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Page 18

VACUUM  
EXCAVATION  
**Directory**

Page 36

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## Making the Cut - Giles Lambertson

MJ Minor Utilities started out slinging dirt the old-fashioned way. But they carved out a new valuable niche with hydroexcavation technology.

### 10 Between the Lines: Tank Agitator Aims to Prevent Worker Deaths In India

Could elements of the HOMOsep robot migrate to North America to make pumping easier and safer?  
- Jim Kneiszel

### 14 @pumper.com

Check out the latest online-only content at the Pumper website.

### 28 Legal Adviser: A Sexual Harassment Policy Could Head Off a Liability Disaster

Swift investigation of a harassment complaint and clear action steps will create a better workplace culture for everyone.  
- Joan Koehne

### 32 Opinion:

EPA MOU Partners Promote Infrastructure Advances During SepticSmart Week  
- Mary Clark

### 34 Rules & Regs

Montana Water Quality Standard Runs Into Problems with EPA Officials  
- David Steinkraus

### 36 Vacuum and Excavation Directory

### 44 Building the Business: Does the Pumping Stop When the Phone Rings?

Solid support back at the office will slow the interruptions and keep you running down the road.  
- Joan Koehne

### 48 Septic System Answer Man: Your Local Pub and Grill Poses Onsite Challenges

Before you belly up to the bar, work with your tavern and restaurant customers to develop best practices for wastewater treatment.  
- Jim Anderson

### 50 Classy Truck of the Month

Bullard Septic Service, Sanford, North Carolina.

### 54 Snapshot: Educate Customers and Protect Our Image

We must crack down on pumpers who cut corners and give a bad reputation to the wastewater industry.

### 58 Associations List

### 60 Product Focus

Vacuum Excavation and Industrial Jet/Vac Services  
- Craig Mandli

### 68 Product News/Spotlight:

Pumping nozzle increases vacuum power and jets contaminants away  
- Craig Mandli

## ON THE COVER:



MJ Minor Utility Contractor provides a host of pumping and hydroexcavation services from its base in South Dakota. Laborer Ted Ball, Jr., starts a potholing project, while foreman Matt Bounce works the wireless controls of a Vactor 2100 truck from Jack Doheny Company. (Photo by Britton Hacke)

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# ADVERTISER INDEX

A.R. North America, Inc. ....26

**ABBOTT RUBBER**  
CORPORATION, INC.

Abbott Rubber Co., Inc. ....11

American Tank Company ....29

**AMT PUMP**  
COMPANY

AMT Pump Company .....63

**AQUA-ZYME**

AQUA-Zyme Disposal Sys. .65

**ARCAN**

Arcan Enterprises, Inc. ....66

**CAM**

Cam Spray.....46

**CB**

Cape Cod Biochemical Co. .51

Century Chemical Corp. ....59

**Comforts of Home**  
SERVICES, INC.

Comforts of Home Services...67

CrewPlex .....12

**CRUST BUSTERS**

Crust Busters .....69

**DAVIDSON TANK**

Davidson Tank .....71

**WALLENSTEIN**

Elmira Machine Industries/  
Wallenstein Vacuum .....33

**EAM**

Engine & Accessory, Inc. ....16

**FLOWMARK**  
VACUUM TRUCKS

FlowMark Vacuum Trucks ...63

**FRUITLAND**

Fruitland Manufacturing.....21

**GAPVAX**

GapVax, Inc. ....53

**GUZZLER**

Guzzler Manufacturing .....45

**HOUSE OF IMPORTS**

House of Imports .....7

**IMPERIAL**  
INDUSTRIES, INC.

Imperial Industries, Inc. ....79

**In the Round Dewatering**

In the Round Dewatering.....67

**INTEGRITY TANK**

Integrity Tank Sales & Svc...43

**ITI TRAILERS & TRUCK BODIES**

JDC - Jack Doheny Co. ....26

**KeeVac**

KeeVac Industries, Inc. ....55

Key Commercial Corp. ....66

**LANE'S VACUUM TANK, INC.**

Lane's Vacuum Tank, Inc. ....67

Lone Star Body Systems LLC26

**Marsh**

Marsh Industrial .....52

**EXPLORER**

McKee Technologies -  
Explorer Trailers .....33

Mid-State Truck Service, Inc.68

**Milwaukee Rubber Products**

Milwaukee Rubber Products.57

**NAWT**

N.A.W.T.....71

**National Truck Center**

National Truck Center .....9

**NVE**

National Vacuum Equipment .3

**norweco**

Norweco, Inc. ....13

**NTS NATIONAL TRENCH SAFETY**

Phoenix Truck Center .....61

**pikrite**

Pik Rite, Inc. ....30

**POLYJOHN**

PolyJohn.....2

**PortaLogix**

PortaLogix .....30

**PL POWER BOOSTER**  
BY PRESSURE LIFT

Pressure Lift Corp.....8

**PRESVAC**

Presvac Systems.....80

**Summit**  
arroyo

Ritam Technologies LLC.....59

Rival Hydrovac Inc.....50

**RV**

Robinson Vacuum Tanks ....57

ROEDA.....52

**Roth**

Roth North America .....63

**Satellite**

Satellite Industries .....15, 69

**ScreencO**  
Systems

ScreencO Systems, LLC ....49

**Sonetics**

Sonetics.....25

Suttner America Company...55

**T&T TOOLS**

T&T Tools, Inc. ....16

**T.S.F. COMPANY, INC.**

T.S.F. Company, Inc. ....27

**TANK WORLD CORP**

Tank World Corp. ....59

**TankTec**  
Tank Technologies & Supply Co., LLC

TankTec .....12

**tele radio**  
COMMUNICATIONS

Tele Radio America.....4

**TS**

Transport Truck Sales, Inc...11

**TRANSWAY**  
SYSTEMS, INC.

Transway Systems, Inc. ....5

**TSI**  
TANK SERVICES, INC.

TSI Tank Services, Inc. ....65

**TUF-TITE**

TUF-TITE, Inc. ....31, 43

**U.S. TANKS**  
INDUSTRY

US Tanks Industry .....4

**VAC-CON**

Vac-Con, Inc. ....35

Vactor Manufacturing.....17

**vacutruX**

VacutruX Limited .....33

**VSI**

Vacuum Sales, Inc. ....52

**VARCO**  
SUPPLY

VARCO .....78

**WALEX**

Walex Products Company ..23

**Condac**

Westmoor Ltd. ....61

WWETT Show .....56

**Classifieds.....72-77**

**Marketplace.....70-71**

## REGIONAL ADVERTISERS

### Midwest Supplement

(after page 50)

**dvance**

Advance Pump & Equipment.3

**LINCOLN CENTER**  
MANUFACTURING, LLC

Lincoln Center Manufacturing/  
Marengo Fabricated Steel .1

**R.A. ROSS & ASSOCIATES NE**...4

### Eastern Supplement

(after page 50)

**dvance**

Advance Pump & Equipment...3

**LINCOLN CENTER**  
MANUFACTURING, LLC

Lincoln Center Manufacturing/  
Marengo Fabricated Steel ..1

**R.A. ROSS & ASSOCIATES NE**....4

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Vacuum Sales, Inc. ....2

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

**Jim Kneiszel**  
Editor

# Tank Agitator Aims to Prevent Worker Deaths in India

Could elements of the HOMOsep robot migrate to North America to make pumping easier and safer?

By Jim Kneiszel

**A**gitating the contents of a neglected septic tank is certainly one challenge for service providers in North America. Many of you address that challenge with stirring poles or Crust Busters to loosen the hardened fat cap at the top of the tank or the thick sludge at the bottom. In the western world, we have solutions to make this work safer and easier for service technicians.

It's a different story in other parts of the world, especially in India, where hundreds of day-working septic tank cleaners die every year when they enter the tank and are overcome by hydrogen sulfide gas. In many cases, multiple workers are killed as the next person in line enters the tank in an effort to save the worker who has passed out.

These workers are called "manual scavengers," and they are paid as little as \$4 per day to provide this dangerous service without being provided proper safety gear and gas-monitoring devices. The practice has been outlawed by the Indian government; however, these tragedies continue to occur because using manual scavengers is much less expensive than hiring a contractor with proper vacuum equipment. A recent news account out of India said two brothers were hired for just under \$10 said to be twice their normal daily pay, to empty a septic tank. The first brother entered the tank using a rope and with no protective gear, while others stood by. One story explained that the only safety measure many Indian septic workers take is holding a lighted match inside the tank opening. If the match burns to the end, they assume the air quality is OK and they proceed.

When the first brother passed out, the second brother went in after him and was also overcome by the gas. Then another man went in after them and also succumbed. After the tank was emptied by a vacuum truck, the three bodies were removed. One news account stated they were among at least nine sanitation workers who died that month.

These stories are inconceivable to pumpers in the U.S. who are required to follow stringent safety regulations for confined space entry of septic tanks.

## A BETTER WAY

Researchers in India are trying to prevent these deaths with a new product called the HOMOsep robot, which combines agitation and a built-in suction pipe. The unit is mounted to the back of a farm tractor and can be operated by the septic service workers safely from aboveground. You can see the unit in action in this YouTube video: [www.youtube.com/watch?v=KXyFj36z\\_Ls](http://www.youtube.com/watch?v=KXyFj36z_Ls).

To call the HOMOsep a "robot" is frankly gilding the lily. I wouldn't equate the technology with some type of sophisticated artificial intelligence; however, it made me wonder if a similar device could be developed here to take away some of the backbreaking work and allow pumpers to service more tanks in a day.

The unit consists of three rows of fixed triple blades, each about a foot in diameter, and a larger triple-blade fan that retracts to fit inside the tank opening, then opens when pushed to the bottom of the tank. A suction pipe runs through the center of the blade assembly. The spinning unit loosens the sludge while waste is pulled through the pipe and into a vacuum truck.

➤ One story explained that the only safety measure many Indian septic workers take is holding a lighted match inside the tank opening. If the match burns to the end, they assume the air quality is OK and they proceed.

The HOMOsep was developed by the Indian Institute of Technology Madras, and the IIT Madras Department of Mechanical Engineering, along with startup company Solinas Integrity. It is also supported by an NGO, non-governmental organization called Karamchari Andolan which is working to end manual scavenging in India.

Bhaves Narayani, of Solinas Integrity, told Indian media that the project to keep septic workers out of tanks has been rewarding. So far 10 units are in use and being monitored, with hopes to ramp up production.

"We improved the blade design through extensive simulation and mock-up trials and achieved a miniaturization for better portability. Moreover, we integrated our product with a tractor so it could reach remote locations," he said in one news account.



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## SAFETY FIRST

Think about how far our industry has advanced in North America compared to this story coming out of India. What's a life-and-death issue in an emerging economy very rarely comes up over here. However, that doesn't mean we are immune to the tragedy of workplace injury or death in the states. Even with clear-cut safety regulations controlling confined space entry, we still see occasional deaths from hydrogen sulfide gas poisoning. We also see occasional trench mishaps, slips and falls, and other construction-related injuries and death.

