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**ON THE COVER:**



Above All Sanitation is a successful three-generation business for the Gates family of Eugene, Oregon. From left, Cindy, Mike and Travis Gates are shown with a Freightliner M2 built out by Interstate Truck Bodies and carrying a National Vacuum Equipment pump. (Photo by Ethan Rocke)

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Contact Jim with your comments, questions and opinions at [editor@pumper.com](mailto:editor@pumper.com).

**Jim Kneiszel**  
Editor

# Countering the Fake News of Septic System Maintenance

A YouTuber's ignorant rant could provide a devastating setback to the wastewater industry and the people who rely on septic systems consumers

**D**o you ever wonder how the myth that septic tanks never need pumping gets propagated and remains alive no matter how hard wastewater educators and leaders in our industry try to kill it? Well, you can thank folks like George Tallabas for spreading ignorant misinformation that continues to threaten clean well-water supplies, leads to costly septic system failure for homeowners and ultimately makes your job as pumpers more difficult.

Who is Tallabas, and what is he saying about septic system care? He is a real estate agent in Southwest Idaho who recently shared a brief manifesto on YouTube, advising homeowners that they never need to pump their septic tanks, that pumping septic tanks is — in fact — detrimental to their continued operation.

Yes, we all know the pumping naysayers are out there. Doubtless you've heard many a customer at an emergency call saying someone — Uncle Bob or the neighbor down the street — told them they should never have their septic tank serviced. But these stories usually involve one person talking stupid over the fence to another person. The difference here is that Tallabas decided to share his uneducated views with everyone on the World Wide Web with the video titled Don't Pump Those Septic Tanks.

## THE "EXPERT" ADVICE

How did I hear about the real estate agent's rant? A Pumper reader brought the video to my attention and wondered what I thought about it and what we should do as a community to counteract the message.

In his video, Tallabas says that while he was on the local planning and zoning board about 25 years ago, an "expert" from Minnesota addressed the board, sharing what he knew to be true about septic system maintenance.

"He said ... if a septic tank is put in correctly, the drainfield and everything is working correctly, and it's put in the right depth and everything, you should never, ever uncover that septic tank again. When you put in a septic tank and start using it, a certain amount of bacteria develops in there and allows all the solids and liquids to separate, and it works perfectly. ... When you start disrupting that every two to three years (by pumping), you're going to have more problems than you asked for."

➤ Doubtless you've heard many a customer at an emergency call saying someone — Uncle Bob or the neighbor down the street — told them they should never have their septic tank serviced. ... These stories usually involve one person talking stupid over the fence to another person.

Tallabas goes on to explain he has never pumped his own septic tanks, and his parents before him never pumped theirs. And this goes back to when he was born in 1956.

"When I bought the house where I live now in 2008, and the bank I bought it from asked if I wanted them to pump the septic tank, I said 'no.' I've never had a problem. I have Christmas every year at my house, and I always feed between 15 and 20 people every year and I've never had a problem."

Tallabas did raise a caveat in the video. That was that users shouldn't put bacon grease or other inappropriate things down the drain, or they may be inviting problems. "If we just take care of those tanks the way they were put in, we should never have a problem."

## DON'T BLAME ME

He concluded the video saying, "So I'm not telling you not to pump your septic tank and then have a problem, and then come after me. I'm just telling you that I don't believe in it."

In the comment section below the video, a few pumpers tried to argue with Tallabas, but he would have none of it.

"This is bad advice. Don't follow it," wrote one. "Honestly, his argument is similar to saying smoking and drinking are no problem because my

100-year-old aunt drank like a fish and smoked like a chimney and never went to a doctor. ... So you know, stay away from the doctor, too.”

Another chimed in, “I’m not a real estate agent, so I don’t tell people how to buy and sell houses. With that said, listen to him. ... That way there will be more costly repair work for guys like myself to be able to have. I’ve been doing this for 35 years. ... Don’t complain to me when it backs up and you are hit with a costly repair that could have been avoided.”

“I have spoken the truth in this video,” was Tallabas’ response. And, unfortunately, many viewers responded saying this was correct. Never pump your septic tank.

### FOLLOW-UP CALL

I had a few questions for Tallabas. Who was this so-called expert who said septic tanks never needed to be pumped? How can you be so sure of yourself based on your limited experience as a septic system user? Knowing your opinion is refuted by literally every wastewater professional, would you change your mind?

So I reached out to Tallabas. First of all, I must say he was pleasant and congenial when I spoke to him on the phone. But I also must say I was surprised how cocksure he was of his opinions about septic tanks when he clearly has no justification for that confidence.

Who was the expert from Minnesota that helped create the foundation for his expertise in decentralized wastewater? “I’ve had 3,700 closed transactions and I couldn’t even tell you who I talked to yesterday,” said the man with 41 years’ experience selling houses. The speaker was in the field of planning and zoning and not a wastewater expert, apparently.

Tallabas takes great stock in his own experiences with septic systems. He has never paid to have a septic tank pumped and that’s because he knows how to take care of it properly, he explained. Aside from the video, he talks to his neighbors whenever he sees a vacuum truck pull up to their houses. He asks them why they are having the tank pumped, and they say they are following the local health department’s recommendation to have periodic service. He shares what the “expert” told him many years ago.

I explained to Tallabas that his opinion runs counter to every university wastewater educator I’ve talked to, every pumping professional I know and every state and county department of environmental health department in the land. Would that make you think twice about your message in the video or change your point of view on septic system maintenance, I asked?

“I understand it all. Like I said in the video, you don’t have to believe what I’ve told you,” he said.

### FIGHTING THE “FAKE NEWS”

I told Tallabas that I disagreed with him and that the pumper community would think he was reckless for sharing his opinion when it is clearly wrong, and he can’t even name the “expert” source who told him tanks never need to be pumped. I tried to explain how sludge and FOG layer buildup is inevitable, requiring tanks to be pumped. I told him that my state and many others require periodic pumping to protect the septic

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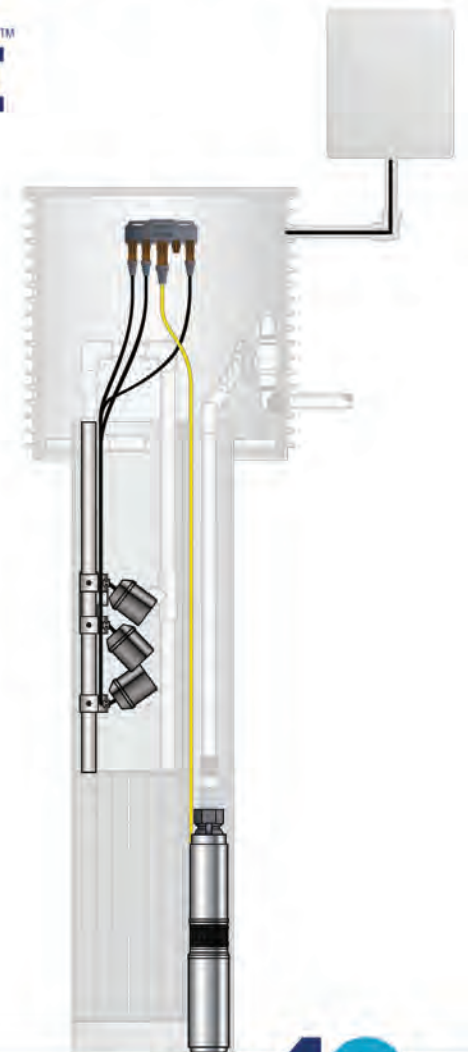
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systems and precious groundwater from contamination. He said he has been told all of this and it doesn't change his mind.

One argument from the pumper who responded to the video rang true to me. That was saying he wouldn't presume to tell Tallabas how to sell real estate, and Tallabas shouldn't tell pumpers and septic system users how to handle wastewater! This is a reasonable approach, but one that clearly Tallabas doesn't understand.

If he wanted to study the issue, Tallabas would find overwhelming

evidence that his statements are false and harmful both to the environment and to septic system users. But he would rather sputter out incoherently about something he knows nothing about. Unfortunately, the world is populated by many people with that lack of judgment. All we can do in response is speak up to inform and educate the public about the need for septic system maintenance.

Keep fighting the good fight for the benefit of septic system users and the industry that cares about its customers and the environment. **P**

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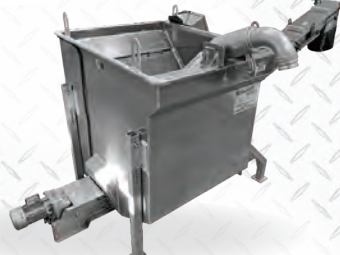
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## 2014 Freightliner M2

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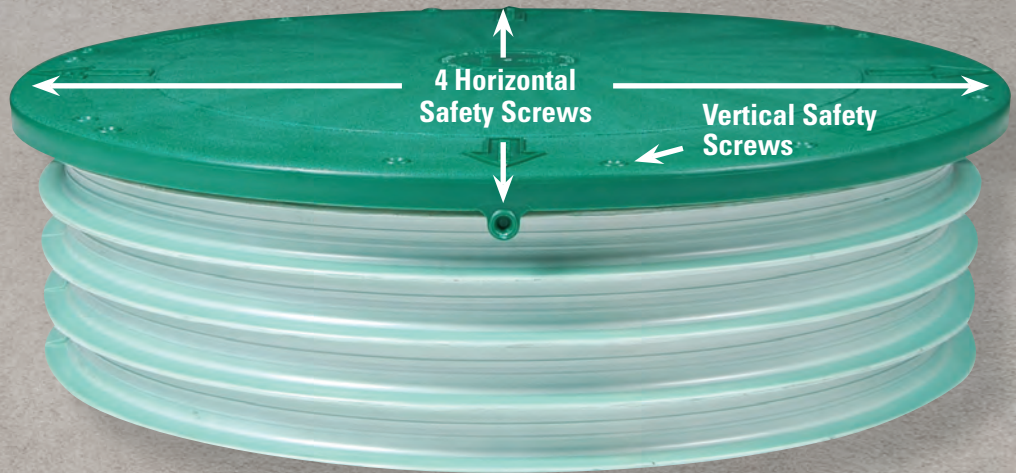
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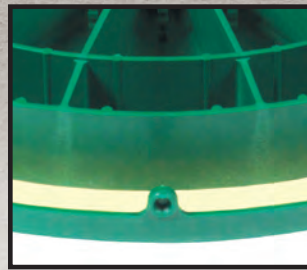
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PIPE MATERIALS

## joining PVC pipe without glue

Using primer and glue is the most common method to join together two pieces of PVC pipe, but there are other connections and joints needed for specific applications. In this online exclusive article, Sara Heger, Ph.D., researcher and educator in the Onsite Sewage Treatment Program in the Water Resources Center at the University of Minnesota, offers some examples.

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MACHINE COMPARISON

## skid steers vs. track loaders

Skid steer or compact track loader? The answer depends on several factors — not the least of which is cost. But at the end of the day, there's room for both workhorses in any stable. In this article, industry experts talk pros and cons of each.

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“ Sometimes it can seem like blasphemy to say that busy is a bad thing. But most business owners agree that there is a difference between ‘good busy’ and ‘too busy.’ ”

— *When Being Busy Isn't Always Good Business*  
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THE RISE OF CYBERCRIME

## protect your company's information

The internet empowers small businesses to compete, communicate and collaborate like never before. Sadly, there are also some significant downsides, not least of which is the prevalence of cybercrimes. Your company may be at risk, but there are a few basic protocols you can enact to keep your data safe and secure.

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PUMPING LESSONS

## help customers understand maintenance

The importance of educating customers about the need for regular maintenance and pumping of their septic systems can't be overstated. Customers most likely aren't going to learn about septic systems on their own and no one else is going to teach them, so if you don't do it, they're going to remain ignorant.

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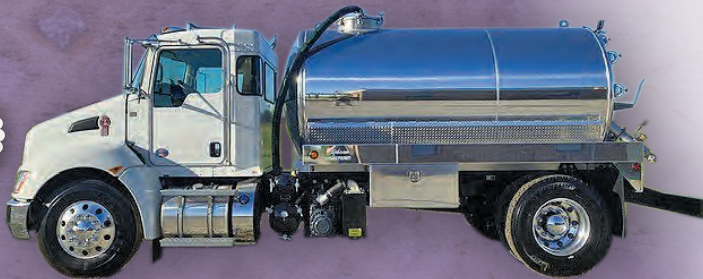


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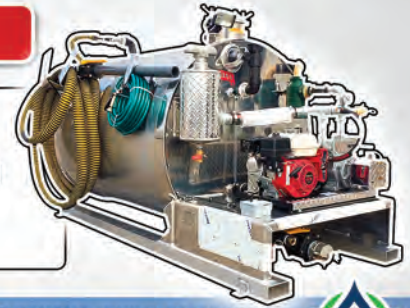
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# Welcome ► HOME

After years working in and out of the pumping industry, an Oregon family has settled into a full-service wastewater business for good

By Betty Dageforde

▲ From left, Travis, Cindy and Mike Gates of Above All Sanitation. (Photo by Ethan Rocke)

► Technician Matthew Peacock, left, and Travis Gates use a Spartan locator during a residential service stop. (Photo by Tyler Gordon)



**W**hen Mike Gates sees something going on in a market that could signal problematic changes for his industry, he doesn't just wait around for the fallout to occur. At least twice in his life, he ended up making major life changes.

In the mid-1980s when he was in his 20s, he and his father James were involved in companies that made high-temperature heat shields for the aerospace industry in San Diego. "Then we noticed some changes being made to aerospace," Gates says. "People making important parts for aircraft had to have a clean room. And they wanted me to pick up a liability policy."

In response, he and his father started looking for a business to buy. "We looked at everything from gas stations to picture framing," he says. "We saw maybe 50 or 60 businesses during a five-month period."

They finally found what looked like a good fit in a septic service and portable sanitation company, near San Diego. They met the owners, a young couple wanting to get out. Their accountant looked over the numbers and advised them to buy it. James continued in aerospace and let Mike run the new company.

"The first couple years were really tough," Gates says. "But my dad put all the faith and trust in me. He pretty much cut me loose and told me, 'Here it is, go do it. Put your blinders on and move forward.' That's the only way I succeeded — is because of him and the trust he put in me."

## SEEING THE FUTURE

Over the next 15 years, Gates grew the company from 329 restrooms to 2,500. Then, once again, he saw changes taking place that would affect their business. "The building industry was just booming but I noticed they were putting a moratorium on water meters," he says. "They were building homes so quick and they undersized the waterlines, so they had to take a step back. I knew that was going to hurt us."

Gates decided it was a good time to get out. He was also ready to step away from the hectic life the business had demanded. They sold the company, and he moved his family to Eugene, Oregon.

After a brief stint selling heavy equipment, Gates decided to get back into portable sanitation, this time from scratch. He had dreams of his own son joining him and eventually taking over, but those dreams were dashed in 2007 when Travis Gates announced he was going into the seminary. "It hit me hard," Gates admits.

