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## Party of **ONE**

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➤ **PROFILE:**  
Roll Tide with this pumper

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**Jim Kneiszel**  
Editor

# Why Aren't We Getting Past "Flushable" Wipes?

Despite lawsuits and media trying to set the record straight, consumers still believe the misinformation spread by makers of woven wipes that won't break down in the septic tank

**G**etting action to require the makers of popular "flushable" wipes to market the products accurately is proving to be more difficult than handling the fatbergs of the woven wipe material as it comes out of the septic tank.

Pumpers have been grappling with this messy situation for far too long, as have municipal treatment plants whose waste streams are being overwhelmed by the convenience products popular with household consumers. While the companies that manufacture wipes are raking in millions of dollars, pumping companies are wasting manpower raking the stubborn wipes off bar screens, out of vacuum truck tanks and away from their suction hoses.

The wastewater industry has been fighting this battle for years. Customers tell pumpers the wipes packaging says the products are "flushable," so they don't understand how they could be the cause of clogs in tanks and even system failure when the problems make it through the septic and pump tanks and work their way into the drainfield. Pumpers explain the wipes packaging is misleading and that just because a wipe will flush down the toilet doesn't mean it will harmlessly break down in the septic tank the way toilet paper does.

No matter how septic service providers try to educate the public, they still routinely encounter clumping masses of wipes that lead to backups, more frequent pumping calls and misplaced rage from customers. I'm sure you all have stories of how wipes can ruin your day — not just with customer complaints — but with slowing down the progress of your crews and impacting your bottom line.

## IT'S HAPPENED TO YOU

Take Danny Duncan, for example, owner of Duncan and Daughters Septic Service in Bardstown, Kentucky. I like to catch up with Danny every so often to see how he's doing and how business is going in the Bluegrass State. During a recent phone catch-up, Danny shared wipes story from the previous week that is probably — and unfortunately — too familiar to the rest of the *Pumper* community.

He'd rolled up on a service call, popped open the septic tank and started digging around with his Crust Busters. Finding layer upon layer of wipes, he knew he was going to be there a long time clearing his blocked suction hose and capturing and segregating a pile of wipes outside the tank for proper disposal. Surveying the mess, he shut down the pump and called

➤ This evidence only confirms what pumpers have been seeing in the field, that wipes ... are still being used at an astonishing rate. On one hand, the manufacturers are continuing with misleading product labeling. On the other, consumers want to believe wipes are flushable because they are remarkably convenient to use.

the customer who wasn't home at the time, explaining that he would have to charge \$50 extra to bag and dispose of the wipes.

He thought \$50 was a bargain considering how much work lay ahead of him. The customer thought differently, asking Danny to leave the wipes on the ground for her to handle later.

"I'll bet when she got home and saw the pile, she regretted that decision," he told me. It's doubtful the customer understood that wipes actually don't break down and underestimated her family's use of the product. Danny was kind enough to share a few photos that are typical of the problem pumpers continue to face with so-called "flushable" wipes.

## LEGAL WRANGLING

I'm sure it's obvious to all of you that the wipes problem isn't going away. So what's the status of efforts to hold the makers of these products responsible for a massive misinformation campaign? Well, there has been some progress on the legal front, but not much considering the damage wipes have caused over several years.

First, *Bloomberg* reported in 2021 that wipe maker Kimberly-Clark reached a settlement to come up with better labeling for its products and manufacturing changes that would see the Cottonelle brand of wipes meet wastewater industry "flushability" standards by this month. In a statement, Kimberly-Clark said the wipes "pass widely accepted flushability specifications and are tested with plumbers."





Every time a suction hose clogs with wipes, the pumper has to stop and remove the blockage.



Danny Duncan shared job site photos of the wipes issues he encountered during a recent pumpout. Maybe if customers saw what wipes were doing to their septic systems, they would stop using them.



Believe it or not, the homeowner would prefer to expose themselves to pathogens by bagging and disposing of a wipes pile like this rather than pay a \$50 upcharge for the pumper to safely haul it away.

The wipe maker's settlement came after the company was sued by the Charleston, South Carolina, water management system. A water authority representative, Mike Saia, applauded the settlement but has said there is a lot more work to do.

"We feel Kimberly-Clark is less than 10% away from the flushability testing to be flushable," Saia said in a story by the Alabama website, AL.com. However, he said none of the other manufacturers are close to making wipes septic safe.

"What we want is for them to do two things. Change the physical makeup of the wipe, so it's in fact flushable, and improve their packaging to make the marketing say that they do not flush for the non-flushable wipes," he concluded.

The *Bloomberg* story noted that lawsuits are ongoing against other companies, including Costco Wholesale, Procter & Gamble, CVS Health, Target, Walgreens Boots Alliance and Walmart.

## SEWER AND SEPTIC

The law firm Morgan and Morgan, spearheading a class action lawsuit against wipes manufacturers, notes on its website that homeowners report issues with plumbing systems related to these products, including toilet clogs, increased utility rates, septic backups and septic system failure.

It says that wastewater treatment plants in the Washington, D.C., area report that wipes caused a 35% increase in broken pumps and clogged sewer lines. A suburban Washington sanitary commission reported spending \$1 million installing a special grinding system to shred wipes and other debris before they reach the pumps.

Morgan and Morgan noted a study in which municipal sewer workers dyed Kirkland brand wipes in bright colors and monitored them as they traveled one mile through the sewer system. When retrieved, the "flushable" wipes were still intact and showed only minor rips and tears.

All this evidence only confirms what pumpers have been seeing in the field, that wipes said to be "flushable" are still being used at an astonishing rate. On one hand, the manufacturers are continuing with misleading product labeling. On the other, consumers want to believe wipes are flushable because they are remarkably convenient to use.

## COPING WITH WIPES

And so it appears this wipes problem won't be solved on a broad scale anytime soon. You're going to continue to run into revenue-killing clogs

on your service routes. What can pumpers do to educate customers and ensure sustainable profits for their companies? I have a few ideas:

### Make wipes a cornerstone of your consumer education program

Don't miss any opportunity to explain this problem to your customers. Include information about the controversy on your website. Post blogs reviewing media stories about wipes lawsuits. Add wipes to a checklist of topics to discuss face-to-face with customers when making service calls. Tell customers to throw wipes out with the trash rather than send them to the septic tank.

### Red-flag systems where you have found a wipes problem

Make note of wipes usage on your service record form. Warn homeowners of the threat these products cause for their entire septic systems. The next time you are called to these flagged households, review any potential charges the customer could face for more time on the job or wear and tear on your equipment if wipes are encountered. Keep careful maintenance notes in the event these systems deteriorate because of wipes usage.

### Create a plan to continue to charge for profitability on every job

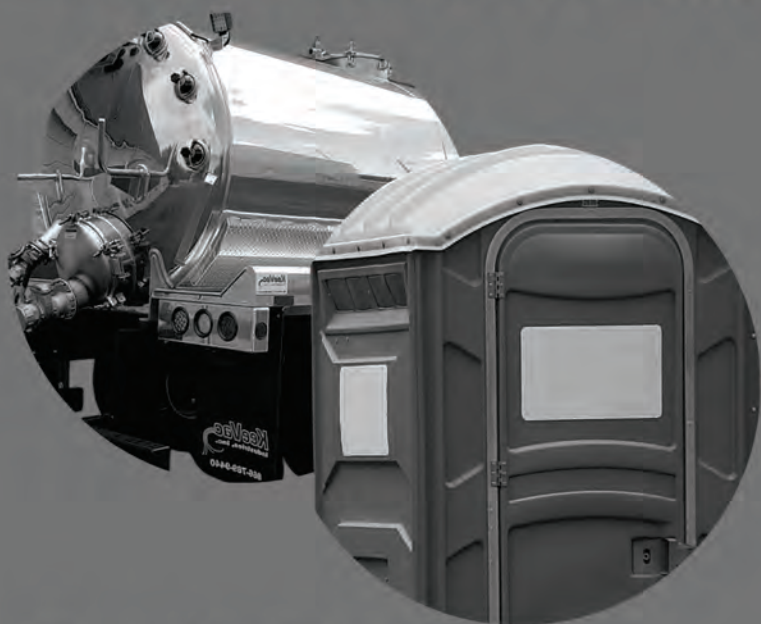
Pumpers who have a fixed pumping fee risk losing money when they encounter a tank heavily filled with wipes. Excessive wipes take additional time on the job and could lead to issues with your disposal partners. It's not acceptable for pumpers to bear the brunt of these additional costs. Find a good mechanism to charge for the added workload, whether that is a fixed upcharge, an added disposal fee based on weight or volume of wipes or by charging an hourly rate for time and materials.

## SHARE YOUR IDEAS

Wipes are a growing source of frustration for pumpers. ... Danny Duncan is one of many who can attest to that. Industry-wide, wipes are creating a slow leak of profitability from our small business owners who can't afford the losses. Assuming an end isn't in sight to this problem, let's share our experiences and solutions for how to limit the impact of wipes on the pumping community. If you have additional ideas on how to cope with "flushable" wipes, drop me a line at [editor@pumper.com](mailto:editor@pumper.com) and I will pass along your thoughts in a future column. **P**



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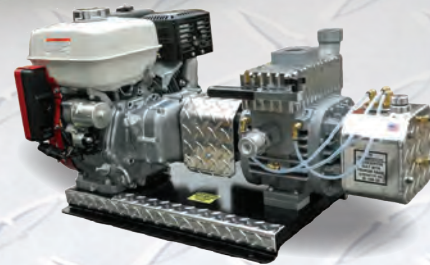
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👤 Karen Hamblen  
now works part time  
with husband Jeremy,  
handling office duties.  
(Photos by Kevin Brusie)

## Gorham Septic Service

Gorham, Maine



**OWNERS:** Jeremy Hamblen

**FOUNDED:** 2004

**EMPLOYEES:** 2

**SERVICE AREA:** 20-mile radius around Gorham

**SERVICES:** Pumping residential and  
commercial septic tanks

**WEBSITE:** [www.gorhamseptic.com](http://www.gorhamseptic.com)

# Party of ONE



Jeremy Hamblen's no-frills business  
model and singular focus keeps his  
business humming along

By Ken Wysocky



Over the years, Jeremy Hamblen has developed a business philosophy that's as simple and basic as Gorham Septic, the one-man pumping company he owns and operates in Gorham, a city just northwest of Portland in southern Maine.

"I provide the best service I can for people," says Hamblen, 46. "I'm honest with customers. I charge a fair price. And all I do is pump septic tanks."

"I know I'm not going to get rich and retire at age 50 or anything like that," he adds. "But this job allows me to do the things my family wants to do. It's done good by me — I made a good choice."

Many pumpers can no doubt relate to Hamblen's career arc. After graduating from high school, he held several construction-related jobs for a while, worked for a logging company and then jumped into the excavation field.

"I was at a point where I was generating enough business that I'd need to hire a few guys and buy some new equipment," he recalls. "But I didn't want to deal with employees, so I kept an eye out for a company I could run by myself."

Then he heard about Gorham Septic. "I immediately thought, 'That's something I could do by myself,'" he recalls. But the owner, Donnie Keene, told me he was too young to sell the company.

A short time later, Keene told Hamblen about a septic pumping company that was for sale, Yarmouth Septic, based in nearby North Yarmouth. Hamblen bought that company in 2004 and moved it to Gorham.

Business was slow at first; Hamblen held down several part-time jobs for the next six or seven years before there was enough business to sustain working full time.

But then came the game-changer: In 2016, Keene told Hamblen he wanted to sell Gorham Septic. Today, about 75% of the company's revenue comes from pumping residential septic tanks, while pumping commercial tanks generates the balance, he says.

### LONG HARD HOURS

Operationally, the business hasn't changed all that much since Hamblen bought it. The entrepreneur still works alone, preferring to avoid the headaches that come with hiring and managing employees; and he hasn't added any services, opting instead to focus on doing one thing really well.

“THE HOIST ADDED ABOUT \$10,000 TO THE COST. BUT IT WAS WORTH IT. I'VE NEVER HAD A TRUCK WITH A HOIST, AND NOW I'LL NEVER BUY ONE WITHOUT IT.”

JEREMY HAMBLEN

✂ The newest money maker for Gorham Septic Service is a 2020 Western Star with a 4,000-gallon aluminum tank built by Imperial Industries. The truck features a Challenger 887 pump from National Vacuum Equipment.







▲ Jeremy Hamblen prepares to pump another septic tank. His new truck carries a bigger load, improving efficiency for a one-man, one-truck operation.