And I still see some horrifying and disappointing examples of safety violations by septic service providers in the U.S. Just recently, someone posted a photo on a social media site showing a woman who entered a tank to make a repair without any safety equipment in sight. The worker was in the tank up to her neck and was smiling up at the camera. The poster was proud of their coworker for her willingness to get down and dirty to solve a problem in a customer's tank. Several pumpers jumped in and warned the poster that this was a dangerous safety violation and it shouldn't be treated lightly. They said there were many ways to approach an issue inside the tank without entering it, and stressed that if tank entry was necessary, it should only be done while following all Occupational Safety and Health Administration rules for confined space entry.

While it was good to see those responses, it was equally mystifying to see just as many people dismiss the warnings and congratulate the pumper for the guts to get in the tank and get the job done, no matter the risk. Attitudes like these are dangerous and could lead to injuries or death among the valued members of our pumper community and they should not be tolerated.

Please note the efforts to save so many lives tragically lost in septic tanks in India. Take the time to speak out if you see unsafe practices in the field. Make sure your crew has all the necessary safety equipment and training they need to do their jobs right and make it home to their families every night. **P**

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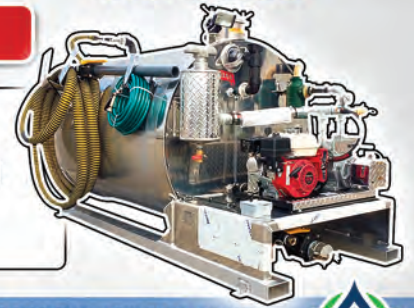
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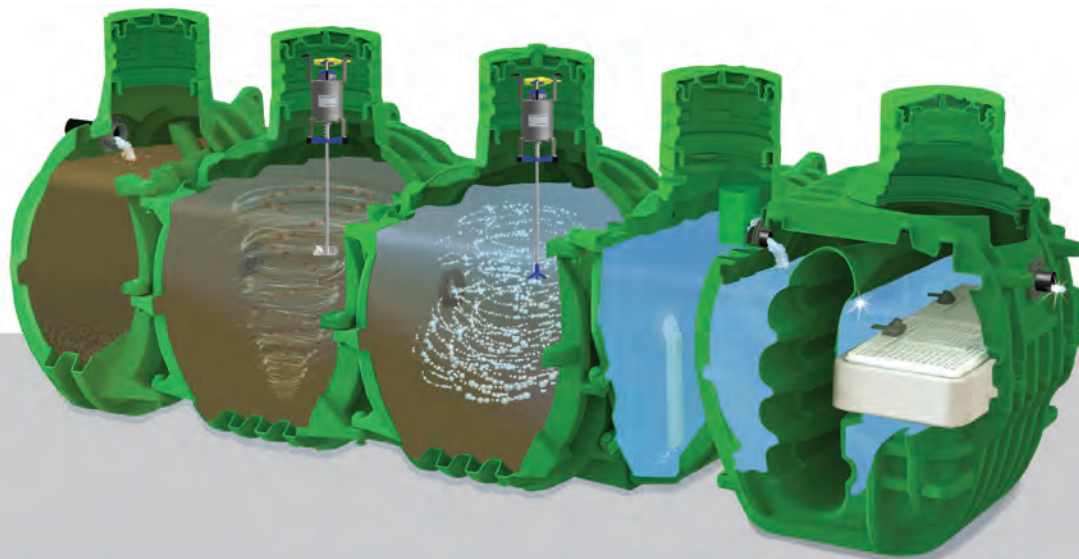
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## run a better crew

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“Being overworked doesn't necessarily equate to progress. It simply means that your schedule is full of activities. Those activities may not be contributing to your overall growth.”

– *How Being Too Busy Can Be Bad Business*  
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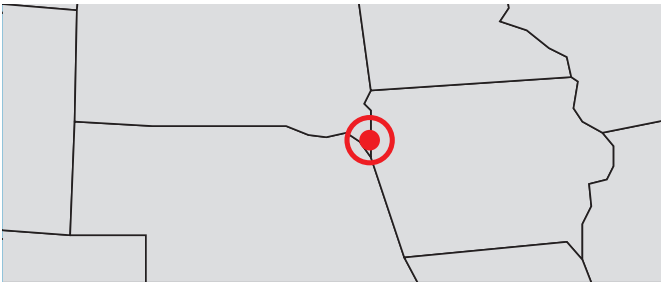


MJ Minor Utilities started out slinging dirt the old-fashioned way. But they carved out a new valuable niche with hydroexcavation technology.

By Giles Lambertson



▲ The crew at MJ Minor Utility Contractor includes, from left, Ted Ball Jr., Tony Verdin, Matt Bunce, Mark Bauer and Scott Jones. They are shown with a vacuum truck from Presvac Systems with an NVE blower. (Photos by Britton Hacke)



## MJ Minor Utility Contractor

North Sioux City, South Dakota

**GENERAL MANAGER:** Scott Jones

**YEARS IN BUSINESS:** 18

**EMPLOYEES:** 9

**SERVICE AREA:** Iowa, Nebraska, South Dakota

**SERVICES:** Full range of hydroexcavation, utility-locating, camera inspection and jetting of sewer and storm sewer infrastructure, installation and repair of water, sewer and septic tank underground structures

**WEBSITE:** [mjminorutility.com](http://mjminorutility.com)



▲ MJ Minor Utility Contractor general manager Scott Jones, left, and shop foreman Matt Bunce are shown with a vacuum truck from Presvac Systems and utilizing an NVE blower at the company shop.

“NOBODY HAD SEEN ANYTHING LIKE A HYDROVAC. IT WAS NEW, THE COMPANY TRIED IT AND THE WORK HAS BEEN GROWING EVER SINCE.”

SCOTT JONES



One of the so-called “tri-state” areas in the U.S. is around Sioux City, Iowa, where the Missouri River and a tributary, the Big Sioux River, carve out jurisdictions, with one area called Iowa, another called South Dakota and a third, Nebraska. Whatever you call it, MJ Minor Utilities has it covered.

The contractor digs into the soils of the region using powerful hydroexcavators or, as needed, traditional excavation equipment. If a pipe or fiber optic line or other buried infrastructure is in the ground, MJ Minor can efficiently expose it for repair or replacement or simply to pinpoint its location for avoidance.

The company operates out of North Sioux City — the South Dakota community, not to be confused with South Sioux City, Nebraska or Sioux City in Iowa. The region is generically referred to as Siouxland and all of it constitutes the stomping ground for the 18-year-old company.

### SOMETHING NEW

MJ Minor got into hydroexcavation after establishing itself as a traditional digging company. Launched in 2003, Minor focused on sewer, water and septic tank installations and repairs. It replaced fire hydrants and sewer laterals, digging into the soil to lay new infrastructure or fix the old.

The company still offers those services on commercial and residential properties as well as new construction projects. It maintains a fleet of equipment to do the work. Its CASE Construction machines include a 1650K dozer, two 821 wheel loaders, a CX210 excavator, two skid loaders and 660 trencher. A pair of Bobcat mini-excavators round out the earthmoving machinery. “CASE and Bobcat equipment have worked for us and we stay with them,” says Matt Bunce, shop foreman.

After five years of traditional utility excavation work, however, MJ Minor discovered hydroexcavation. “Nobody had seen anything like hydrovac,” says Scott Jones, general manager. “It was new; the company tried it and the work has been growing ever since.”

Jones wasn’t there when the company took to the new technology in 2008, joining the company in 2020. By the time he came aboard, hydrovac trucks came into their own as excavation tools.

MJ Minor quickly saw the future and expanded its fleet of equipment. Besides the traditional earthmoving machinery, the company’s five-acre equipment yard in North Sioux City now has a pair of pump trucks including “Big Red,” a 2020 Peterbilt industrial vacuum loader with a tilt bed/rear door. Parked there is a Spartan Ultimate Urban Warrior jetter mounted in a Ford 450 Transit cargo

## ► Pumper PROFILE



van. It can produce 12 gpm at 4,000 psi to clean sewer lines and storm sewers.

More to the point, the company has purchased two Vactor 2100 hydrovac trucks with 12-cubic-yard debris tanks and water pumps that can spew water at 2,500 psi at a rate of 80 gpm. These high-pressure water excavating machines — calling them examples of “cutting-edge technology” is almost a play on words — are used for a suite of services.

### HARNESSING THE POWER

Each job involves moving dirt without threatening adjacent infrastructure. Ponderous as the trucks are, the working end of the hoses running from them are capable of removing packed earth with almost surgical precision, as Minor crew members have learned.

▲ Prior to starting work for the day Mark Bauer, Ted Ball, Matt Bunce, Tony Verdin listen in as general manager Scott Jones goes over job specifics in the company shop in North Sioux City, South Dakota.

◀ Ted Ball connects the water hose from the Vactor 2100 to the digging wand prior to a hydroexcavation job.

The surge of pressurized water blasting from the nozzle would seem a threat to old pipe or fiber optic lines, but operator care eliminates the risk of damaging vulnerable infrastructure. “I suppose if you directed a 2,000 psi flow against a line long enough, you could damage it,” Jones says. “We’ve never done so.”

Some of the more common uses of hydroexcavation in Siouxland are locating lines, digging holes for piles, creating service pits for work crews, slot trenching and blasting out test holes for directional drilling projects. “Locating a line is the job we most often are called to do,” says Jones, “or digging to find and fix one.”

The force which the 300 hp truck engines and pumps emit is considerable. MJ Minor’s Vactor 2100 trucks have cut 30 feet deep into the ground before the force and vacuum lift began to be spent. When faced with excavating a hole at a distance from a truck, MJ Minor has run a hose out 220 feet and successfully cut away and removed soil.

The general manager says he’s run into his share of surprises on calls. While some obstacles to an uneventful job are anticipated, others pop up. On one occasion, an MJ Minor crew went to a job site near a train station expecting to complete a trench cut in two days. However, fiber optic lines entered the picture and the crew spent two weeks removing dirt with both mechanical and hydrovac machines.

Having a variety of customers lets the company absorb slowdowns in one area or flex and accommodate a rush of work in another. Currently, jetting work on residential properties has slowed “for no particular reason,” says Jones, but hydroexcavation jobs continue to proliferate. They now account for 60% of the company’s business.

*(continued)*



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### A focus on safety

The team at MJ Minor Utilities lives by the credo: "Operating safely is the most important thing we do."

Crews have "toolbox talks" every morning to methodically review the day's tasks, the hazards that might be encountered, and the need to handle equipment as trained. In winter, the threats of cold weather and icy conditions are always on the front burner of conversation.

Once a month, a longer meeting of employees is held to cover equipment issues and best practices. Those get-togethers are either at the shop in North Sioux City, South Dakota, or at an equipment manufacturer's facility. Want another indicator of safety management? Its hydrovac trucks roll out to each job with at least two crew members, none of this going-it-alone stuff.

"We have trench boxes and hydraulic frames and all that," adds Matt Bunce, shop foreman. "We are pretty well set up on safety equipment." He notes that 100% of company employees have completed OSHA training.