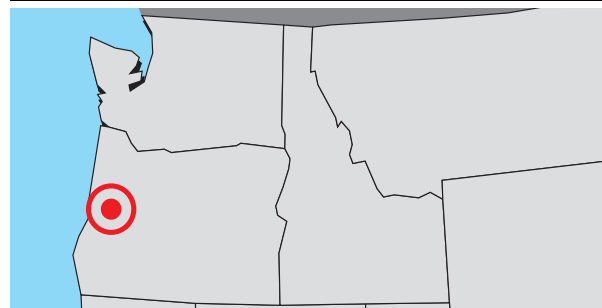
But three years later, Travis called saying he was ready to come home. Gates flew to Minnesota to bring Travis home, and they brainstormed about the business all the way back to Oregon — and they haven't stopped since.

The family operates the company, Above All Sanitation, out of their 106-acre property. A barn with eight bays and rollup doors houses the trucks, equipment is kept in the yard and a trailer serves as the office.

Now, as Gates nears retirement, Travis says he pretty much runs the whole thing. The staff of 15 includes his sister Jessica Gates, secretary; aunt Kari Reynolds, office manager; cousin Justin Sims, route driver; and brother-in-law Tyler Gordon, sales and marketing. They cover a 60-mile radius from the Pacific Coast to the Cascade Mountains.

## Above All Sanitation

Eugene, Oregon



**OWNER:** Mike Gates  
**FOUNDED:** 2000  
**EMPLOYEES:** 15  
**SERVICE AREA:** 60-mile radius  
**SERVICES:** Portable sanitation, septic service, onsite installation and janitorial supplies  
**WEBSITE:** [www.aboveallsanitation.com](http://www.aboveallsanitation.com)

## ► Pumper PROFILE

► Technician Rob Ross returns a suction hose to his Isuzu service truck from FMI Truck Sales & Service and carrying a Masport pump. (Photo by Tyler Gordon)

♥ Jessica Gates processes billing and customer service requests at the Above All Sanitation office. (Photo by Tyler Gordon)



“ I JUST TELL THEM, ‘I WANT YOU TO BE STRAIGHTFORWARD WITH ME. LET’S DO A RIDE-ALONG AND AT THE END THINK ABOUT IT AND JUST TELL ME STRAIGHT.’ ”

TRAVIS GATES

### VARIED RESTROOM SERVICE

Mike Gates received help from former industry contacts when he started his business in Eugene. “From there it just started mushrooming,” Gates says. “I got involved with the home builders association. I met a lot of park and rec people.”

Today’s inventory stands at 1,500 standard portable restrooms, 40 wheelchair-accessible units, 20 ADA-compliant units, 200 hand-wash stations, and 60 250- and 300-gallon holding tanks (all from Satellite and PolyJohn). The company now stocks all units with hand sanitizers.

“We used to just offer it but people didn’t want to pay for it,” Travis Gates says. “But about five years ago we just decided across the board it’s better to have it. And now with the virus, people are insistent on it.” The company also has about 60 company-designed metal double-sided hand sanitizer stands built by Eugene Ornamental Iron. They look sharp, Travis says, and the large heavy metal base provides stability and a deterrent to theft.

The bulk of their work is for construction. Most special events were canceled in 2020, but the company typically provides units for the Light of Liberty Fourth of July celebration, the Oregon Country Fair, sand dune tours at the coast, homeless facilities, gospel camps, parks, sawmills, regional vineyards and wedding venues. They are also listed with several Oregon Department of Forestry districts to provide units for fire camps.



Hauling equipment is done with a 16-foot flatbed Isuzu truck from FMI Truck Sales & Service and two 20-unit Explorer trailers from McKee Technologies. The service fleet includes six 2016-2019 Isuzu WorkMate vacuum trucks from FMI, one with an aluminum tank and National Vacuum Equipment Challenger pump, the others with steel tanks and Masport pumps. Each can handle 500-750 gallons of waste/300 gallons of freshwater and carry four units. The newest addition is a 2019 Dodge 5500 built out by PortaLogix with an 800-gallon aluminum waste tank and Masport pump. The 350-gallon water tank is built into the bed of the truck and the vehicle can carry six units. The company uses deodorizer supplies from Safe-T-Fresh (Satellite). Waste goes to the municipal treatment plant or a lagoon treatment facility.

### PUMPING AND INSTALLING

Septic service accounts for about 20% of the company’s revenue. Pumping is done with a 2017 Freightliner M2 built out by Interstate Truck Bodies, with a 2,200-gallon waste steel tank and NVE Challenger pump. The truck also carries 300 gallons of freshwater for recharging vault toilets pumped out for the federal Bureau of Land Management and Army Corps of Engineers. Plans are to purchase a 5,000-gallon tank truck to go after larger commercial accounts.

Their real estate inspection work has been increasing, and they’ve also had a lot of repair work in recent months.

“I don’t know if it’s a generation thing of when certain systems were installed, but we have a lot of repairs going on right now for tanks that have outlet or inlet issues due to tanks that had the cast iron baffles,” Travis says. “They’re restricting down and causing issues because of the types of pipes they had 20 years ago.” He says their Spartan locator has been especially helpful. They also have a Honda 4,000 psi handheld jetter and a RIDGID 200-foot camera.

(continued)



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▼ Jerry Smith fills a bucket of freshwater to recharge a restroom on his route. (Photo by Ethan Rocke)

### ▼ A slow-season solution

While Oregon winters are not overly severe, work does slow down for Above All Sanitation. To sustain revenue and avoid layoffs, in 2010 Mike Gates came up with the idea of selling janitorial supplies as another service to offer existing customers.

“We started it to pick up the slack,” he explains. “Oregon gets quite a bit of rain during the winter months and construction and special events slow down.” They began acting as a distributor for several janitorial supply companies. “We sell all kinds of cleaning products and supplies,” he says. “Or if someone wants vacuum cleaners or carpet scrubbers we can get that, but we don’t stock those.”

For a while the company also provided cleaning services for office trailers, gyms and doctors’ offices, but the company is phasing out that service. “It was too much of a hassle for scheduling,” Gates says. “We had to be there after hours, so you’re asking employees to work late hours. Sometimes it was even from 11 at night until 3 or 4 in the morning. We didn’t really want to do that to our employees.”

Gates reports his idea was successful. “Without any advertising we just reached out to our customers, and it started taking off,” he says. “I think we’ve probably grown it more than 20% every year.”

The company installs a variety of septic systems. “We can do just about any of them,” Travis says. “Oregon has gone away from sand filters. We can install any of the advanced systems and the conventional, and the different drainfields, including the EZflow byInfiltrator or just standard gravel and pipe.” Equipment includes a Bobcat T630 skid-steer, a Chevy 2000 5-yard dump truck and three excavators (Takeuchi TB260, Kubota KX121, and for smaller repairs and tight spots a Kobelco SK17).

### ENCOURAGE FEEDBACK

The company has never done much advertising, Travis Gates says, but in early 2020 he hired Tyler Gordon to do sales and marketing, update the website and bring them onto social media platforms. Gordon also used his film background to film and post customer testimonial videos.

When it comes to hiring, Travis knows not everyone is cut out for this work. He’s brutally honest with prospective employees and wants the same from them. “I just tell them, ‘I want you to be straightforward with me. Let’s do a ride-along and at the end think about it and just tell me straight. And even after a week, if you’re like, no, I don’t think I can do it, just tell me. I don’t want you to be unhappy or me to be unhappy.’ Honesty is one of my main things.”

The family recently conducted an anonymous employee survey to see if there are any issues not being addressed and to promote good employee relations. Creating a good work environment is very important to Travis. “Everybody’s different but it’s balancing work where you’re not overworking somebody and giving them what they need so they enjoy coming to work,” he says.

“ I LIKE HELPING PEOPLE OUT AND PROVIDING A SERVICE THEY NEED AND SEEING PEOPLE BE APPRECIATIVE. ”

TRAVIS GATES

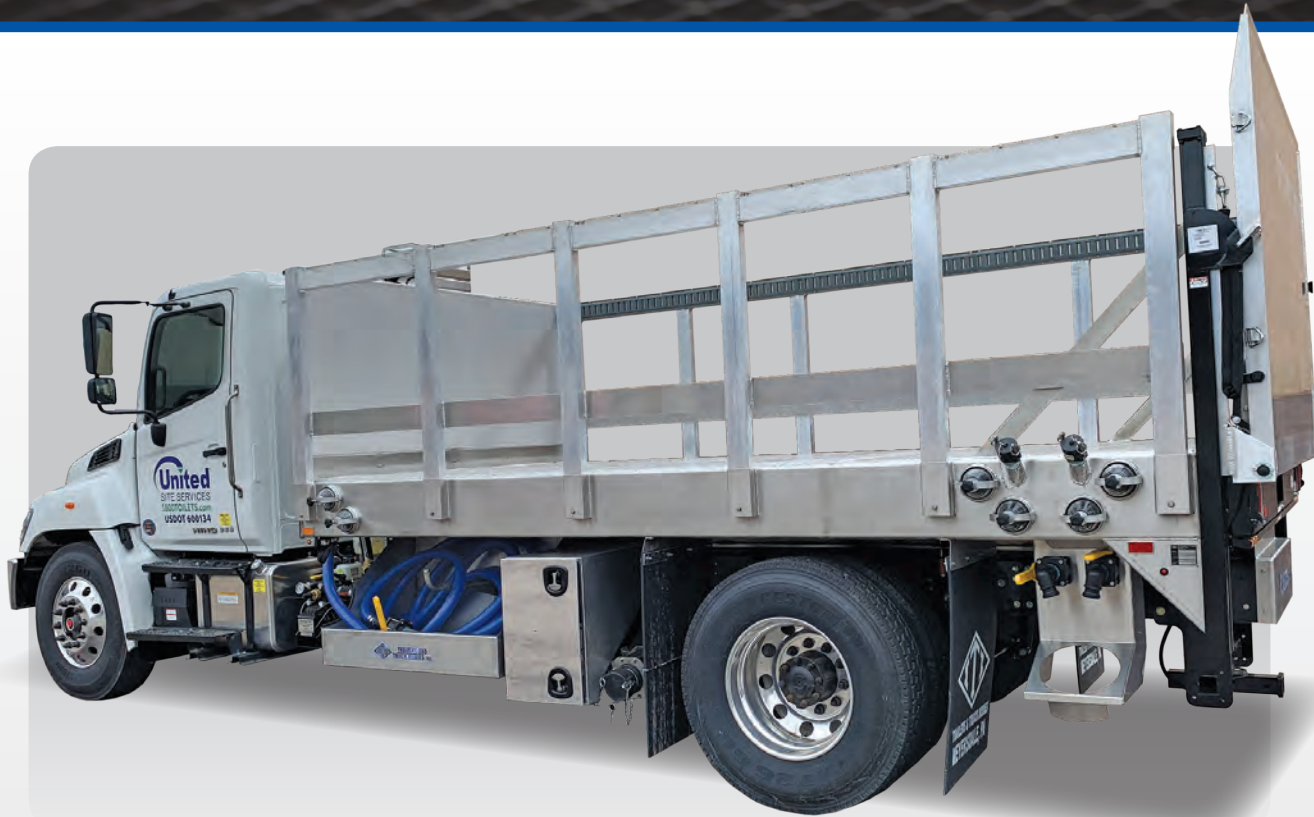
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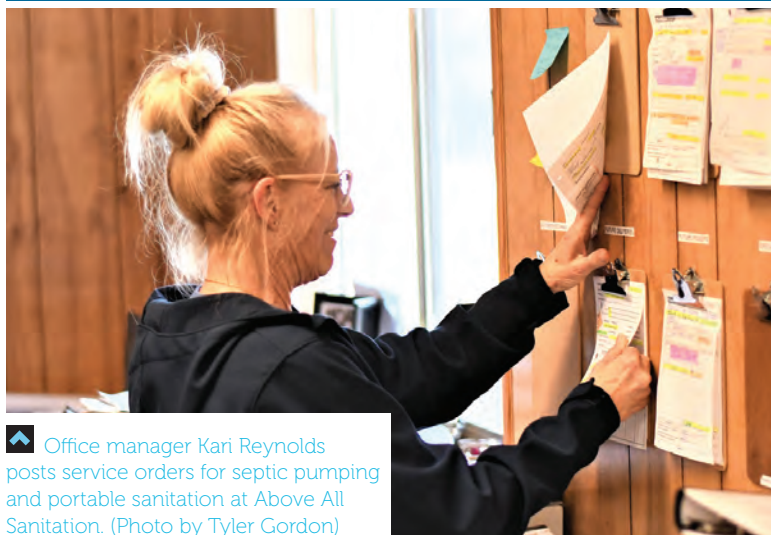


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Office manager Kari Reynolds posts service orders for septic pumping and portable sanitation at Above All Sanitation. (Photo by Tyler Gordon)

With few exceptions — and, of course, fire emergencies — the company is closed Sundays. They do publish an emergency number, but only Travis takes the calls. “I won’t call someone in for a Sunday,” he says. “It’s just our company policy.”

The company holds monthly breakfast or dinner meetings to go over issues, plans, concerns, new protocols and reminders of seasonal challenges to watch out for (summer bees, winter mold). Bonuses are given in the summer and at the end of the year. The Christmas party, held at a hotel, includes a nice dinner, white elephant games, gift card packages and an overnight stay with breakfast the next morning.

### THIRD GENERATION

The Gates family also holds their own monthly meetings to discuss staffing and big-picture matters. One such issue is Mike Gates’s impending retirement. “We have a two-year plan where Travis will take it over — maybe sooner,” Gates says. Travis is ready for the challenge and looks forward to continuing on the growth path started by his father and doing it in a thoughtful, controlled manner.

Travis has no regrets about the career change he made 10 years ago and is grateful for the opportunity he’s had. “I and all the employees are appreciative of what my parents and my aunt Kari have done to bring the company to where it is,” he says. “I like helping people out and providing a service they need and seeing people be appreciative.”

Travis still runs issues past his dad but appreciates that his father extended to him the same free rein he was given by his father. “I feel confident we’re going in a good direction,” he says. “I think we have a really bright future.” **P**



Matthew Peacock pumps graywater from a customer’s 350-gallon holding tank. (Photo by Tyler Gordon)



Above All Sanitation diversified into offering janitorial supplies. They use a van and box truck to distribute products from several janitorial companies. (Photo by Tyler Gordon)

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**Scott Chase**

# Landscaping Tips for Over and Around the Septic System

Your customers might not want to plant plain and simple grass over the drainfield. Be ready to offer interesting, safe alternatives for groundcover to help protect their systems.

By Steve Lund

**W**hen Scott Chase was approached by a master gardeners group to present a program on landscaping over septic system drainfields, his first thought was, “Sure, I can do that, and the program would just have one slide — grass!” Upon some reflection, however, Chase realized there are lots of other options, and he later prepared and presented a program on planting on and around drainfields. The retired Washington State University Extension program director, who lives on Camano Island, Washington, shared some of those landscaping ideas with *Pumper*.