► Hamblen ran a long hose to pump this residential tank in Maine.

“I stay pretty busy just pumping tanks,” Hamblen says, noting that buying Gorham Septic more than doubled the size of his business, leaving him no time to provide other service. On an average day, he pumps eight to 12 tanks and routinely puts in 10- to 12-hour days.

“The year before I bought Gorham Septic, I was pumping 660 tanks a year,” he says. “Now I do about 2,000 tanks a year.”

How does he keep up that pace?

“I don’t know,” he says with a laugh. “I just do it. The schedule book is full, so you have to get the jobs done.”

What if customers need other services, such as repairs or installations? Hamblen says he refers to them to several other local companies with which he’s developed good business relationships.

“I only recommend companies that I’d feel comfortable having work at my house,” he says.

### BIG RIG PROVIDES A BOOST

The huge increase in volume did spur one big change: The purchase of a truck with a significantly bigger tank — about 43% more capacity than the 2,800-gallon tank on the 2018 International truck that came with the business purchase.

“With the much larger volume of work, the old truck just wasn’t cutting it anymore — I was making too many trips to the treatment plant,” Hamblen explains. “One plant is in Sanford, about 30 miles away, and the treatment center in Portland is 10 or 15 miles away.”

So Hamblen invested in a 2020 Western Star truck equipped with a 4,000-gallon aluminum tank built by Imperial Industries. The truck also



“WHEN YOU TRY TO DIVERSIFY, YOU SOMETIMES LOSE FOCUS ON ONE THING IN ORDER TO MAKE SOMETHING ELSE WORK. SO I’D RATHER KEEP THINGS SIMPLE AND DO WHAT I DO.”

JEREMY HAMBLÉN

features a Challenger 887 vacuum pump (532 cfm) made by National Vacuum Equipment.

The truck quickly paid dividends by substantially reducing weekly windshield time for Hamblen and decreasing fuel costs and vehicle wear and tear.

“The bottom line is I can get a lot more work done each day,” he says.

Hamblen says he doesn’t spend a lot of money on marketing his business. For starters, Gorham Septic was 40 years old when he bought it, so the company already had established a solid reputation and built up good brand recognition. Word-of-mouth referrals are the company’s best form of advertising, he says.

“If you do the best work you can and treat customers good, they’ll stay with you and also get you more customers by spreading your name around,” he says.

(continued)



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► Jeremy Hamblen wrangles hoses for a septic service call in Maine.

"Another reason I keep growing is that I charge a fair price," he says. "I'm usually not the highest or the lowest. I'm in the middle, so to me, that's a fair price. I'm not cheating myself just to get work and then not making any money, but I'm not over-charging, either."

"Sure, I want to make money," he continues. "But I also like to sleep good at night."

### MANY COMPETITORS

Charging a competitive rate is important because there are five other small pumping businesses in the area, as well as a couple of larger companies. But Hamblen says he doesn't reduce his prices to match those charged by low-balling companies.

"We're all usually within \$15 of each other," he says. "But newer guys seem to lowball more because there's always a small amount of people who make decisions about pumpers based only on price."

"I've had some customers tell me my prices are too low," he continues. "But I've also had people ask me to match a price \$5 cheaper than me. I tell them absolutely not. I'd rather lose a job than drop my price. When people work at my house for, say, a refrigerator repair, and they charge me \$200, I don't ask for a discount. It's just the principle of the thing."

Hamblen also gives his wife, Karen, credit for the company's success. She started helping him on a part-time basis in mid-2020, handling things such as invoicing, paying bills and other administrative tasks.

"Before she came on board, I did everything," he says, noting she also holds a second part-time job. "So having her around has been a huge help. At the end of a long day, I don't have to sit down and work some more."

“ I PROVIDE THE BEST SERVICE I CAN FOR PEOPLE. I'M HONEST WITH CUSTOMERS. I CHARGE A FAIR PRICE. AND ALL I DO IS PUMP SEPTIC TANKS. ”

JEREMY HAMBLÉN



► As an owner-operator, Hamblen can take the time to educate customers.

### STEADY GOING

Hamblen doesn't have big plans for future growth. "I can't do much more than I'm already doing," he says. "I'm already giving someone else my riser work because I just don't have time."

Hamblen also doesn't want to diversify by adding more services, which would offer another path to growth. "When you try to diversify, you sometimes lose focus on one thing in order to make something else

(continued)





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Hamblen connects the suction hose to his truck for one of 8-12 daily pumping calls.

work,” he explains. “So I’d rather keep things simple and do what I do.”

Furthermore, diversification would require Hamblen to hire at least one full-time employee, a road he doesn’t want to drive down.

“It’s hard to find someone who wants to work in this industry — you need to have the right mindset for this job,” he adds. “And even if I could find someone to hire, you’d have to pay them top dollar.” As such, Hamblen says he’s content to maintain what he has.

“I always grow a little bit each year,” he says. “But at some point, that’ll come to a halt and business will plateau. But I’ll be pretty happy with that.” **P**



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## Bigger truck was a game-changer

The only real regret Jeremy Hamblen has about his 2020 Western Star vacuum truck — the backbone of his one-man septic pumping business, Gorham Septic — is that he didn’t buy it sooner.

“I always tell people I wish I would’ve bought a bigger truck 10 years earlier,” he says.

The truck, which is equipped with a 4,000-gallon tank made by Imperial Industries, cost about \$220,000. While that’s a significant investment for a small company, it dramatically increased Hamblen’s efficiency by minimizing trips to local treatment plants, which are roughly 15 and 30 miles away, respectively, from the company’s home base in Gorham, Maine.

Investing in a truck with a larger tank also decreased transportation costs and daily vehicle wear and tear, not to mention gave Hamblen time to pump more tanks per day, thanks to reduced windshield time for disposal runs.

“After I bought the truck in 2020, I pumped 250 more tanks than I did in 2019, but I drove 6,000 less miles than the previous year,” he says.

The tandem-axle truck features a Challenger 887 pump (532 cfm) made by National Vacuum Equipment. Its tank capacity is about 43% larger than Hamblen’s previous truck, a 2018 International with a 2,800-gallon aluminum tank.

Hamblen beefed up the truck by spec’ing heavier front and back ends; a 20,000-pound front end instead of the typical 16,000 to 18,000 pounds and a 46,000-pound rear end as opposed to a more conventional 40,000 or 44,000 rear end, he says.

## HOIST ADVANTAGES

“I would just rather have a truck that’s equipped for heavier duty than not,” he explains. “I’ve always done things that way. When a truck is too light, things tend to break more often.”

The truck also is equipped with a heavier-duty Allison automatic transmission and a hoist for easier debris-dumping and wash-out. “The hoist added about \$10,000 to the cost,” he notes. “But it was worth it. I’ve never had a truck with a hoist, and now I’ll never buy one without it.”

The hoist does more than just make debris-dumping easier. It also enables Hamblen to stop the automatic shut-off valve from activating when he has to back a partially loaded truck backward up a hill to pump a tank.

“With the truck facing downhill, all the liquid goes to the front of the tank, so the pump shuts off prematurely,” he explains. “But with the hoist, I can lift the front of the tank up a bit and make it either level or even tipped backward a bit, so the shutoff doesn’t get activated.

“Sometimes this allows me to pump out one more tank per day or avoid having to park on a road and run hose, which takes more time to do,” he adds.

Overall, Hamblen figures he paid about \$30,000 or \$40,000 more for the heavier-duty components, but he feels it’s a worthwhile investment.





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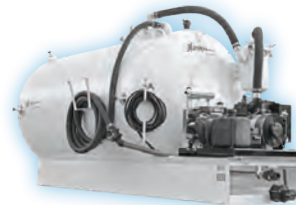
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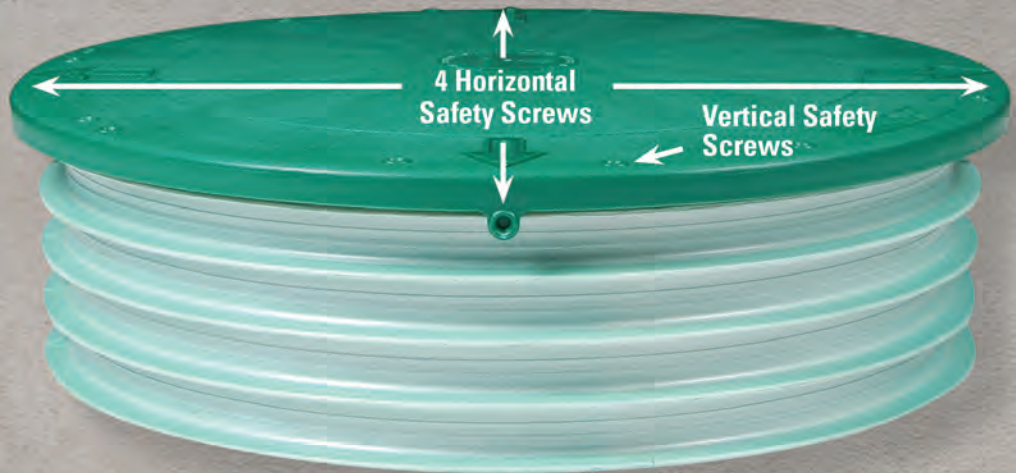


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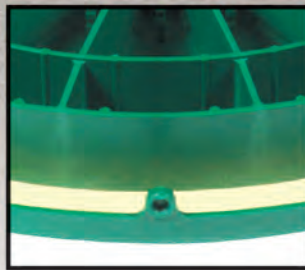
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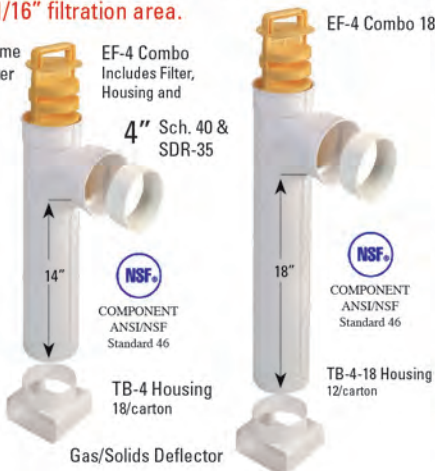


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**Dan Leemon**

Dan Leemon is executive director of Protect Our Waters Jackson Hole (POWJH).

# Tighter Septic Maintenance Regulations Sought for Wyoming Tourist Hub

On average, septic systems in Jackson Hole, Wyoming, are 29 years old. Booming population growth and zero onsite inspection requirements are concerning to local residents

**J**ust south of Yellowstone and Grand Teton national parks in Wyoming lies Jackson Hole, a high mountain valley about 50 miles long and 10 miles wide. The largest town, Jackson, has a population of 10,000 but 2.5 million visitors arrive yearly to enjoy spectacular scenery and recreational sports. It's estimated there are 2,500 to 3,000 septic systems in the valley and, despite outward appearances of a pristine natural environment, studies indicate that lack of proper maintenance and management of these systems is a contributing factor to pollution of local waterways.

In 2013, when no action was taken after water reports from the U.S. Geological Survey indicated pollution problems, a group of frustrated citizens formed Friends of Fish Creek to promote the health of the creek. Accomplishments included mapping all the septic systems and sewer infrastructure and, for a limited time, partnering with the Teton Conservation District to offer a cost-share septic pumping program utilized by about 300 homeowners.

As pollution problems in other areas of the valley came to light, it became apparent the larger issue was one of wastewater management in the entire valley. In response, the group reformed as Protect Our Waters Jackson Hole to promote programs that protect and restore the valley's surface and ground waters. The organization currently has 600 supporters and a board of 13. Executive director Dan Leemon, a watershed management specialist, spoke to *Pumper* about the group's mission and accomplishments.

## **Pumper:** How are septic systems causing problems?

**Leemon:** Septic permitting hasn't changed in decades. There are no maintenance or inspection requirements. And there's been a real lack of education about how to properly maintain a system. The average age of a system here is 29 years. We found 282 unpermitted systems that are older than the permitting system which started in 1974. And the treatment infrastructure hasn't changed. The main plant in Jackson, which is a lagoon system, is almost 40 years old, as are two other treatment plants — although well cared for.

“ We're just trying to raise awareness around these issues. Five years ago there was literally no one talking about septic systems or aging infrastructure. People are paying much more attention now  
— Dan Leemon

## **Pumper:** Has the problem been getting worse?

**Leemon:** The county has been growing at an unbelievable rate. And during COVID, growth has been unprecedented. With the advent of remote work, people have been moving from the cities into rural mountain areas, especially around resort communities. With only 3% of the valley being private land, the easiest places to develop have already been developed, so now we're starting to move out into the more rural areas. The hands-off approach the county has taken on septic system management might have been okay in the 1970s and 1980s when the population was a lot smaller.

