are quartz. However, even under this worst-case situation movement over 20 years away from the system toward the lake, if the effluent plume is moving through, the sand would be

Although the soil does not do a perfect job of treating septic tank effluent, proper siting, design and installation of soil treatment units are very effective in treatment and providing long-term protection of lake environments.

about 30 feet. A lake setback or 50-75 feet would provide years of protection to the lake.

I recently saw a paper where researchers looked at 20-year-old filter bed system on a lake in Ontario, Canada. This paper seems to confirm the results indicated above. The total amount of phosphorus found within 6 feet of the system accounted for approximately all of the loading to the system over the 20 years. Most of the phosphorus recovered was in the form of insoluble precipitates coating the quartz sand grains.

PROPER SYSTEM IS KEY

In the shallow groundwater at a depth of 3-6 feet there was elevated levels of phosphorus at about 40% of the septic tank effluent level. However, there were no elevated levels beyond 15 feet from the system and continuous monitoring for a six-year period following indicated levels remained steady. This means levels appeared to be at a steady state and the precipitation reactions provide attenuation over a long period of time.

The sand used for the filter bed was granitic and free of calcium or magnesium carbonates so the pore water was slightly acidic, which probably enhanced removal capabilities. It does indicate or open the possibility from a design standpoint for mounds and sand filters of prescribing sands that will improve removal of phosphorus in environmentally sensitive locations.

Although the soil does not do a perfect job of treating septic tank effluent, proper siting, design and installation of soil treatment units are very effective in treatment and providing long-term protection of lake environments. **P**

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If You're Not Involved in a Trade Association, You're Missing Out

Camaraderie, networking are critical to success in the wastewater industry, according to Arizona's Dave Bartholomew



In Snapshot, we talk to a member of a state, provincial or national trade association in the decentralized wastewater industry. This time we visit a member of the Arizona Onsite Wastewater Recycling Association.

Name and title or job description: Dave Bartholomew, president

Business name and location: Bartholomew Water Services, Inc., Phoenix, Arizona

Services we offer: Inspection, operation and maintenance of alternative treatment units (ATUs), wastewater collections systems and water reuse facilities. Customers range from individual homes to communities and high-rise buildings.

Age: 57

Years in the industry: 30 years

Association involvement: I've been a member of the Arizona Onsite Wastewater Recycling Association (AzOWRA) for 18 years. In 2013

I served as president and I'm currently on the board of directors. I'm also a member of the National Onsite Wastewater Recycling Association, the National Association of Wastewater Technicians, and the Arizona Water Association. I'm chairman of the Arizona Department of Environmental Quality On-Site Wastewater Advisory Committee, and served as chairman of the subdivision stakeholder task force of the Maricopa County Environmental Services Division.

Benefits of belonging to the association: AzOWRA provides camaraderie; statewide connections within the industry; access to educational events, training and general good times; and it's great to have colleagues whose expertise, knowledge and positions run the entire spectrum of the water and wastewater world. If you're not active with your state's professional groups, you are really missing out on vital opportunities.

Biggest issue facing your association right now: There's a lack of participation by people who really need the benefits of an association — too many people that are "too busy" or "too strapped." Others feel it's a waste of time and money. Nothing could be further from the truth. Sometimes you need to participate in a meaningful and financially beneficial group of like-minded individuals. The power of association is a real game-changer. I find myself leaning heavily on mentors, colleagues, associates and friends. Without comrades, you're alone — and that's no fun.

Our crew includes: I must first mention our founder, my dad Richard F. Bartholomew, without whom I would never have gotten into this noble calling. Half my knowledge and training came from his mentorship, the other half from Hard Knocks. Our business model was if he designed it, I would operate it. Second is my son and foreman, Nick Bartholomew. Nick bounced around after the Marine Corps, then got into utility trench work for one of the area's major installers, and finally agreed to work for me as an apprentice technician. He eventually gained enough experience to take over much of the field work that was consuming all my time. Third, our new addition is Ryandrew Peters, a hard worker with a good sense of humor, humble, a straight shooter, with a good head on his shoulders.

Typical day on the job: Hopefully the day goes: get up, coffee and eggs, get to the job, repair goes perfectly, get home in time for dinner — but that's never how it goes. Each day has challenges. Like the Marines, you need to adapt and overcome. And that's precisely what it takes — the ability to remain calm, come up with good solutions and make repairs the right way. You may need to keep someone on site running things manually

☑ Dave Bartholomew (foreground) with technician Ryandrew Peters, left, and son Nick Bartholomew pause while performing maintenance on a 14,000-gallon septic tank at Bartlett Lake Marina.



until a part can be obtained; you may have to be there overnight. Don't leave the site until things are under control and running correctly. You sleep better when you're sure your repair will hold.

The job I'll never forget: We had a service contract with a youth camp in the pines of northern Arizona. They were required by the state to hire a certified wastewater treatment operator to run the ATU — but the camp ranger insisted he knew best. He would crawl into the manholes, make equipment modifications, mess with pump control settings and turn the system off at night "to conserve power." Despite multiple complaints to the organization's head council, the problem continued. At one point the ranger and one of the adult volunteers pulled the control panel off and replaced it with one they had "custom engineered." They were playing with the float controls and pump wiring when we showed up. By doing that, any factory support was voided as well as the "do not tamper" clause in my contract. The ranger also tampered with the drinking water system and was eventually fired.

My favorite piece of equipment: When I was still working for my father as chief operator at the Phoenix-Goodyear Airport South superfund site, one day on the drive home I saw a shiny object by the side of the road. I stopped and found a custom fabricated manhole hook just lying there in the dirt. I threw it in the back of the truck, not knowing that hook was about to mark a new direction in my water treatment career. It's still on my truck and has the nickname Excalibur.