**Pumper:** How did you develop expertise in planting around septic system drainfields?

**Chase:** I headed up a program for the Washington State University Extension for Island County called Shore Stewards. It was for people who live on the islands (Camano Island and Whidbey Island in Puget Sound, northwest of Seattle) about what practices they could do to ensure that our groundwater and our marine water is protected. Part of that involves septic. That was one of the first things to teach them about. A lot of the people who joined are not from here. They are from a major city like Seattle, or they might have come from another state and never lived with septic before. It was really important to learn about that sort of thing, moving to a rural environment. On Camano Island, where I live, everybody is on septic. I had been teaching classes and doing presentations on bluff stability. A lot of people live on shoreline properties where there are bluffs, and they have to worry about that sort of thing. I had also assisted in doing Septic 101 classes. As far as drainfields are concerned, there are lots of other things to plant besides grass, and some of them are the same native plants that I had always encouraged for bluffs, except just the ones that are shallow-rooted plants.

**Pumper:** Why do the plants have to be shallow rooted?

**Chase:** We’re in a temperate climate in western Washington. We don’t really have our ground freeze. Our septic pipes can be as close to the surface as 6 inches. Anything you plant with roots over 6 inches long can get into the drain holes of the pipe and clog things up.

“ Native plants that are adapted to the area, once they are stable, don’t need watering. They get what they need from the normal rain that we have. We don’t want to add to that.

– **Scott Chase**

**Pumper:** Why do you emphasize native plants?

**Chase:** Once native plants are established, you don’t have to worry about watering them at all. I want to discourage watering over the drainfield. We caution against any irrigation. If you are watering, it ends up saturating the ground above the pipes. You like to have it relatively dry. What comes out of the drainfield itself has to be able to be picked up by the roots of the plants. The drainfield has to be able to go through evapotranspiration. That’s a process by which plants and trees or any kind of foliage or groundcover soaks up the water from the soil and transpires, basically sweats it out into the atmosphere, through their leaves. A large tree like a Douglas fir can transpire up to 100 gallons of water a day, or thousands of gallons over the summer. Short-rooted plants and other groundcovers don’t transpire that much, but they are needed to allow the water, the effluent, to be transpired out as much as possible. The way we look at it, the ground around there is a living, breathing thing. If it is heavy with water, it isn’t allowed to evaporate. That’s what happens if you have a lot of watering. Native plants that are adapted to the area, once they are stable, don’t need watering. They get what they need from the normal rain that we have. We don’t want to add to that.

**Pumper:** What can be planted over the drainfield besides grass?

**Chase:** There are meadow mixes of seeds that include a mix of broadleaf and grass species and flowers. Sometimes they are called ecolawns. The different plants in the mix are mutually compatible, need less water and less fertilizer than conventional lawns. They are mowable, but they require less

(continued)



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mowing than a conventional lawn. Sometimes they include dwarf perennial ryegrass and hard fescue, clover and alyssum, a small flowering plant.

**Pumper:** Can trees or bushes be planted near a drainfield?

**Chase:** Dwarf varieties are better. The advice we give is that the height of what the tree will become is equal to the distance from the drainfield. If it's going to be 30 feet tall, then 30 feet from the edge of the drainfield is the rule of thumb. Before you plant something like that you might check to see how deep that tree's root system will grow, which you can usually get from the nursery or find online.

**Pumper:** Are there certain things that should never be near a drainfield?

**Chase:** Willows are ones that you really want to avoid. Any trees that are really attracted to water, like cottonwoods, you really want to avoid planting near a drainfield. Larger grasses, such as pampas grass and bamboo are also bad.

**Pumper:** What about landscaping right over the tank?

**Chase:** There are many options for covering up things that are not as attractive as they could be, like inspection covers. If you do a Google image

search 'hiding septic tank covers,' you'll find hundreds of images, ranging from fake rocks to planters that appear to be large, but are mostly hollow below the top portion. All examples are lightweight and easy to move for inspections and pumping. You'll see circular mosaic pieces that you can place directly over the green riser cover and birdbaths that have a hollow base that can fit directly over PVC septic vents. It's amazing how many decorative solutions are out there.

**Pumper:** Any advice for installers and pumpers for talking about landscaping with their clients?

**Chase:** It would be a good idea to have a handout they could give to people relevant to their location in the U.S. They could get information from a local nursery if it's a nursery that specializes in native plants. They might also check with their university extension office or soil conservation district, or the master gardeners program. Most of those would have information relevant to that area. What works for New York doesn't work for Utah, Florida or California. If the pumper or installer gives them something for maintenance and upkeep, they'll remember that. It would be a good way to keep the business name in front of the homeowner. **P**

## List of plants for planting on or near a septic tank drainfield



Scott Chase, a retired program director for Washington State University Extension, offers this list of plants that are suitable for planting over a drainfield. Note that this list is specific to western Washington. Some of these plants might be unsuitable for other climates. He recommends checking with local nurseries or university extension offices for suitable plants in other areas.

### Deep shade (no direct sun)

- **Japanese Spurge** (*Pachysandra terminalis*) is an aggressive evergreen groundcover, which forms a thick cover that minimizes weeds.
- **Carpet bugle** (*Ajuga reptans*) is an aggressive groundcover that produces blue flowers in spring.
- **Irish moss** (*Sagina*) is not a true moss, but a lookalike that is much easier to grow. This does best when mixed with ferns and other plants.
- **Periwinkle** (*Vinca minor*) is an evergreen groundcover that has periwinkle blue flowers in the spring. In shady areas, it is moderately drought tolerant.
- **Wintergreen** (*Gaultheria procumbens*) is an evergreen groundcover that grows ankle high, with spicy scarlet berries all winter long, and pinkish white flowers in summer. You should not mix Japanese spurge, carpet bugle and periwinkle. Select just one.

### Partial sun and shade (receiving about four hours of sun)

- **Carpet bugle** (*Ajuga reptans*) is an aggressive groundcover that produces blue flowers in spring.
- **Blue star creeper** (*Pratia pedunculata*) is an attractive, fast-growing evergreen groundcover with a flat carpet of tiny green leaves, smothered with starry bright blue flowers all summer long.

- **Creeping rubus** (*Rubus pentalobus*) is a species of ornamental bramble, but its small flowers and leaves are much more decorative than its thorny cousins. The rooting carpet of stems can easily grow up to 4 feet in a year.
- **Vaccinium "well's delight"** (*Vaccinium crassifolium*) has shiny, dark evergreen leaves with dainty pinkish flowers. A good, 3-inch-tall groundcover for partial sun.

### Full sun (receiving about eight hours of sun or more)

- **Kinnikinnick** (*Arctostaphylos uvaursi*) is a native evergreen groundcover known for its drought tolerance once established. Needs well-drained soil and is not tolerant of wet areas.
- **Blue-Silver Fescue** (*Festuca cinerea*) is an ornamental grass with blue-silver blades. This short, clumping grass requires well-drained soil, and is not drought tolerant.
- **Blue oat grass** (*Helictotrichon sempervirens*) is an ornamental grass with stiff evergreen blue blades. Requires well-drained soil.
- **Fountain Grass** (*Pennisetum alopecuroides*) is an attractive fountain grass with arching stems bearing soft, bottlebrush clusters of fuzzy flowers. This grass grows to about 1 ½ to 2 feet, and is tolerant of moist soils, unlike some other ornamental grasses.
- **Vaccinium "well's delight"** and creeping rubus are also suitable.

### Sun/partial sun near drainfield (not over drainfield)

- **Sword fern** (*Polystichum munitum*) is a native evergreen that is easy to grow and is very tolerant of our dry summer months in a full or partly shady location.
- **Deer fern** (*Blechnum spicant*) is a native evergreen forest fern that grows to a height of 8 to 20 inches, and 24 inches wide. Lance shaped fronds that resemble small ladders. Does best in partial to deep shade and is considered drought tolerant once established.
- **Various dwarf rhododendrons and azaleas.**



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# Alabama Groups Will Receive Nearly \$5 Million for Onsite Infrastructure Improvements

By David Steinkraus

**A** group of organizations in Alabama will receive \$4.85 million from the U.S. Agriculture Department to develop rural wastewater solutions for the state's Black Belt.

The Consortium for Alabama Rural Water and Wastewater Management will use the money for a technical assistance and training program, and to develop construction-ready plans. The consortium is led by the University of South Alabama and includes the University of Alabama, Auburn University and the Alabama Department of Public Health.

Dark, rich soils are responsible for Black Belt region's name, but those soils also include clay, which retards drainage for onsite systems. The belt covers 17 counties from roughly Tuscaloosa in the west to Bullock and Macon counties near the Georgia border in the southeast.

This grant builds on a \$710,000 grant from Columbia World Projects (part of Columbia University in New York City) in 2020. Columbia said it would match other funds, such as the USDA grant, to a maximum of \$5 million. All the work is intended for the installation and testing of cluster and decentralized wastewater treatment systems at pilot sites.

Information from the tests will be published openly, so anyone can learn from it, said an article from the University of South Alabama.

Kevin White, a professor and chair of the university's Department of Civil, Coastal and Environmental Engineering, said the lack of good rural wastewater infrastructure has many ramifications.

"It's also about the lack of a critical developed world infrastructure that allows for economic growth and development, environmental protection, and public health protection," he said.

## Arkansas

Landowners in the Illinois River watershed are eligible to apply for financial assistance to repair or replace failing septic systems. There is no income cap for receiving assistance, but people with lower incomes will get a larger share of the grant. The Illinois River Watershed Partnership is managing the program. A similar program for landowners in the Beaver Reservoir watershed is being managed by Ozarks Water Watch.

## Montana

After more than two years of discussions, the Ravalli County Health Board has unanimously passed new wastewater regulations.

The board worked on revisions after dealing with problems such as people who began construction without a permit and people who did not comply with their permits, the *Ravalli Republic* reported. County Commissioner Greg Chilcott said the new regulations are clearer and have reduced penalties and fees.

Commissioner Jeff Burrows, who also chairs the health board, said much information will be going out to the public. Given the influx of new residents, that's especially important, he told the newspaper, because many people moving into the area have never lived in a place without municipal sewer service.

## Colorado

Onsite system records for Larimer County are now available online as an attachment on property records of the assessor's office. The information is under the Building Information tab at the top of each records page. In the past, people trying to locate records about their onsite systems had to directly contact the county's Department of Health & Environment. The county has records on about 15,000 permits dating back to the late 1950s.

## Texas

Landowners in the Lampasas River watershed may be eligible for money to help repair or replace failing septic systems. The watershed covers part of Mills, Hamilton, Lampasas, Coryell, Burnet, Bell and Williamson counties. Federal grant money available through the Lampasas River Watershed Partnership, in collaboration with Texas A&M AgriLife Extension, is enough to pay for about 15 systems. Residents may receive up to 100% of the cost, up to a maximum of \$8,000.

## Massachusetts

The Association to Preserve Cape Cod wants Barnstable County to drop the interest rate charged under the Community Septic Management



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Program. Decreasing the rate from the current 5% to zero will enable the county to offer no-cost financing to the thousands of people who are either upgrading onsite systems or connecting to municipal sewers, said a letter from Andrew Gottlieb, the association's executive director, to Barnstable County commissioners.

"The cape has failed to invest in the level of advanced wastewater treatment needed to restore and preserve our marine waters," he wrote, according to *The Bourne Enterprise*. Barnstable County covers all of Cape Cod.

### Minnesota

A group of Amish men have petitioned the U.S. Supreme Court to review their wastewater regulations case. No appeal is guaranteed because the court may reject a case if justices believe there are no significant legal issues for them to decide.

Since 2006, Fillmore County has contended the Amish must install onsite systems for graywater disposal. (The Amish use outhouses for human waste, which is permitted under Minnesota law.) The Amish refused, saying the county's rules infringe on their religious beliefs. Instead of a septic system, the Amish proposed using a mulch basin system. During a trial in the case in 2019, a witness said a mulch basin would not work in Fillmore County.

The Supreme Court petition repeats the claim that county rules violate the constitutional right of the Amish to practice their religion. The brief from the attorney for the Amish said, in part, that the county and state failed to prove "that their generic interests in public health and environmental protection were so compelling in this specific application as to justify trampling Petitioner's religious beliefs."

In addition, the brief asserts the county and state failed to show that mulch basins were not an acceptable alternative.

At the end of the trial, Judge Joseph Chase wrote that by not following wastewater rules, the Amish interfere with the rights of others.

"This is a situation in which the Amish cannot, despite their most sincere efforts, be separate from the world," he wrote. "All water is connected, and all of us, Amish and English alike, drink from the same aquifers."



Owners of failing septic systems in Polk County may apply for cost-sharing to repair or replace those systems. Funding for repairs is through a grant from the Minnesota Clean Water Legacy Act. Money is limited, and preference will be given to people based on household income, condition of the existing system and proximity to surface water, KROX News reported. Homes involved must be a primary residence, and landowners will be required to pay any match up front. **P**



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# Pumper 2021 VACUUM PUMP & BLOWER MANUFACTURER DIRECTORY

MANUFACTURER	PUMP	BLOWER	REC. TANK SIZE (GALLONS)	CFM	MAX. VACUUM (Hg)	MAX. PRESSURE (PSI)	NET WEIGHT (LBS)	NUM. OF VANES	AIR, FAN, LIQUID-COOLED or LIQUID RINGS	RPM RANGE	NUM. OF LOBES	HORSE-POWER (BHP)	PORT/PIPING
<b>Com Vac Systems Inc</b> 33 Peerless Way, Unit L Enfield, CT 06082 800-243-7986 • 860-265-3786 (f) 860-265-3786 comvacsys@aol.com www.comvacsys.com  See ad, page 67	Utile		500 - 6,000	80 - 535	28.5"	35	535	6	Air, Fan, Liquid	750 - 1,100			
 <b>Elmira Machine Industries</b> 20 Martins Ln. Elmira, ON N3B 2A1 800-801-6663 • 519-669-1541 (f) 519-669-8331 info@elmiramachine.com www.wallypumps.com  See ad, page 63	Wallenstein 30		50 - 1,800	15	28"	35	20	4	Air	500 - 1,750			
	Wallenstein 151		50 - 1,800	80	28"	35	100	4	Air	500 - 1,750			
	Wallenstein 202		50 - 1,800	115	28"	35	160	3	Fan	500 - 1,200			
	Wallenstein 302		50 - 1,800	165	28"	35	185	3	Fan	500 - 1,200			
	Wallenstein 402		50 - 1,800	200	28"	35	200	3	Fan	500 - 1,200			
	Wallenstein 403		1,800 - 4,300	220	28"	35	245	3	Fan	500 - 1,200			
	Wallenstein 403LN		1,800 - 4,300	220	28.5"	35	245	3	Liquid	500 - 1,200			
	Wallenstein 553		1,800 - 4,300	275	28"	35	300	3	Fan	500 - 1,200			
	Wallenstein 753		1,800 - 4,300	350	28"	35	340	3	Fan	500 - 1,200			
	Wallenstein 753LN		1,800 - 4,300	350	28.5"	35	340	3	Liquid	500 - 1,200			
	Wallenstein 1054		3,200 - 10,000	500	28"	35	700	5	Fan	500 - 1,100			
	Wallenstein 1054LN		3,200 - 10,000	500	28.5"	35	750	5	Liquid	500 - 1,100			
	Wallenstein 1504LN		3,200 - 10,000	700	28.5"	35	750	3	Liquid	500 - 1,100			
	Wallenstein 1604		3,200 - 10,000	800	28"	35	1,200	5	Fan	500 - 1,100			
	Wallenstein 1604LN		3,200 - 10,000	800	28.5"	35	1,200	5	Liquid	500 - 1,100			
	Wallenstein 2106		3,200 - 10,000	1,000	28"	35	1,700	5	Fan	500 - 1,100			
Wallenstein 2106LN		3,200 - 10,000	1,000	28.5"	35	1,700	5	Liquid	500 - 1,100				