## **Pumper:** What were some of your initial efforts?

**Leemon:** When we researched small wastewater facility management in other resort communities, we noticed one of the things we were missing was a wastewater management plan, as infrastructure gets older and the population expands. We've really focused on that. We raised \$250,000 to contribute to the effort and are now advocating for it at the county level.

And then we're just trying to raise awareness around these issues. Five years ago, there was literally no one talking about septic systems or aging infrastructure. People are paying much more attention now. Two days before Thanksgiving last year 52 people showed up to a meeting on septic systems. I think that's a victory. We now have an active and involved public, which is really nice to see.



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## PUMPER INTERVIEW

**Pumper:** What other successes have you had?

**Leemon:** The county just released some new small wastewater facility regulations. New septic systems are now going to get an operations and maintenance manual. We advocated to have the regulations apply to all systems, but we weren't successful in that effort.

And the county just signed a contract with a consultant, TriHydro, to do a water quality master plan. They're Wyoming-based but also a national company, so they bring a lot of that experience from across the country. What we've asked them to do is a major undertaking. You can just imagine the data collection around something like this. We're thrilled to have them onboard.

**Pumper:** What is your current focus?

**Leemon:** We really wanted to see some kind of inspection and maintenance requirement included in the new regulations. We didn't get that, but the commissioners have asked staff to explore all the logistics around doing that. As an advocacy group we're pouring through a lot of information and picking out the parts we think would build the best program. We've used the voluntary U.S. Environmental Protection Agency Management of Onsite and Clustered Wastewater Treatment Systems as our guide. There are different management options and one thing they stress is picking and choosing the parts that best fit your area. We have a workshop coming up with the commissioners to discuss all these options.

We believe any requirement for maintenance and inspection should go hand in hand with some kind of financial aid program. A lot of times,

when you look at older systems, you end up targeting the people that can least afford to replace or repair them. We're exploring all the options for cost-share — and there are quite a few out there, federal, state and local. For example, the U.S. Department of Agriculture Rural Water System Grant is available to nonprofits where we would actually distribute grant funds to homeowners. There's a similar grant program offered by the EPA that the county could apply for.

**Pumper:** What is your longer-term focus?

**Leemon:** For the next two years, we have a specific scope of work — and there's a lot of work to be done — to get to the point where we have that comprehensive plan. At the end of the day, we are going to have a wastewater plan. When we think about changes in the long term — be it new plants, centralized systems, clustered systems — we know we'll have a plan in place and oftentimes that's a requirement to get federal funding on projects like these.

Teton County sits at the headwaters of the Snake River. We feel a real responsibility to protect the water quality of the river because it is so important to the greater Yellowstone ecosystem.

**Pumper:** What advice do you have for other fast-growing resort communities?

**Leemon:** One thing we stress is just being proactive on these things. I can't say enough about how it pays off. It's much more expensive to remediate problems after you discover them than to prevent them before they happen. That's a difficult task but I feel like we're moving the bar on that. **P**



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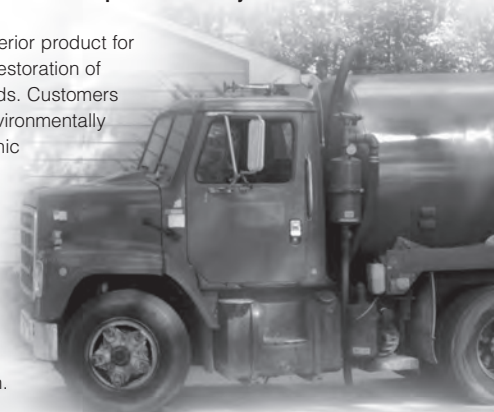
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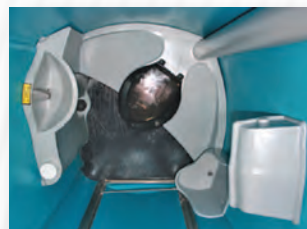
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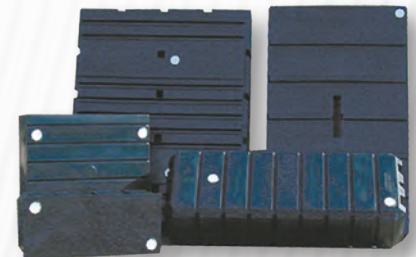
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Ken Wysocky  
*Contributor*

Ken Wysocky is a freelance writer and editor who resides in suburban Milwaukee, Wisconsin.

# Follow These Steps to Avoid Frayed Feelings Among Coworkers

Everyone wants to have a “culture of nice” at their workplace. But sometimes difficult conversations are necessary to ensure a happy and productive workplace

By Ken Wysocky

**D**eveloping a workplace with a “culture of nice” sounds like a worthy goal for any organization. After all, who wants jerks for employees?

But a workplace that fosters such a culture also needs to ensure the “nice” factor doesn’t mask a hidden problem: Employees who act nice in order to avoid confronting colleagues with things they find offensive or that hamper their productivity. Instead, they just maintain their autopilot smiles and pretend everything is copacetic instead of confronting the issues head-on in a healthy, constructive manner.

By doing so, however, they improve the odds of increased stress and poor mental health as issues fester. And small companies in the wastewater industry run the risk of higher turnover and decreased productivity as team relationships slowly unravel.

In short, a culture of niceness for the wrong reasons can actually derail organizational success, says Stacey Engle, president of Fierce Inc., a training company that teaches people how to have effective conversations that boost bottom lines.

If this kind of behavior and workplace culture is all too familiar, you’re not alone. A recent Fierce survey of 1,000 employees in the U.S. shows that 63% of respondents don’t share ideas, opinions or concerns for fear of being perceived as combative or uncooperative. Furthermore, eight out of 10 employees think it’s important for colleagues to think they’re nice, the study reveals.

## A NATURAL TENDENCY

Most people want to be liked. It’s human nature. From childhood on, we’re encouraged by parents and others to not say anything if we don’t have something nice to say. And more often than not, employees see what happens to colleagues who speak their minds and then suffer from adverse consequences, Engle notes.

“Most people aren’t encouraged to effectively address issues head-on,” she explains. “We tend to avoid difficult conversations or conversations that we frame in our own minds as difficult. But as more and more organizations emphasize transparency and accountability, it forces people to face issues directly. ... So they need to be skilled at this.”

Those who lack the skills run the risk of upending their careers. How? Inability to meet project deadlines because you don’t know how to have a

healthy confrontation with a colleague whose poor work ethic is bogging things down, for example. And in doing so, you’re only making yourself a victim of the situation instead of proactively trying to change it, Engle says.

In addition, organizations miss out on potential innovations and collaborations when people are afraid to voice opinions. Or they end up wasting substantial amounts of money on projects that have little chance of success, just because saner minds didn’t feel comfortable voicing concerns.

Moreover, we tend to exaggerate in our own minds the possible negative effects of voicing concerns. The truth in many instances is that colleagues will feel relieved when you clear the air by healthily raising concerns about various things, Engle notes.

➤ Any real change in outcomes — both personally and professionally — requires healthy conversations. And you enhance your chances of affecting that change if you do it the right way at the right time.

“As humans, we like to tell stories,” she explains. “So we’re always telling stories in our head of what might happen (if we raise a concern), and we usually envision the worst outcome, which is a shame because almost all the time having these conversations enriches relationships.”

## HEALTHY CONVERSATIONS

So how do we go about raising concerns in a healthy and nonthreatening way? First of all, it’s all about context; it’s important to frame the conversation as a joint exploration of a particular issue and how it affects things. “Think of it as really not confronting a person, but confronting an issue,” she says.



It's important to name the point of friction specifically — explain exactly what is bothering you and why it's an issue for you. Brevity and simplicity are critical. "People often avoid these conversations for a long time, so by the time they do have them, they do what we call a 'dump truck' — rattle off 16 examples of the behavior in question," she observes. "That's very overwhelming."

It's important to create a 60-second opening statement that clearly outlines the issue at hand, offers a brief example or two and explains the negative effects.

"The whole premise is that you only have 60 seconds before someone experiences a 'flight-or-fight' response," Engle says. "Again, you need to view this as examining an issue side by side with the other person. And you need to be very intentional with the conversation."

Like anything else, practice makes perfect. Also consider that reading the statement to yourself can be drastically different than actually saying it out loud. So it may help to read it aloud to a trusted friend or partner, Engle says.

It helps to schedule a specific time for such conversations; you want to be sure you're fully prepared, plus it's not fair to catch someone completely off guard with a spur-of-the-moment conversation, she says.

There's always the possibility that the person you're talking with will get defensive. They may refute everything you say or blame it on something or someone else. "But you have to be able to hold the space and say, 'This is what I experience,'" Engle advises.

"You may have to continually redirect the conversation," she adds. "If the person gets overwhelmed or emotional, it's completely fine to either give him or her a moment or stop and schedule a follow-up meeting."

## WORKING TOWARD SOLUTIONS

If members of your team are fearful of the consequences of candor, they should focus on this: Any real change in outcomes — both personally and professionally — requires healthy conversations. And you enhance your chances of affecting that change if you do it the right way at the right time, she notes.

"People make assumptions that things can't ever change," she continues. "But unless someone tries, people — and companies — miss out on eliminating potentially damaging issues. In addition, lots of people leave jobs simply because they think something will never change."

"If you don't do anything, it's likely everything stays the same," Engle says. "And if what's happening right now isn't what you need to get where you want to go, you need to move the needle yourself."

The irony is that when asked, most employees want colleagues to share any issues and concerns and work toward solutions. "Almost always, the answer is yes," Engle says. "Yet we still avoid confrontations. We all need to keep in mind that we connect more deeply with people who level with us. And when that happens, it's even easier to talk about real issues and challenges." **P**

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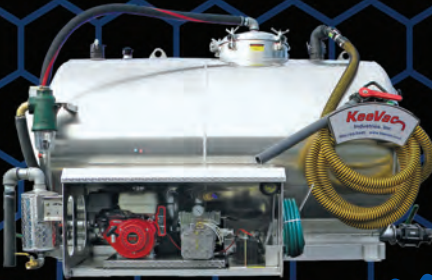
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RTD100-200	25.0	94.6	2900	200	49.8	32	42	3	128
RTD100-200SX	25.0	94.6	2900	200	49.8	32	42	3	128
RTD130-160	32.0	121.1	2300	160	50.5	36	42	3	128
RTD130-200H	34.5	115.0	2900	200	68.0	36	42	3	128
RTD160-130	40.0	151.4	1850	130	50.8	40	42	3	128

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RTX60	14.0	53.0	4350	300	41.8	25	28	1	72
RTX70	17.0	64.4	3000	200	33.8	30	23	3	72
RTX85	21.0	85.0	2200	200	31.7	30	28	1	72
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### ☐ **PORTA-PAK**

#### **Purpose: Deodorizer**

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### ☐ **COMMANDO**

#### **Purpose: Tank Restoration**

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### ☐ **FAB LAV**

#### **Purpose: Cleaner**

Multi-purpose cleaner with a pleasing lavender fragrance guarantees trailer interior looks and smells fresh and clean.



### ☐ **BRAVO URINAL SCREENS**

#### **Purpose: Fragrance Enhancer**

Keeps urinal smelling fresh for up to 30 days with strong fragrance release and bacteria action that deodorizes & cleans urinal & drain.



### ☐ **OVATION**

#### **Purpose: Fragrance Enhancer**

Commercial-strength air fresheners that can be hung anywhere to fight odors for up to 30 days. Ideal for women's side.