Most challenging site I've worked on: One summer, while working for my dad, I had a job to perform a site soils evaluation on a 982-acre piece of desert. It was 230 lots, most covered in thick patches of caliche. The job entailed the typical three-pit excavations (6 feet, 6 feet, 12 feet) per lot. It was three months working in the hot Arizona sun. I went through countless backhoe repairs, bucket teeth, truck tires, sunscreen, water and bug spray.

Oops, I wish I could take this one back: You have to be careful who you trust and pay attention to what's going on in your office. An office manager can misallocate a lot of money over time or neglect to send invoices or collect payments. If you just trust people to run the store without checking on them, they might succumb to greed. I was not responsible for hiring such an individual, but I did have to clean up the mess once. It's also important to get all agreements with customers, suppliers, subcontractors and employees in writing. Verbals, handshakes and trust don't hold up in court.

The craziest question I've been asked by a customer: "The buzzer kept going off so I pulled the wire off it, but the red light kept coming on until a week ago. It finally stopped coming on but now I have horrible sewage smells in the house and black water comes up in the shower. It goes away overnight. Is there something I should be doing, like adding enzymes to the septic tank?" We get two or three of these a year.

If I could change one industry regulation, it would be: If you own a grease trap, oil/water separator, sump system, septic tank, ATU, privately owned gravity sewer, lift station, force main or other appurtenance that treats or moves wastewater, then it should be mandated that you prove it is being operated on a regular schedule by a competent individual with training. Neglect of these systems and facilities can kill your system, harm people's health or poison the environment. Some people need to be educated, others need to be dragged kicking and screaming into compliance. It's sad that some folks need to be persuaded not to gamble with filthy conditions, and that some regulators don't enforce the rules.

Best piece of small business advice I've heard: My dad said, "Don't forget that public relations is a key part of this job." This line of



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thought encompasses so many things: Know what you're doing, be ethical, take pride in your work as if everything you do has your name on it, remain humble and don't talk down to people, if you make a mistake fix it, you represent not only yourself but the entire industry, keep your customers smiling and glad they called you, happy customers are word of mouth advertising and worth their weight in gold, if you don't have a servant heart you're in the wrong business, and be sure your employees embrace and personify all of this.

If I wasn't working in the wastewater industry, I would: Pursue fine art. I would paint, sculpt, create. That was my degree and prior calling and it still burns in me.


Crystal ball time – This is my outlook for the wastewater industry:

Owners: Some homeowners, developers and property management companies educate themselves and take to heart what service providers say. But many don't even know they have a privately owned wastewater treatment or collection facility, or what the permit requirements are. Or they've been told it's maintenance-free. My hope for the future is everyone would know roughly how their system works and what their legal obligations are, and that they need a well-trained operator.

Regulators: Some are not well-versed in their own rules and have trouble enforcing them as they don't want to appear overly burdensome to the public. Often these departments are short-staffed and under-funded. My hope for the future is regulators would strive to keep the rules current and easy to understand, systems and facilities would be well tracked and permits enforced.

Service Providers: Some don't have the proper training or certifications. Some have zero business ethics. Others keep throwing parts at a problem that could be easily fixed with simple maintenance on another part downstream. These operators put a bad face on the industry. In a perfect world, service providers would be required to pass an exam to become state certified operators and have ongoing training. **P**

- Compiled by Betty Dageforde



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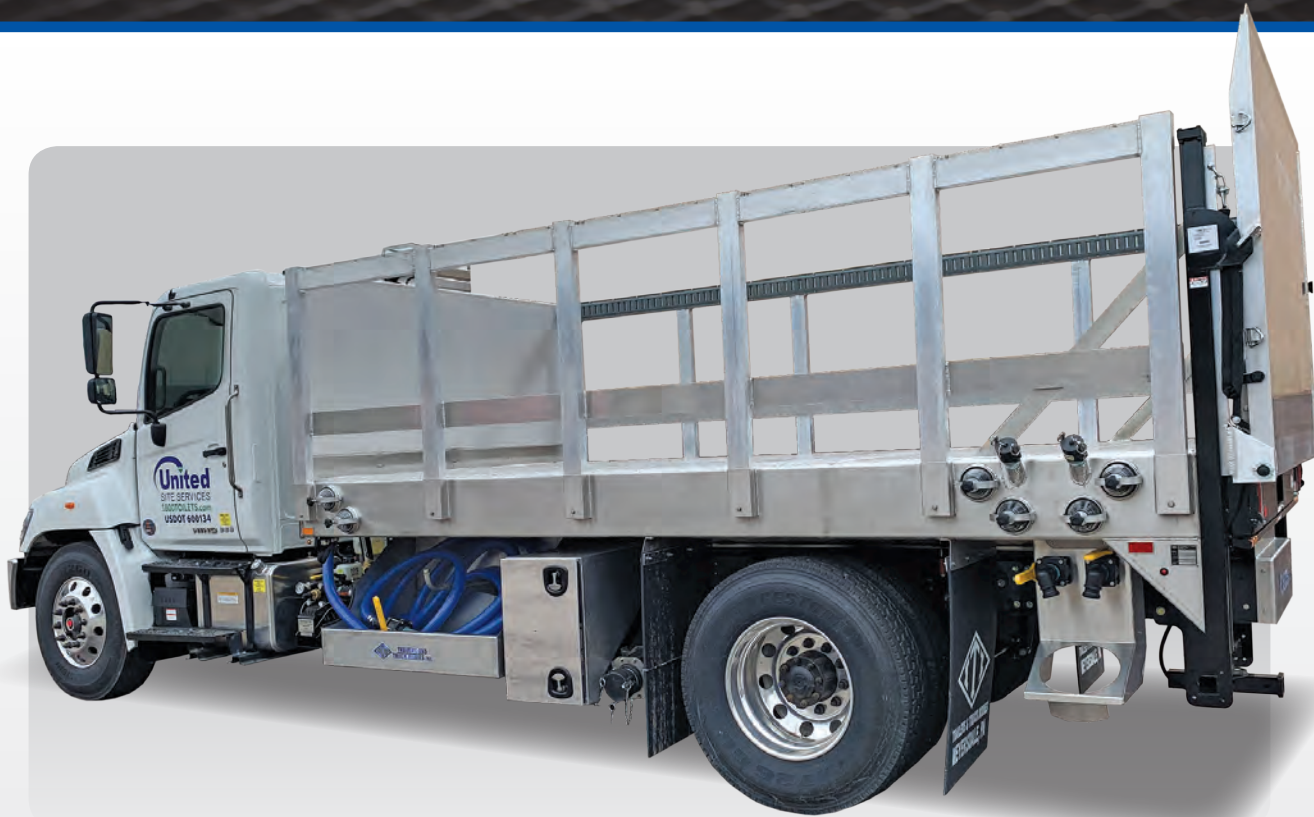
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300HP, Allison Auto, 33,000 G.V.W.R) 1800 gallon stainless steel (ITI) tank, NVE 607 ProMax package, heat collars (heat through tank), heated cabinet for ProVac unit w/hydraulic lift, Hannay hose reel w/100' 2" hose in heated cabinet.