MANUFACTURER	PUMP	BLOWER	REC. TANK SIZE (GALLONS)	CFM	MAX. VACUUM (Hg)	MAX. PRESSURE (PSI)	NET WEIGHT (LBS)	NUM. OF VANES	AIR, FAN, LIQUID-COOLED or LIQUID RINGS	RPM RANGE	NUM. OF LOBES	HORSE-POWER (BHP)	PORT/ PIPING
 <p><b>Fruitland Manufacturing</b> 324 Leaside Ave. Stoney Creek, ON L8E 2N7 800-663-9003 • 905-662-6552 (f) 905-662-5412 sales@fruitland-mfg.com www.fruitlandmanufacturing.com</p> <p>See ad, page 45</p>	RCF 172		As Per Application	127	27"	30	128	4	Air	1,400		8	2"
	RCF 250		As Per Application	166	27"	30	255	4	Fan	1,400		13	2"
	RCF 344		As Per Application	218	27"	30	182	4	Air	1,400		14	2"
	RCF 370		As Per Application	272	28.5"	30	385	8	Fan	1,400		27	3"
	RCF 500		As Per Application	338	28.5"	30	450	8	Fan	1,400		33	3"
	RCF 870		As Per Application	501	28.5"	30	575	8	Fan/Air Injection	1,400		44	4"
	RCF 1200		As Per Application	716	28.5"	30	1,400	8	Fan	1,000		65	4"
	WR 2500		As Per Application	1,192	26"	22	385		Liquid Ring	1,600		155	6"
	WR 3100		As Per Application	1,506	26"	22	422		Liquid Ring	1,600		178	6"
	WR 4000		As Per Application	2,166	26"	14.5	657		Liquid Ring	1,300		218	6"
	W1600		As Per Application	942	27"	29	747	6	Liquid-Cooled/ Air Injection	1,500		120	4"
	W1300		As Per Application	765	27"	29	615	6	Liquid - Cooled/ Air Injection	1,500		91	4"
	W900		As Per Application	530	27"	29	485	6	Liquid - Cooled/ Air Injection	1,500		65	4"
		FB 2000		As Per Application	1,350	24	12	545		Air, Air Injection	3,300	3	80
<p><b>Howden Roots</b> 900 West Mount St. Connersville, IN 47331 800-55-ROOTS • 765-827-9200 765-827-9317 inquiries.USA@howden.com www.howdenroots.com</p> <p>See ad, page 14</p>		827 DVJ		5,775 (free air)	27" HgV		2,100			1,000 - 2,470	2	324.9	Inlet= 12" Jet= 12" Disch= 14"

MANUFACTURER	PUMP	BLOWER	REC. TANK SIZE (GALLONS)	CFM	MAX. VACUUM (Hg)	MAX. PRESSURE (PSI)	NET WEIGHT (LBS)	NUM. OF VANES	AIR, FAN, LIQUID-COOLED or LIQUID RINGS	RPM RANGE	NUM. OF LOBES	HORSE-POWER (BHP)	PORT/ PIPING
 <p><b>Masport Incorporated</b> 6801 Cornhusker Hwy. Lincoln, NE 68507 800-228-4510 • 402-466-8428 cs@masportpump.com www.masportpump.com See ad, page 36</p>	HYDRA		4,000	407	27"	30	467	6	Liquid	1,000 - 1,400			3"
	TITAN		4,000	407	27"	30	545	6	Fan	1,000 - 1,400			3"
	SIDEWINDER		4,000	407	27"	30	550	6	Fan	1,000 - 1,400			3"
	HXL400WV		4,000	400	27"	30	450	6	Liquid	1,000 - 1,250			3"
	VIPER		4,000	350	27"	30	400	4	Fan	1,100 - 1,250			3"
	HXL75WV		2,500	230	27"	30	260	4	Liquid	1,000 - 1,250			3"
	HXL75V		2,500	230	27"	25	230	4	Air	1,000 - 1,250			3"
	HXL4V		1,500	165	27"	15	167	4	Air	1,100 - 1,400			1 1/2"
	HXL3V		1,000	112	27"	15	110	4	Air	1,225 - 1,750			1 1/2"
	HXL2V		750	75	27"	15	96	4	Air	1,225 - 1,750			1 1/2"
 <p><b>NVE</b> National Vacuum Equipment <b>National Vacuum Equipment</b> 2707 Aero Park Dr. Traverse City, MI 49686 800-253-5500 • 231-941-0215 (f) 231-941-2354 sales@natvac.com www.natvac.com See ad, page 3</p>	304 Challenger		Application Specific	210	27"	30	179	4	Air	1,100 - 1,400		12.2	2"
	607 PRO Challenger Heavy-Duty		Application Specific	380	28"	30	390	7	Fan/Liquid	1,100 - 1,500		28	3"
	866 Challenger Heavy-Duty		Application Specific	520	27"	20	507	6	Fan/Liquid	800 - 1,150		38	4"
	887 Challenger Heavy-Duty		Application Specific	532	28"	30	620	7	Fan/Ballast Port Cooled	900 - 1,200		54	4"
	4307 Tri-Lobe		Application Specific	560	27"	15	421		Ballast Port Cooled	2,500 - 4,000	Tri Lobe	40.6	4"
	4310 Tri-Lobe		Application Specific	940	27"	15	456		Ballast Port Cooled	2,500 - 4,500	Helical	58	4"
	1600 Tri-Lobe		Application Specific	1,600	27"	15	532		Ballast Port Cooled	2,500 - 3,600	Helical	95	6"
	8250 Tri-Lobe		Application Specific	250	15"	15	241		Air Cooled	1,800 - 2,600	Tri Lobe	20	2"
	8500 Tri-Lobe		Application Specific	431	24"	15	370		Ballast Port Cooled	2,200 - 2,600	Tri Lobe	30	3"
 <p><b>Presvac Systems</b> 4131 Morris Dr. Burlington, ON L7L 5L5 800-387-7763 • 905-637-2353 (f) 905-681-0411 sales@presvac.com www.presvac.com See ad, page 80</p>	PV 750		1,000 - 6,000		27"	35	450	8	Fan/ Ballast Port Cooled	1,500			



MANUFACTURER	PUMP	BLOWER	REC. TANK SIZE (GALLONS)	CFM	MAX. VACUUM (Hg)	MAX. PRESSURE (PSI)	NET WEIGHT (LBS)	NUM. OF VANES	AIR, FAN, LIQUID-COOLED or LIQUID RINGS	RPM RANGE	NUM. OF LOBES	HORSE-POWER (BHP)	PORT/PIPING
 <b>Westmoor Ltd.</b> 906 W Hamilton Ave. Sherrill, NY 13461 800-367-0972 • 315-363-1500 (f) 315-363-0193 pumps@westmoorltd.com www.westmoorltd.com  See ad, page 65	Conde Super 6		300 - 500		28"	20	80	3	Air	1,200 - 1,750			
	Conde SDS 6		500 - 1,000		28"	20	100	4	Air	1,100 - 1,500			
	Conde SDS 12		1,000 - 2,000		28"	20	150	4	Air	1,100 - 1,500			
	Conde SDS Ultra		1,200 - 2,500		28"	20	160	8	Air	1,100 - 1,500			
	Conde ProVac3		50 - 300		28"	20	45	4	Air	1,100 - 1,750			



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DEALERS/DISTRIBUTORS		BLOWERS & VACUUM PUMP LINES
 See ad, page 4	<b>27th Trucks, Inc.</b> 1175 and 1185 E 25th St., Hialeah, FL 33013 786-908-5436 • (f) 305-835-9040 info@27th-trucks.com • www.27th-trucks.com	Masport
 See ad, page 28	<b>A.R. North America</b> 140 81st Ave. NE, Fridley, MN 55432 763-398-2008 • (f) 763-398-2009 thomasc@arnorthamerica.com • www.arnorthamerica.com	Battioni
See ad, page 3 Eastern & Midwest Supplement	<b>Advance Pump &amp; Equipment</b> 15418 Old Hwy. Rd., Peosta, IA 52068 563-557-0957 • (f) 563-557-0961 Randy@advancepump.com • www.advancepump.com	Battioni, Conde, Fruitland, Gardner Denver, Jurop, Masport, National Vacuum Equipment, Robuschi, Roots
See ad, page 2 Eastern Supplement	<b>Andert, Inc.</b> 39 Route 244, Eastford, CT 06242 860-974-3893 • (f) 860-974-2145 andertinc@gmail.com	Fruitland, Gardner Denver, Masport, National Vacuum Equipment
 See ad, page 77	<b>Davidson Tank</b> 3223 Brittan St., Bakersfield, CA 93308 661-325-2145 • (f) 661-325-2147 rob@davidsontank.com • www.davidsontank.com	Gardner Denver, Masport, National Vacuum Equipment
See ad, page 47	<b>Engine &amp; Accessory, Inc</b> 12201 NW 30th Pl., Miami, FL 33167 800-327-5431 • 305-573-2268 • (f) 305-576-4617 rcs@rampstar.com • www.LiquidTruckSolutions.com	Fruitland, Hibon, Jurop, Masport, National Vacuum Equipment
See ad, page 27	<b>GapVax, Inc.</b> 575 Central Ave., Johnstown, PA 15902 888-442-7829 • 814-535-6766 • (f) 814-539-3617 kdoyka@gapvax.com • www.gapvax.com	Fruitland, Hibon
 See ad, page 79	<b>Imperial Industries, Inc.</b> 550 W Industrial Park Ave., Rothschild, WI 54474 800-558-2945 • 715-359-0200 info@imperialind.com • www.imperialind.com	Conde, Fruitland, Gardner Denver, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 25	<b>ITI Trailers &amp; Truck Bodies, Inc.</b> 8535 Mason Dixon Hwy., Meyersdale, PA 15552 888-634-0080 • 814-634-0080 • (f) 814-634-5846 llottig@itimfg.com • www.itimfg.com	National Vacuum Equipment
See ad, page 57	<b>KeeVac Industries</b> 7717 West 6th Ave., Lakewood, CO 80214 866-789-9440 info@keevac.com • www.keevac.com	Conde, Fruitland, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 1 Eastern & Midwest Supplement	<b>Lincoln Center Manufacturing, LLC/Marengo Fabricated Steel</b> 2896 OH-61, Fulton, OH 43321 800-919-2652 • (f) 419-253-2120 www.lcmohio.com	Masport, Moro, Wallenstein
See ad, page 48	<b>Marsh Industrial</b> 135 E Mile Rd., Kalkaska, MI 49646 800-952-1537 • 231-258-4870 • (f) 231-258-2019 sales@marshind.com • www.marshind.com	Battioni, Conde, Giant, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 14	<b>Milwaukee Rubber Products, Inc.</b> N52 W13319 Falls Creek Ct., Menomonee Falls, WI 53051 800-325-3730 • 262-781-7888 • (f) 262-781-1742 sales@milwaukeeerubber.com • www.milwaukeeerubber.com	Battioni, Jurop, Masport, Moro, National Vacuum Equipment

**DEALERS/DISTRIBUTORS**

**BLOWERS & VACUUM PUMP LINES**

 See ad, page 33	<b>Pik Rite, Inc.</b> 60 Pik Rite Ln., Lewisburg, PA 17837 800-326-9763 • 570-523-8174 • (f) 570-523-8175 sales@pikrite.com • www.pikrite.com	Conde, Fruitland, Jurop, Masport, Moro, National Vacuum Equipment, Wallenstein
See ad, page 44	<b>PortaLogix</b> 6107 Loomis Rd., Farmington, NY 14425 585-484-7009 sales@portalogix.com • www.portalogix.com	Fruitland, Masport, National Vacuum Equipment
See ad, page 54	<b>Pressure Lift Corporation</b> 4130 Buckthorn Ct., Flower Mound, TX 75028 866-504-6596 • 972-355-0550 debi@pressurelift.com • www.pressurelift.com	Masport
See ad, page 3 Eastern & Midwest Supplement	<b>R.A. Ross NE, Inc.</b> 10280 Brecksville Rd., Brecksville, OH 44141 800-678-4581 • 440-546-1190 • (f) 440-546-1188 jeremy@rarossne.com • www.rarossne.com	Battioni, Conde, Dresser Roots, Fruitland, Gardner Denver, Hibon, Jurop, Masport, Moro, National Vacuum Equipment, Robuschi, Tuthill
See ad, page 2 Midwest Supplement	<b>Rider Agri Sales &amp; Service, Inc.</b> 7716 Greenville Celina Rd., Greenville, OH 45331 800-521-1338 • 937-548-2080 • (f) 937-547-0818 jl rider@embarqmail.com • www.rideragrisales.com	Jurop, National Vacuum Equipment
See ad, page 53	<b>Robinson Vacuum Tanks</b> 306 Runville Rd., Bellefonte, PA 16823 844-393-1871 • 814-933-0927 • (f) 844-857-0741 info@robinsontanks.com • www.robinsontanks.com	Conde, Fruitland, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 69	<b>Specialty B Sales</b> 2100 Booth St., Searcy, AR 72143 800-364-7307 • 501-279-0001 • (f) 501-279-0003 rstevens@cdlworld.net	Battioni, Fruitland, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 36	<b>Tank World Corp</b> 12001 W Peoria Ave., El Mirage, AZ 85335 623-536-1199 • (f) 623-935-4782 service@tankworldaz.com • www.tankworldaz.com	Conde, Fruitland, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 18	<b>TankTec</b> 10100 Quinn St. NW, Minneapolis, MN 55433 888-428-6422 • 763-755-8075 • (f) 763-757-9788 snelson@tanktec.biz • www.tanktec.biz	Conde, Masport, National Vacuum Equipment
See ad, page 23	<b>Transport Truck Sales, Inc.</b> 6740 Kaw Dr., Kansas City, KS 66111 888-395-7551 • 913-334-2400 • (f) 913-334-4576 scott@transporttruck.com • www.transporttruck.com	Fruitland, Jurop, Masport, Moro, National Vacuum Equipment, Wallenstein
See ad, page 61	<b>TSI Tank Services, Inc.</b> 70 Benson St., Fitchburg, MA 01420 866-720-4999 • 401-688-0043 • (f) 401-383-7462 jerry@tankservicesinc.com • www.tankservicesinc.com	Masport, National Vacuum Equipment
See ad, page 63	<b>VacutruX Limited</b> 20 Martins Ln., Elmira, ON N3B 2A1 800-403-4305 • 519-669-1625 • (f) 519-669-8331 info@vacutruX.com • www.vacutruX.com	Wallenstein
 See ad, page 33 Eastern Supplement, page 2	<b>Vacuum Sales, Inc.</b> 51 Stone Rd., Lindenwold, NJ 08021 800-547-7790 • 856-627-7790 • (f) 856-627-3044 parts@vacuumsalesinc.com • www.vacuumsalesinc.com	Fruitland, Jurop, Masport, Moro, National Vacuum Equipment, Presvac, Robuschi, Roots, Wittig
 See ad, page 19	<b>VARCO.</b> 7489 Mason King Ct., Manassas, VA 20109 866-872-1224 • 703-334-5980 • (f) 703-334-5979 sales@varcopumper.com • www.varcopumper.com	Battioni, Conde, Jurop, Masport, Moro, National Vacuum Equipment
See ad, page 67	<b>Wee Engineer, Inc.</b> PO Box 39, Dayton, IN 47941 877-296-2555 • (f) 765-296-3027 weesales@wee-engineer.com • www.wee-engineer.com	Masport, National Vacuum Equipment



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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).