Though the company does its "due diligence," Bunce says, they also realize the threat of accidents is still out there waiting to ruin a day and, maybe, a life.

Industrial clients are a staple customer. These include a Tyson Foods plant, a GELITA USA gelatin production facility, a CF Industries ammonia manufacturing complex, a Royal Canin animal food facility and an AGP grain processing plant. Lines, pipes and disposal tanks are rife in the properties, and hydrovac solutions are regularly called upon. Municipal governments in the tri-state area also keep MJ Minor vac truck crews busy.

#### A VERSATILE TEAM

Jones has eight employees to help him with all this work. If not in the field, he is preparing bids and performing other administrative duties in the company's office next to a 20,000-square-foot shop where

Bunce works on machinery. Though major repairs to equipment are relegated to a manufacturer, Bunce performs routine maintenance.

"Keeping the equipment running smoothly is to our benefit and the customers' benefit," Bunce says. "We don't have to worry about equipment breaking down and the customer doesn't have to worry about a job being completed."

MJ Minor crew members are cross-trained as much as possible. This means one of the experienced hands can climb on a mini-excavator and trench, push dirt with the dozer, or deftly control the potholing hose on a vac truck.

Jones says the versatility of the work holds the employees' interest. The company does enjoy rela-



► Matt Bunce pumps a septic tank at a commercial property. Beyond hydroexcavation work, MJ Minor Utility Contractor also pumps out and repairs septic systems and does camera inspections.

(continued)

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MATT BUNCE



▲ Scott Jones pulls the hose out to assist with potholing work.

tive longevity among the crew, with employees being with the company three years, five years, eight years and so on, Jones says.

As elsewhere across the construction and heavy equipment industry, finding qualified people can be difficult. Jones says he is pleased with the people on payroll. “They are serious about their work. They go out and work together well all day.”

After the company hires good job applicants, it works hard to keep them, Jones says. “Once they are here, we bend over backward to see they have what they need to succeed. We have a good track record of keeping them and keeping them happy.”

It doesn’t hurt the morale of employees to know they will be periodically featured in a monthly downloadable newsletter. *The Contractor’s Chronicle* is sent to customers and potential clients. One issue of the *Chronicle*, for example, spotlights line locating and job site safety and shares a recipe of the month (“Waitin’-On-Turkey Stuffed Mushrooms”). It also features a brief Q&A with Tony Verdan, an 18-year MJ Minor employee.

## DISCOVERING NEW TOOLS

This willingness to try new things and adapt to change has been codified in the company’s set of core values. One of them is titled, “Continuous Improvement.” It contains a pledge to pursue best practices and to “embrace new technologies that could make a project better.”

So, what new technology is the excavation and sewer-cleaning company looking into now? It turns out MJ Minor is considering investing in a new inspection camera for its pipeline work. The company is looking at buying an Envirosight Rover X robotic camera for enhanced imaging of sewer mains.

New machines are fun, but in the end, capable equipment is only part of the equation that sustains the success of MJ Minor. Skilled workers and prompt response are key.

“We are there 24/7 to do the work, as needed,” Jones says. “Everyone knows when you call for emergency help in the middle of the night that it won’t be cheap, but our customers also know we are going to get the job done and that we’ll back it up.” **P**



▲ After completing a septic pumping job, Matt Bunce disconnects the hose from the vacuum truck.

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RTD130-160	32.0	121.1	2300	160	50.5	36	42	3	128
RTD130-200H	34.5	115.0	2900	200	68.0	36	42	3	128
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RTX50	12.0	45.4	4350	300	35.8	25	23	3	72
RTX60	14.0	53.0	4350	300	41.8	25	28	1	72
RTX70	17.0	64.4	3000	200	33.8	30	23	3	72
RTX85	21.0	85.0	2200	200	31.7	30	28	1	72
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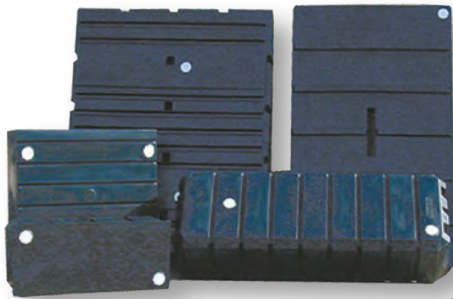
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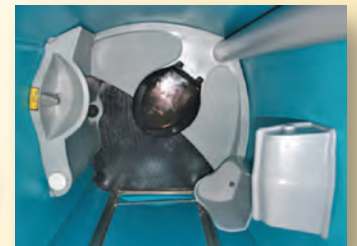
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# A Sexual Harassment Policy Could Head Off a Liability Disaster

Swift investigation of a harassment complaint and clear action steps will create a better workplace culture for everyone

By Joan Koehne

**F**ailing to prevent and address sexual harassment on the job can have serious consequences. A Florida septic company learned that lesson in 2021. In a same-sex sexual harassment and retaliation lawsuit, a male employee reported being sexually harassed by the company's owner. After reporting the harassment to authorities, the employee was fired in retaliation.

In addition to an \$82,500 settlement, the court ordered the septic company to develop and distribute a written antidiscrimination policy, conduct antidiscrimination training, post a notice about the lawsuit at its work site and submit biannual written reports to the U.S. Equal Employment Opportunity Commission.

Sexual harassment incidents aren't just about the time and money spent resolving a complaint. They're also about treating employees with the respect and concern they deserve. The Florida court case underlines the importance of creating and implementing a sexual harassment policy.

"No matter the size of the business, having a written sexual harassment policy in place protects employees and a company's bottom line," says attorney Jodi Labs, of the law firm of Conway, Olejniczak & Jerry S.C. in Green Bay, Wisconsin. "The liability for sexual harassment claims isn't based on the employer's size or number of employees."

All employers may be found liable for their supervisors' or employees' actions involving sexual harassment. Owners of small businesses stand to lose as much as large businesses, and maybe more if a lawsuit and settlement are costly or damage the company's reputation.

The work environment at a small business may be less formal than a large corporation, and this friendly nature makes it essential to have a sexual harassment policy.

"Employees sometimes become too comfortable with each other, perhaps making jests that may be perceived as simple ribbing but may, in fact, be offensive to one or more individuals," Labs says.

## ESTABLISHING POLICY

An effective policy helps employees understand what behaviors are appropriate in the workplace and ensures consistent and fair treatment of employees.

When developing a sexual harassment policy, Labs recommends these six provisions:

➤ A clearly written, effective sexual harassment policy, followed up with employee training, helps to create a harassment-free workplace where every member of the team is respected.

1. A definition of sexual harassment — this is a must-have.
2. Examples of sexual harassment
3. Details about the company's complaint mechanisms (e.g., duty to report by both the victim and witnesses; timely and accurate report to appropriate management authority or HR department; and several avenues for an employee to report sexual harassment so that the employee can bypass his or her supervisor who might be the alleged harasser).
4. An overview of the investigation and disciplinary processes
5. A confidentiality provision, which will maintain confidentiality to the extent the company can but cannot guarantee absolute confidentiality
6. An anti-retaliation provision

Because sexual harassment in the workplace has so many potential "gray" areas, Labs recommends a black-and-white zero-tolerance policy.

"Also, a sexual harassment policy is only effective if the employer makes clear that unacceptable conduct will not be tolerated, provides recourse to victims of harassment and applies appropriate corrective action against perpetrators, up to and including termination of employment," she says.

## TRAINING

Once completed, a sexual harassment policy should be posted at the workplace, distributed to all employees, and included in the employee handbook. Next, the focus shifts to training.

“It is not enough to provide employees with a written sexual harassment policy and assume they will be aware of their role in creating a harassment-free workplace. Rather, such policy must be followed by a strong and active training program,” Labs says.

Some states require companies to conduct sexual harassment training. Even if it’s not required, annual training is advised. In addition to companywide training, supervisors and managers should participate in separate sessions to learn how to prevent, recognize and report sexual harassment.

All employees should be aware of the company’s complaint procedure.

“To be compliant with EEOC’s requirements for asserting a potential defense against liability, a complaint procedure must encourage employees to come forward with allegations of sexual harassment,” Labs says.

It takes courage for employees to come forward and assert their rights, so companies should do everything they can to show compassion and a sincere desire to help.

“It is also important that companies treat each allegation with the respect and concern it deserves. It is incredibly important to refrain from pre-judging or downplaying the situation,” Labs says.

Here are two key aspects of a sexual harassment complaint procedure:

- Employees have the option to bring a complaint to different people, such as a supervisor, manager, business owner or human resources official.
- Employees are reassured that their allegations will be promptly and thoroughly investigated, without retaliation of any kind.

According to the EEOC, a complaint triggers the need for an investigation, whether the employee asks for one or not. Each allegation should be treated with the respect and concern it deserves. Prior to a harassment investigation, employers should take these actions:

- Designate both men and women as investigators because an employee might feel more comfortable reporting harassment to someone of the same sex.
- Handle complaints as discreetly as possible.
- Use comforting language with the accuser and assure the employee of help.
- Investigate reports promptly; this is a legal obligation.

“One of the biggest mistakes an employer can make is waiting too long to investigate a sexual harassment complaint,” Labs says. By acting quickly, an employer collects key information while it’s fresh. Delaying an investigation can be a sign that the company is trying to ignore or cover up the complaint, which can result in greater liability.

“The actions an employer takes, or fails to take, after an employee files a complaint can either protect the company from liability and bad press or make its problems worse,” Labs says. “When a formal charge of sexual harassment is filed with the EEOC or a state regulatory agency, or a sexual harassment lawsuit is brought in federal or state court, one primary issue will be what, if anything, the employer did to prevent or stop the harassment.”

## COMPANY LIABILITY

An employer’s liability for sexual harassment claims depends on a variety of factors, including the type of harassment and the accused person’s role in the company. Sometimes, an employer will not be held accountable for sexual

harassment, even if an employee has evidence of the conduct. Other times, an employer faces expensive legal fees and other monetary consequences.

Employers may be liable for paying the victim’s lost wages or future lost wages, plus compensatory damages for future earning capacity, medical treatment and any other out-of-pocket expenses related to the harm sustained by the victim. If a court finds substantial evidence that an employer willfully or intentionally violated employment sexual harassment laws, the court might impose punitive damages designed to punish the employer.

The victim may also receive noneconomic damages, which tend to cover injuries that are not quantifiable, like pain and suffering, emotional distress, loss of enjoyment of life activities and loss concerning the reputation of the injured party.

Lastly, a victim may be awarded equitable relief which may reinstate the victim to his or her job or give the victim a promotion. Equitable relief may also include mandatory amendments of workplace policies and reinstatement of job benefits if the victim was terminated prior to the lawsuit.