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PROUD MEMBER OF:



Grease Trap Service and Disposal

By Craig Mandli

BACTERIA/CHEMICALS – GREASE



Century Chemical Bio-Snake Blocks

Century Chemical's **Bio-Snake Blocks** are designed to ensure proper functioning conditions for a customer's grease trap. Adding a block to the bottom of a grease trap will cause an immediate reduction in grease buildup and a 96% reduction in odor, according to the maker. The block continues to release new bacteria over a long time period and reduces effluent BOD levels by up to 80%. A time-release formula lasts up to 30 days. **800-348-3505; www.centurychemical.com**

DRAINBO drain and grease trap treatment

DRAINBO drain and grease trap treatment uses a seven-strain bacillus formula, along with derivatives of corn, coconut and citrus, to digest buildup and FOG in the complete system. When added into the drainline leading to the trap or interceptor, it will digest the buildup in the lines, eliminating backups and slow drains. Once it reaches the trap/interceptor, it breaks down and digests FOG and other proteins in the trap to ensure peak performance. Regular treatments will reduce and eliminate line and trap deposits, control odor and reduce overall maintenance/pumping time, according to the maker. It is noncorrosive and safe to use in any environment. **877-372-4626; www.drainbo.com**



Drylet BioReact

BioReact from **Drylet** is a dry-to-the-touch powder formulated to remediate fats, oils and grease in any system through microbial activity. It delivers millions of inorganic particles embedded with billions of microbes directly to the FOG layer. Because they're

protected in the engineered porous particles, the bacteria reproduce at accelerated rates. They consume and degrade solids and foam, breaking down and liquefying sludge while reducing gas and odor. It is easy to apply and requires no pre-mixing. The product can be successfully used to keep grease traps and drains unclogged in restaurants and coffee shops just as effectively as it can be applied to a municipal or industrial wastewater

treatment facility collection system and grease trap, according to the maker. It contains no chemical ingredients and no genetically modified organisms. It is nontoxic and safe for the environment. **346-980-9570; www.drylet.com**

Ecological Laboratories PRO-PUMP/DGTT

PRO-PUMP/DGTT (Drainline and Grease Trap Treatment) is a liquid, high-count culture consortium from **Ecological Laboratories** designed for commercial effluent drainlines and grease trap systems. According to the maker, it has a pleasant fragrance and is designed to work on contact to degrade line and trap deposits and control odors. It can be applied manually through drains or using a pump dosing system to help eliminate odors, clean drainlines and benefit receiving wastewater systems. **800-326-7867; www.propump.com**



HotJet USA 3n1 Total-C

HotJet USA's 3n1 Total-C additive is designed to help prevent build-up of fats, oils and grease with regular usage, keeping lines free flowing and without the odor that typically results from FOG-plagued drains. It combines all-natural citrus-based liquefiers and active enzymes with natural oil-eating bacteria to emulsify FOG without use of harsh acids, alkaline or solvents. It is used for household drains, septic systems and commercial applications. Private labeling is available for distributors. **800-624-8186; www.hotjetusa.com**



J&J Portable Sanitation Products Evergreen

Evergreen grease trap treatment from **J&J Portable Sanitation Products** is formulated for continuous application to grease traps, specifically to address institutional kitchens and restaurants. It also performs when applied during downtime. It contains selected bacterial strains, enzymes and growth-promoting factors to facilitate the breakdown of oils, grease and waste. It will also break up caked grease in neglected traps, according to the maker. **800-345-3303; www.jjchem.com**



Jet Inc. BIO JET 7 Plus

BIO JET 7 Plus from **Jet Inc.** is a nonhazardous and nontoxic bacterial aid designed to degrade FOG, fatty acids and lignin while lowering BOD, COD and nitrates. When added to a system, bacteria attack grease and organic materials, converting them to liquid and then to carbon dioxide and water. Continuous use decreases odor, maintenance and emergency blockages, according to the maker. **800-321-6960; www.jetincorp.com**