# Pumping Should Be Required for Thorough System Inspections

When a local municipality moves to eliminate mandatory pumpouts for lake home onsite inspections, the Answer Man steps in with solid advice

By Jim Anderson, Ph.D.

About a year ago I wrote about troubleshooting some problems with system backups and mentioned it was important to periodically inspect and pump out septic tanks to prevent problems in the future. This prompted a comment from a reader, a leader of a lake association, that highlighted the group in a process of inspecting all systems near the lake looking for malfunctioning or failing systems.

The program included a mandatory, concurrent pumpout during the inspection. The reader stated, "We, like you, believe that this is the best approach for detection of improperly functioning septic systems. Our local municipal council, with advice from the chief building inspector, has recommended to drop the mandatory pumpout concurrent with the inspection for the remainder of the program. Strangely, a pumpout is required, but not at the time of the inspection. There has been no adequate rationale provided to date for this recommendation."

This is apparently a one-time, across the board program to identify systems that need fixing or replacement. As I have explained in the past, this is one approach to inspections. Others are compliance inspections (the inspection referred to could be a compliance inspection as well) to make sure all system components are up to date; inspections at time of installation to make sure everything is up to current regulations; and inspections at time of real estate sales. While the purposes of these inspections are somewhat different, the actual inspection activities should not be different.

Any inspection of an operating system should involve opening the tank observing the contents, evaluating structural soundness, watertightness, condition of the inlet and outlet baffles along with the piping in and out of the tank.

## STRUCTURAL INTEGRITY

If the tank is operating as it should, there will be three distinct levels observed. There are floatable solids (scum); a relatively clear zone where effluent is drawn through the outlet baffle and sent to the next treatment component; a sludge layer of settleable solids. If there are not three layers, the reason why should be determined and corrected to prevent solids from plugging the outlet or moving out of the tank.

▶ An inspection to evaluate how well all the systems around the lake are working requires pumping out the tank. Without removing the tank's contents, structural integrity cannot be assured.

As an aside, many states and municipalities have requirements to evaluate sludge and scum accumulations periodically, and when they reach 25% to 30% of settleable area, pumping the tank is required. My town requires inspection every three years and a mandatory pump every six years regardless of the levels. As for me, I always have them pump the tank regardless; I look at it as my own little insurance policy to prevent problems down the road.

Structural soundness and watertightness can best be determined by pumping the tank. Before pumping, the liquid level should be observed. It should be at the invert of the outlet. If it is below, it means effluent is escaping the tank through cracks or holes. If the liquid level is above the invert, some type of blockage is occurring. The interior of the tank should be inspected for any deterioration, such as pitting or spalling of the concrete and any other cracks or holes. All tanks — no matter the material — should be investigated for the presence of roots, which indicate the presence of cracks or problems with the joints present in the tank.

## INSPECTION DETAILS

Baffles and screens in the tank should be evaluated. There should be baffles at both the inlet and the outlet, contrary to other comments I receive from time to time. The inlet baffle directs the flow down into the tank, preventing short-circuiting of effluent directly to the outlet. This provides the settling time for the larger solids. For this reason, sludge depth should be



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thickest under the inlet baffle. The bottom of the outlet baffle should be in the clear water zone of the tank.

Baffles should be evaluated for proper position, secured well to the piping or tank wall, clear of solids and not deteriorating. If there is evidence of corrosion, particularly at the outlet, the tank should be tested for proper venting to keep corrosive gases from accumulating. The piping into and out of the tank should be inspected to see that it is not cocked at an angle due to tank or piping settling. If the piping in either location is not correctly seated, blockages can occur, causing backups.

Septic tanks now usually have effluent screens at the outlet. They should be removed, cleaned, evaluated for any cracks or irregularities and replaced if necessary. An important note — the effluent screen should not

be removed for inspection until the tank has been pumped at least below the outlet baffle to prevent solids from moving out of the tank.

Specific to the reader's comments, an inspection to evaluate how well all the systems around the lake are working requires pumping out the tank. Without removing the tank's contents, structural integrity cannot be assured and critical information about whether the system may experience problems in the drainfield or in the future will be lacking.

If baffles are out of place or at risk of deterioration, these problems can be fixed before they cause problems in the drainfield due to plugging and surfacing effluent or backups into the house. This type of community-wide inspection program is an opportunity to set all the systems up in the area for long-term trouble-free operation. **P**

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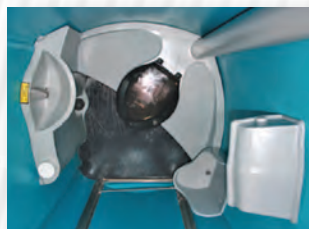
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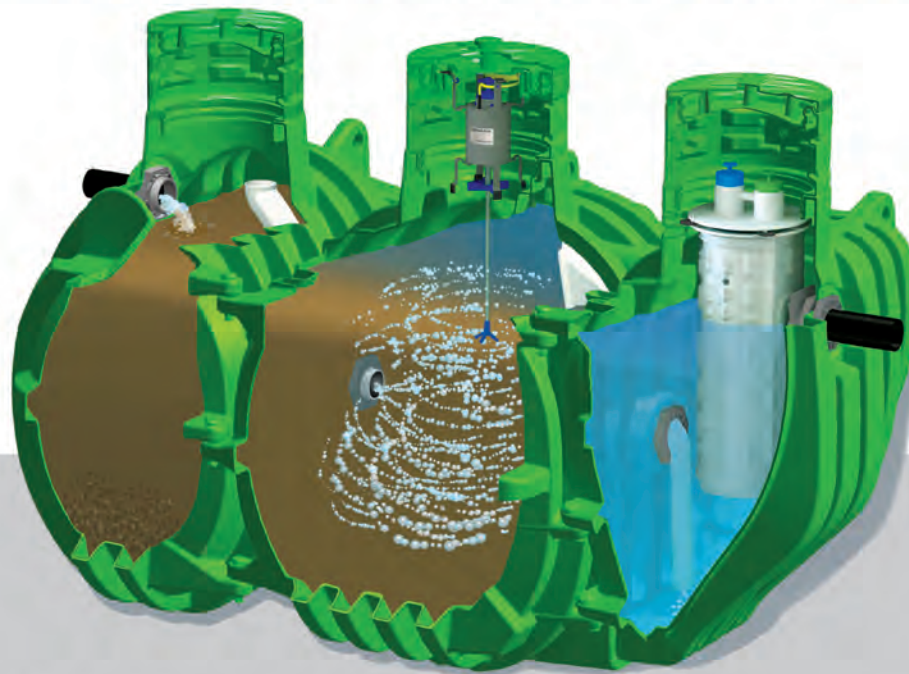
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Jill Johnson is a speaker, author and the president and founder of Johnson Consulting Services. Reach her at [www.jcs-usa.com](http://www.jcs-usa.com).

# “Big Data” Is Not Just Helpful for Big Companies

Even mom and pop wastewater businesses can benefit from focusing on the trends of a few important metrics to raise the bottom line

By Jill J. Johnson

**B**ig Data is critical to business success because it provides important insights and information. Large enterprises use sophisticated systems to track data and often have internal analysts on their team to crunch their numbers. Or they hire outside experts to do it for them. Yet any enterprise can take advantage of Big Data, no matter their size, especially if you reframe your definition of “big.” You can use your data to better understand customer needs and buying patterns to further develop strategies that could impact sales. Insights like those developed using data become amazingly useful to any company, no matter how small.

## Don't Be Afraid of Analytics

You've heard some people say, “I'm really not a numbers person.” Perhaps they use this as their excuse for avoiding data, much less Big Data, because they might feel reluctant to dive in and give it a try. You do not need an MBA or finance degree to begin working with the data associated with your business. Anyone can learn and understand at least a couple of the key metrics that impact how businesses operate and what drives financial success.

If you are reluctant to launch into data analytics, begin with baby steps. Start by identifying two or three key metrics you want to better understand about your business or your customers. Once you have these key metrics identified, focus on getting the data you need to better understand how you can increase your company's performance. Those metrics become the fundamentals that shape your thinking about strategies and actions to better achieve your business goals.

Focus on how the data — what you have or what you can gather — links to your business strategies. The key is to search for the critical data metrics that influence decision-making. Look for the information that provides you with insight on the variables that impact your revenue and profitability.

## Use Your Tools

You do not need a complicated computer system or major data management firm to figure out what you are already using in your business for data capture. Frankly, many small businesses are not fully utilizing the existing software they have to gather basic information.

➤ Once the data is put into an analytic format, you can do all sorts of evaluations based on key variables such as customer demographics, profitability, geographic location, purchasing patterns and buying volume.

Frequently, software programs have the capability to export information into analytical programs such as Excel. Once the data is put into an analytic format, you can do all sorts of evaluations based on variables such as customer demographics, profitability, geographic location, purchasing patterns, buying volume, etc. Reviewing data points for various time horizons provides a comparison to see how much is changing during different time periods.

Engaging in analytical assessments of your data often provides valuable information on shifts in your target market and identifies new sales opportunities. You might even uncover areas of business vulnerability before they cause major challenges.

Many companies do not fully access the information they have already obtained about their customers. Taking time to input detailed information into a contact relationship management (CRM) system can be a first step. Consolidate the insight from your other information systems to develop a comprehensive customer profile. Then drill down into the information on your customers and tie them to financial measurements such as sales volume, degree of profitability or key target marketing variables.

It is not uncommon for small businesses to have their most valuable customer information written down on sheets of paper or in someone's head. If you enter your data into a CRM or Excel, you establish the foundation for a more robust data assessment. Then you can begin to pull insights by looking carefully at key variables.

*(continued)*



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## BUILDING THE BUSINESS

You will have a more effective way of targeting your desired consumers as you drill down deeper into the data to see which customers are most valuable to your business. You will be able to make better decisions if you are using thoughtfully mined data. When you get the data organized, you also minimize the vulnerability to losing important information if a key employee becomes ill or leaves.

### Metrics and Dashboards

When you begin working with data, it is essential to create metrics and dashboard reports focusing on the valuable information so it can be tracked on an ongoing basis. Then set up the mechanisms and policies that ensure it is tracked by your employees. Holding your team accountable for reliably gathering the data and tracking it in a timely manner is also an important step to effectively use data.

You can certainly do some of this work yourself, but it might be even better for you to loop in key employees who may be better skilled than you at putting it together. Then you can review the information and draw conclusions.

Another option is to work with an outside consultant who is not going to struggle with a learning curve. Outside experts can help you discover details you might have overlooked while managing the company day to day. You are likely to gain better insights — and move much faster — by bringing in outside expertise for a short duration rather than trying to struggle through setting it up by yourself. Invest in learning from an expert and then take over once you develop the foundational skills and gain confidence in your own abilities.

### Final Thoughts

Learning to leverage data is essential in cultivating the growth and success of any business. As you become more comfortable using your initial metrics, you can add on additional key metrics. Use a disciplined approach and continue to look for more metrics to measure. Have fun with it! You will soon have a robust data management system that you and your team can use to more effectively manage the business and customer relationships. This will provide you with new pathways for business growth and enhanced success. **P**

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# An Aging Workforce Remains Our Biggest Challenge

A Wisconsin wastewater pro echoes a common industry theme:  
We need enthusiastic young people entering the field



In States 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 Wisconsin Onsite Water Recycling Association.



▲ Todd Stair

## Name and title or job description:

Todd Stair, vice president. I wear all hats — master plumber restricted, soil tester, septage operator, customer contact, bidding, some design work, some soil testing, training, safety.

## Business name and location:

Herr Construction (fourth generation in the industry), Oconomowoc, Wisconsin, in the “Lake Country” area of the southeastern part of the state

## Services we offer:

Soil testing, septic system installs, sewer and water work, sewer camera, sewer sectional lining, excavating, drainage, stormwater systems, trucking and excavating.

**Age:** 58

**Years in the industry:** 32

**Association involvement:** I have been on the Wisconsin Onsite Water Recycling Association (WOWRA) board of directors most years since the mid-1990s. I was president from 1997 to 2001 and was again recently voted in as president.

**Benefits of belonging to the association:** Benefits include having legislative representation, staying at the forefront of laws affecting our industry, education and continuing education hours, the annual conference with lots of great classes, other training throughout the year, and networking to learn from colleagues and regulators.

**Biggest issue facing your association right now:** The graying of the industry. Membership numbers are low. Where’s the next generation?

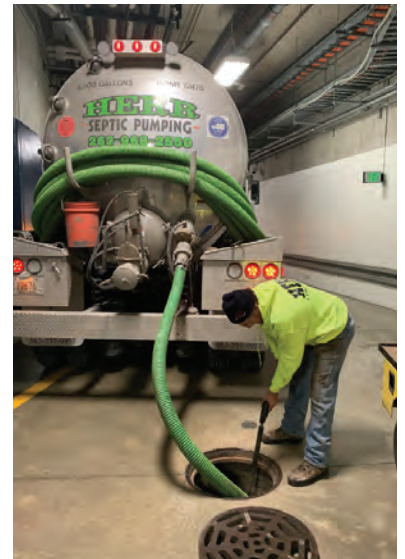
**Our crew includes:** We have amazing people, starting with my wife, Peg Stair, and Kelly Reese in the office. Ann Cataldo is lead soil tester and a master plumber. Jeff Reese and Ben Hilmer are crew leads. Mike Esguerra and Chris Brezinski are pumpers, have their plumber learner cards and drive the dump truck. Jason Strankowski, Jeff Christensen, Jeremy Wagie, Nate Strankowski and Dakota Wirth round out the crew.

And Mark Ridgman, our mechanic, keeps everything running. We strive for everyone to have as many licenses as we can help them achieve — plumbing, soil testing, pumping, well pump installation, commercial drivers’ licenses.

**Typical day on the job:** Although no day is typical, mine usually includes getting crews prepped in the morning, helping to get the day’s initial schedule complete (and it changes frequently), meeting with potential customers, bidding jobs. I perform soil tests when needed, help out on crews when short-handed and, when the schedule dictates, I do some of our sewer camera work.

**The job I’ll never forget:** We installed a replacement private on-site wastewater treatment in-ground system for a national TV show called Extreme Home Makeover. The first thing that stuck out is that the streets were lined with people waiting for the show to start filming — and the first thing that came down the street was our pump truck, as we had to pump and abandon the existing septic system. Crowds on both sides of the street cheered. I’ve never seen hundreds of people cheer a pump truck before. Then there were storms and tornado warnings and we had to remain on standby. When we finally got the okay to install the septic system it was 10:30 p.m. We installed the system under artificial lighting and had to wake up the inspector in the middle of the night. He was very understanding about it.