As you can see, settling a sexual harassment lawsuit can be costly. Thus, prevention is a smart alternative. A clearly written, effective sexual harassment policy, followed up with employee training, helps to create a harassment-free workplace where every member of the team is respected. Taking sexual harassment seriously is a reflection of a company’s corporate culture and the support the company provides to employees. **P**



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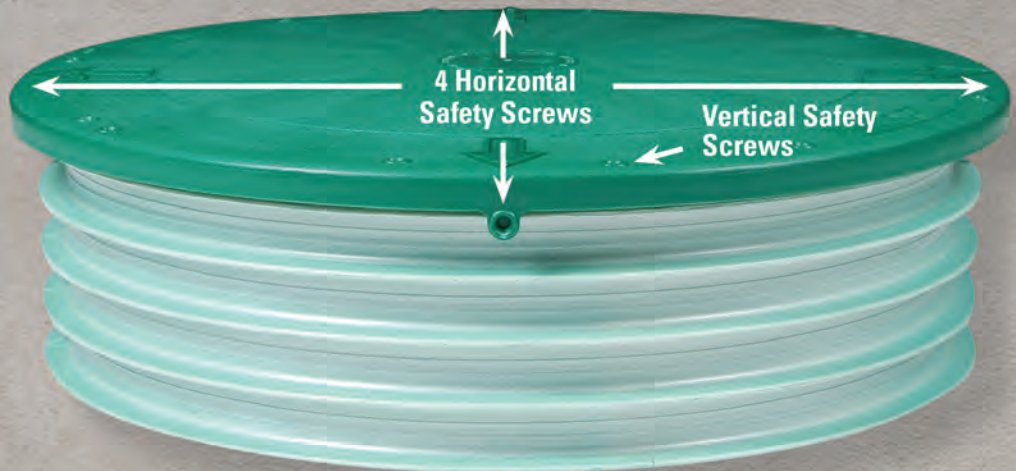
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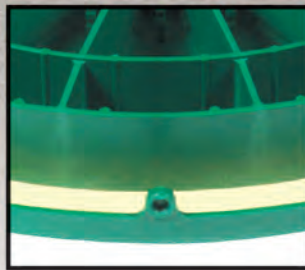
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## 4" Effluent Filter and 4" T-Baffle™

86 ft. of 1/16" filtration area.

Increases time between filter cleaning.



EF-4 Combo Includes Filter, Housing and

4" Sch. 40 & SDR-35

NSF®  
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TB-4-18 Housing 12/carton

SD-4 Gas/Solids Deflector

EF-4 Combo 18

### 4" Effluent Filter EF-4

One-piece effluent filter fits in 4" Sanitary Tee.

- Injection molded PolyPro
- Simple to install - Easy to clean

### 4" Sanitary Inlet/Outlet T-Baffle™

Injection molded T-Baffle™.

- Injection molded T-Baffle
- Fits 4" Sch. 40 and SDR-35 pipe
- Simple to install
- May also be used as Inlet & Outlet Tee

## 6" Effluent Filter and 6" T-Baffle™

244 ft. of 1/16" filtration area.

Increases time between filter cleaning.



EF-6 Combo Includes Filter, Housing and Bushing

4" Sch. 40 & SDR-35

NSF®

1500 GPD ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

TB-6 Housing

Gas/Solids Deflector

### 6" Effluent Filter EF-6

One-piece effluent filter fits in 6" T-Baffle™.

- Injection molded PolyPro
- Simple to install
- Easy to clean

### 6" Sanitary T-Baffle™

Injection molded T-Baffle™.

- Injection molded
- Fits 4" Sch. 40 and SDR-35 pipe
- Simple to install
- May also be used as Outlet Tee with Solids Deflector



Mary Clark  
Contributor

Mary Clark, technical advisor, MDB, Inc. in collaboration with EPA Decentralized Wastewater MOU Partners.

# EPA MOU Partners Promote Infrastructure Advances During SepticSmart Week

By Mary Clark

**D**ecentralized wastewater systems serve approximately 20% of U.S. homes. Although these onsite septic systems can provide an effective means to treat wastewater, for many homeowners the systems are substandard, malfunctioning or noncompliant.

In many cases, inadequate and malfunctioning wastewater infrastructure disproportionately affect people of color and low-income communities — they often lack the financial resources to tackle these challenges and contend with potential health risks to families. Across the country, malfunctioning decentralized wastewater infrastructure is making the news. Recent articles from Alabama, Alaska, North Carolina, New Mexico and Massachusetts point to the need for more funding to support building, repairing or replacing aging or non-existent decentralized systems.

But it's not all bad news. The arrival of the Bipartisan Infrastructure Law provides an unprecedented opportunity to address wastewater infrastructure

treatment, we are also aware of the increasing need to provide support to those who need it most to repair, replace or access financing for a new system. In fact, 20 organizations participate in a Memorandum of Understanding with the U.S. Environmental Protection Agency to collaborate on decentralized wastewater issues.

The EPA's Decentralized Wastewater MOU Partnership prioritizes education and outreach to homeowners with decentralized systems. EPA's SepticSmart program is an example of these efforts to share information with homeowners on the proper use, maintenance and upkeep of systems. This month the Decentralized Wastewater MOU Partnership and EPA celebrate the 10th anniversary of SepticSmart Week Sept. 19-23. In recognition of this anniversary, EPA is sponsoring a photo challenge to encourage interest in demonstrating the seven SepticSmart Quick Tips. We encourage you, your company or customers to take part by submitting photos or videos. The SepticSmart program also has an online outreach toolkit that provides useful information and videos on what to flush/not flush, the importance of inspecting your system and pumping septic tanks as needed. These tools are intended to equip homeowners with the necessary basic information to keep their systems running effectively and efficiently.

The Decentralized Wastewater MOU Partnership has worked together since 2005 on priority issues, including mechanisms to fund or finance decentralized wastewater systems. EPA recently released a guide on how to use the CWSRF for financing decentralized projects. The MOU Partners are also focused on initiatives that problem-solve and find creative solutions to meet the nation's decentralized wastewater financing needs, for example Decentralized Wastewater Innovation and Community Plumbing Challenge.

Much remains to be done to meet the needs of decentralized homeowners, particularly for those in underserved communities. Members of the MOU Partnership are working hard to ensure there are funding opportunities across the nation to meet these needs, brainstorming solutions to address malfunctioning systems, and working collaboratively to ensure all Americans have access to safe, reliable wastewater infrastructure, now and for future generations.

For more information on the photo challenge, to access the online outreach toolkit or to learn about the financing guide, visit [www.epa.gov](http://www.epa.gov). **P**



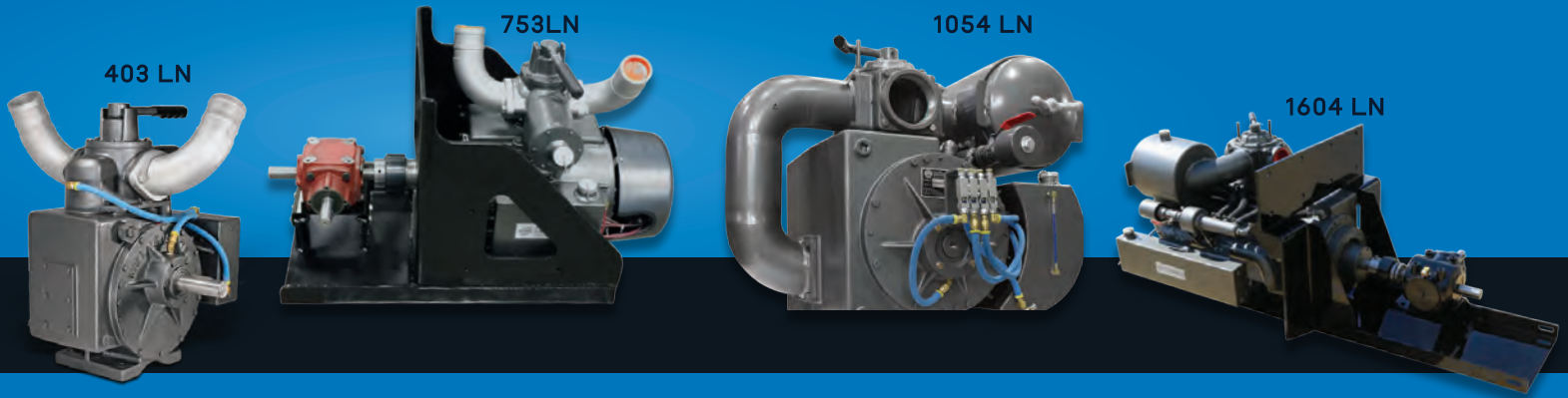
These 20 organizations make up the EPA Decentralized Wastewater MOU Partners.

needs, particularly for underserved communities with decentralized infrastructure. The BIL provides \$11.7 billion through the Clean Water State Revolving Fund and sets aside 49% of that funding for grants or forgivable loans. This provides a pathway for communities to access traditional CWSRF loans to upgrade their wastewater infrastructure.

The decentralized wastewater industry is excited to have this moment. In our efforts to provide the country with safe and reliable wastewater



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# Montana Water Quality Standard Runs Into Problems With EPA Officials

By David Steinkraus

**T**he U.S. Environmental Protection Agency declared Montana's new water quality standard invalid under the Clean Water Act. The agency's Region 8 office sent its letter of rejection to the state's Department of Environmental Quality in the spring.

A law passed in 2021 eliminated the state's numeric standards for nutrient pollution and instead required DEQ to regulate discharges of phosphorus or nitrogen based on a narrative standard. Prohibited discharges would create conditions toxic to human, animal, plant and aquatic life; create conditions that produce undesirable aquatic life; or cause measurable changes in aquatic life.

News reports noted that Montanans have always prided themselves on having clean, clear streams with thriving trout populations. Montana DEQ spent several years developing numeric standards that were adopted in 2015.

After the narrative standard law passed last year, the state convened a working group to develop those standards. But the group spent a year failing to agree on anything, according to *Courthouse News Service*.

In her letter to DEQ, Darcy O'Connor, director of the water division for Region 8, said the state failed to demonstrate that its narrative standard is enough to protect water quality, and she said the state's permitting history during the last two years shows that the narrative standard doesn't work.

## Florida

The Cocoa City Council is looking into several options for dealing with septic tank pollution from 92 homes, and one option is requiring people to connect to municipal sewer service.

The other options are to convert homes from conventional to advanced onsite systems, to allow homeowners the option of connecting to municipal sewer, and to delay any decision, reported *Florida Today*.

Municipal sewer connections or advanced onsite systems would be funded by \$5.1 million from a half-cent sales tax dedicated to reducing pollution in the Indian River Lagoon. Cocoa is southeast of Orlando and near the top of the lagoon, which stretches along Florida's east coast.

The city council voted to look into the legalities of forcing people to convert to municipal sewer. Members tabled a decision on the options.

## California

Environmental health staff from Humboldt County are holding public comment workshops to gather information about onsite system performance. Information will become part of the report required every five years under the county's local area management plan. More information is available

from environmental health staff at 707-445-6215 or by email at [envhealth@co.humboldt.ca.us](mailto:envhealth@co.humboldt.ca.us).

## New York

Onsite systems within 500 feet of Lake George and 100 feet of some streams would have to be inspected every five years under a proposal from the Lake George Park Commission.

About 2,700 properties in the lake's watershed would be affected, and seasonal workers would perform the inspections, reported the *Post-Star* of Glens Falls.