### ☐ **URINAL CLEANER**

#### **Purpose: Urinal Cleaner**

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### ☐ **BANISH**

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### ☐ **GREY WATER LIQUID**

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 Flowmark See ad on page 59	★			★	★	★	★	★	★	★		★	
 Fruitland See ad on page 55												★	
 GapVax See ad on page 53				★	★				★			★	
 Guzzler See ad on page 21	★	★		★	★				★				★
See ad on page 7	★	★	★	★	★	★	★		★	★		★	★
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See ad on page 61	<b>Lane's Vacuum Tank, Inc.</b> 3133 Vanzora Rd., Benton, KY 42025 800-592-3308 • 270-832-3793 • (f) 270-527-3569 www.lanesmobilejohn.com • lane3801@bellsouth.net	★		★		★	★	★	★				★	★
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See ad on page 63	<b>Mid-State Truck Service</b> 6335 Packer Dr., Wausau, WI 54401 800-236-2044 • 715-252-6135 www.midstatetruck.com • wausau@midstatetruck.com	★	★	★	★	★	★	★	★	★	★	★		★
 See ad on page 9	<b>National Truck Center</b> 3001 E 11 Ave., Hialeah, FL 33013 305-691-8407 • (f) 305-691-8416 www.nationaltruckcenter.com • info@nationaltruckcenter.com	★	★	★	★	★		★	★	★	★		★	★
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 See ad on page 15, 74	<b>Satellite Vacuum Trucks</b> 2530 Xenium Ln. N, Minneapolis, MN 55441-3695 800-883-1123 www.satelliteindustries.com • information@satelliteindustries.com	★	★	★	★	★	★	★	★	★	★	★	★	★	★
 See ad on page 25	<b>Super Products LLC</b> 130 Boxhorn Dr., Mukwonago, WI 53149 800-837-9711 www.superproductsllc.com • info@superproductsllc.com		★		★					★					★
 See ad on page 33	<b>Tank World Corporation</b> 12001 W Peoria Ave., El Mirage, AZ 85335 623-536-1199 • (f) 623-935-4514 www.tankworldaz.com • service@tankworldaz.com	★		★	★	★	★	★	★	★	★				★
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See ad on page 67	<b>TSI Tank Services, Inc.</b> PO Box 8136, Cranston, RI 02920 866-720-4999 • 401-688-0043 • (f) 401-383-7462 www.tankservicesinc.com • jerry@tankservicesinc.com	★	★	★	★	★	★	★	★	★	★	★	★	★	★
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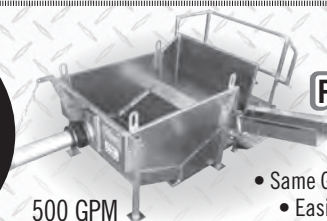
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**Jim Anderson, Ph.D.**  
*Contributor*

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](mailto:editor@pumper.com).

# Can Sewage Trenches Provide Temporary Effluent Storage?

Find the appropriate treatment solution for the homeowner who has an annual blowout holiday party that shocks the septic system

By Jim Anderson, Ph.D.

A few months ago, I wrote a column addressing when it makes sense to add a flow equalization tank to improve system operation and efficiency. If you recall, a flow equalization tank utilizes timed dosing for uniform delivery of sewage to a component over a period of several days rather than all at once. In the case of a pressure distribution system, this can spread out large flow events preventing periodic hydraulic overloads to the soil treatment and dispersal area. In the case of aerobic treatment units, this means spreading flow out to provide aerobic bacteria in the tank adequate time to do their job.

All very good ideas and necessary where you as a service provider know the system will be subject to periodic high-flow events. Example areas where flow equalization would be particularly advantageous would be churches, schools, campgrounds, event centers and — in certain situations — residences. We usually do not consider them for residences, but it may be desirable to spread the flow out during the day or week in homes where a lot of entertaining takes place.

This led a reader to ask the following question: Can a chamber system plus filter eliminate the need for a balancing tank for well-attended events? I take it, based on some other comments, the reader has a gravity-fed series of trenches with chambers as the media and there is an effluent filter at the septic tank outlet. It also appears from the “well-attended events” comment, he hosts events at his residence that would make flow equalization helpful. Whether it is necessary depends on the frequency of events.

## AVOID PONDING

Let's take a look at his question. First, if there are trenches in the system without effluent ponded in a gravity-loaded system — yes, there is storage. In fact, one of the stated advantages of chambers and some other rock-free systems is they provide the opportunity for storage. In the past, I have also mentioned there is a 35% void space in a rock-filled trench, which can act as something of a buffer to large flow events.

To give you an idea of how many gallons could theoretically be stored, consider a 100-foot-long trench 3 feet wide under a chamber. There would be 300 cubic feet of volume available if we used a maximum depth of 1 foot. This area would hold 2,250 gallons under the chambers. In a rock-filled trench, the storage volume available would be 788 gallons.

Do I recommend or agree loading a gravity fed system with 700 to 2,200

➤ All systems benefit from controlling or limiting larger flow events either through incorporation of storage into the system or through in-house management or control of flows.

gallons of effluent in one day is a good practice? Absolutely not. As a matter of fact, I recommend with even everyday activities, such as doing laundry, it is much better for our gravity systems to spread the flow out over the week, when at all possible, rather than focusing the activity on one day, like Saturday. Large flows in short periods can interrupt the ability of the septic tank to settle solids due to turbulence. This will quickly plug effluent filters and may push unwanted solids into the drainfield.

The bottom line is that all systems benefit from controlling or limiting larger flow events either through incorporation of storage into the system or through in-house management or control of flows.

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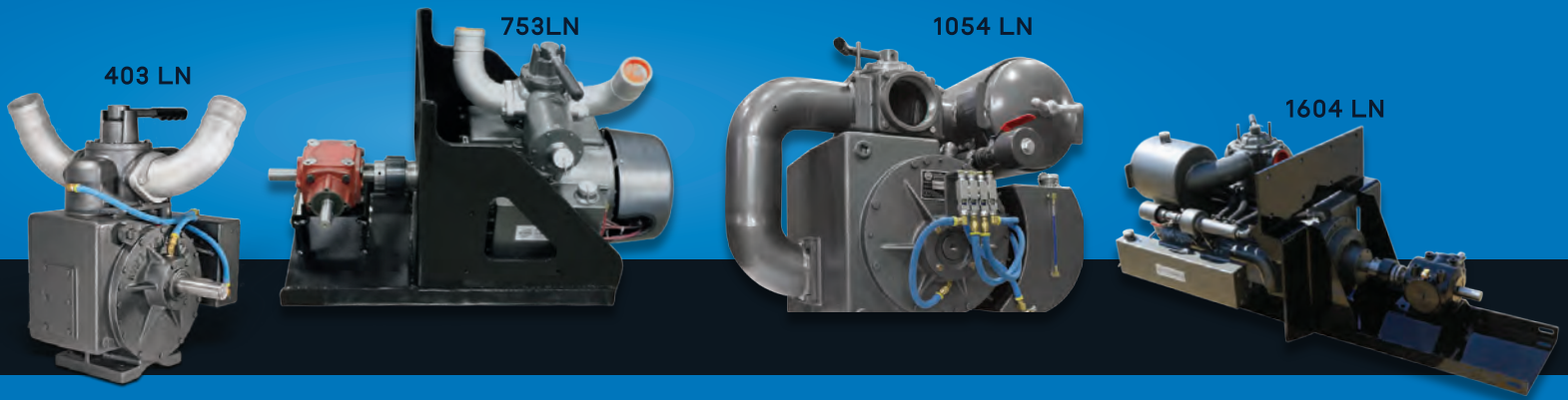
In terms of gravity distribution, the use of dropboxes delivering effluent to each trench is an advantage over parallel gravity distribution. This forces the effluent to move through the system sequentially so only the necessary area is used or impacted by the large flow and the impacted trenches are easily shut down for a period following the event to give them time to recover.

If the chambers were already part of a pressure distribution system with a pump tank and pump, looking at the chambers as a potential storage area would have even more serious consequences. Pressure distribution systems are specifically designed to handle a finite amount of effluent daily. If the system is shock-loaded, the infiltrative surface can be damaged, with infiltration capacity reduced and leading to ponding of effluent at the surface.

Once ponding occurs in a pressure system, it is broken and headed to ultimate failure. The presence of a pump tank and pump, and adding tank capacity and a timer, will effectively store effluent and distribute it over a longer period of time. **P**



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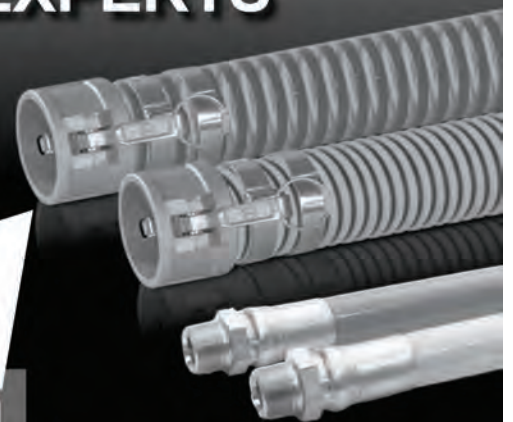
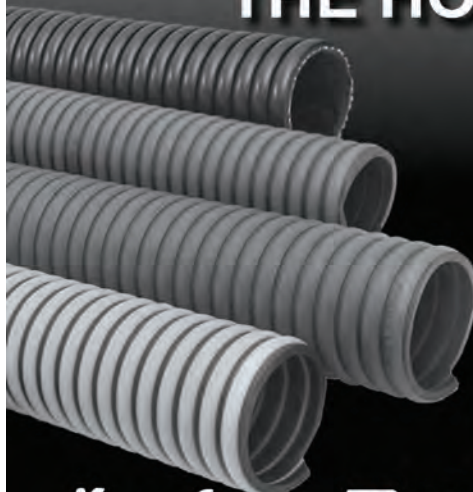


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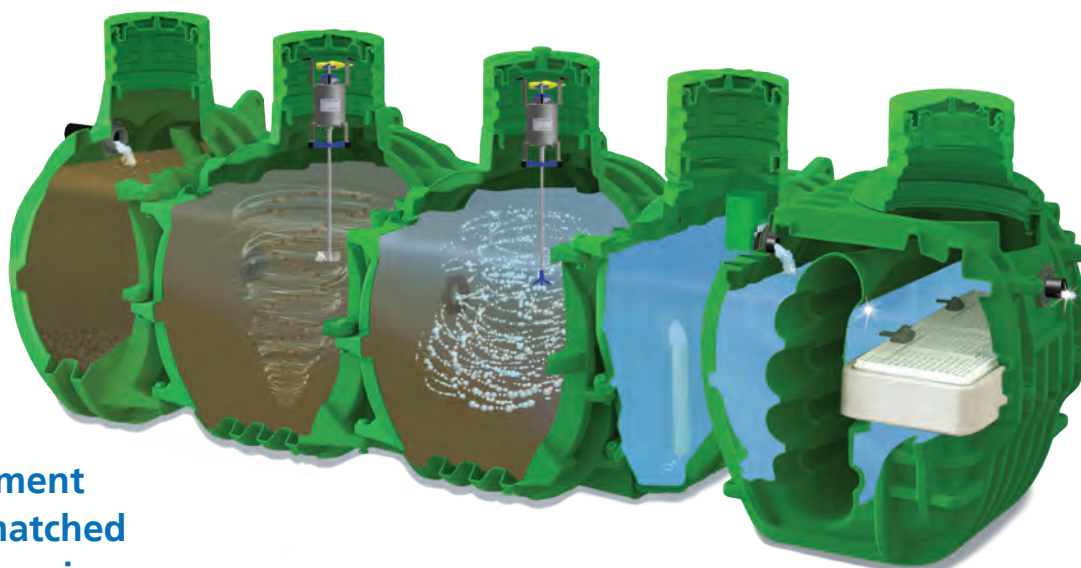




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# Maine Community Considers Alternative Treatment Technologies to Boost Development

By David Steinkraus

**A**uburn, Maine, city officials are considering a new onsite design standard to allow development while keeping nutrients out of Lake Auburn, which is the city's source of drinking water. If the proposed standard were used, it would allow for new systems and new homes while achieving a net improvement to the lake, city officials told the *Sun Journal* of Lewiston, Maine.

Impetus for the proposed standard came from a study by FB Environmental, the Horsley Witten Group and the University of Maine. The city commissioned them to study rules governing the lake's watershed.

Current standards effectively prohibit the use of innovative and alternative treatment technologies, the group wrote in its report. More than 100 new homes could be built in the watershed if the onsite rules are revised, the group wrote.

Eric Cousens, the city's director of planning and permitting, said the goal is to use the new standard for both new construction and replacement of old onsite systems.

## Massachusetts

The Tisbury board of health set new denitrification rules for the Lake Tashmoo and Lagoon Pond watersheds. The area covers much of the town on the north side of Martha's Vineyard.

Rules require onsite technology that meets a nitrogen groundwater discharge standard of no more than 13 mg/L from septage or removes 75% of septic nitrogen waste, reported *The Martha's Vineyard Times*.

The regulation applies to new construction, an onsite system replacement, a change in property use that would increase nitrogen discharge beyond the board-approved system capacity, and if there is a determination by the board that a new system is required when a property is transferred.

## Missouri

For an eighth year, the Taney County Septic Tank Pump Out Program will be open for 2022.