**My favorite piece of equipment:** While the excavators are extremely important in our industry, I’d have to say my favorite tool is the sewer camera (RIDGID). It’s such a versatile tool and we’re using it more and more. To be able to both visually see a sewer problem and accurately locate it is something previous generations could not do as efficiently.

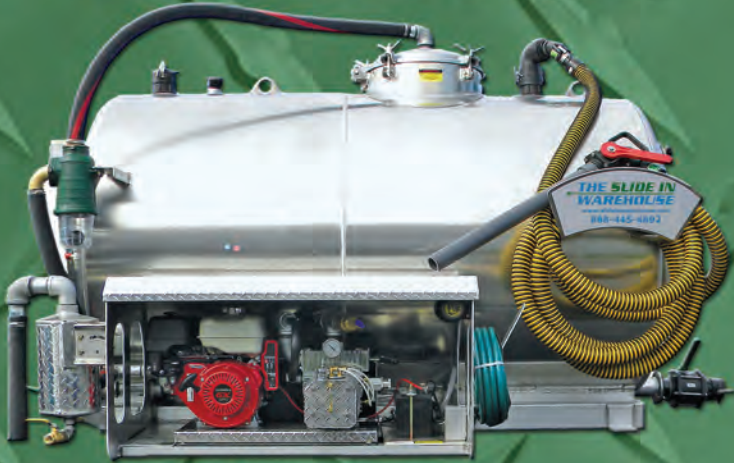


▲ A former employee pumps inside the Milwaukee Brewers stadium, American Family Field.

(continued)



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▲ Ann Cataldo, lead soil tester and master plumber, doing soil testing using a Takeuchi TB045.

**Most challenging site I've worked on:** We did a job far up on a wooded knob of a site that was a straight drop-off on three sides. We did the septic prior to basement excavation. Every grain of soil had to be hauled offsite. Of course they waited for the middle of winter to begin the project. We had dump trucks driving down very dangerous wooded roads in pure ice conditions.

**Oops, I wish I could take this one back:** We learned the hard way not to base a bid on information someone else gives us. We're currently working on a project where we trusted the information a municipality provided and are now digging ourselves out of a lose-lose situation. A little tiny honey-do turned into three days of digging up someone's yard. Moral of the story — do your own due diligence or risk losing money.

**The craziest question I've been asked by a customer:** "How many holes should I shoot through the 55-gallon drum I'm installing as my septic system for my hunting cabin up north?"

**If I could change one industry regulation, it would be:** I'd like to see more uniformity. It's frustrating when one municipality requires something different than another.

**Best piece of small business advice I've heard:** Rich Herr, owner of our company at the time he hired me in 1989 said, "Any work you do, do it as you would want it done at your own home. Think every job is your own house, do excellent work and don't skimp on any facet of what you are doing." Everyone at our company lives that advice on every job.

**If I wasn't working in the wastewater industry, I would:** I love astronomy, science and wastewater treatment so it would probably be something in the field of science.

**Crystal ball time – This is my outlook for the wastewater industry:** I am hopeful the younger generation steps up with as much passion for what we do as we have. I hope they keep improving POWTS treatment and protection of groundwater in ways we haven't even imagined. And, thirdly, I sincerely hope our industry changes the paradigm of water use and guides our nation to understand the importance of stormwater as a resource for nonpotable purposes, as we work every day with the tools to make that happen. **P**

- Compiled by Betty Dageforde



▼ Ben Hilmer, Herr Construction crew lead, installing an Eljen system.

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www.gsdiia.org; 603-228-1231

## New Mexico

Professional Onsite Wastewater Reuse Association of New Mexico  
www.powranm.org; 505-989-7676

## New York

Long Island Liquid Waste Association, Inc.  
www.lilwa.org; 631-585-0448

## North Carolina

North Carolina Septic Tank Association  
www.ncsta.net; 336-416-3564

## Ohio

Ohio Onsite Wastewater Association  
www.ohioonsite.org; 740-828-3000

## Oregon

Oregon Onsite Wastewater Association  
www.o2wa.org; 541-389-6692

## Pennsylvania

Pennsylvania Association of Sewage Enforcement Officers  
www.pa-seo.org; 717-761-8648

Pennsylvania Onsite Wastewater Recycling Association  
www.powra.org

Pennsylvania Septage Management Association  
www.psma.net; 717-763-7762

## Tennessee

Tennessee Onsite Wastewater Association  
www.tnonsite.org.

## Texas

Texas On-Site Wastewater Association  
www.txowa.org; 409-718-0645

Education 4 Onsite Wastewater Management  
www.e4owm.com; 713-774-6694

## Virginia

Virginia Onsite Wastewater Recycling Association  
www.vowra.org; 540-377-9830

## Washington

Washington On-Site Sewage Association  
www.wossa.org; 253-770-6594

## Wisconsin

Wisconsin Onsite Water Recycling Association  
www.wowra.com; 888-782-6815

Wisconsin Liquid Waste Carriers Association  
www.wlwa.com; 888-782-6815

## NATIONAL

Water Environment Federation  
www.wef.org; 800-666-0206

National Onsite Wastewater Recycling Association  
www.nowra.org; 978-496-1800

National Association of Wastewater Technicians  
www.nawt.org; 800-236-6298

## CANADA

### Alberta

Alberta Onsite Wastewater Management Association  
www.aowma.com; 877-489-7471

### British Columbia

WCOWMA Onsite Wastewater Management of B.C.  
www.wcowma-bc.com  
877-489-7471

British Columbia Onsite Sewage Association  
www.bcossa.org; 778-432-2120

### Manitoba

Manitoba Onsite Wastewater Management Association  
www.mowma.org; 877-489-7471

Onsite Wastewater Systems Installers of Manitoba, Inc.  
www.owsim.com; 204-771-0455

### New Brunswick

New Brunswick Association of Onsite Wastewater Professionals  
www.nbaowp.ca; 506-455-5477

### Nova Scotia

Waste Water Nova Scotia  
www.wwns.ca; 902-246-2131

### Ontario

Ontario Onsite Wastewater Association  
www.oowa.org; 855-905-6692

Ontario Association of Sewage Industry Services  
www.oasisonario.on.ca  
877-202-0082

### Saskatchewan

Saskatchewan Onsite Wastewater Management Association  
www.sowma.ca; 877-489-7471

### Canadian Regional

Western Canada Onsite Wastewater Management Association  
www.wcowma.com; 877-489-7471



**2020 Chevy 5500** | 4 x 4, diesel 1500 RVT, NVE 304 engine package.



**2018 9000 Gallon Tandem Trailer** | 93,000 GVWR transport (aluminum tank insulated stainless steel wrapped) 6" discharge



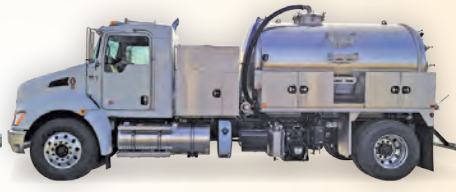
**2020 T880 KW Ultra-Shift** | 485HP, 20/20/46 ready for a tank (4) in stock



**2021 Kenworth T880** | 20/20/46, Ultra-Shift, NVE 4310, CAT660 jetter package, LED lights, LED strobes, 4-camera package, NAV system, alum. tank



**2021 Peterbilt 348** | 20/40, 3600 gallon PR aluminum tank, NVE 887 ProMax package



**2021 T370 Kenworth GREASE TRUCK** | 300HP, Allison Auto, 33,000 G.V.W.R) 1800 gallon stainless steel (ITI) tank, NVE 607 ProMax package, heat collars (heat through tank), heated cabinet for ProVac unit w/hydraulic lift, Hannay hose reel w/100' 2" hose in heated cabinet.



**2021 Kenworth T880** | 20/20/46, Ultra-Shift, NVE 4310, CAT660 jetter package, LED lights, LED strobes, 4-camera package, NAV system, alum. tank



**2021 Peterbilt 348** | 20/40, 3600 gallon PR aluminum tank, NVE 887 ProMax package



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## Upcoming Training & Events

### Inspector Training

#### UA/NAWT Inspection Training Course

August 26-27, 2021

Location: Maricopa, AZ  
Contact: Aaron Tevik - 520-621-3691  
atevik@arizona.edu

#### NAWT Inspector by RETS

November 12-13, 2021

Location: Arlington, TX  
La Quinta Inn & Suites  
Contact: Lauren Trujillo rets@rets-llc.com

### Soils Workshop

#### CPOW Soil & Site Evaluation

August TBD, 2021

Location: Western Slope  
Contact: Lisa Nicoll cpow@cpow.net

#### CPOW Soil & Site Evaluation

September TBD, 2021

Location: Front Slope  
Contact: Lisa Nicoll cpow@cpow.net

#### UA Soil & Site Evaluation for Onsite Wastewater Systems

October 20-22, 2021

Location: Maricopa, AZ  
Contact: Aaron Tevik - 520-621-3691  
atevik@arizona.edu

### Septic System Design

#### CPOW Design

July 12 & 13, 2021

Location: Virtual Online Course  
Contact: Lisa Nicoll cpow@cpow.net

#### UA Introduction to Design of Onsite Wastewater Systems

October 25, 2021

Location: Maricopa, AZ  
Contact: Aaron Tevik - 520-621-3691  
atevik@arizona.edu

#### UA Advanced Design of Onsite Wastewater Systems

October 26, 2021

Location: Maricopa, AZ  
Contact: Aaron Tevik - 520-621-3691  
atevik@arizona.edu

### Installer Training

#### NAWT Installer by CPOW

September 6, 2021

Location: Virtual Online Course  
Contact: Lisa Nicoll cpow@cpow.net

### Upcoming Events

#### 2021 Mega-Conference

October 17-20, 2021

San Marcos, Texas

Online NAWT DOT CDL Pre and Post Trip Inspection Course

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## INDUSTRY NEWS

### Vacuum Truck Rentals named authorized service center

Vacuum Truck Rentals (VTR) has partnered with GapVax and Kaiser Premier and is now an authorized warranty and service center for both manufacturers. As an authorized warranty and service center, VTR's 16 locations will provide service, repair and warranty work for GapVax and Kaiser Premier equipment.

### Wieser Concrete acquires Minnesota Precast Industries

Wieser Concrete acquired Minnesota Precast Industries, based in Rosemount, Minnesota. The staff will remain at the Rosemount plant, joined by Kenny Lien from Wieser's Maiden Rock plant to assist in production and deliveries.

### GapVax welcomes new team members

Brad Renzelmann and Gap Barbin joined the GapVax team. Renzelmann will serve Minnesota, Wisconsin and Illinois for municipal and industrial sales. Barbin handles industrial and municipal sales for Nebraska, Kansas, Iowa, Missouri, North and South Dakota. GapVax also announced a new authorized dealer, JWR Inc., which will serve Wisconsin and Northern Illinois with GapVax sales, service and parts.

### NOWRA launches new website, announces conference dates

The National Onsite Wastewater Recycling Association (NOWRA) launched a newly designed, mobile-friendly website that includes industry information, education and tools for members and state affiliated organizations. Other features of [www.nowra.org](http://www.nowra.org) include an enhanced septic locator to search for septic professionals and coverage of the latest advocacy efforts in Washington, D.C., and with regulatory agencies.

NOWRA also announced that the 2021 Onsite Wastewater Mega-Conference will be held Oct. 17-20 in San Marcos, Texas. The conference is a collaboration involving NOWRA, the National Association of Wastewater Technicians, the State Onsite Regulators Association and the Texas Onsite Wastewater Association. The conference theme this year is Essential Work in the Lone Star State.

### Nolan Link appointed J&J national trailer sales manager

J&J Truck Bodies and Trailers, a division of Somerset Welding and Steel, appointed Nolan Link as its national trailer sales manager. Link has sales experience in Virginia, where he worked for a company responsible for waste disposal, trash collection and recycling services. **P**



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# Blowers and Vacuum Pumps

By Craig Mandli

## POSITIVE DISPLACEMENT BLOWERS



### Howden 827 DVJ

The **827 DVJ** dry-vacuum blower from **Howden** is a heavy-duty unit with integral ductile iron impellers. The casing headplates, gear cover and drive-end are gray iron. Carburized and ground spur timing gears are taper-mounted on the shaft and secured with a locknut, cylindrical roller bearings, splash lubrication on both

ends and easy-to-read sight glasses for maintenance. The blower is capable of handling high inlet temperatures for rough applications. An efficient discharge jet plenum design allows cool atmospheric air to flow into the cylinder so the blower continues to run under blank-off conditions. It comes in a compact, lightweight package and delivers more than 5,700 cfm in an 8-inch gear diameter frame, as well as 28 inches Hg. **800-557-6687; www.howden.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 significantly 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.**



## VACUUM PUMPS



### 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 provide cost savings and reduce environmental impact. Locally sourced, non-proprietary oil may be used.

The pump delivers 510 cfm (free air) through 4-inch porting. **905-662-6552; www.fruitlandmanufacturing.com.**

### Masport Titan

The **Titan** vacuum/pressure pump from **Masport** has a washable stainless steel inlet filter for long filter life, integral mounting bosses for alignment with the gearbox and hydraulic mount, an automatic adjustment-free mechanical oil pump and heat-stabilized Kevlar vanes machined to exacting tolerances. It can achieve a minimum of 407 cfm at 27 inches Hg and is fan-cooled for higher



continuous vacuum operations. It has heavy-duty bearings, Viton oil seals, vane-wear inspection ports and durable translucent high-temperature oil lines that allow visible flow of oil to the pump. End thrust protection prevents rotor-to-end-cover contact created by direct PTO drive or misaligned belt-driven systems. It comes with 3-inch NPT bolt-on valve flanges for ease of installation, a 1/4-inch NPT vane flush port, integral vacuum relief valve, an integral valve that allows the pump to operate in vacuum and pressure mode, reducing plumbing and installation costs, and O-ring end covers that eliminate air or oil leakages. **800-228-4510; www.masportpump.com.**

### 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. 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 for superior pump life and is available in clockwise and counterclockwise rotations. **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, according to the maker. 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.**







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**PRODUCT FOCUS**



**Satellite Vacuum Trucks Conde' 6SS**

The **Conde' 6SS** vacuum/pressure pump, distributed by **Satellite Vacuum Trucks** offers 5.5 hp with a pulley drive, suitable for portable restroom slide-in units. Available in Honda gas engines in direct drive or pulley drive models, this vacuum is easy to install. Diamond plate bases and belt guards ensure great look and wear life. It can be easily transferred between vehicles if needed. It has a rigid

assembly for minimum vibration and maximum power, sealed bearings that require less maintenance, a wide range of CFM sizes to match needs, and direct drive models have a centrifugal clutch for no-load start-up and idle. **800-883-1123; www.satellitetruckexpress.com.**

**Wallenstein Vacuum 753 Series**

The **753 Series** vacuum pump from **Wallenstein Vacuum** incorporates wide vanes that allow up to an inch of wear, designed for longer service life. It provides 422 cfm airflow at 1,200 rpm and is precision-machined for 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 Conde' PowerPaks**



**Westmoor Conde' PowerPaks** are preassembled, gasoline or diesel-powered vacuum pump units. They are easy to install and include a heavy-duty steel base with aluminum diamond plate trim and belt guard. Rigid assembly ensures 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. P**

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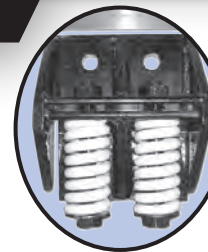
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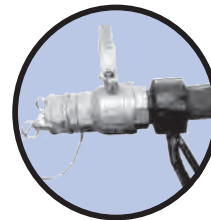
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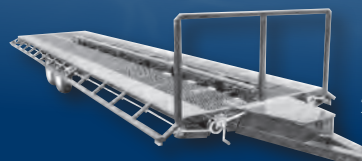
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By Tim Dobbins

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“We spent the early years talking to customers about needing a CDL license to operate the larger trucks,” says Jessica Smith, marketing director for KeeVac Industries. “After researching state laws and regulations, we worked with our engineering and development team to find a solution that would work for them.”