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2022 Intl HV, Cummins 350 hp ISL, Allison auto, 60k GVWR. 4200 alum tank or 4000 CS tank same price, Masport Titan pump 407 cfm, 36" alum toolbox. \$158K Plus FET

2 In Production

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Lenzyme Trap-Cleer

Trap-Cleer from **Lenzyme** is an environmentally safe waste digestant containing strong microorganisms designed to digest grease, oils, fats, starches, proteins and waste paper, according to the maker. It is used to maintain grease traps, aerobic systems, drainlines, sewage treatment lagoons, lift stations, sewer lines and other types of septic systems. It comes in premeasured packets, canisters, dissolving blocks or as fresh, made-to-order liquids. **800-223-3083; www.lenzyme.com**



RootX Grease-X

Grease-X bioenzyme from **RootX** uses natural microorganisms designed to break down and digest all types of fats, oils and grease that collect in sewer systems. The mixtures of live microbes, along with the enzymes they secrete, are suited to digesting FOG and other organic matter as it enters and flows through the sewer lines, according to the maker. The microbes adhere to the sewer line walls. In digesting organic waste, they reproduce and form colonies that continue to consume accumulated FOG. It is safe to use and won't hurt any type of pipes or the people installing them, and it can be used on garbage disposals, floor drain or grease traps. Regular application can help prevent the buildup of FOG. **800-844-4974; www.rootx.com**

Scienco/FAST - a division of BioMicrobics Mighty Mike FOGHog

Mighty Mike FOGHog bacteria treatment tablets from **Scienco/FAST - a division of BioMicrobics** are designed to naturally consume and break down the scum layer consisting mostly of FOG. Used as an ongoing maintenance procedure, the tablets can prevent the layer from building in the first place to keep septic tanks, plumbing pipes and other systems clear, according to the maker. The tablets contain an active, robust, Class 1 formula of over 25 billion organisms per gram. They are approximately 7/8 inch in diameter and 5/8 inch thick and are available in 14-, 94- and 235-tablet containers for dosing 1 tablet per 500-gpd flows for a monthly treatment. They are suitable for clogged sewer lines, septic systems, pump stations, lagoons, pipes and failed grease interceptors. **866-652-4539; www.sciencofast.com**



GREASE HANDLING EQUIPMENT



Bright Technologies, Division of Sebright Products, 0.6-meter skid-mounted belt filter press

The compact 0.6-meter skid-mounted belt filter press from **Bright Technologies, Division of Sebright Products**, has stainless steel frame and roller construction, as well as a radius wedge zone and wing roller for sludge

dewatering. Components include a sludge pump, polymer system and wash-water booster pump. Options include a sludge flowmeter, air compressor and discharge conveyors. The compact walk-around skid design can be utilized in as little as a 10-by-20-foot floor area. The Boerger rotary lobe sludge pump has a convenient maintain-in-place design. Cake solids of up to 35% can be achieved. Rates of 25 to 50 gpm make it ideal for small applications or when a processor has outgrown dewatering containers, the maker states. **800-253-0532; www.brightbeltpress.com**

Imperial Industries grease units

Aluminum and steel grease units from **Imperial Industries** are built to complement a wide selection of the latest truck chassis. The standard 700-gallon tank allows for low clearance near the common access points for parking ramp and shopping mall interceptors, often requiring only 50 feet of hose. Operator convenience extends to the choice of blower, where a positive displacement model replaces the more common vane pump, helping prevent smoke alarm triggering. **800-558-2945; www.imperialind.com**



Westmoor Conde ProVac

The **Conde ProVac** preassembled industrial liquid waste pumping system from **Westmoor** is designed to promote efficient pumping of grease traps. The unit is quiet and lightweight and pumps at 120 gpm. Flip a switch to start the unit in vacuum mode for pumping. The built-in exhaust deodorizer is designed to keep odor at a minimum. Flip the switch to pressure mode for off-loading. It can be used to service locations not suited for large vacuum truck hoses, including indoor or remote difficult-to-access jobs. **800-367-0972; www.westmoorltd.com**

GREASE INTERCEPTOR

ASHLAND PolyTraps 4800 Series

The polyethylene **4800 Series** grease interceptor from **ASHLAND PolyTraps** is an option when corrosion resistance is needed. The grease interceptor utilizes a hydromechanical process to prevent fats, oils and grease from entering sewage lines. It comes standard with an external flow control to ensure the waste flow doesn't surpass gallon-per-minute recommendations. Units are tested and certified to PDI-G101 standards and are able to withstand continuous usage with temperatures up to 212 degrees F. Units have a smooth, nonstick surface for complete cleaning. Designed for flush-with-floor or on-the-floor installation, units are offered in a wide range of sizes from 4 gpm with a 2.3-gallon holding capacity, to 350 gpm with a 560-gallon holding capacity. **800-541-8004; www.ashlandpolytraps.com**



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LIXOR from **BioMicrobics** is a nonclogging, venturi-type aeration device that supplies air in a variety of wastewater applications. Equipped with an above-ground, regenerative blower — the system’s only moving part — a continuous large volume of air is piped down to submerged devices.