The program covers all costs for pumping out a septic tank on a residential property every four years. Homeowners are responsible for

locating the tank and exposing the access for pumpers.

Since 2014, the program has pumped 3,443 tanks, reported the *Branson Tri-Lakes News* of Hollister, Missouri. Money comes from the county's sewer sales tax.

## New York

Rensselaer County is making grants of up to \$10,000 available for onsite upgrades around Nassau Lake. The county announced in late January that homes on both sides of the lake, in Schodack and Nassau, are eligible for grants.

The state Department of Environmental Conservation and Environmental Facilities Corp. gave the county one grant of \$170,000. Homeowners are eligible for up to 50% of qualified upgrades, with a maximum payment of \$10,000 per project. Funds may be used only for the replacement of septic systems or cesspools, reported *The Times Union* of Albany, New York.

A second grant of \$218,000 for the work comes from the Housing Trust Fund Corporation and Office of Community Renewal.

County officials said the program will help maintain the quality of the lake, which will support property values and make the area attractive to prospective residents.

## Montana

So many people want to be in Montana that Flathead County is looking into a new facility to take care of their septage waste. The county commission has approved a \$700,000 design contract for a regional septage treatment and biosolids project. Biosolids composting would serve the regional septage plant and the cities of Kalispell, Whitefish and Columbia Falls, reported the *Daily Inter Lake* of Kalispell.

From 2010 to 2020, the county population increased 15%, to 104,357. Flathead County Health Officer Joe Russell told the news organization, "We could get to the point where there's no way to get rid of septage." He added that private septage haulers are being squeezed out as development consumes land where septage can be spread. **P**



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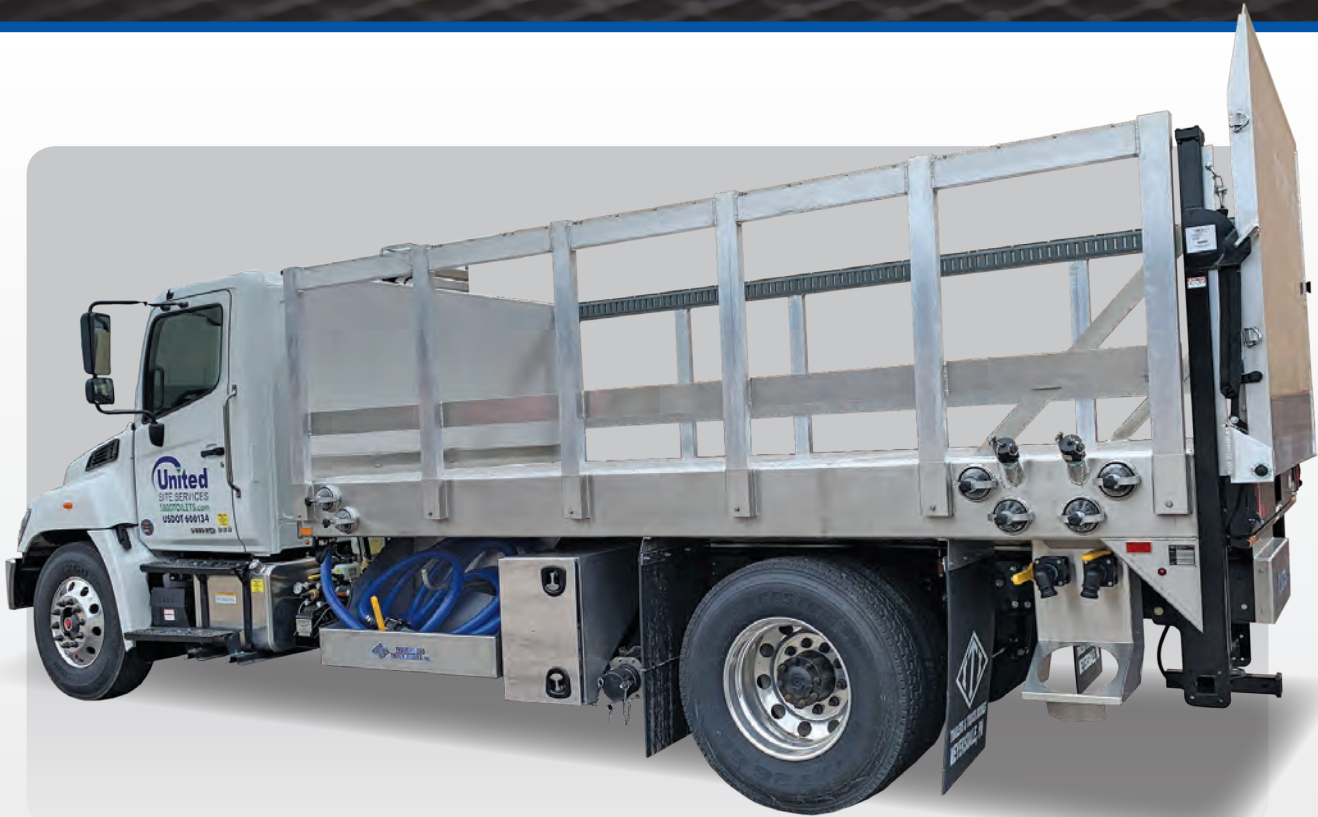






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## Virginia

Virginia Onsite Wastewater Recycling Association  
[www.vowra.org](http://www.vowra.org); 540-377-9830

## Washington

Washington On-Site Sewage Association  
[www.wossa.org](http://www.wossa.org); 253-770-6594

## Wisconsin

Wisconsin Onsite Water Recycling Association  
[www.wowra.com](http://www.wowra.com); 888-782-6815

Wisconsin Liquid Waste Carriers Association  
[www.wlwc.ca.com](http://www.wlwc.ca.com); 888-782-6815

## NATIONAL

Water Environment Federation  
[www.wef.org](http://www.wef.org); 800-666-0206

National Onsite Wastewater Recycling Association  
[www.nowra.org](http://www.nowra.org); 978-496-1800

National Association of Wastewater Technicians  
[www.nawt.org](http://www.nawt.org); 800-236-6298

## CANADA

### Alberta

Alberta Onsite Wastewater Management Association  
[www.aowma.com](http://www.aowma.com); 877-489-7471

### British Columbia

WCOWMA Onsite Wastewater Management of B.C.  
[www.wcowma-bc.com](http://www.wcowma-bc.com)  
877-489-7471

British Columbia Onsite Sewage Association  
[www.bcossa.org](http://www.bcossa.org); 778-432-2120

### Manitoba

Manitoba Onsite Wastewater Management Association  
[www.mowma.org](http://www.mowma.org); 877-489-7471

Onsite Wastewater Systems Installers of Manitoba, Inc.  
[www.owsim.com](http://www.owsim.com); 204-771-0455

### New Brunswick

New Brunswick Association of Onsite Wastewater Professionals  
[www.nbaowp.ca](http://www.nbaowp.ca); 506-455-5477

### Nova Scotia

Waste Water Nova Scotia  
[www.wwns.ca](http://www.wwns.ca); 902-246-2131

### Ontario

Ontario Onsite Wastewater Association  
[www.oowa.org](http://www.oowa.org); 855-905-6692

Ontario Association of Sewage Industry Services  
[www.oasisontario.on.ca](http://www.oasisontario.on.ca)  
877-202-0082

### Saskatchewan

Saskatchewan Onsite Wastewater Management Association  
[www.sowma.ca](http://www.sowma.ca); 877-489-7471

### Canadian Regional

Western Canada Onsite Wastewater Management Association  
[www.wcowma.com](http://www.wcowma.com); 877-489-7471



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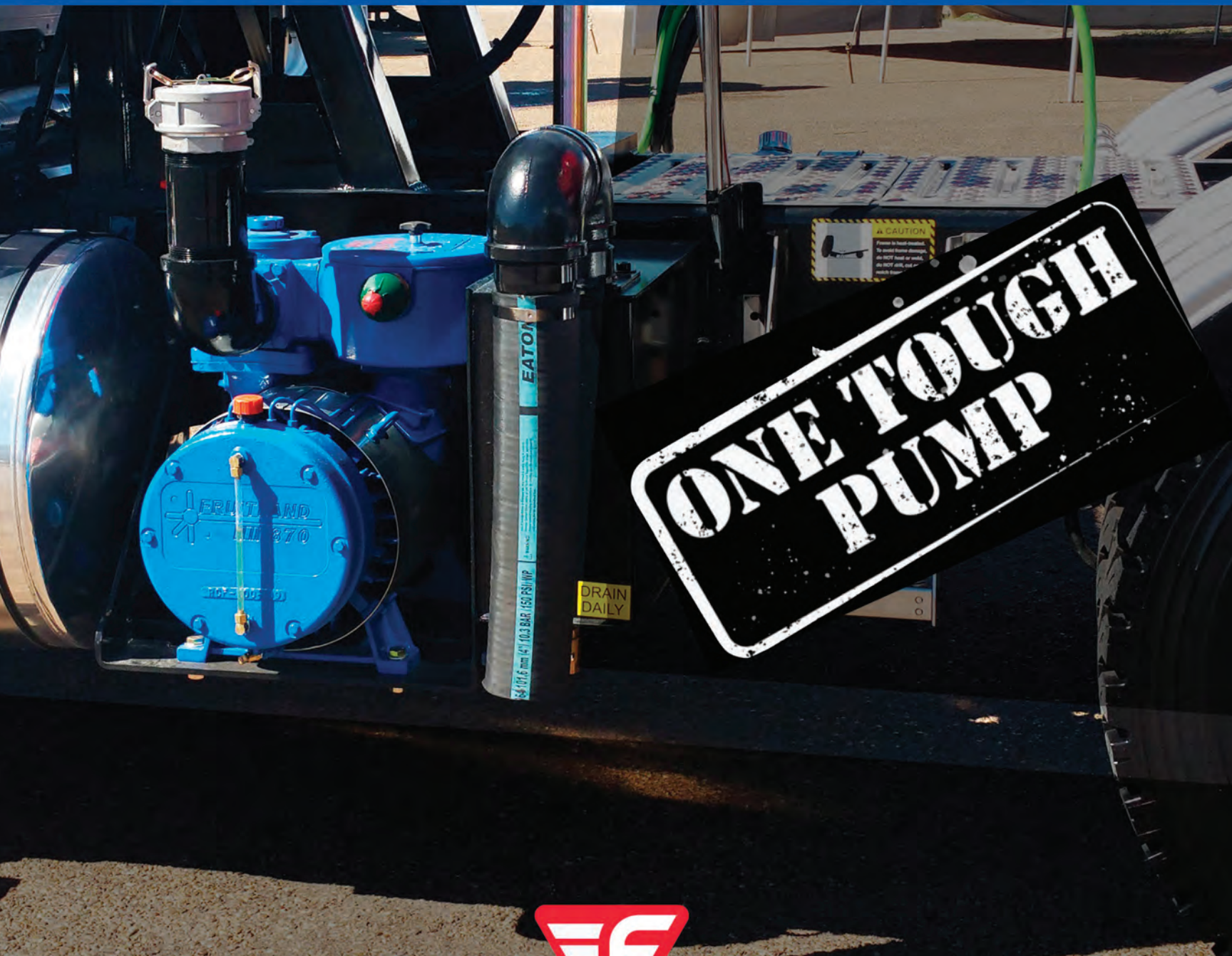
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# Illinois GPD Onsite Permit Rules Are Outdated, Need Revising

Installer and pumper Rick Maguire calls the 200-gallon per bedroom regulation "excessive" in with modern septic systems and reduced water usage



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 Onsite Wastewater Professionals of Illinois.

**Name and title or job description:** Rick Maguire, co-owner with wife Jane

**Business name and location:** Maguire Wastewater Solutions, Virden, Illinois

**Services we offer:** Installation of all systems, pumping, service contracts, inspections, sewer jetting, sewer camera and utility locating.

**Age:** 58

**Years in the industry:** 34

**Association involvement:** I have been a member of the Onsite Wastewater Professionals of Illinois for 15 years. I was president 2010 through 2012 and have been president again for the last four years.

**Benefits of belonging to the association:** Membership in OWPI allows us to provide input on code changes, stay in touch with current regulations, and meet great people in the industry.



Rick Maguire

**Biggest issue facing your association right now:** In 2014 the U.S. Environmental Protection Agency took over handling surface discharging if the effluent went to the waters of the U.S. The process for filing for a permit typically took about 30 days. The U.S. EPA was only going to do it for five years so in 2019 the Illinois EPA took it over. Now the process takes anywhere from four to six months. It's really hindered us. OWPI was active in trying to get the permits processed faster. It has gotten better but there's still a lot of room for improvement.