The KV999 portable restroom tank was designed to offer capacity, but maintain a small and maneuverable footprint, all in a product that doesn’t require the endorsement. “Drivers and operators do not always have a CDL license, thus rendering many trucks unusable,” Smith says. “This tank allows drivers to stay under the requirement for most states so they don’t need a CDL.”

The tank is available in steel, stainless steel and aluminum, with single- or dual-side service. The unit is designed to hold 699 gallons of waste and 300 gallons of freshwater, and includes a two-unit, fold-down restroom carrier with a trailer hitch. Available with single or dual compartments, the KV999 was made to be versatile and can be used for septic and grease or portable restrooms.

“Customers call us looking for solutions that might work for them. Many are unaware that this option is available and will work for their business,” Smith says.

Smith explains that KeeVac tanks can be highly customized for a vast range of applications. They can be mounted on a variety of chassis including Ford, Chevrolet, Isuzu, Peterbilt, Freightliner, International, Kenworth and RAM. Each unit comes with an upgraded DC-10 washdown pump and hose reel from Hannay Reels, but customers may also choose the pump that best fits their needs. Exterior controls and dual cabinets are designed for operator safety and convenience. An arctic package and safety lighting are also available. **866-789-9440; www.keevac.com.**



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LunarVent solar ventilation fans from LunarGlo utilize the same high-efficiency solar cells used in LunarGlo solar lighting units. The LunarVent’s proprietary ventilation fan is capable of moving more than 40 cfm during daylight hours, providing a complete air change in under

two minutes on average. When mounted to a standard 4-inch vent stack and used in conjunction with scented wafers, the fan rapidly removes unpleasant odors while creating a safer, more hygienic atmosphere in portable restrooms. **574-294-2624; www.lunarglo.com.**

**GAPVAX G7 TRAILER JETTER**

GapVax’s G7 trailer jetter has a simple design and a high-efficiency engine. The fit-and-finish assembly prior to powder-coating ensures maximum long-term durability. The jetter is built on a



heavy-duty, contractor-grade NATM-certified trailer. Several engine choices, including Cummins diesel, are certified and sized appropriately for the water pump combinations. The hose reel is hydraulically powered with a direct-drive gearbox and variable speed control. The hose reel offers a 3-foot curbside articulation from center of bearing, 180-degree rotation and 800-foot capacity (3/4-inch hose). The polyethylene plastic water tank is available in 300-, 500-, 600- or 700-gallon capacities, and the water pump is center-fed for optimum performance. The control box is weather-tight and lockable. The controller is interlocked with safety features that will show low fuel levels, low water and will undergo a complete engine shutdown in the event of an emergency.

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Franklin Electric’s Little Giant 12E Series 1/2 hp effluent pump for dewatering, water transfer and septic wastewater removal has a rugged design and features designed to meet the most challenging deep vault effluent applications. Each unit features a unique cloverleaf intake that allows for higher flow with 3/4-inch diameter solids handling.

The cast iron impeller delivers superior clog resistance, according to the maker. Surrounding it all is a heavy-duty epoxy-coated cast iron housing designed to stand up to extreme elements, including cold-weather climates where deep septic wells are common. Continuous duty rated, the energy-efficient PSC motor includes thermal overload protection designed for reliable performance. The pumps are available with either a manual or automatic switch option. **866-271-2859; www.franklinengineered.com. P**

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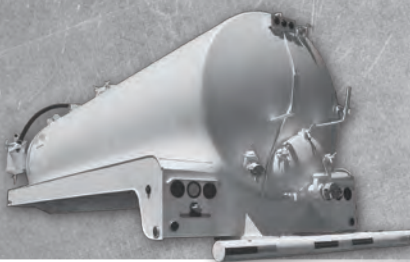
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## BUSINESSES

Reputable 20+ years portable toilet and septic tank business with growth potential in Scottsboro, AL for sale. The owner wishes to retire. The business includes 3 acres of land, 3 shop buildings, 7 trucks, about 550 toilets and an established route. Serious inquiries only. Email: [servicewaynesportabletoilets@gmail.com](mailto:servicewaynesportabletoilets@gmail.com) or at 256-259-0803. (P07)



### FOR SALE : Three Generation, Family owned business

located near Portland, Oregon, enhanced by combining excavation and septic services. Fully licensed to operate a full spectrum of services that include: Pumping, Home Sale Evaluations, New Designs and Installations, troubleshooting and Maintenance, a Certified Installer and Maintenance Provider business to care for all of our clients needs. Part or all Equipment being offered as a package: 1995 International Pumper truck with NEW State of the art, new aluminum 3,300-gallon tank with all accessories. 1984 Peterbuilt dump truck with 1996 Trailmax flatbed trailer, 1989 Freightliner pumper truck, 1998 Toyota TX5 pickup, 2000 Toyota Tacoma pickup with canopy, 2008 Bobcat 323 mini track hoe with car trailer, 2005 Chevy Work truck with supplies, 2007 Komatsu PC78 Trackhoe Hitachi 120-5 Trackhoe-2, 2004 HS41M All Terrain "Super Hoe" Schaeff Excavator. **For information, call Eric Mauck 503-780-4969 [ericmauck@aol.com](mailto:ericmauck@aol.com). (P08)**

For Sale: Highly reputable, thriving Septic & Cesspool cleaning company on Long Island, NY in Nassau County. Well established and expanding since 1972. Owner now looking to retire. Willing to train new owners. Significant expansion opportunities and always in high demand. Serious inquiries only please. Email: [EastNor14@yahoo.com](mailto:EastNor14@yahoo.com) or call 516-922-1242. (P07)

Established residential septic service business for sale in central New Mexico, USA, 3 hours south of the Colorado line. Serious inquiries call Jim @ 505-867-5594. (P08)



**Established septic service business** for sale in central mountains of Colorado. Servicing Park & Summit counties since 2005. Specializing in residential septic pumping, NAWT/OWTS certified inspections, repairs, installations and sewer & drain work. Located in a very popular and fast growing area with a significant demand to expand the business if desired. Low mileage 2001 International septic truck, new 3,000-gal tank with newer Masport 400HXL pump, jetting /camera equipment, etc. **For more information call or email Pete at 719-838-0332, [blackcat.lynn@gmail.com](mailto:blackcat.lynn@gmail.com). (P08)**

Arizona Septic and Drain Business FOR SALE \$375,000. Two trucks - 1998 Freightliner 3,000-gallon steel tank, Jurop 260 pump & 2000 Sterling 3,500-gallon aluminum tank, watercooled Masport pump. BACKHOE, EQUIPMENT, TRAINING & BUSINESS. Call 480-238-0786 for Information. (P08)

Thriving grease trap business for sale in sunny Tucson, AZ. 35 years in business, want to retire. Everything ready to be taken over. If interested call 520-730-4867 or email [gkauff@comcast.net](mailto:gkauff@comcast.net). (P07)

[www.RooterMan.com](http://www.RooterMan.com). Franchises available with low flat fee. New concept. Visit web site or call 1-800-700-8062. (PBM)

## COMPUTER SOFTWARE

[FreeServiceReminderSoftware.com](http://FreeServiceReminderSoftware.com), [FreeServiceDispatchSoftware.com](http://FreeServiceDispatchSoftware.com), [FreeRouteManagementSoftware.com](http://FreeRouteManagementSoftware.com). (PBM)

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## DEWATERING



**Mobile belt press for sale**, 43-foot flatbed trailer, Parker press 2.5. Nampa, Idaho. Call 208-866-1190. (P07)



**Prime Solution P4700** 1.2 meter Belt Press. Comes with new belts. Located in Clearwater, FL. **\$10,000 OBO. 727-571-1999. (P08)**

Used dewatering boxes and accessories for dewatering equipment. Call for details 979-245-5656. (P08)

## DRAIN/SEWER CLEANING EQUIPMENT



**2015 Vactor 2100 Plus Combo** single engine sewer cleaner with Positive Displacement Vacuum System. Equipment: Vactor 2115P-18, Mileage= 69,644, Engine hours= 6,486. 30 Chassis: 2015 Kenworth T4406x4, 460 HP, automatic transmission, 66,000 GVWR, Specs: 2100 Plus PD, 18" Vacuum Hydraulic extending 15", rotating hose reel, 1" x 800' capacity additional water, 1,500-gal total, 15-yd debris. **Contact: Leah@charlestonrotorooter.com. SC (P07)**

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## GREASE TRAP SEPARATOR TANK



**2004 Sterling LT 9500** Keith Huber Dominator Mobile Grease Separator 4000/200. DD60 12.7L. 522k, Eaton 10-speed. 20,000 Front 46,00 Rears. New rubber. 2,238 hrs on Vac pump. 1,261 hrs on Jetter. **\$92,500 OBO. 1 owner, contact [etsjeffpeters@yahoo.com](mailto:etsjeffpeters@yahoo.com) or 559-647-6048. (P07)**

## HAZARDOUS WASTE UNITS

2009 Peterbilt 340 cab & chassis with a Presvac 3,200 U.S. gallon, C/S, D.O.T. 412, dump type, vacuum tank and a Presvac PV750 pump. (Stock #8412C). **[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com) (888)VAC-UNIT (822-8648). (PBM)**

2013 Peterbilt 348 cab & chassis with a Presvac 3,200 U.S. gallon, C/S, D.O.T. 412, dump type, vacuum tank and a Presvac PV750 pump. (Stock #9277C). **[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com) (888)VAC-UNIT (822-8648). (PBM)**

2011 Peterbilt 348 cab & chassis with a Presvac 3,200 U.S. gallon, C/S, D.O.T. 412, dump type, vacuum tank and a Presvac PV750 pump. (Stock #0200V). **[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com) (888)VAC-UNIT (822-8648). (PBM)** Used 2020 Peterbilt 348 cab & chassis with a Presvac 3,000 U.S. gallon c/s D.O.T dump unit. (Stock #055R). **[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com) (888)VAC-UNIT (822-8648). (PBM)**

1997 Ford with Cusco 3,200-gallon DOT certified dump and door liquid vacuum truck. Cat engine with Moro M9 vacuum pump. Runs and pumps excellent. \$37,500. KLM Companies 617-909-9044 (PBM)

2000 International with Cusco High Dump 27", DOT Certified, 412 with vacuum pump, pressure offload as well. Cummins Power with low miles and hours. KLM Companies 617-909-9044. (PBM)



**2007 Kenworth T800** with Presvac 3,500-gallon DOT Certified dump/door vacuum tank, Hibon 900 CFM 27", new blower and tank inspections, pre-emission with 400 CAT with 18-speed trans. 44k rears 20k pusher 20k front. **Great condition. KLM Companies 617-909-9044. (PBM)**

### HI PRESSURE TRUCKS

2009 Kenworth T800, Keith Huber liquid vac truck. ASME/DOT412 2,800-gallon hydraulic lift fully opening tank. 440CFM liquid-cooled pump. 270k miles/10k pump hrs. \$55,900. Phone: 606-314-0554/photos: www.martinspeterbilt.com KY (P07)

### JETTERS – TRAILER



**2004 US Jetting 4018.** (2) 300-gallon water tanks with a 3 cylinder Hatz diesel engine with 1,150 hours. This trailer is a 12,000 GVW sitting on 2 fairly new 6000 LB Dexter axles with electric brakes. All services are done according to manufacturers specs and this trailer is ready to work. **\$20,000. Contact Mike at 781-389-7143 for more info or specific pictures. MA (P07)**

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**2002 US Jetting 4018-3000**, "Only 553 hours!" \$22,900 OBO. Features: • Run-Dry Pump with Stainless Fluid End • 4,000 PSI - 18 GPM • 553 Estimated Hours of Use • 3 Cyl Hatz Silent Pack Diesel Engine • 500' 1/2" Hose, Hydraulic Driven Hose Reel • Single axle trailer, 6,000 lbs GVW • Safety Rotating Beacon Light • 300-gallon water tank • Pivoting Hose Reel with Hydraulic Power Pullout • Pulsation system • Antifreeze system • 2 Standard RPD Nozzles • Tiger tail (Hose Protector) • Toolbox Fender Mounted) . Pressure washing wand. **\$22,900 or best offer. Call Robert 941-685-7863 or email rallen1047@gmail.com. FL (P07)**



**The HotJetII® is a best-selling hot-and cold-water drainline cleaner** featuring a 35hp Vanguard engine by Toyota and delivering 10gpm @ 4,000psi that cleans drains up to 300' and 12" in diameter. Priced at \$34,995 including freight to the lower 48 states, the HotJet II® is American made using nonproprietary parts for affordability and ease in serviceability making its return on investment truly impressive. **Financing available. 800-624-8186; sales@hotjetusa.com; www.hotjetusa.com (PBM)**

### JETTERS – TRUCK



**2007 Sterling Pipe Hunter** Jeteye Jetter, municipality owned and maintained. Very clean truck with low mileage. Brand new replacement jet and camera line. **Must See!! \$50,000. Call 404-732-4603. GA (P10)**



**2008 Vac-Con VPD4212LHAE/1300** mounted on a 2008 Sterling LT8511 Chassis. Cummins ISC 300hp with an Allison 300RDS. Deutz 131hp Aux engine with 3000psi 50gpm Giant GP7145 water pump. **\$165,000 OBO. Located in Clearwater, Florida. 727-576-1111. (P07)**

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### PIPE BURSTING EQUIPMENT

Tric trenchless X30 with 4&6-inch splitting heads, 75' and 150' cables included, 5.5 hp power pack. \$27,500. 740-357-1208. OH (P07)

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### PORTABLE RESTROOM TRAILERS

2001 Keith Huber International pump truck. 2 Decons, 28' Tonto, 18' Royal, 2001 ASCI, 16' Presidential, 26' Presidential, portable toilet hauler trailers. 315-437-1291, NY (PBM)

### PORTABLE RESTROOM TRUCKS



**1996 Ford F350** -- 350 waste/200 water with lift gate \$8,000. New tranny --- 2002 Chevy C3500 4x4 350/200 with lift gate \$9,000. ----- 1997 Ford FSD 450/200 with new lift gate needs injectors \$5,500. ----- 1995 Ford FSD 500/200 carries 2 units \$10,000. ---- If interested or want photos please call **585-991-3135 and leave a message or email obrienseptic@yahoo.com. NY (P07)**



**2012 Dodge 5500.** 217k miles, new motor, block replaced at 195k miles. 4wd, 650-gallon waste, 300 water, 2 tool boxes and carrying box for 4 toilets. The truck and pump are all in proper functioning order. **Asking \$43,000 OBO and located in Northern CA. Please call 530-893-5687 for more information or photos. (P08)**