The velocity of air and water increase substantially inside the venturi chamber, creating a vacuum that pulls in surrounding liquid and breaks the incoming air stream into smaller size bubbles. The result is a turbulent plume of water and bubbles that travel up through the water, transferring oxygen for biological activity and creating horizontal and vertical mixing patterns. Each submerged aeration system is designed to achieve reliable aeration and mixing performance efficiencies. Individual or multiple units may be used in many ways to help achieve desired treatment goals. **800-753-3278; www.biomicrobics.com**

ROLL-OFF CONTAINERS

AQUA-Zyme Disposal Systems ADS

The **ADS** 30-yard open-top roll-off dewatering unit from **AQUA-Zyme Disposal Systems** can be filled with 22,000 to 25,000 gallons of biosolids



at 1% to 2% solids in about two hours. After draining for 24 hours, the unit can be picked up using a standard-capacity roll-off truck and transported for solids disposal. Sludge volume can be reduced by 80% with reductions to 98% in BOD, COD, FOG and TSS. Effluent is clear, the unit has few moving parts, and the size of filter media can be selected according to job requirements. Standard equipment includes a roll-over tarp system; side, floor and center screens; 1/4-inch floor plate; 7-gauge side plates; four door-binder ratchets; eight drain ports; two inlet ports; and a long-handle scraper. Units are also available in a 15-yard size. **979-245-5656; www.aqua-zyme.com**



In the Round Dewatering horizontal drum

The horizontal biosolids dewatering system from **In the Round Dewatering** has a stainless steel drum with perforated plastic tile lining. The drum is mounted on a

roll-off frame for easy transport and unloading. Trays allow containment of discharge water. An 18,000- to 25,000-gallon batch is mixed with polymer before being filtered in the rotating drum, which is driven by a 1/2 hp variable-speed electric motor with a heavy-duty chain and sprocket. The turning eliminates crusting and wet pockets to produce uniform, consistent results. The dewatered material dumps easily, and the drum is self-cleaning. **317-563-2072; www.itrdewatering.com**

Pik Rite self-contained roll-off unit



Pik Rite self-contained roll-off units are fully operational at the pumping site without a chassis.

The heavy-duty front platform holds the user’s choice of pump and a Kohler 25 hp electric-start engine. The tank is set up with a level indicator, rear sight eyes, 36-inch top manway, 20-inch rear manway, 3-inch intake with an internal 3-inch standpipe, and a 4-inch discharge. The low-profile, 12-inch primary shut-off is paired with a 10-gallon secondary shut-off. Spray-on protective liner protects hoses and promotes durability. Work lights and a safety beacon are mounted on the rear tank head, and a ladder is mounted on the side. Polished aluminum hose trays and custom paint finish are standard. Other customizable options are available. **800-326-9763; www.pikrite.com**



Pinnacle roll tarp sludge container

Roll tarp sludge containers from **Pinnacle** come standard in 20-, 25-, 30- and 40-cubic-yard capacities. The radius-bottom containers have 1/4-inch floors and 3/16-inch sidewalls. All containers

are water-tested to the top of the container for 30 to 45 minutes and come standard with a side-roll tarp. Custom sizes, dewatering baskets and other modifications are available. All are blasted prior to painting, and the shell is powder coated. **256-840-8031; www.pinnaclelmg.net**

SCREENS/STRAINERS/SCREENING EQUIPMENT

Park Process SkimPro

The **SkimPro** floating skimmer from **Park Process** is designed for use in backwash receiving tanks to skim clear water and recycle it back to the clean-water flow. The unit is constructed of 316 stainless steel with a skimmer head that is designed to handle whatever flow is required for the particular application. **855-511-7275; www.parkprocess.com**



ScreencO Systems Trash Master 400 Auto Screen



The **Trash Master 400 Auto Screen** from **ScreencO Systems** uses gravity to separate the trash from the flow stream through a 4-inch inlet with a fan spreader to power-offload

vacuum trucks. It has an aluminum hopper with a 6-inch outlet cam and 3/8-inch gapped 1/4-inch bar screen that meets U.S. EPA 503 regulations. A stainless steel U-channel with plastic-lined titanium UHMW provides for years of wear, with a high-strength alloy steel 8 1/2-inch shaftless screw that moves trash to a waste container. The stainless steel U-channel has slotted drain holes and a center channel bar screen for cleaner and dryer trash. A custom-built stainless steel bar rake is included for easy maintenance. A front spray bar with a 1 gpm nozzle keeps the unit clean and free of buildup. A 2 hp NORD gear reduction drive with Lenze variable-frequency drive control accomplishes a variable-speed screw from 6 to 30 rpms. **208-790-8770; www.screenosystems.com**

(continued)



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SLUDGE SAMPLING EQUIPMENT



Sim/Tech Filter TruCore

The **TruCore** from **Sim/Tech Filter** is a large-diameter, accurate, user-friendly sludge sampler designed for use in sludge common to septic tanks. It allows samples to be taken quickly without creating excessive turbulence, as there are no restrictions caused by valves, stoppers or flaps. With a 1 3/8-inch I.D., the capacity per foot is almost 10 ounces. The straight-through design allows the sample to be effortlessly returned to the tank. The unit is made of a polycarbonate sampling tube (marked every foot) and PVC fittings. It comes as a single-piece, 8-foot unit or as two 4-foot units that slip together. Custom sizes and configurations are also available. A simple and customizable extension kit is available for deeply buried tanks. **888-999-3290; www.simtechfilter.com P**

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NAWT O&M 2 by CPOW

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Location: Virtual Online Course

Contact: Lisa Nicoll cpow@cpow.net

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INDUSTRY NEWS

Little Giant celebrating 80th anniversary in 2021

Franklin Electric brand Little Giant is celebrating its 80th anniversary in 2021. The company is marking the occasion with a series of initiatives planned throughout the year, including a revitalized brand look.