**Our crew includes:** Jane Maguire, assistant general manager; Scott Connolly, operator; Steve Matli, service manager; Doug Bennett, installation manager, operator; Colean Smith, operations manager; Nick Watson, service tech, pump truck operator; Craig Jordon, service tech, pump truck operator; Rory Rossi, service tech; Aaron Lake, construction labor, pump truck operator; Kaden Gray, service tech; Justen Jorgenson, laborer; Skyler Maguire, administrative assistant.

**Typical day on the job:** I'm in the office one or two days a week and the rest of the time I'm in the field installing systems or sewers. When I had a heart attack two years ago, Doug Bennett, Steve Matli and Colean Smith stepped up and ran the business for a couple months. They did such a great job I let them continue in those positions. Now I'm more of an operator/laborer and try to stay away from the stress of the office work.

**The job I'll never forget:** Doug and I were working on a project by a lake and lost a chlorine barrel. We set it out and it rolled downhill, hit the water and started floating away. We both ran like we were half nuts. We saw a boat at the neighbor's and commandeered it. We jumped in the boat, paddled out and got the barrel.

**My favorite piece of equipment:** Our Caterpillar 305 mini-excavator is great for getting into tight places. It's also nice for any compaction issues we have installing systems.

**Most challenging site I've worked on:** At the Benton Coal Mine we ran into really wet and poor soils. We ended up having to plow the zone we were going to lay the sand on. We poured two big septic tanks in place because of the water table and proximity to buildings and duplex-paneled it out to a field that was comprised of eight different cells. We rotated the cells through a K-Rain valve where we dosed 1 and 5, then 2 and 6, 3 and 7, 4 and 8 to spread it out.

**Oops, I wish I could take this one back:** A contractor had installed a system at a multiple-duplex site that failed in about a year. They tried different things, but the ground just wouldn't handle the effluent. It was





▲ The Maguire Wastewater Solutions administration includes, from left, Doug Bennett, Steve Matli, Colean Smith, Rick Maguire, Jane Maguire, Skyler Maguire.

bleeding all the time. We designed a newer system but tried to utilize the old aeration systems. We set lift stations behind them and then went to a low-pressure pipe system. Looking back, we probably should have just started from scratch instead of trying to save the customer some money. Another problem was, with a duplex scenario you're dealing with renters who don't really care what they do or don't do and so we couldn't control the water usage. We had a really hard time getting these existing units sealed. We got it under control after about three years. It was just one of those times where you're trying to help some people and it winds up costing you a lot of time and money. But in the end we got it.

**The craziest question I've been asked by a customer:** "Can't you just put a system in that breaks down the wipes?"

**If I could change one industry regulation, it would be:** Right now we design systems at 200 gallons per day per bedroom and I think that's excessive. I think it should be more around 125 to 150. This number is antiquated in our code. OWPI is working on it but changing a law is a long process.



▲ The service crew includes, from left, Rory Rossi, Nick Watson, Kaden Gray, Steve Matli and Craig Jordon. The vacuum truck is a 2020 International with a 2,500-gallon FlowMark aluminum tank and NVE 607 pump.

**Best piece of small business advice I've heard:** You've got to take care of your employees. They are what this company is today. I started the company with a backhoe and dump truck as a one-man show but when you make the transition to having employees, you must trust them. They are the key to a successful business. Another bit of advice — before you walk away from a job, whether you made money or lost money, make sure it was done to the best of your ability and find employees that will do that. If you stand behind your work and do a good job, you'll be successful.

**If I wasn't working in the wastewater industry, I would:** Drive quarter-mile race cars. I built my first car in high school. We had five kids and I told my wife when they were done with college I wanted to buy a car. So I did that and I race it at the track.



▲ The excavation crew includes, from left, Scott Connolly, Rick Maguire, Aaron Lake, Doug Bennett, Justen Jorgenson. They are shown with a Caterpillar 305 excavator.

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

- The industry will continue to thrive as reuse systems become more important to protecting our natural resources.
- The technology regarding cleaner wastewater will launch a whole new landscape for soil treatment areas.
- I'm hopeful the younger generation will get involved in the industry.
- A lot of people are moving out of the cities and into rural America.
- With antibiotics and cleaning supplies going into the systems, maintenance is key. Typically people don't want to take the time to maintain their systems and are happy to let someone else do it.
- The average system out there is probably 40 or 50 years old and is going to need to be replaced at some point. **P**

- Compiled by Betty Dageforde







## in the SPOTLIGHT

By Tim Dobbins

### HOSE GRIP DEVICE KEEPS PUMPER CLEANER, SAFER

Handle-Tech first gained popularity in the gas and oil industry as an effective tool for moving pipes and hoses. The same benefits translate to the septic service industry. The product line is designed to make gripping, lifting and dragging hoses and pipes easier by providing a secure, easy-to-grip handle.

"The product works by releasing the handle, placing it on a hose or pipe and pushing down," says Matthew Wolf, marketing director for Handle-Tech. "It then locks into place with a click and is securely fastened to the hose or pipe, allowing the user to easily lift, pull or drag the item."

Users simply push a mechanism on the side of the handle and the grip releases.

Handle-Tech devices are manufactured to securely hold a load up to 400 pounds, and grip pipes and hoses 2 to 12 inches in diameter. They are made from long glass nylon and HDPE plastics, creating a lightweight and strong product that can withstand low temperatures.

"They're the perfect tool for sewer and septic pumping and cleaning, industrial vacuuming, grease handling, hydroexcavation and more," Wolf says.

"Handle-Tech users save serious time, energy, and money, because cleaner gloves and uniforms means lower costs."

Wolf also says that the handles can create a safer work environment for operators as well. "We've heard from business owners and operators that they are most interested in the safety element of the product," he says. "It can help reduce work-related injuries on the job like back strains from hauling around heavy hoses in awkward stances, and crushed fingers from dropping them when the operators' hands are underneath."

He says many users in the septic industry tell him how much it helps them to stay cleaner on the job as it reduces the need to actually grip dirty hoses with your hand. **610-385-6091; [www.handle-tech.com](http://www.handle-tech.com)**



### Infiltrator Water Technologies CM-1060 septic tank

The Infiltrator Water Technologies CM-1060 septic tank is compression-molded and manufactured using recycled polypropylene. The CM-1060 is the first in a new line of CM Series tanks offered by Infiltrator. It is similar in design to the IM-1060 septic tank, introduced in 2010. The CM-1060 offers strength, efficient installation and easier assembly, according to the maker. Like the IM-1060, the CM-1060 is a two-piece septic tank offering shipping and storage efficiencies. **800-221-4436; [www.infiltratorwater.com](http://www.infiltratorwater.com)**

### Elastec DrumIt drum-filling vacuum head

Elastec's DrumIt is a drum-filling vacuum head with automatic shut-off. Connect the DrumIt to any vacuum source, such as a vacuum truck, to intercept liquids or solids. DrumIt fills each drum to a consistent level. The lid assembly is stainless steel and fitted with 3-inch or 4-inch camlock coupling. It is suitable for U.S. standard 55-gallon open-top oil drums with an opening diameter of just under 24 inches. (Oil drum sold separately.) **618-382-2525; [www.elastec.com](http://www.elastec.com)**



### Vac-Con PRO hose reel

The PRO hose reel from Vac-Con offers 16 feet of traversing motion across the front of the machine and 180-degree articulation for 69.6-square-feet of working coverage. With 115% more coverage than the standard Vac-Con articulating hose reel, this flexibility allows operators access to manhole and lift station locations without parking the unit precisely over the job site. A front-mounted camera system and companion ARC visual screen provides 180 degrees of visibility to the driver in the cab with a generous range to park the unit and still have access to the manhole. Adjustable motions allow any operator to comfortably use the system. The control panel features four rotational positions, an 8-inch vertical adjustment and an arm rest at the joystick. The PRO Reel can accommodate up to 850 feet of 1-inch hose. **904-284-4200; [www.vac-con.com](http://www.vac-con.com)** **P**



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# Vacuum Trucks/ Truck Builders

By Craig Mandli

## HOSE AND FITTINGS



### Kuriyama of America Alfagomma T704HA Series THE BOOMER

The corrugated **Alfagomma T704HA Series THE BOOMER** industrial sewer vacuum hose from **Kuriyama of America** is made with a 1/4-inch-thick red gum rubber tube designed for wet or dry applications where severe abrasion is a factor. The corrugated black conductive styrene-butadiene/natural rubber blend cover provides abrasion and ozone resistance. The rugged hose is suitable

for dry or wet abrasive materials and can be grounded. All sizes are rated to full vacuum and a pounds-per-square-inch safety factor of 3-1 for 2-to 8-inch hose and 2.5-1 for 10-inch. The hose remains flexible in temperatures from 40 degrees below zero to 212 degrees F. It is available with soft-cuffed ends for easy installation and clamping. **847-755-0360; www.kuriyama.com**

## HOSE REELS

### Hannay Reels VAC Series

Featuring a 1/4-inch-thick rolled drum, **VAC Series** reels from **Hannay Reels** store and handle 2-, 3- or 4-inch I.D. sewer vacuum hose up to 150 feet in length. This reel is constructed with a 2-inch heavy-duty steel channel frame and spoked discs for greater weight savings, strength and over-road durability. A positive engagement pin lock brake comes standard in this model. The series is available in manual or power rewind options for efficient, organized storage. A sewer vacuum hose can be accessed from both sides of this reel. The wide variety of mounting configurations offers installation flexibility for different tank and truck sizes. **877-467-3357; www.hannay.com**



## TRUCK MOUNTED JETTERS



### Cam Spray CV Series

The **CV Series** cargo van drain jet from **Cam Spray** offers diesel-fired hot water for added jetting power. Several models are available up to 4,000 psi and 12 gpm. A triplex plunger pump with power pulse valve provides an extra push when needed. Air purge and recirculation to the tank are

provided for freeze protection. It comes with a 5-gallon fuel tank, heavily built, powder-coated frame with full deck, 130-gallon water capacity, 12-volt DC reel with 2-1 clutch drive allowing for free spooling, and a powered hose return. It's controlled by a pushbutton or foot switch. Accessories include a set of four nozzles, storage box, tip cleaner, tiger tail, safety shield, rubber gloves, high-visibility safety vest, 50-foot washdown hose and trigger gun. **800-648-5011; www.camspray.com**



### Easy Kleen Pressure Systems Groundhog Jetter

The **Groundhog Jetter** from **Easy Kleen Pressure Systems** is designed to blast through clogged pipes with a 35 hp Vanguard engine providing 12 gpm at 3,500 psi. It is compact and can be transported in a pickup truck or van, with trailer

options available. It includes a fully welded, powder-coated 2-inch steel tube frame, drilled and tapped, which houses the 200-gallon water tank. It comes with an accessible breather and 10-gallon fuel tank, General Pump with gearbox drive, 12-volt-powered hose reel with 300 feet of 3/8-inch jetter hose, hose guides, a super swivel and foot-pedal control, emergency shut-off valve and hour meter. Optional remote features include hose reel-in, motor off/speed control and pressure on/off. **800-315-5533; www.easyskleen.com**

### MyTana Compact Jetters

**MyTana's** compact skid- or truck-mounted jetters are suitable for unblocking and cleaning house connections and sewer lines,



providing the flexibility to take on residential and light industrial work. They can be customized with many options. The Compact Pro is suitable for work in lines up to 20 inches. It includes 270 feet of 1/2-inch hose on a hydraulic reel and delivers water flow up to 18 gpm or cleaning pressure up to 3,000 psi. The Economic fits medium-duty commercial vehicles for work in lines up to 24 inches, with water flow up to 26 gpm or pressure up to 3,000 psi. A hydraulic hose reel swivels 225 degrees and holds 400 feet of 1/2-inch hose. The units are built by ROM. **800-328-8170; www.mytana.com**

## VACUUM PUMPS/BLOWERS



### Fruitland 870 Series

**Fruitland's 870 Series** pump allows vacuum levels of 28.5 inches Hg and continuous vacuum of 27 inches Hg. Additionally, it is capable of providing 30 psi pressure for offloading. Oil consumption is 1 gallon for 18 hours of operation to reduce consumption and environmental impact. Locally sourced, nonproprietary oil may be used. The pump delivers 510 cfm (free air) through 4-inch porting. **905-662-6552; www.fruitlandmanufacturing.com**