Commissioners submitted the proposal to the state for formal rule-making. If the state agrees, the commission hopes to implement regulations by 2023.

Failing systems would be those lacking pretreatment, having surface discharge of effluent or surface discharge of graywater. Other problem signs would be a system that needs pumping more than four times per year and systems that use cesspools or metal tanks.

## NATION

The U.S. Environmental Protection Agency announced \$1.9 billion in grant funding to the State Revolving Funds for water infrastructure projects. Combined with \$7.7 billion from the federal infrastructure law, the state funds will have \$9.6 billion for water projects.

Under the revolving fund program, EPA provides money to states and Puerto Rico for loan programs. Money is released as low-interest loans to people for clean water infrastructure projects. Repaid loans become capital for more projects.

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The Indian Health Service announced a total of \$3.5 billion for tribal water and sanitation projects. The money is broken down into \$700 million increments for fiscal years 2022 through 2026 and comes from the federal infrastructure law passed by Congress and signed by President Joe Biden.

Money will provide water wells and onsite systems for 71,000 Native American and Alaska Native homes. Each \$1 spent on sanitation can save \$1.23 in avoided health care costs for problems such as gastrointestinal disease, respiratory issues and diseases of the skin and soft tissues, said a press release from the health service.

Leaders of the Navajo Nation in the Southwest say failing wastewater systems are an increasing concern on their reservation, reported Arizona Public Radio. More than 15,000 homes on tribal land need sanitation improvements, said the tribe's annual report. **P**



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Learn more at [www.vac-con.com / pro](http://www.vac-con.com/pro)

# '22

# Vacuum Excavation Directory

Model	Style	Type	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type	
 <b>GapVax Inc.</b> 575 Central Ave. Johnstown, PA 15902 888-442-7829 • 814-535-6766 f: 814-539-3617 www.gapvax.com Inquiry@gapvax.com  <b>See Ad - Page 53</b>	VHX	Chassis	Hydro	7.5	Full Opening	50 degrees	750	13 gpm 3,000 psi	28" hg 4,000 cfm	Wet/dry
	HV55 HydroVax	Chassis	Hydro	12.5	Full Opening	50 degrees	400 - 1,400	5 - 40 gpm 2,000 - 5,800 psi	28" hg 5,250 cfm	Wet/dry
	HV57 Series Air Mover	Chassis	Air	17	Full Opening	50 degrees			28" hg 5,200 cfm	Wet/dry
	MC Series Combo JetVac	Chassis	JetVac	5 - 13	Full Opening	50 degrees	500 - 2,000	80 gpm 2,000 psi	18" hg 4,500 cfm	Wet only
 <b>Guzzler Manufacturing</b> 1621 S Illinois St. Streator, IL 61364 800-627-3171 • 815-672-3171 www.guzzler.com sales@guzzler.com  <b>See Ad - Page 45</b>	Guzzler Guzzcavator	Chassis	Hydro	16 or 18	3/4	50 degrees	600	10 gpm 2,500 psi	27" hg 5,200 cfm	Cyclone and baghouse with 60 filter bags
	Guzzler GLE w/air excavation package	Chassis	Air	18	3/4	50 degrees			27" hg 5,200 cfm	Cyclone and baghouse with 60 filter bags
 <b>Imperial Industries Inc.</b> 550 W Industrial Park Ave. Rothschild, WI 54474 800-558-2945 • 715-359-0200 f: 715-355-5349 www.imperialind.com info@imperialind.com  <b>See Ad - Page 79</b>	Hydro 3600 Hybrid Excavator	Chassis	Hydro	15	72	42 degrees	Optional	20 gpm jetter 4,000 psi	27" hg 1,600 cfm	Grit ridder

Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Accessories Available	Other
22' reach, 15 degrees downward pivot	270	Decant, fully opening tailgate, optional sludge pump	Curbside	Yes	4000 cfm	Chassis/transfer case driven	200 cfm (optional)		Winterization Lighting Tool Boxes Cabinets	
17' - 25' reach from center of truck	270	Fully open tailgate, decant; optional auger and sludge pump	Driver's side and curbside	Yes	5300 cfm / 28" hg	Chassis / transfer case driven	200 cfm	200 psi	Winterization Lighting Tool Boxes Racks Cabinets	
Tailgate port-hose; boom optional		Fully opening tailgate; decant; optional auger and sludge pump	Driver's side	Yes	5200 cfm	Chassis / transfer case driven			Lighting Tool Boxes Racks	
26' reach from center	180	Full opening tailgate; decant; optional sludge pump	Front control box near front hose reel	Yes	4,500 cfm	Chassis / transfer case driven			Winterization Lighting Tool Boxes Racks	
8"	320	Dumping, tilting debris body, optional sludge pump	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
		Dumping, tilting debris body, optional sludge pump	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
6" x 10' - 15'	180	Full rear opening door	Remote/user's pocket	Yes					Lighting Tool Boxes Racks Cabinets	Available in code and non-code

# '22

# Vacuum Excavation Directory

Model	Style	Type	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type	
 <p><b>Lone Star Body Systems LLC</b> 1618 West Hwy 84 Mexia, TX 76667 254-472-0852 www.lsbodys.com terry@lsbody.com</p> <p><b>See Ad - Page 26</b></p>	<b>Vac X Pro 8095</b>	Trailer	Hydro	800 US Gallons	36" Manway	25 degree dump	Dual tanks 314 US Gallons combined	8.2 gpm 4,000 psi	NVE 4310 940 cfm	Primary and secondary with dry filter and bag socks
	<b>Vac X 5050</b>	Trailer	Hydro	500 US Gallons under CDL	36" Manway	25 degree dump	Dual tanks 314 US Gallons combined	8.2 gpm 4,000 psi	NVE vacuum pump 20" vac 538 cfm	Primary and secondary
	<b>Rig Vac 1035</b>	Trailer	Hydro	1,000 US Gallons	36" Manway	Built on 4" rearward slope			Fruitland RCF 500 27" 338 cfm	Primary and secondary
 <p><b>Presvac Systems</b> 4131 Morris Dr. Burlington, ON L7L 5L5 800-387-7763 • 905-637-2353 f: 905-681-0411 www.presvac.com sales@presvac.com</p> <p><b>See Ad - Page 80</b></p>	<b>Presvac HydroX Mini</b>	Chassis	Hydro	7	Full Diameter Full Opening		800	18 gpm 3,500 psi Adjustable Flow and Pressure	28" hg 2,650 cfm	Cyclone and inlet filter
	<b>Presvac HydroX</b>	Chassis	Hydro	15	78" Full Opening	90 degrees	1,000	18 gpm 3,500 psi Adjustable Flow and Pressure	28" hg 4,000 - 6,400 cfm	Two large cyclones and inlet filter
 <p><b>Rival Hydrovac Inc.</b> Box 5 Major, SK S0L 2H0 844-467-4825 • 403-550-7997 www.rivalhydrovac.com tdell@rivalhydrovac.com</p> <p><b>See Ad - Page 10</b></p>	<b>Rival T7</b>	Chassis	Hydro Air Option	7	54" Full Opening Rear Door Two Stage Hoist	40 degrees	800	10 gpm 3,000 psi	27" hg 2,650 cfm	Cyclone and cartridge
	<b>Rival T10</b>	Chassis	Hydro Air Option	10	54" Full Opening Rear Door Two Stage Hoist	40 degrees	1,200	10 gpm 3,000 psi	27" hg 3,850 cfm	Cyclone and cartridge

Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Accessories Available	Other
8' boom extends 36" 4" suction	360	Pressure up to 15 psi / Dump	Curbside all hydraulic	Yes	940 / 15	Kubota 60 hp Diesel			Winterization Lighting Tool Boxes Racks Cabinets	Full open rear door / Hydraulic door locks / Blowers up to 1,200 cfm
		Pressure up to 15 psi / Dump	Curbside all hydraulic	Yes	538 / 15	Kubota 49 hp Diesel			Winterization Lighting Tool Boxes Racks Cabinets	Boom / Full open rear door
		Gravity flow	Curbside	No	338 / 15	Hatz Diesel belt drive			Winterization Lighting Tool Boxes Racks Cabinets	1,200 US Gallons / Dump Tank / Larger vacuum pumps
6" x 20'	340	45 degree dump and optional pressure off-load	Passenger side	Yes	185 / 150	Hydraulic	125 – 185	100 – 150	Winterization Lighting Tool Boxes Racks Cabinets	Can be built to DOT/TC Code
8" x 25'	340	45 degree dump and optional pressure off-load	Passenger side	Yes	185 / 150	Hydraulic	125 – 185	100 – 150	Winterization Lighting Tool Boxes Racks Cabinets	Can be built to DOT/TC Code
6" x 20'	342	Tilt and pressure off	Curbside	Yes	2,650 cfm	PTO / Hydraulics	200 cfm Optional	200 psi Optional	Winterization Lighting Tool Boxes Racks Cabinets	All Accessories are included Weights displayed on Wireless Remote Back Up Cameras Standard Retractable Railing Atop Truck
8" x 25'	342	Tilt and pressure off	Curbside	Yes	3,850 cfm	Transfer Case or Hydraulics	200 cfm Optional	200 psi Optional	Winterization Lighting Tool Boxes Racks Cabinets	All Accessories are included Weights displayed on Wireless Remote Back Up Cameras Standard Retractable Railing Atop Truck

# '22

# Vacuum Excavation Directory



Model	Style	Type	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type	
 <b>Super Products®</b> <b>Super Products LLC</b> 130 Boxhorn Dr. Mukwonago, WI 53149 800-837-9711 • 262-784-7100 www.superproducts.com info@superproducts.com	<b>Mud Dog 1600 Vacuum Excavator</b>	Chassis	Hydro Air Option	16	Full Opening Rear	Ejector + 90 Tilt	2,000	18 gpm 3,000 psi	28" hg 5,800 cfm	Cyclone and cartridge
	<b>Mud Dog 1200 Vacuum Excavator</b>	Chassis	Hydro Air Option	12	Full Opening Rear	Ejector + 90 Tilt	1,500	18 gpm 3,000 psi	28" hg 5,800 cfm	Cyclone and cartridge
	<b>Mud Dog 700 Vacuum Excavator</b>	Chassis	Hydro Air Option	7	Full Opening Rear	50	600	11 gpm 3,000 psi	18" hg 3,100 cfm or 27" hg 3,700 cfm	Cyclone and cartridge
 <b>Tornado Global Hydrovacs Ltd.</b> 7015 Macleod Trail S, Ste. 510 Calgary, AB T2H 2K6 877-340-8141 • 403-742-6121 www.tornadotrucks.com media@tghl.ca	<b>F3 EGO-LITE</b>	Chassis	Hydro	10	48" x 52" Hydraulic Door with Hydraulic Latch		1,250	20 gpm 4,060 psi	27" hg 3,800 cfm	Three Stage System
	<b>F4 EGO-LITE</b>	Chassis	Hydro	12	48" x 52" Hydraulic Door with Hydraulic Latch		1,400	20 gpm 4,060 psi	27" hg 3,800 - 6,400 cfm	Three Stage System
	<b>F5 EGO-LITE</b>	Chassis	Hydro	12	48" x 52" Hydraulic Door with Hydraulic Latch		2,000	20 gpm 4,060 psi	27" hg 3,800 - 6,400 cfm	Three Stage System
	<b>F2 EGO-LITE</b>	Chassis	Hydro	7	47 3/4" x 46" Hydraulic Door with Hydraulic Latch		800	10.6 gpm 2,800 psi	27" hg 3,800 cfm	Three Stage System
<b>Transway Systems Inc.</b> 314 Lake Ave. N Hamilton, ON L8E 3A2 800-263-4508 • 905-578-1000 f: 905-561-9176 www.transwaysystems.com sales@transwaysystems.com <b>See Ad - Page 5</b>	<b>Terra-Vex HV50</b>	Chassis	Hydro & Air	12	Hydraulic Full Open Rear Door		1,000	10 gpm 3,000 psi	27" hg 5,000 cfm	Cyclone with washable poly filter
	<b>Terra-Vex HV64</b>	Chassis	Hydro & Air	12	Hydraulic Full Open Rear Door		1,000	10 gpm 3,600 psi	27" hg 6,400 cfm	Cyclone with washable poly filter



Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Accessories Available	Other
8" x 19 - 27'	330	Eject unloading	Dog House	Yes	28" hg 5,800 cfm	Truck engine PTO / transfer case	185 cfm	100 - 175 psi	Winterization Lighting Tool Boxes	Walk-in cabinet 700k BTU heater
8" x 19 - 27'	330	Eject unloading	Dog House	Yes	28" hg 5,800 cfm	Truck engine PTO / transfer case	185 cfm	100 - 175 psi	Winterization Lighting Tool Boxes	Walk-in cabinet 700k BTU heater
8" x 18'	270	Dump unloading	Cabinet	Yes	18" hg 3,100 cfm or 27" hg 3,700 cfm	Truck engine PTO / transfer case	185 cfm	100 - 175 psi	Winterization Lighting Tool Boxes	
8" Topgun x 26'	342	Tornado Concave and Sloped Floor Design	Multifunction Wireless Remote with Auxiliary Levers	Yes					Winterization Lighting Tool Boxes Racks Cabinets	Water Heater: 690,000 BTU. 12 Volt with full diagnostics
8" Topgun x 26'	342	Tornado Concave and Sloped Floor Design	Multifunction Wireless Remote with Auxiliary Levers	Yes					Winterization Lighting Tool Boxes Racks Cabinets	Water Heater: 690,000 BTU. 12 Volt with full diagnostics
8" Topgun x 26'	342	Tornado Concave and Sloped Floor Design	Multifunction Wireless Remote with Auxiliary Levers	Yes					Winterization Lighting Tool Boxes Racks Cabinets	Water Heater: 690,000 BTU. 12 Volt with full diagnostics
8" Topgun x 23'	342	Tornado Concave and Sloped Floor Design	Multifunction Wireless Remote with Passenger Side Controls	Yes					Winterization Lighting Tool Boxes Racks Cabinets	Water Heater: 420,000 BTU. 12 Volt with full diagnostics
8" x 26'	320	Telescopic hoist and optional pressure off	Curbside	Yes		Transfer case	180 cfm	150 psi	Winterization Lighting Tool Boxes Racks Cabinets Roll Up Doors	Fully insulated enclosure for blower and water system, transfer case drive
8" x 26'	320	Telescopic hoist and optional pressure off	Curbside	Yes		Transfer case	180 cfm	150 psi	Winterization Lighting Tool Boxes Racks Cabinets Roll Up Doors	Fully insulated enclosure for blower and water system, transfer case drive

# '22

# Vacuum Excavation Directory

Model	Style	Type	Debris Body Capacity (cu. yards)	Debris Door (dimensions)	Debris Door (dump angle)	Water Tank Capacity (gal)	Water Pump (gpm & psi)	Standard Blower (hg & cfm)	Filtration Type	
 <p><b>TRUVAC</b> by Vactor Mfg., Inc.</p> <p><b>TRUVAC</b> 1621 S Illinois St. Streator, IL 61364 800-627-3171 • 815-672-3171 www.truvac.com sales@truvac.com</p>	TRXX	Trailer	Hydro standard / Air package optional	500 or 800 US Gallons	3/4	50 degrees	200 or 400	5 gpm @ 3,000 psi	15" hg 600 cfm	Standard 5 micron final filter, optional cyclone filtration
	Paradigm	Chassis	Air & Hydro	3.342	3/4	50 degrees	300 Air only: 100	8 gpm @ 2,500 psi Air only: 4 gpm @ 2,500 psi	15" hg 2,200 cfm	Dual cyclone and 5 micron polyester final filter
	FLXX	Chassis	Hydro standard / Air package optional	10	3/4	50 degrees	800	10 gpm 3,000 psi	16" hg 3,200 cfm	Cyclone and polyester final filter
	HXX	Chassis	Air & Hydro	12 or 15	3/4	50 degrees	1,200	10 or 20 gpm 3,000 psi	18" or 28" hg 4,970, 5,250 or 6,176 cfm	Single or dual cyclone and polyester final filter
	APXX	Chassis	Hydro standard / Air package optional	12 or 14	3/4	50 degrees	1,200	10 or 20 gpm 3,000 psi	27" hg 5,250 cfm"	Cyclone and polyester final filter
 <p><b>Vac-Con, Inc.</b> 969 Hall Park Rd. Green Cove Springs, FL 32043 904-284-4200 www.vac-con.com info@vac-con.com</p> <p><b>See Ad - Page 35</b></p>	Mudslinger MS800	Trailer	Hydro	4		55 degree dump angle	325	4 @ 4,000	16" hg 990 cfm or 1,190 cfm	Dry filter package
	Mudslinger MST800	Chassis	Hydro	4		55 degree dump angle	325	4 @ 4,000	16" hg 990 cfm or 1,190 cfm	Dry filter package
	Mudslinger MXT	Chassis	Hydro	3 - 16		50 degree dump angle	800 - 1,300	11 @ 2,200	200" H2O 8,000 cfm	Single stage separator
	X-Cavator CXT	Chassis	Hydro	9, 11 and 12	Flat-style rear door	50-degree dump angle	800 - 1,300	20 @ 4,000	200" H2O 8,000 cfm	Dual cyclone
	X-Cavator EXT	Chassis	Hydro	12		50-degree dump angle	1,500	20 @ 4,000	28" hg 6,176 cfm	Cyclone separator; 26" pleated cartridge final filter

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Boom Size (ft.)	Degree of Rotation	Offloading Type	Controls Location	Wireless Y/N	Vacuum (CFM/PSI)	Power Source	Compressed Air Flow	Compressed Air Pressure	Accessories Available	Other
3" or 4" diameter	180	Dumping, tilting debris body	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
6" diameter 5' extension	225	Dumping, tilting debris body	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
6" diameter	340	Dumping, tilting debris body optional sludge pump	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
8" diameter 7' extension	320	Dumping, tilting debris body	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
8" diameter	320	Dumping, tilting debris body	Curbside	Yes					Winterization Lighting Tool Boxes Racks Cabinets	
9' boom with 16' x 4" boom hose	270	Full open hydraulic dump door and hydraulic dump hoist	Passenger side	Yes	990 or 1,190	49, 74 or 114 hp Kubota diesel engine			Winterization Lighting Tool Boxes Racks	
9' boom with 16' x 4" boom hose	270	Full open hydraulic dump door and hydraulic dump hoist	Passenger side	Yes	990 or 1,190	49, 74 or 114 hp Kubota diesel engine			Winterization Lighting Tool Boxes Racks	
6' boom with 8" vacuum intake hose	270	Full open rear door	Passenger side	Yes		Hydrostatic Drive; Vac-Con 3-stage fan; PD blowers available			Winterization Lighting Tool Boxes Racks	
10' boom with 8" vacuum intake hose	270	Hydraulically-driven scissor lift	Passenger side - centrally located	Yes	5,775 cfm	Hydrostatic Drive; PD blowers or 3-stage fan			Winterization Lighting Tool Boxes Racks Cabinets	
7' boom with 26' reach	310 horizontally, +45/-22 vertically	Hydraulic scissor lift	Passenger side	Yes		Transfer case; PD Blower			Winterization Lighting Tool Boxes Racks Cabinets	Operator enclosure, heat or AC climate controls



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**Joan Koehne**  
Contributor

Joan Koehne, AKA the Wonder Writer, is a content marketing specialist with college degrees in journalism and marketing.

# Does the Pumping Stop When the Phone Rings?

**Solid support back at the office will slow the interruptions and keep you running down the road**

By Joan Koehne

**J**eff Logan describes his office staff as the heartbeat of his business. From making the pivotal first contact with a customer to arranging a work schedule, dispatching the fleet and handling the money, a smooth-operating office staff is essential to a plumbing company's success.

"We couldn't do it without them. We wouldn't want to do it without them," says Logan, owner of Scenic City Plumbing in Hixson, Tennessee.

Logan remembers his early years in the plumbing business, when he didn't have the support of an office staff. "When I started out in 1987, it was just me and a checkbook and a book that kept my helper's hours," he says. "I was the one who was answering the calls, going on the calls, doing the jobs, paying the bills, sending out the invoices and doing all the paperwork. There wasn't a lot starting out, but still, it was enough to keep me busy in the evenings."

Trying to wear so many hats was a challenge. Logan remembers working under a house when the phone rang. He had to stop what he was doing, answer the phone, take notes and determine how to handle the job.

It was a headache, but it was the only arrangement he could afford. He set aside time in the evening or during the workday to catch up on paperwork. When the workload was too demanding, he hired a secretary part time. Scenic City Plumbing hired a full-time office manager a few years later.

"I didn't just jump in and hire a bunch of people," Logan says of his early years in the industry. "It was definitely a slow and gradual building process."

## FINDING THE GOOD PEOPLE

The inability to handle back-office operations is where most new businesses fail, says Dave Kaster, principal at Fidelis, a certified business advisory service in Green Bay, Wisconsin.

"It doesn't mean a plumber can't do that, but you have to have a system to handle it," Kaster says.

To make it work, a plumber needs the right software plus the right training. Knowledge of accounting, finance and insurance are key. "More than anything else, you need some sales skills," Kaster says. "You need to understand what a sales cycle is and how to spin off of a sale from one client to the next one."

Before you hire an office assistant, Kaster recommends considering two things. First, are you good at administrative work? If not, then finding someone to handle these responsibilities makes sense. Second, are you maxing out your productive time to 30-35 hours a week in the field?

"Obviously, if you don't want to work 80 hours a week, you need to

hire someone," Kaster says. When looking for an office employee, Kaster recommends hiring someone with good communication skills. "Someone may be a wizard on the computer ... but they may turn people off if they're talking to them on the phone."

Scenic City Plumbing looks for office workers who are quick thinkers capable of working in a fast-paced and sometimes chaotic environment. "Sometimes the phones get so crazy," Logan says. "You have four lines ringing at the same time."