Imperial Industries expands

Imperial Industries added an 8,000-square-foot building to its existing 246,000 square feet of space to expand capabilities for service work. The company, based in Rothschild, Wisconsin, offers a full line of replacement and custom parts and accessories for vacuum waste tanks and trucks. **P**

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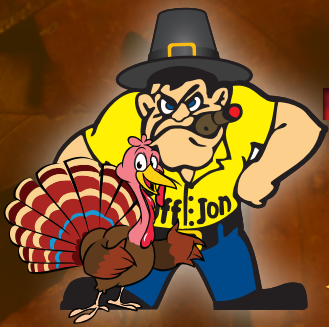
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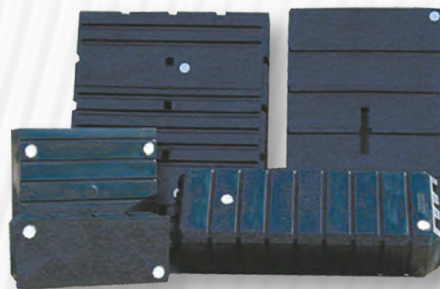
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**in the
SPOTLIGHT**
By Tim Dobbins

FRANKLIN ELECTRIC PUMP ATTACKS CLOGGING AND BINDING ISSUES

No matter if it's in a commercial or residential system, effluent and sewage can be tough on the equipment that moves it. So having the right pump for the application is crucial. Franklin Electric used its experience in the industry to identify an area of need and developed the Little Giant 16G Series of grinder pumps.

"Clogging and pump binding is a topic we've seen only get more attention as time goes by," says Kyle Johnson, product manager of grinder pumps for Franklin Electric. "Issues can compound when you look at fractional horsepower of sewage/effluent pumps, because they lack the power to clear debris."

According to Johnson, the Little Giant 16G can provide the right amount of power and torque to grind debris into slurry. "In many cases, transitioning from a 4/10 or 1/2 hp pump to a 2 hp grinder is impractical, and this is where the 1 hp grinder pump often proves to be the best fit," he says.

For this reason, the Little Giant 16G Series are 1 hp pumps offered in both 115- and 230-volt options. The units are primarily for residential and light commercial applications and serve as a drop-in replacement for any effluent or sewage pump that is struggling with clogs and binding, Johnson explains.

Johnson says that Franklin Electric used its vast experience building pumps to design the 16G grinder pump to work effectively.

"We continued to build on our organizational commitment to quality, integrating additional features throughout development," Johnson says. He explains that product benchmarking "focused on multiple aspects, including grinding capability and accelerated life testing."

The series incorporates a sealed, 20-foot replaceable power cord, a heavy-duty Class F motor with silicon carbide mechanical seals, nonskid feet and dual discharge types and sizes.

"The 16G Series cutters provide an astounding 745,200 cuts per minute, preventing flushables and other debris from causing clogs and downtime," Johnson says. "We continuously improve our products and processes to deliver valuable and innovative solutions that better serve our customer's needs," Johnson says. Each pump comes with a three-year warranty and is 100% factory wet tested.

844-250-4982; www.littlegiant.com

COXREELS OPTIONS FOR V-100 VACUUM SERIES REEL

The Coxreels V-100 Series product line now offers a 1 1/4-inch vacuum hose reel, model V-112-735 without hose and model V-112H-735 with hose. It has a smaller frame size featuring 12-inch diameter discs instead of the original 17-inch diameter discs and is designed for use with 35 feet of 1 1/4-inch vacuum hose. The outlet connecting to the hose remains 1 1/2-inch and the 1 1/4-inch hose comes equipped with 1 1/2-inch slip cuffs on both ends for maximum flow. A new swivel design allows for the connection of multiple hose sizes by using the inside and the outside of the housing, but a greater gradual taper has increased the amount of compatible inlet hose cuffs. The hose has a flexible, crush-proof smooth interior hose suitable for commercial cleaning applications and is equipped with standard 1 1/2-inch threaded hose cuffs on both hose sizes. 800-269-7335; www.coxreels.com



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2012 Hydro Excavator HE Guzzler, Kenworth T800. Cummins ISX12. Engine Miles: 50,583. Engine Hours: 7,710. Blower Hours: 3,330. ASKING PRICE: \$205,000 Located in Kalamazoo, MI. Taplin Group, LLC. Full spec sheet and additional photos available upon request. **Contact: Mike Taplin 269-207-2487; 269-375-9595 or email: MikeTaplin@taplinholdings.com. MI (P11)**

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2012 Dodge Ram 5500 6.7l Diesel, 2-wd, auto, Imperial Alum tank 775/400. 287,000 miles. Asking \$30,000. 724-459-5680. Blairsville, PA. (P11)



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New 4,000 U.S. gallon, aluminum, vacuum tank. Mounted on a 2022 Peterbilt 348 cab and chassis w/ a NVE Challenger 887 vacuum pressure pump package. Stock #13992 \$194,480.00 **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)**



1997 International 4900. 32,000 GBW. 2,300-gal 10-year-old back tank. DT466. 6-speed. Juroop R-260 363 cfm pump. **Call JR @ 720-253-8014. CO (PBM)**



95 Freightliner. 5,000-gallon. Air Ride motor rebuild 3k ago. 2-year warranty on tank from manufacturer. Morrow liquid cooled vac. \$39,500 obo. 93 International Allison automatic with a Built 99 dominator tank dump 3,500-gallons **\$27,500 obo. Both ready to work. 614-778-63 (P12)**



2001 International vacuum truck. Cannot be used in California because of smog laws. Automatic. DT466E. 2 Axle. Tank size approximately 2,300-gallons. Thompson vacuum pump. 6-cylinder. New brake job. Runs very good & is ready to go to work. **\$30,000.00. Text or call 661-599-7336 (P11)**