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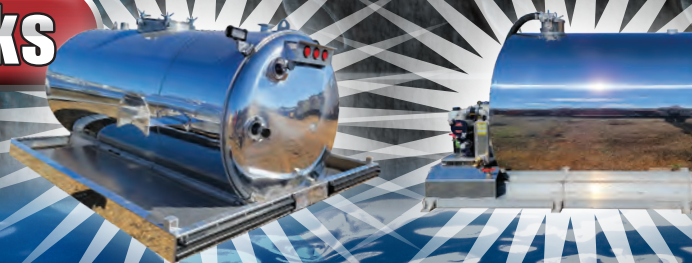
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### Moro USA W Series PM80W

The **W Series PM80W** liquid-cooled vacuum pump from **Moro USA** is suitable for a wide variety of applications, including oil and gas, septic and industrial, according to the maker. It has oiled bearings that don't require additional maintenance, a sealed positive displacement direct-feed oiling system, Kevlar vanes, an integrated check valve and a changeover valve. A jacketed casing provides liquid cooling, allowing a deeper continuous-duty vacuum. A coolant pump is available for self-contained packages. It includes industrial-duty Viton oil seals and is available in clockwise and counter-clockwise rotation. **866-383-6304; www.morousa.com**



### Presvac Systems PV750

The **Presvac Systems PV750** rotary vane pump is designed for continuous full-vacuum operation in extreme conditions. It offers 400 cfm at free air, 350 cfm at 15 inches Hg, a maximum vacuum of 27 inches Hg and maximum pressure of 35 psi. Dual fans and twin ballast ports efficiently cool the pump. The solid housing with deep cooling ribs allows for greater heat transfer from the vacuum chamber. Aluminum fans and shrouding work like a heat exchanger to aid in heat reduction. Multiple manifold and drive options are available for truck, trailer or stationary applications. **800-387-7763; www.presvac.com**

### National Vacuum Equipment Challenger 1600

The **Challenger 1600** from **National Vacuum Equipment** is a 1,600 cfm tri-lobe blower designed for continuous duty at maximum vacuum. It employs rotors designed to improve vacuum efficiency and reduce mechanical noise. The blower has a ballast air-cooling design and typical maximum vacuum of 27 inches Hg. **800-253-5500; www.natvac.com**



### Wallenstein Vacuum 753 Series

The **753 Series** vacuum pump from **Wallenstein Vacuum** is designed for longer service life, incorporating wide vanes that allow up to an inch of wear. It provides 422 cfm airflow at 1,200 rpm and vacuum levels up to 28 inches Hg. Options include air-, liquid- or dual-cooling systems where air injection is combined with liquid cooling. A pump-flushing port is included on the top valve for convenient maintenance. The quick-access housing end plate allows for easy internal inspection with no bearings to pull. Oil lubrication is via a mechanical piston pump driven by shaft rotation or available with a sight-feed valve oil regulator system using vacuum/pressure to draw oil with no moving parts. **800-801-6663; www.wallenstein.com**

### Westmoor Condé PowerPaks

**Westmoor Condé PowerPaks** are preassembled, gasoline- or diesel-powered vacuum pump units. They are easy to install, according to the maker, and include a heavy-duty steel base with aluminum diamond plate trim and belt guard. Rigid assembly is designed to ensure minimum vibration and maximum power. They are available with either vacuum only or vacuum/pressure pumps. A wide range of cfm options ensure the PowerPak is matched to the tank size and application. Units are powered with optional Honda GX Commercial Series gasoline engines or Hatz industrial air-cooled diesel engines. Units can be easily transferred to another tank system when needed. **800-367-0972; www.westmoorltd.co**



### VACUUM TRUCKS/TANKS



### Imperial Industries' Freightliner 108SD

**Imperial Industries' Freightliner 108SD** includes a fully remote-controlled vacuum system. It comes with a 4,200-gallon painted aluminum tank

with a National Vacuum Equipment Challenger 4310 blower (940 cfm). Functionality includes full control of the tank's PTO and pneumatic valves, providing the ability to switch between vacuum, neutral and pressure modes without leaving a septic tank access point. The bottom third of the tank is double-plated, and the tank is painted black with a diamond plate chip guard, full-flanged and dished heads for baffles, a hot shift PTO, one 4-inch vacuum inlet with lever valve, one 6-inch discharge with piston valve with a handle, three 5-inch sight glasses on the rear tank head, full-length aluminum hose trays, a SeeLevel indicator, a 24-by-24-by-24-inch aluminum toolbox, U.S. DOT LED light package, two rear LED work lights and an adjustable stainless steel rear bumper. **800-558-2945; www.imperialind.com**

### KeeVac Industries septic trucks

**KeeVac Industries** septic trucks have tanks constructed from marine-grade aluminum, stainless steel or steel. These tanks are mounted onto the customer's choice of chassis for a complete service solution. A variety of safety lighting packages are available. Custom sizes are available with engineered drawings. A variety of vacuum pumps and water pumps are available. **866-789-9440; www.keevac.com**



### Pik Rite steel 3,600-gallon vacuum tank

The **Pik Rite** steel 3,600-gallon vacuum tank is designed for strength and reliability. Its 3-inch internal plumbing keeps the exterior clean and simple. The vacuum pump mount is attached to both frame rails and easily supports pumps from any major manufacturer. It has four sight eyes for the waste

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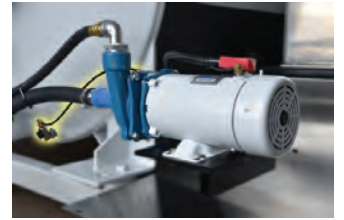
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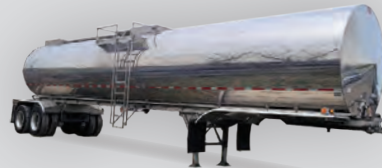
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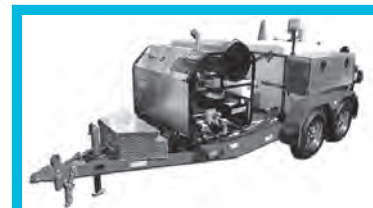
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## SEPTIC TRUCKS



**2008 Peterbilt 389** 373,022 miles, 4242 aluminum tank, NVE 887 pump package call for pricing. **Jerry Blake. 401-437-8942. jerry@tankservicesinc.com (PBM)**



**Asking \$72,500 Great condition.** Vacuum truck with a jetter on it. Has been garaged for the last few years, bought for a job that never was performed and never had an opportunity to use it. Year: 2005 Make: Sterling Model: ACTERRA Class: CLASS 8 (GVW 33001 - 150000) Max Horse Power: 300 VIN: 2FZHATD-C85AU54761 Engine Model: C7 Engine Size: 7.2L Weight: 41,000 Color: WHITE Fuel Tank Size: 100 Mileage: 120,500 Options: Air Conditioning, Air Ride Suspension, AM/FM Radio, Cruise Control, Locking Differential, Tandem Axle. **Email kovalak@comcast.net, 734-461-6838 (P05)**



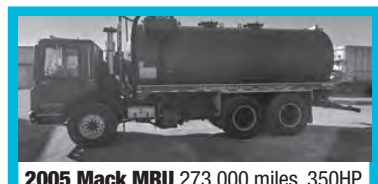
**2003 FI 70 Freightliner,** 6 speed. CAT 3126, 287,000 miles. Needs new tank. **Asking \$15,000 or B.O. call John 585-392-8611. (P05)**



**2005 Peterbilt,** 410hp Cummins, 73k, Allison Auto, AC, cruise, heavy axles, double frame, 4200 gallon alum. tank and Wittig rfi100 vac pump, ready to work. Financing and delivery available **\$69,000.00. Hull's Truck Bodies LLC 740-820-5338. (P05)**



**2014 Freightliner Business Class M2** 106, CUMMINS ISB, Diesel, Automatic Transmission, Single Axle, Juroop Pump, 2,500-gal capacity tank. Good Condition. **Ready to Work. \$57,950. 970-819-7216.(P05)**



**2005 Mack MRU** 273,000 miles, 350HP, Auto trans, 5,400 AL tank, Juroop 200 (2 units). **Jerry Blake. 401-437-8942. jerry@tankservicesinc.com (PBM)**



**2008 Freightliner Day cab** with rarely used PTO powered vacuum pump. Extremely well-maintained tractor with zero issues or leaks. Like new 4,200-gallon tanker trailer inside and out. Only ever used for non-potable water. New rubber all around, huge bonus in itself! **\$77,000 OBO. 719-666-2553. (P05)**

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 #14006 **(888)VAC-UNIT (822-8648) www.vsi rentalsllc.com. (PBM)**

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**2001 Peterbilt, 450h.p** Cummins, 357k miles, 8LL trans, jake, AC, full lockers, 18 front, 46 rears, 20k lift, double frame, 4000 gal stainless steel tank with hoist and full open rear door, Hyd driven Moro vac pump. Financing and delivery available, **\$65,000.00. Hull's Truck Bodies LLC 740-820-5338. (P05)**



**Southern truck, New aluminum tank,** New NVE B500 pump, New rear springs & tires. Front tires are like new. Excellent pre-emission truck. **Call or text 315-486-1711. (P05)**



**2019 F-750 vacuum truck.** 2500 gallon capacity, custom built Anderson Back Hoe trailer for truck. Also includes a 2007 John Deere SG-310 Back Hoe with super low hours, extendable hoe, 4 in 1 front loader, 4 wheel drive, comes with 12, 18, 24 and 36 inch buckets with quick coupler. **\*\*NOTE\*\* THIS IS A COMPLETE TURN KEY PACKAGE!!!** Please call John at 661-802-9656 or 661-802-9687, you can email him at [manningplumbing@yahoo.com](mailto:manningplumbing@yahoo.com). **\$299,000.00 (DO YOU NEED A CALIFORNIA CONTRACTORS LICENSE?? ASK JOHN WHEN YOU CALL). (P06)**



**2000 International, ISM** Cummins/300HP, 8 Speed Transmission, 20k/46k axles, double framed, 4000/200 steel tank, 380 CFM Challenger pump, Sea Level Gauge, 330k Miles (Not verified), Starts, Runs, Drives, Pumps. **\$19,000.00 Call/Text 816-988-6650. (P05)**



**2001 Mack 3000** gallon steel tank, 380cfm Challenger Pump, E-7 Mack/350HP, 8 Speed transmission, sea level gauge, Starts, Runs, Drives, Pumps. **\$19,000 Call/Text 816-988-6650. (P05)**



**STERLING 2006 CAT-7** engine 6-speed manual transmission. Just over 300K miles. 3600-gal sewage 100-gal fresh water tank PTO Driven water pump PTO Driven Vacuum pump. Truck is in great condition ready to work today! **\$43,000 call 904-315-4315. (P05)**



**99 Peterbilt, 350.h.p** Cat, 243k miles, 8LL trans, heavy axles, double frame, steerable lift, jake, AC, cruise, 4200 gal tank with hoist, full open rear door and vibrator. Hyd driven Moro vac pump, 10gpm jetter system with hose reel. New tires and paint, Tank is like new inside and out, very nice setup. **\$75,000. Financing and delivery available. Hull's Truck Bodies LLC. 740-820-5338. (P05)**



**2006 Freightliner, 14 liter** Detroit 515h.p, 673k, jake, AC, cruise, 3500 gal tank and Wallenstein vac pump. Pintle hitch with trailer air, Great running very clean southern truck. **\$47,000. Financing and delivery available. Hulls Truck Bodies LLC. 740-820-5338 (P05)**



**2012 Freightliner, 6.7** Cummins, 279k, Allison auto, under cdl, 2000 gal tank with hoist and full open rear door, Hyd driven Moro vac pump, 500 gal stainless water tank and tool boxes. New tires and aluminum wheels. Very clean southern truck. **\$65,000 Financing and delivery available. Hull's Truck Bodies LLC. 740-820-5338 (P05)**



**International 2009 Work Star** Cummins ISM motor 10-speed manual transmission Just under 200K miles. 4000-gal sewage 400-gal fresh water ALUMINUM tank PTO Driven water pump 8.5 GPM 2200 PSI PTO Driven Vacuum pump NVE 367 Challenger PTOs are set for truck to be in idle and pumps at there proper RPMs. Truck is in great condition ready to work today! **\$77,700.00 Call 305-332-9949. (P05)**

2014 Freightliner Cascadia Vacuum Tank truck (white). 3,300-gallon New Tank (red). New NVE 360 cfm pump. Clean Interior. Good Cold A/C. Air Ride/ Air Brakes (jake brake). DD15 Engine. 60% Rubber on tires. Mileage: 457,286. Price: \$70,000. 1-800-721-2774 (PBM)