**2011 Ford F550.** 250k miles, new motor installed at 200k miles. 2WD, everything is in proper functioning order. Recently replaced turbo and blue def system. 950-gal tank and lift gate. **Asking \$43,000 OBO, located in Northern CA. Please call the office at 530-893-5687 for more information or pictures. (P08)**



**2014 Isuzu NPR HD** Chassis with 155k miles and a WorkMate Junior slide-in modified with additional 75-gallon tank. Total tank capacity is 300-gallons of waste, 225 of freshwater. GVWR of 14,500lbs with a 109" wheelbase. Truck can haul 8 toilets, 4 on flatbed gate up, additional 2 on liftgate when down, 2 more on top of slide in rack with E-Z track strap hold downs for all. Complete swing-away hitch assembly so liftgate can operate to ground with trailer detached. Upgrading our fleet to newer models; maintenance records available on request. This truck was a flatbed originally and we purchased, installed modified slide in liftgate and hitch in 2014 for an event vehicle. We wanted a high hauling capacity and ability to service as we set and picked up. This truck can typically service 30 toilets with 75 gallons of extra water for cleaning and wash stations. **\$32,995. 541-212-3175. ID (P07)**



**2006 Sterling**, 1,500 Progress tank waste/500 water. Has a Mercedes motor. Truck does not run and it may need a motor. Sold as is or we will separate the body. **\$13,000. Call or text Bill 614-496-5571. Columbus, Ohio. (P07)**



**2006 International with a Satellite M1600** waste/fresh water tank, 240k miles. **\$24,000. Call 806-762-1066 for more info and pics. TX (P07)**



**2009 Ford F450 2WD Dually.** 300 waste/150 water. Stainless steel tank. Mileage 114,442, 90% tread on tires, very clean. **\$23,000. Located in Battle Mountain, NV. Call 775-635-9600 ask for Randy. (P07)**

2017 Ram 5500 4x4, 6.4 Hemi, 1,500-gallon aluminum tank (1,200 waste/300 fresh). Masport HXL4, 25k miles. Owner driven contract up. \$68,750. 740-357-1208. OH (P07)



**2009 Kenworth T270** with 235,000 miles, 11R/22.5 tires, air brakes, Paccar PX-6 220hp motor, Allison automatic transmission, stainless steel tank and body, with 1,100-gallon waste and 400-gallon fresh water and has a 26,000 GVW. **\$47,500. Contact Nate 207-646-2180. ME (P07)**



**Selling (2) International 4300** portable restroom vacuum trucks. These 2010 and 2011 trucks are in A+ condition, well maintained, with all service records and ready to work. Both trucks are identical with everything you need to complete the job. Please call for additional pictures and any questions. **\$45,000 each. 850-944-5536 - Lynn Boyett. FL (P07)**

New Imperial 1,300 U.S. gallon, portable toilet service unit mounted on a 2020 Ford F550 cab and chassis with a Masport HXL4 pump package. (Stock #13961). **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)**

New Imperial 980 U.S. gallon, portable toilet service unit mounted on a 2020 Ford F550 cab and chassis with a Masport HXL4 pump package. (Stock #13931) **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

2000 International 4700 cab & chassis with a 500 waste/300 freshwater compartment with a Masport HXL4V vacuum pump. (Stock# 0767C) **www.VacuumSalesInc.com (888) VAC-UNIT (822-8648). (PBM)**

## PUMPS

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## RENTAL EQUIPMENT

2022 Polar Vacuum Trailer: Stainless steel 6,000 gallon, DOT certified double conical with air-ride suspension. Aluminum wheels all positions, full hose trays, OSHA walkways and railings. Vacuum pump option either hydraulic or self-contained. KLM Rentals Inc. 617-909-9044. (PBM)

Liquid vacs, wet/dry industrial vacs, combination jetter/vacs, vacuum street sweeper & catch basin cleaner, truck & trailer mounted jetters. All available for daily, weekly, monthly, and yearly rentals. VSI Rentals, LLC, **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)**

## SEPTIC TANK FORMS

PRECAST CONCRETE SEPTIC TANK FORMS - BOOM TRUCK - BRIDGE CRANES. For equipment list, prices, & pictures email tankco@charter.net or call 931-261-2331. TN (P07)

## SEPTIC TRUCKS



**2001 Sterling septic pump truck**, 2,500 gal. steel tank, 5 years old. 7.2L Cat engine, 9-speed Eaton, Moro Turbo PM80 pump. 33k GVW. 4" discharge/intake, 3" intake. 200' of 3" suction hose. Hand tools. Extra parts come with truck: mirrors, tire chains, adapters. Truck runs well. This was the frontline truck until business was closed. **Asking 40,000 obo. Contact 505-217-5731 or fyreman94@mac.com. NM (P07)**

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**1999 Peterbilt 330** with a 3126B cat engine & 48,000 GVW. 2,500 gallon Abernathy tank with hoist. RFL 100 demag pump. 579,000 miles. Engine was replaced with a Cat certified rebuild. Truck runs and pumps great. **\$29,000 obo. Call 814-590-0513. PA (P07)**



**2013 Freightliner Cab.** Tank body/pump is 3 years old (National Truck Center). New steer tires, Rear tires 4 months old. Cummings motor, Allison Auto. No leaks or problems. Ready to pump. 2k gallons, NON CDI truck. **210-489-9900 call/text for info. Very clean truck \$45,000 firm. TX (P07)**



**2004 Freightliner Cascadia**, CAT C15 motor, 850,xxx miles, 4,000 gallon tank, Fruitland 500cfm pump. **\$31,000 OBO. Call/text Cody 727-465-8026, FL. (P07)**



**1999 Freightliner FL 112**, 312,000 miles, 70,000 on rebuilt Cat C-12. 3,200-gallon tank. Original owner. Masport vac pump. \$20,000. Please email or call for additional photos and information. **507-625-3400. Seppmannandsons@gmail.com MN (P08)**

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**2004 International 7500**, 4,200 gallon Masport 400, DT530 engine, 8LL, 16/46. New front tires, alternator, hi-pressure oil pump. Runs/drives/pumps good. Will need replacement engine at some point. **\$19,500 call 508-746-4002 MA (P07)**



**2011 Ford F350**, diesel, auto, 4-wheel drive, new alum 300 waste/150 fresh vacuum tank. HXL2 Masport pump, wash down system. **Call JR @ 720-253-8014, CO. (PBM)**



**1998 Ford, 300 hp Cat**, 169k miles, 10-spd, AC, cruise, newer Keith Huber 3,300-gal tank with hoist, rear open door and Challenger vac-pump. New: tires and paint. Very nice, clean truck. **\$49k. Call Hull's Truck Bodies LLC at 740-820-5338. Financing and delivery options available. OH (P07)**



**2017 Hino 338, 33000 GVW**, 7.8L diesel engine 260hp, Allison 3000, Amthor 2,500-gallon septic tank, vacuum pump system with 3" suction hose, power windows & locks, **AM/FM radio, air conditioning. 262-514-4000. (P07)**



**2022 Peterbilt 337**, Allison automatic trans, 300 horsepower, 26k GVWR, air-ride cab, air-ride suspension, air brakes, new 2,000-gallon steel vacuum tank, new Juroop R260 vacuum pump, chrome package Peterbilt, steel bumper, blue-tooth, automatic windows. Shipping and financing available. **Located in Central Arkansas. Ray 501-388-9565, Brett 501-388-9464. (P07)**



**2019 Freightliner M2**, 160,000 miles, automatic, new 2,000-gallon steel tank with new Masport viper pump. **\$79,000. Call Alan 786-908-5436. (P08)**

2017 International 7400, N-9 330HP, Allison auto, 40k rears, 14k front, 3,600-gal alum cac, Masport air-cooled pump, 74,000 miles. \$110,000. 440-466-4406 or nesepetic@windstream.net. OH (P07)



**2011 Kenworth T300 (2 Available)**, automatic transmission, 153,000 miles, new 2,500-gallon steel tank, new Moro pump, new tires all around. **\$75,000. Call Alan 786-908-5436. (P08)**



**2013 Hino 268**, 179k miles, 1800 black tank, 200 water tank, jetter, **\$55,000 OBO. 561-410-2317 (call/text). Truck located in Palm Beach County, Florida. (P07)**



**2014 Western Star**: 4,500-gallon vac tank. 315,000 miles, Cummings ISX 500 w/18 speed. Air ride, 20-20-46. **Asking \$59,000. Contact Mark 570-347-5125. PA (P07)**



**2014 International**, DT466 engine, Allison automatic transmission. Tank and equipment was built and installed on the truck in 2019 and put into operation in February of 2020. **Call or text 334-504-3601. AL (P07)**



**2003 Peterbilt 378** with a Keith Huber Berringer (wet or dry vacuum capabilities) unit. Tank is 3,500/300 with 35gpm @ 2000 psi jetting/pressure washing system. **Asking: \$170,000. Call: 715-572-4250. WI (P08)**



**2005 Freightliner septic pump truck**. CAT C7, 2 axle, approx 2,300-gallon tank. We use it every day. Will not sell it till the end of June 2021. **\$30,000 FIRM. Call or text Cindy @ 661-599-7336. CA (P07)**

2004 Freightliner Cascadia, 4,000-gal tank, 8 hoses, 30ft, 840,xxx miles, C-15 motor. \$40,000 OBO. Call/text Cody at 727-465-8026. FL (P08)



**1991 Freightliner, Detroit 60 series**, 450 hp, 781k miles, 9-spd, cold A/C, Jake brake, newer Cusco 3,150-gal tank with hoist and full open rear door, hydraulic driven Wittig vac-pump. Well maintained, great running truck, tank in very good condition. **\$19,000. 740-820-5338. OH (P07)**



**1997 Freightliner, 60 series**, Detroit, 417k miles, 450hp, 10-speed, cold A/C, Jake brake, 3,150-gallon Cusco tank with hoist and full open rear door, Wittig hydraulic driven vac-pump. Very well maintained truck, tank in excellent shape and new tires. **\$29,000. Call Hull's Truck Bodies at 740-820-5338. OH (P07)**



**2008 Peterbilt**, PX8 diesel, 328k miles, 10-speed, A/C, cruise, Jake brake, double frame, 3,150-gal tank (like-new inside and out) with hoist and full open rear door, Wittig vac-pump, jetter system and new drive tires. Very nice truck. **\$65,000. Call Hull's Truck Bodies at 740-820-5338. Financing and delivery options available. OH (P07)**

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)**



**2008 Kenworth T300**, 10-speed Eaton Fuller trans, Alcoa rims/80% tire tread, A/C, engine brake, lockers. 2,800-gallon aluminum tank, 3", 4" load valves, 6" dump valve. 104,571 miles. Has onboard jetter. Have all maintenance records. Current 90 day inspection. **Asking \$62,500.**  
**Contact David 916-705-1405.**  
**CA (P07)**



**2011 Kenworth T800**, Cummins ISX 485, 18-speed, Transway-built 4,000-gallon waste, 200-gallon freshwater with 10 gpm 3,000 psi jetter. Full hoist, vibrator and rear-open door. Transway 1200 pump. 167,500 miles, 14,500 hours. **Asking \$100,000. 802-658-6243. dispatch@pandpseptic.com. VT (P07)**



**2006 Chevy Pump Truck**, NEW ENGINE and CLUTCH, 2,300-gallon waste tank with jetter. This truck had a new engine installed and only 3,000 miles have been put on it. New clutch too. Runs great. Good tires. **\$25,500. Andrew Bloom 561-302-7195 or andrew@raiderroooter.com. FL (P07)**



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

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)

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)**



**Used 2015 International 4300** with NEW 2500-gallon steel vacuum tank, aluminum trays, NVE 607 Challenger pump, Allison automatic transmission. **\$79,807. Stock# 97988. 800-558-2945, imperialind.com, salesinfo@imperialind.com. (PBM)**



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

Pre-owned 1984 Mack R686ST cab and chassis with a 3,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock # 6115C).

**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**



**2014 International 4300**, under CDL, DT466 diesel, auto., 1,800-gallon steel tank and Masport pump. **Call JR @ 720-253-8014, CO. (PBM)**

1995 Mack CH612 cab & chassis with a Presvac 2,300 U.S. gallon, C/S, vacuum tank and a Wittig RFL100 vacuum pump (coming in August). (Stock # 6224V).

**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

Pre-owned 2000 Mack RD686S cab & chassis with a 4,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock #0514CV)

**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

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

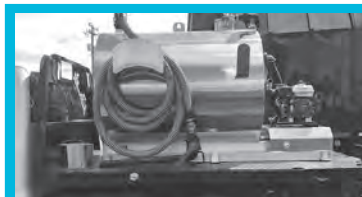
New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2022 Peterbilt 348 cab & chassis with NVE Challenger 887 fan cooled vacuum pump. (Stock #13942).

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**1999 Freightliner, Model: FLD112SD,** CAT 425 engine, 10-speed manual transmission, 3,800-gallon steel tank, equipped with a Masport HXL400WV pump. Asking **\$25,500 OBO. For additional information or if interested please contact Steve at 251-747-1956 or Anthony (850) 712-3830 AL (P07)**



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**2017 Guzzler Classic Kenworth** Chassis - 19,400 miles, 4,875 hours - \$225,000. 2013 Guzzler Classic International Chassis - 43,500 miles, 6,945 hours - **\$180,000. 440-813-0025. OH (P07)**

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

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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)

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

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

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**ENGINE :** Cummins B 300HP  
**TRANSMISSION :** Allison 2500 RDS

**\$116,104**

## 2022 FREIGHTLINER



Stock #106039

**TANK :** 4000-Gallon Aluminum Vacuum Tank  
**PUMP :** NVE887 Challenger Max Pak  
**ENGINE :** Cummins L9 350HP  
**TRANSMISSION :** Allison 3000 RDS

**\$146,972**  
+FET

## 2021 FREIGHTLINER



Stock #104149

**TANK :** 4000-Gallon Aluminum Vacuum Tank  
**BLOWER :** NVE Challenger 4307 Blower (535 CFM)  
**ENGINE :** Cummins L9 350HP  
**TRANSMISSION :** Allison 3000 RDS

**\$157,266**  
+FET

## 2022 PETERBILT



Stock #106053

**TANK :** 4000-Gallon Aluminum Vacuum Tank  
**BLOWER :** NVE Challenger 4307 Blower (535 CFM)  
**ENGINE :** Paccar PX9 360HP  
**TRANSMISSION :** Allison 3000 RDS

**\$161,498**  
+FET

## 2021 FREIGHTLINER



Stock #104018

**TANK :** 4200-Gallon Aluminum Vacuum Tank  
**BLOWER :** NVE Challenger 4310 Blower (940 CFM)  
**ENGINE :** Cummins L9 350HP  
**TRANSMISSION :** Allison 3000 RDS

**\$166,809**  
+FET

## 2022 INTERNATIONAL




Stock #105303

**TANK :** 4200-Gallon Aluminum Vacuum Tank  
**BLOWER :** NVE Challenger 4310 Blower (940 CFM)  
**ENGINE :** Cummins L9 370HP  
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