2004 Kenworth T800. 4,000-gallon tank for \$55,000. Text or call **505-927-0871 for any additional questions. (P11)**



2013 367 Peterbilt- 500 15X Cummins. 13-speed air ride suspension. 245,606 miles. 5000-gallon Imperial tank. 400 Masport liquid cooled pump, rebuilt in June 2021. 4" front air valve. 4" NVE re-buildable load valve. 6" air dump valve. 1" lime valve. 2" moisture trap valve. All valves with heat jackets. 4 toolboxes. Water tank. Sea level gauge. New clutch in Sept 2021. **Contact Ken Begalke @ 715-595-4892. Asking \$92,000. WI (P11)**



2005 Peterbilt. 315hp. Cummins. 179k miles. 8LL trans. A/C. Cruise. Double frame. 3000-gallon tank with hoist and full open rear door. Challenger 608 vac-pump, and new paint. Very Nice Truck **\$52,000. Delivery And Financing Options Available. Call: Hull's truck Bodies, LLC at 740-820-5338. OH (P11)**



2010 L2141 EB Peterbilt. 1SM 410 Horse-power. Cummins Engine. 4500 Allison automatic transmission. 3,800-gallon imperial steel tank. Witting Vacuum pump. 200-gallon freshwater tank. New tires. New brakes. Air ride suspension. Heated valves. Sea level gauge. 306,000 miles. **\$88,000. Call Dan at 715-829-7400. WI (P11)**



2013 Freightliner SD septic truck for sale. Detroit Diesel DD13. Masport Pump. Truck is in good condition. **Call Cory for more info 330-807-1490. OH (P11)**



Septic Truck For Sale: 1998 FL70 Freightliner. 2,500-gallon dump. Tank is six years old. Fruitland pump 500, 3126 CAT motor. Truck runs good and ready to work. Asking price **\$30,000. For more information call 315-893-7110 and ask for Ray. (P11)**



1992 Kenworth. 3176 Caterpillar 10-spd fuller air ride. 3,200-gallon tank. Weinstein pump. **\$30,000. Call or text Patrick for more info 859-991-9316. (P11)**



2006 International 8400 series 624,000 miles Cummins engine. The tank and pump are 4 years old. Heated valves. Gallon meter. Comes with hoses. Always maintained. Good tires. No issues it's ready to work. **Call or text 937-926-1482 anytime. Asking \$32,000. OH (P12)**



Selling my 2009 5900i International Paystar vacuum truck. C-15 cat. 18-speed. 97,000 miles. Newer tires all around. Heavy front, full lockers. 3,360-gallon tank, high pressure fresh water system, Brand new Masport 407 c.f.m. air cooled vac pump. Runs excellent. Ready to work. Going out of business after 65 years. **Asking \$65,000, call Don 608-558-0870. Thanks for your interest. WI (P11)**



1998 Ford F800 Septic PUMP Vacuum Truck. 2000-gallons. Cummins diesel engine. Runs good. Hydraulic brakes and good vacuum. **\$13,950 Call Mr. Shannon 228-342-8304. MS (P11)**



2002 Mack CH600 with 4,000-gallon steel tank. We use this truck daily so miles will go up. Has approximately 734,000 miles. New Mack remanufactured motor at 650,000 miles. I just had a new transmission synchronizer and clutch installed this last spring. Spent about \$6,000. Absolutely nothing mechanically wrong this truck. AC blows cold, does not use or leak oil. Has a very strong NVE pump that works like it should. 8 out of 10 tires are like new. Has the Mack 18 speed transmission. Only reason for selling is we purchased smaller truck. May consider trades for a good work truck of comparable value or cash with it. **\$40,000. Located in Winder, Ga. Message me if interested at 678-221-7567. (P11)**



2022 Mack MD6 and MD7. 2,100 OR 2,500-gallon tank. New jurop R260 vane pump. Toolbox options available. **\$119,995 RAY: 501-388-9565 or BRETT: 501-388-9464. AZ (P11)**

Vacant manufacturing facility, 51,000 square feet with high capacity well, with or without pretreatment sewage facility. 2000 Freightliner with 4,100-gallon aluminum tank. 1991 GMC with 2,300-gallon tank. 1979 Articulate John Deere tractor (50 series engine) and 3,300-gallon Balzer tank with injectors. Call 920-290-6452. (PBM)



2004 Freightliner FL70. Good condition, well maintained. CARB non-compliant. 2,800-gallon aluminum progress tank. Aluminum wheels. **\$25,000. OBO. Rick 209-480-1102. CA (P11)**



2013 T8 10 5 25 Cummins. New eight low transmission. New Clutch. New PTO driveshaft and gearbox. Original Vacuum Truck built By Abernathy 5500-Gallon Steel. AM/FM. AC. Navigation. **Power windows and mirrors. 850-902-9044. (P11)**



2014 Freightliner 2,500-gallon waste tank with jetter, Model M2. **Price \$74,000. Call Andrew at 561-302-7195. FL (P11)**

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2022 Peterbilt 348 cab & chassis with NVE Challenger 887 fan cooled vacuum pump. (Stock #13987). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

2001 Freightliner cab & chassis with a Keith Huber, 4,000 gallon c/s full open rear door dump unit. Stock # 7896C. **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

2001 Freightliner C-120 cab & chassis with a 2006 Presvac 3,200 U.S. gallon, C/S, dump type unit with a Presvac PV750 pump. (Stock #0480C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

1997 Peterbilt 378 cab & chassis with a Presvac 3,000 U.S. gallon, C/S, vacuum tank & Masport HXL15WV water cooled pump. (Stock #6625C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