**2006 Kenworth T300** 7 ton Del Zotto 17' bed. 6-speed transmission. This truck will be a great delivery truck or yard precast truck. **Email me for more info. dhbsitework@gmail.com \$85,000 (P05)**

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**1995 Freightliner FLD 120, 14.** L Cummins, N14 - Eaton 10 Speed Transmission, Front Axle GAWR 12k lbs., Intermediate Axle GAWR 19k lbs., Rear Axle GAWR 19k lbs., GVWR 50k lbs., 321,877 Miles, Front Tire 11R 22.5 both @ 75%, Rear Tire 11R 22.5, 6 Rear Tires @ 60%, 2 Rear Tires @ 25%, 1982 Custom Vacuum Tanker Trailer, 5,500 gal., GVWR 80k lbs., 2 - 4" Rear Valves, 1 - 6" Center Valve, 1 - 4" Front Valve, 3 Manways, 2 24" @ Top, 1 - 24" @ Rear, Tire Size 11R 22.5, 3 @ 100%, 2 @ 75%, 1 @ 25%, Vacuum Pump: Transway TSI 1200, Hydraulic Drive Vane Pump Cooled by a 40 gal. Hydraulic Reservoir, Dual Filter & Electric 12v Fan with a 20"x20" Cooling Radiator, All runs good with new hood on truck, **\$29,500, Orlando, FL, or best offer, more pics available, 321-436-0150, chrisdunn@lapinservices.com (P06)**



Located in Connecticut 2005 Kenworth T800. 212K miles. 20 Front Axle 46 Rear axle. Cat C-15 475HP. 8LL 10-speed. TRANSWAY tank. 4,000 Waste 200 Fresh. Dump Tank Full Open Rear Door. Jetter. New Hose Trays. TRANSWAY 900CFM pump. **\$80,000 obo. Email: shoresepticsevice@gmail.com (P05)**



**2022 International HV607 SBA** 4,200-Gallon Steel or Aluminum Tank Jurop DL180 Blower (621 CFM). **Call Ray 501-388-9565 (P05)**

Stainless steel 2010 Polar 3,600-gallon tank ready to mount on your chassis or sell outright. 20" rear manway, two 4" inch rear valves with full stainless hose trays. KLM Companies 617-909-9044 (PBM)





**2005 Freightliner**, 450 h.p Detroit, 10-spd, AC, cruise, 2,500-gal tank, stainless hoes trays, Fruitland 500 vac-pump, tank and pump only used 6 months. Very nice clean truck. \$65,000. Financing and Delivery options Available. **Call Hull's Truck Bodies LLC 740-820-5338 (P05)**



**2007 International 4300**, DT466 with a newly rebuilt Allison transmission still under warranty. 1,750-gallon tank, masport 75 water cooled pump, cruise control, ac, clean. Truck just too small for me. Under cdl. **\$32,500.00 obo 719-859-4564 (P05)**



**4,000-Gallon Gold Dog Mack** Vacuum Septic Truck runs excellent. Minor oil leaks. Excellent farm truck/good starter truck. Truck used daily at this time 360,000 miles. Truck will need some rust work done isn't perfect but good truck chassis-1976/tank-1995 **\$8,500 OBO Suzylove416@gmail.com (P05)**



**2014 Ford F-550**. Diesel. Automatic. 4WD. New aluminum back tank. 300 waste/250 water. HXL2 Masport pump washdown system. CO. **Call JR @ 720-253-8014. (PBM)**



**2013 FL M2**. Cummins 240 hp. Auto air. Under CDL. Waste 1,000-gal/water 400-gal. Masport HXL 75 back pump. DC10 water pump. 2-unit carrier. **Call JR @ 720-253-8014. CO (PBM)**



**2007 international** 2,500-gallon truck. 250,000 miles. New rebuilt engine dt466. Automatic 6-speed. New liquid cooled how 400 masport. Tool boxes. **Excellent condition. New tires. 423-421-4347. (P10)**

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)**

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)**

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)**

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**550-gallon steel slide in**, 100-gallon poly water tank. Masport HXL-3V vacuum pump w/9-HP Honda engine. 30' of 2" waste hose, 50' garden hose on hose reel. Toico water pump, 3" discharge. 7,000-lb GVWR tandem axle trailer. **\$16,029. Call Jamie 800-558-2945, salesinfo@imperialind.com. (PBM)**



**NEW aluminum slide-in tanks**. 2 available. 450-gallon (300/150), Honda motors, Masport pumps. **Call JR @ 720-253-8014 or Mike @ 303-478-4796, CO. (PBM)**

## SLUDGE APPLICATORS



**2004 Ag Chem 3104** Nutrient Management Machine. 7,792 Hours. 4,200-Gallon tank. **\$125,000.00 Contact Dave @ 815-979-6410 or nehrings99@yahoo.com (P05)**

## TANKS



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**Complete steel vacuum tanks**. 1800, 2300, 2500, 3360, and 3,500-gallon tanks. Bright white paint, primer-only, or galvanized. Custom sizes and configurations available. **Call 309-761-4885. (P05)**

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**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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Septic pumper and vacuum die-cast toy trucks in your choice of colors and logos. Several cabs available. Call 877-450-2100, write to Granite State Collectibles, PO Box 440, New Ipswich, NH 03071; or [www.granitestatecollectibles.com](http://www.granitestatecollectibles.com). (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)**

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## TRUCKS (DUMP, SEPTIC, MISC.)



**2006 Peterbilt 379 Pump Truck**, Caterpillar C-13 Motor, 9-speed transmission with overdrive, 5,000 Gallon Tank, **\$50,000.00 OBO, Contact Mark @ mbates@uswatercorp.net. (P05)**



**I have a 2010 Kenworth T800** with a 1 year old 3400 gallon stainless steel tank and a 1 year old 4310 vacuum blower. 255,577 miles on the truck. It has a new in frame overhaul with a new turbo. New rear tires. \$170,000.00 Call for details at 515-745-0109 or email me.

**Mark Hansen, Hansen Mechanical Inc, Cell: 515-745-0109, Office: 515-438-4532 Email: Mark@Hansenmechinc.com (P05)**



**2001 International DT466.** Hi & low range 6-speed transmission. 2,500-gallon later tank, with rebuilt pump completely rewired. All new tires all around (not recaps) New paint. **\$28,000 (814) 496-2544 for more info or email@ jr.bailor1980@gmail.com (P05)**



**For Sale - Fishkill NY 2004 Peterbilt** model 379 with 2008 5,000-gallon steel tank New C15 Cat 550HP installed May 2014 122K ago Current miles 685,625 Steerable drop axle challenger pump NVE506 \$65,000 great running truck Have all documentation **Call Jason Herring at 845-629-0028. (P05)**



**United Equipment Funding, Inc.** 2007 International 9900ix, Caterpillar C-15 Acert 475 HP, 18-spd transmission, 46K rears, 172,000 original miles, all aluminum wheels 24.5 tires, follow this link for complete specs and additional pictures <http://www.unitequipmentfunding.com/inventory/specsheet/?ID=16135624> 2004 Peterbilt 378, Cat C-12 430HP 18-spd, 40,000 lbs rears, 24.5 tires and wheels, 3,570-gallon aluminum tank, follow link for complete specs and pictures <http://www.unitequipmentfunding.com/inventory/specsheet/?ID=16135621> , 2014 Arthur aluminum vacuum tank 4200 gallons <http://www.unitequipmentfunding.com/inventory/specsheet/?ID=16145432>. **720-488-9272 (P05)**



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



**Two Pump Trucks For Sale.** Both are International 550 HP Paystar Model 5600i with 5,000-gal capacity, Wittig RFL100 Pumps, 18-Speed Eaton Transmission, Axles: 20,000 Steerable, 22,000 Front, 46,000 Rear, Rear end ratio 4.3, Pre-emissions. -2003-328,887 miles \$52,500 -2004-149,552 miles **\$62,500. Contact Frank King 978 452-7750 (PBM)**



**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)**

## VACUUM EQUIPMENT



**25 Yard Vacuum Roll off Box** for Sale. \$7500. Dawsonville GA. **Call Kip 706-206-5041 (P05)**

## VACUUM LOADERS

2022 Freightliner 114SD cab & chassis with a VACALL AV18 wet/dry Industrial, vacuum loader with 8" top load boom assembly.

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2000 Guzzler Ace International chassis with CAT engine. Great running truck and blower. Tank body was recently replaced brand new from Guzzler. KLM Companies 617-909-9044. (PBM)

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DRIVER/TECHNICIAN-SEPTIC PUMPING COMPANY IN FREEHOLD, NJ, seeking a FT or PT driver/technician with a valid CDL (B) with Tanker endorsement, clean 3 year driving record and current DOT medical card. Must be able to drive manual transmission. Septic experience preferred, but not necessary. Please call our office at 732.252.8852. (P05)

Wanted: basic portable restrooms for new septic business in Vermont. Willing to travel to pick up. Reasonable prices please. Call or text Scott 802-689-9774 Or email [ruralsepticsservice@gmail.com](mailto:ruralsepticsservice@gmail.com) (P06)

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### Satellite Industries acquires Sanitrax International

Satellite Industries has acquired Sanitrax International, a manufacturer in vacuum technology for portable sanitation products. The Sanitrax organization will be a part of Satellite's new Vacuum Technology Division. Sanitrax developed and sold a retractable, containerized mobile restroom unit, housing multiple self-contained toilets, urinals, wash basins and showers that rely on vacuum flush technology.



Jim Felker

### Jim Felker joins SJE as regional sales manager

Jim Felker is the newest regional sales manager for SJE. He will be working out of Oxford, Michigan, covering the northeast territory for SJE Rhombus and CSI Controls. Most recently, he worked in outside sales at Sales Service Plus, a manufacturer's rep that represents SJE Rhombus.

### Franklin Electric announces recipients for outstanding achievements

At its annual Commercial Summit, Franklin Electric announced winners of this year's awards for outstanding performance, sales and customer support. They were Field Salesperson of the Year, Jimmy Vela; Field Service Engineer of the Year, Ryan Horner; and Team of the Year, U.S. South Central Region. The team members, led by Darol Hayes, included Chase Ellsworth, Dave Batdorff, Erasmo Barron, Ilse Gallegos, Jennifer Ford, Jesse Zwiebel, Jimmy Vela, Hannah Kiningham and Woody Kunkel.



### Curry Supply completes expansion, relocation

Curry Supply relocated its main manufacturing facility from Martinsburg, Pennsylvania, to Hollidaysburg, Pennsylvania. The move to 1477 DeGol Industrial Drive was completed in January. Additionally,

several Curry Supply administrative personnel from departments such as sales, marketing, finance, information technology and human resources will relocate to a new corporate office in nearby Altoona, Pennsylvania. The building will have shared office space for Curry Supply sister companies, including Curry Rail Services and Curry Fluid Power. Contact information remains the same.

### Royal Restrooms expands in Louisiana

Royal Restrooms expanded into Louisiana with the opening of its newest location in Ponchatoula, with a market focus on Baton Rouge and New Orleans. New franchisees Toby and Rhonda Breland will own and operate the new location. Royal Restrooms has 47 offices in 15 U.S. states. **P**



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## Upcoming Training & Events

### Septic System Design

#### NAWT Installer by CPOW

October 14, 2022

Location: Virtual Online Course

Contact: Lisa Nicoll cpow@cpow.net

#### NAWT O&M 2 by CPOW

December 5-6, 2022

Location: Virtual Online Course

Contact: Lisa Nicoll cpow@cpow.net

### Inspector Training

#### NAWT Inspector by CPOW

May 3-4, 2022

Location: Virtual Online Course

Contact: Lisa Nicoll cpow@cpow.net

#### NAWT Inspector by RETS

December 9-10, 2022

Location: San Marcos, TX

Contact: Lauren Trujillo

rets@rets-llc.com

### Soils Workshop Schedule

#### NAWT Soils by CPOW

May 16-17, 2022

Location: Virtual Online Course

Contact: Lisa Nicoll cpow@cpow.net

#### NAWT Soils by CPOW

August 30-31, 2022

Location: Western Slope, CO

Contact: Lisa Nicoll cpow@cpow.net

#### NAWT Soils by CPOW

September 20-21, 2022

Location: Alamosa, CO

Contact: Lisa Nicoll cpow@cpow.net

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  - > Max Vacuum 27" HG Continuous
- > Water Pump: 3 GPM @ 2000 PSI
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- > Water Tank: 900 US Gal. SS 304
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  - > Max Vacuum 27" HG Continuous
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