**“ I didn't just jump in and hire a bunch of people. It was definitely a slow and gradual building process. ”**

**– Jeff Logan**

Being sympathetic to the customers' concerns is a good starting point for phone conversations. "They're not calling to say 'hi'; they have problems," Logan says. "We start out, 'I'm sorry to hear that.'"

The office work at Scenic City Plumbing is managed by Logan's wife, Jacqui Logan (company bookkeeper for 30 years); his sister, Susan; and niece, Joslyn. Jeff Logan trains each new hire, sharing information about water heaters, pressure-reducing valves, clogged drains and so on until the employee has a basic grasp of terminology for troubleshooting. Staff members watch YouTube instructional videos to learn more about what the plumbers are doing in the field. All of this training helps them diagnose problems and answer customers' questions over the phone.

"Our goal for customer service is to respond as quickly as possible and to be sympathetic and attentive to their needs," Jacqui Logan says. "And of course, to thank the customer for choosing us and trusting us to handle their problems."

## MORE THAN JUST PEOPLE

In addition to good people, you need good office equipment, including software, Jeff Logan says. Scenic City Plumbing uses Smart Service software

*(continued)*

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## BUILDING THE BUSINESS



Scenic City Plumbing co-owners Jeff and Jacqui Logan stand at their shop in Hixson, Tennessee. When Jeff Logan started his company in 1987, it was just him, but over time he learned he needed a dependable back-office staff and software to make his business even better. (Photo by Martin Cherry)

(My Service Depot) for scheduling, dispatching and billing. The company also uses Fleetmatics software to track the location of the technicians.

"That's a real help. That way we can see exactly where the guys are at and how long they've been there," Logan says. The software also sends alerts for truck maintenance, like tire rotations and oil changes.

### BRINGING IT TOGETHER

Customers are typically unaware of the behind-the-scenes, inner workings of a plumbing company. They just want to feel good about the plumbing job once it's completed, Kaster says.

"For any business owner, the main question isn't 'How can I make more money?' It should be customer-focused: 'How can I make your life easier? How can I reduce your stress?'" Kaster says.

A competent and customer-focused office staff closes the loop to great service overall.

"You can be the greatest plumber in the world, but if you don't have the service — the back office to make sure everything is functioning smoothly — then it's going to be a constant stress for you," Kaster says. **P**

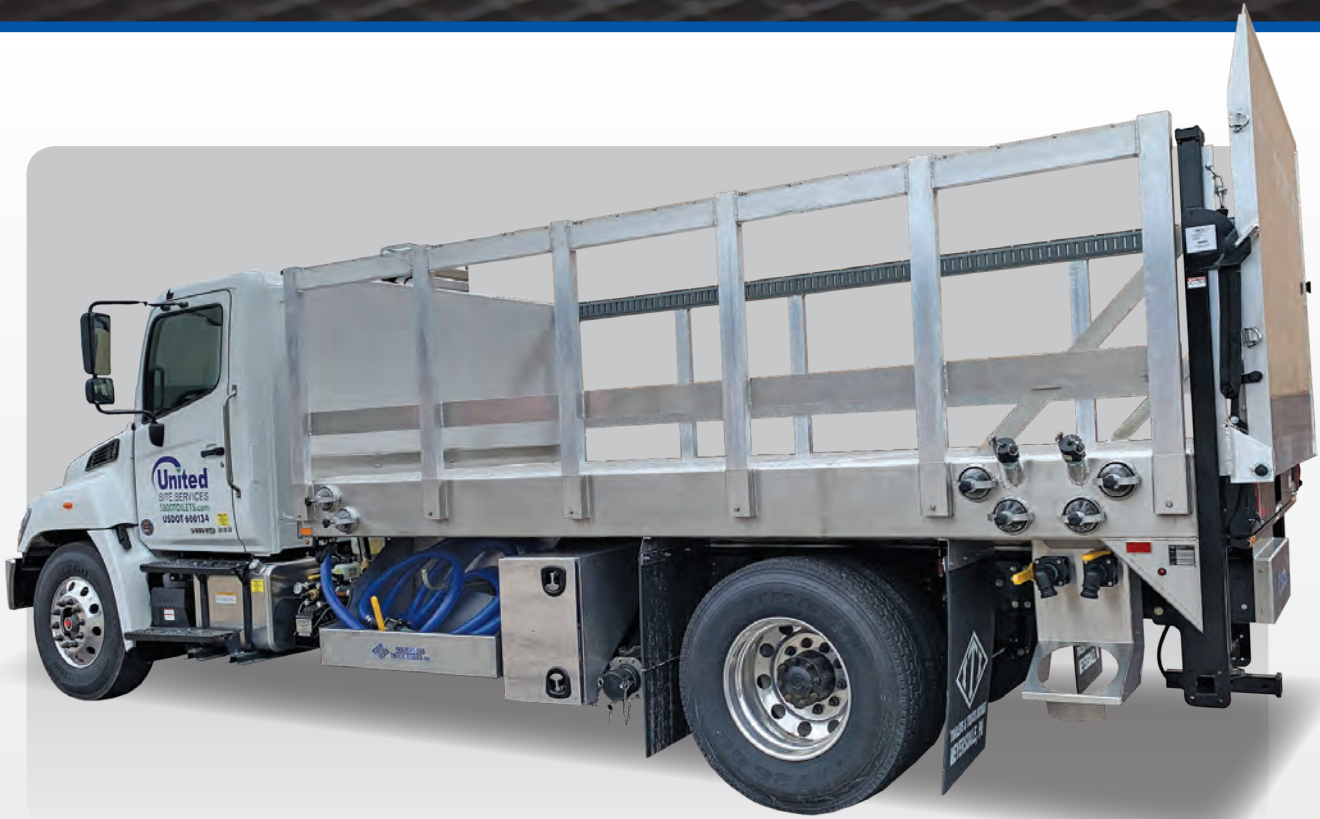
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**Jim Anderson, Ph.D.**  
*Contributor*

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

# Your Local Pub and Grill Poses Onsite Challenges

**Before you belly up to the bar, work with your tavern and restaurant customers to develop best practices for wastewater treatment**

By Jim Anderson, Ph.D.

**I** had a question recently about what would be the “best” system to treat wastewater from a restaurant. This led me to thinking about how things have changed concerning how we look at and have dealt with systems serving restaurants or bars.

Back in what I like to term the “old days,” there were a lot of anecdotal reports from service providers that restaurants they serviced with conventional septic tank soil treatment systems had high rates of failure. As we turned our attention to these systems, one of the first things that became apparent was septic tank effluent from tanks sized to handle residential wastewater were much higher in organic matter than typical, actually on the order of three to four times or more. In addition, it was noted restaurants had large levels of oil and grease in their effluent, even with the presence of grease traps.

Initial recommendations were to increase the size and number of septic tanks serving the facility. Doubling tank capacity was the standard rule of thumb. This seemed to work for some restaurants and not for others. This just highlighted the difficulty to define a typical restaurant to base designs on. Each restaurant has its own set of unique customers and the way they run their operation. It makes designing, installing and maintaining systems a challenge. So, the answer to what is the best system depends on several factors in the business itself in addition to the soil and site characteristics.

## REDUCE PEAK FLOWS

One problem I often see with struggling restaurant systems is the size of the area available for expanding or moving the soil treatment portion of the system. By the time you take out the area dedicated to parking, food deliveries, garbage pickup and setback requirements, available area is limited. This problem is exacerbated if the restaurant has difficult soils and the daily flows have been underestimated, resulting in the soil treatment area being undersized. In these situations, the solution is going to be some type of advanced pretreatment and selection dictated by what imposes the smallest footprint on the site.

Actions can be taken as part of the restaurant operation to reduce daily and peak flows and the amount of organic material, fats, oil and grease delivered to the system to improve system efficiencies. Ideally, effluent from the system pretreatment components to the soil treatment area should have a biochemical oxygen demand about 170 mg/L; total suspended solids less than 60 mg/L and fats, oil and grease at 20 mg/L.

It is important for restaurant operators/owners to control or reduce flows by using as many low-flow, high-efficiency fixtures as possible. They need to

➤ **A regular training program for new and current employees is important. This is key with seasonal employees who are unfamiliar with proper care and usage of septic systems.**

recognize the system has a finite capacity and anything done to reduce flows (both daily and peak) will protect the system and increase longevity.

It is also important the fixtures are kept in good operating condition. How many times have you visited a restroom to find the faucet or toilet running continuously? Any additional water is going to be detrimental to long-term operation.

Where daily flows vary widely throughout the week, adding storage capacity and then timing release of effluent through the week to even out peak flows is often a good strategy. Where I live, restaurants utilizing onsite systems are often closed one or two days a week with very large flows on Friday fish fry night and Saturday prime rib special night. Storing and controlling daily flows to spread flow throughout the week can keep the system from being stressed during busy periods.

## A RECIPE FOR SUCCESS

Actions can be taken in the kitchen to reduce BOD and FOG levels. The grease trap should be large enough and regularly maintained to capture oils before they move into the treatment system. Use of degreasers in cleaning that are washed down the drain and through the system should be minimized. Simple things such as cleaning pots and pans during times of lower flows and avoiding peak business hours help maintain the grease trap.

All of this requires the cooperation and diligence of the owner/operator, so developing a good client relationship is important.

In home systems I often highlight that garbage disposal units are a problem since they introduce large quantities of undigested food bacteria that have to break down in the system, large quantities of water are used, and the material is ground up finely which can increase the TSS in the effluent. Obviously, it is difficult not to have a garbage disposal in a restaurant, but the amount of material delivered through it can be reduced by scraping plates before rinsing.

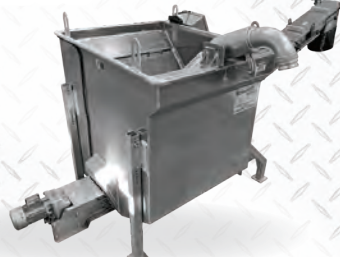


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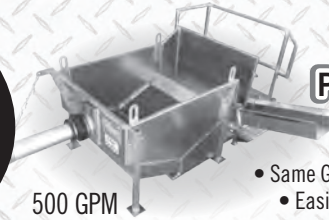
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**TRAIN THE WORKERS**

It is important that all employees and the owner are on the same page relative to activities necessary to help protect the system and the reasons why. A regular training program for new and current employees is important. This is key with seasonal employees who are unfamiliar with proper care and usage of septic systems.

As a service provider, it is important to have a regular monitoring and maintenance program for system components. The frequency of maintenance activities will depend on the components present, and flows generated. Annual or seasonal visits may be in order. Where additional pretreatment or storage tanks are part of the system, visits will depend on operation requirements of each component.

Additional pretreatment components may be aerobic treatment units or media filters if effluent requirements cannot be met through increased septic tank capacity. So the answer is there is no "best" system other than it is the one that can handle the flow requirements for the restaurant. **P**

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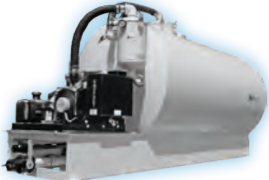
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# Educate Customers and Protect Our Image

We must crack down on pumpers who cut corners and give a bad reputation to the wastewater industry



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

**Name and title or job description:** Walter Clay Kucharski, president

**Business name and location:** Walt Kucharski Septic Service. Our office is in Richfield, Ohio, and we serve eight counties.