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2013 Freightliner Cascadia, Cummins ISX 450 hp, automatic, 487K miles, NEW 3,500-gallon vacuum tank, interior tank lined and coated, NEW Masport vacuum pump, aluminum hose trays, 36-inch rear manway. **\$70,000. Phoenix Truck Center - Atlanta, GA 404-844-8968. (PBM)**



2012 Mack GU713 Granite, MP8, 18-spd, 340,578 miles, original heavy spec truck, 82,000lb. gvww, 18,000lb. front axle/44,000lb. camelback rears suspension/third axle, Jake brake, 4,650-gallon vacuum tank, Masport pump, excellent mechanically, truck serviced and DOT inspected. **\$75,500. 404-844-8968. (PBM)**

Pre-owned 1984 Mack R686ST cab and chassis with a 3,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock # 6115C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

Pre-owned 2000 Mack RD686S cab & chassis with a 4,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock #0514CV) **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**



2018 International 4300, 56,000 miles. Cummins engine, Allison Automatic. New 2,500-gallon tank. New Moro pump PM70. **Call Alan for price. 786-908-5436. FL (P11)**



2011 Freightliner M2, 221,136 miles. Detroit engine DD13. Automatic, 450-hp. Original double frame from factory. New 4,000-gal tank, new Masport Hydra plug and play. **Call Alan for price. 786-908-5436. FL (P11)**

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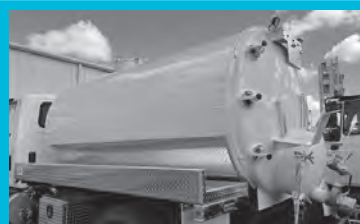
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2005 4000-Gallon Pres-Vac Tank with Pres-Vac 750 Pump. Asking **\$7,500 call or text Clay 216-798-4877. OH (P11)**



One used steel vac tank 1,500/500 w/ Moro hydraulic AC4 vac pump. **Call JR @ 720-253-8014. CO (PBM)**



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2007 Dragon 5460 c/s vacuum tank trailer. Stock # 2173C. www.vacuumsalesinc.com (888) VAC-UNIT (822-8648) (PBM)

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In stock, 6000- and 6300-gallon aluminum single-compartment Imperial vacuum trailers. **Call Cory 800-558-2945 Ext. 426 (PBM)**



2005 Sterling vacuum truck (model# LT-8513). 350,000 miles. 3,600-gal. steel Imperial tank. CAT C7 engine. 8-speed. Challenger NVE pump (model# 866). Heated valves & SeeLevel gauge. \$20,000 obo. If you'd like additional photos, please e-mail info@zeitters-septics.com. Located in Morris, IL. on N. Rte. 47. **Please contact David at 815-693-2929 with inquiries. (P11)**

TRUCKS (DUMP, SEPTIC, MISC.)



FOR SALE: 2010 Mack Titan tri-axle vacuum truck. 5,400-gal tank. Mack engine 605HP. 18-speed. 86,000 lb GVWR. 222,774 miles. **\$99,900. Contact RJ Trucks 800-667-4173 OR EMAIL SALES@RJTRUCKS.COM. www.rjtrucks.net (P11)**

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2005 Hino Grease Trap Pumper / High Pressure Jetter Cleaning Truck --- Mileage: 161,0020 --- Ideal Truck for Restaurants, Schools and Super Market Grease Trap Cleaning and Jetting --- Price: **\$25,000** --- **Contact: Frank King 978-452-7750. (PBM)**



2012 Freightliner M2. 12-spd Eaton fuller for \$76,000. New 4000 gallon single compartment tank; reinforced sills with composite isolation boards; 12" primary shut off with 4" plumbing; 20" top manhole; 36" rear manhole; steps to reach the top manhole; reinforce anti-surge baffle; interior ring stiffeners as required; full length aluminum hose trays; 4" rear intake load pipe with deflector guard & a brass lever valve; 6" dump discharge with a brass lever valve; 36" frame mount toolbox; two rear hose hooks; three 5" site glass; New LED lights; 6 year tank warranty against cracking & leaking; New Massport viper 405CFM Vacuum/Pressure Pump. **Call or text (704)231-3443. (P12)**



1995 Ford L8000, 2500 Gallon Hoist Tank, Full Rear Open, and Fruitland Pump. It has 237K Miles. **\$18,500 OBO. Call or Text Clay at 216-798-4877. OH (P11)**



1991 Freightliner. 3400-gallon tank with Masport pump. It has 207K miles. Asking **\$20,000 OBO Call or Text Clay 216-798-4877. OH (P11)**



2013 International, 52,000 GVW, 270 HP, only 77,000 miles, equipped with NEW hydraulic set bed, 12,000 lb capacity. **\$64,000. Call Dewayne 256-338-4985. (PBM)**

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2003 SuperSucker vacuum loader, 27' blower with spare blower for the truck. 400 HP with Fuller 14708LL trans, 44k rears 20k front. Very clean and runs excellent. KLM Companies 617-909-9044. (PBM)

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VACALL ALLVAC AVR8, 18-yard debris body mounted on a 2014 Freightliner 114SD cab and chassis. (Stock #033R). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

2015 Freightliner 114SD cab & chassis with a VACALL AVR8-18 industrial vacuum loader. (Available for rent or purchase). (Stock # 039R). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

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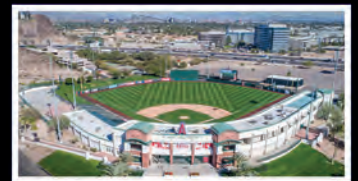
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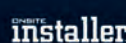
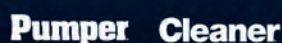
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