**Services we offer:** Residential and commercial septic tank pumping, bulk hauling, restaurant grease trap pumping, service provider inspections, portable restrooms.

**Age:** 47

**Years in the industry:** My father, Walt T. Kucharski, started the company in 1960. I took over in 2011 and incorporated the business.

**Association involvement:** We've been a member of the Ohio Onsite Wastewater Association for three years.

**Benefits of belonging to the association:** Contact with people in the industry statewide and the education and training that are offered are substantial benefits. There's an annual conference in Columbus. Networking is huge. If you're not going to the meetings and classes, you're missing out.

**Biggest issue facing your association right now:** Getting information to all the haulers is difficult because many don't use technology. And if the Association would offer things like health care plans, workers' compensation, and commercial insurance policies tailored to our industry I think more people would join.

**Our crew includes:** Kevin Slaughenhaupt is a driver/technician. My wife Laurel does office administration.



Laurel and Walt Kucharski, 2009 Kenworth with a 5,000-gallon aluminum tank and a National Vacuum Equipment pump.

**Typical day on the job:** My day starts around 4 or 5 in the morning. Grease traps are cleaned first, then we move on to commercial and residential septic cleaning. Every day is different. Today we pumped out a research yacht which came into port. My phone is always ringing from vendors calling or daily emergencies. We work in tandem with many service providers and other haulers. It might be passing along emergency calls to each other or working together on especially large projects. We really try to keep the relations positive in our area. There is plenty of work to go around.

**The job I'll never forget:** A milk truck broke down and sat for several weeks before the owner got approval to move it. I pumped 4,000 gallons of curdled, spoiled milk. I used to love cheesecake but have never eaten it since. Another unforgettable job was from a prominent chocolate factory in Cleveland. The pumps broke and the place flooded with chocolate. I pumped for several days — just pure chocolate. Of course this happened at Easter.

**My favorite piece of equipment:** A few years ago I purchased a 2009 Kenworth with a 5,000-gallon tank. Having that capacity really opened up our commercial side — fewer loads, higher volume. We just pulled out 35,000 gallons from a barge on the river and since we now have two 5,000-gallon trucks we were able to do it in three hours. The truck has been a pain in repairs, but it makes the money back every time it goes out.

**Most challenging site I've worked on:** We pumped a grease trap for a downtown casino. The trap was in a parking garage with a 7-foot clearance over 750 feet away. It was very hard to access. It took two of us and we had to bring a pickup truck with extra hose. We're usually the hauler the other haulers give jobs to. We do long-distancing pumping so we have extra pumps and always carry over 200 feet of hose on all our trucks.

**Oops, I wish I could take this one back:** We work with a nearby housing development with 141 homes. The residents don't understand their very unique system (Orenco Systems' ProSTEP) that only they have in all of Northeast Ohio. They were under the impression they didn't have to clean their tanks and there was nothing they had to do. Trying to get them to listen to recommendations and maintain their tanks has been challenging. So we get a lot of weekend emergency calls. We feel obligated to do it because they're in our neighborhood and it's the neighborly thing to do.

**The craziest question I've been asked by a customer:** A contractor called and asked if we could help him with a dead body. A man who had died while in a hot tub had been there for many days before being



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Technician Kevin Slaughenhaupt, 2013 Peterbilt with a 5,000-gallon aluminum tank and Fruitland pump.

discovered. The contractor wanted us to pump all the “goo” in the hot tub. Another time a chicken slaughterhouse wanted us to remove all the waste. Fortunately, both of these jobs are considered hazmat so we could not do them.

**If I could change one industry regulation, it would be:** Cracking down on the pumpers who cut corners, don’t get properly

licensed, illegally dump in fields, undercut prices. It makes it really hard for the ones who are doing it correctly.

**Best piece of small business advice I’ve heard:** Knowledge is power. My dad always said, “It doesn’t matter what profession you are in, become a master in it, do the best you possibly can.”

**If I wasn’t working in the wastewater industry, I would:** I was the only son so I really never thought about doing anything else. I went to college, played football, but always knew I would return to the septic business.

**Crystal ball time – This is my outlook for the wastewater industry:** Education for homeowners is so important — making them aware of the importance of maintaining their systems and educating them on the costs associated in coming to their home (payroll, fuel, disposal, insurance, etc.). This is not a well-respected industry and I would like to see that change. We are essential employees — the pandemic proved that. **P**

- Compiled by Betty Dageforde



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[www.azowra.org](http://www.azowra.org); 928-443-0333

## Arkansas

Arkansas Onsite Wastewater Association  
[www.arkowa.com](http://www.arkowa.com)

## California

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[www.cowa.org](http://www.cowa.org); 530-513-6658

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## Kentucky

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Mississippi Pumpers Association  
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Missouri Smallflows Organization  
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## New England

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Pennsylvania Association of Sewage Enforcement Officers  
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## NATIONAL

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

National Onsite Wastewater Recycling Association  
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and our 1 1/4-inch hose comes equipped with 1 1/2-inch slip cuffs on both ends for maximum flow. In addition to the new models, the swivel has been improved on the entire product line. The new swivel design still allows for the connection of multiple hose sizes by using the inside and the outside of the housing, but a greater gradual taper has increased the amount of compatible inlet hose cuffs. **800-269-7335; www.coxreels.com**

### Hannay Reels VAC-5000

The **VAC-5000** from **Hannay Reels** combats tangled, unorganized hose. Designed to handle 2-through 4-inch I.D., the heavy-duty reel picks up and rewinds bulky hose effortlessly, according to the maker, with either a gear-driven crank rewind or a chain-and-sprocket drive powered by an electric, hydraulic or compressed air motor. With a narrow footprint and a single wrap configuration, it provides simple, flexible transverse mounting options on vehicle cabs, tanks or frames. No matter where the reel is mounted on the vehicle, operators can maintain easy access to the hose from both sides. **877-467-3357; www.hannay.com**



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The **Dynablast HV420F-12VRED** hydrovac water heater produces 420,000 Btu with an output temperature of 175 degrees F at 5 gpm, making it suitable for colder climates and improved digging in clay-filled areas. All models come with ETL certification for safety, which also includes certification on the coil for higher efficiency and heat transfer, a stainless steel target plate for increased coil life and a design with serviceability in mind utilizing momentary override control. A 19-by-19-inch footprint makes it suitable for compact installations. **905-867-4642; www.dynablast.ca**

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The **Soil Surgeon** hydroexcavating tool fits any sewer combination truck equipped with a telescoping 6- or 8-inch boom. The tool has a 1-inch water connection. The operator controls water pressure and power through truck controls. It has a 6-foot Tuff-Tube with handles to guide the unit down for potholing or side to side for trenching. Six jets boring inward cut the soil, while six boring outward bring the tube down. **949-363-1401; www.soilurgeoninc.com**



### Vector Mfg. H.A.L.O.

The **H.A.L.O.** hands-free accessory light option from **Vector Mfg.** was designed for safety and efficiency, according to the maker. Explosion-proof, waterproof and hands-free, it is operator-oriented and may be used for many applications. It offers up to 14 hours run time and includes a 50-foot retractable corded reel. It is available on Vector's 2100i, Water Recycler, 2100i CB, iMPACT and Ramjet Truck Series. **815-672-3171; www.vector.com**

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**Imperial Industries Hydro 3600 Hybrid Excavator**

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**Rival Hydrovac T7 Tandem**

The **T7 Tandem** from **Rival Hydrovac** was designed primarily to be loaded with debris and driven within legislated road limits with most types of debris on board. The unit comes standard with a

scale that reads real-time weights both in the cab and on the wireless remote to confirm weights prior to travel. It is operator-friendly and the operating system is engaged through one PTO switch. The remainder of the operation occurs from the rear panel or the wireless remote. Components are of a high

performance design and the unit will dig at levels competitive to large units. **403-550-7997; www.rivalhydrovac.com**

**Tornado Global Hydrovacs F4 ECO-LITE**

The **F4 ECO-LITE** from **Tornado Global Hydrovacs** has a 12-cubic-yard mud tank and holds 1,550 gallons of freshwater. The unit is more than 7,000 pounds lighter than the company's older models and offers more than double the payload. The boom has a 342-degree rotation and 26-foot reach. The smaller **F3 ECO-LITE** is a 10-cubic-yard, 1,250-gallon tandem-axle unit that more than doubles older payload capacities. It features an 8-inch boom and 3,800 cfm blower. **877-340-8141; www.tornadotrucks.com**



**Transway Systems Terra-Vex HV65**

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**Vac-Con Mudslinger MS800**

The **Mudslinger MS800** trailer-mounted hydrovac from **Vac-Con** offers the power, suction and capacity of a truck hydroexcavator on a pull-behind trailer. It includes the choice of Tier 4 diesel or gas engine options

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**Vacall AllExcavate2**

**Vacall AllExcavate2** machines offer high-pressure water and air jetting and standard intelligent controls, plus easy startup and operation, according to the maker.



Water pumps generate 24.5 to 120 gpm and pressures to 3,000 psi with optional air excavation at 185 cfm and dual psi of 110 and 150. The water system, wand, control panel, tools and worker apparel are protected in a heated compartment for cold weather operation. A standard AllSmartFlow CANbus intelligent control system allows for precise boom and reel adjustments, with a programmable LCD display that monitors engine, water- and airflow and vacuum performance. Aluminum water tanks carry 1,000 to 1,300 gallons. Galvanized debris tanks are available with 10- and 13-cubic-yard capacities. They use one engine to power the chassis and excavation functions. **800-382-8302; www.vacall.com**



**Vermeer VXT300**

**Vermeer's VXT300** truck vac is outfitted with an 8-cubic-yard spoil tank, 6-inch dig tube and the ability to carry up to 800 gallons of water so crews can maximize productivity on the job. It is designed with a low overall height of 11.5 feet to efficiently transport spoils from the job site to the dumpsite. The vac truck is built on a Kenworth T370 truck chassis

with a 350 hp diesel engine and a six-speed automatic 3,000 RDS Allison transmission. The truck's PTO drive powers its Roots 624 vacuum blower with a maximum flow of 3,500 cfm and maximum suction of 18 inches Hg. The water pump capable of producing 10 gpm at 3,000 psi for productivity on large jobs as well as when digging at deeper depths. **800-837-6337; www.vermeer.com**

**JET/VAC COMBO UNITS**

**Bucher Municipal North America FlexLine**

The **FlexLine C120** and now also the more agile **C60** from **Bucher Municipal North America** are available.



The combination sewer cleaners are used for preventive cleaning, emergency cleaning of mains, septic, collection tanks and hydroexcavation. They offer 8- and 15-cubic-yard capacities, 7.2 and 14.5 psi, a jetting hose reel with more than 492 feet of capacity, a 5-inch suction hose with 7-foot extension, a hydraulic end cover that opens upwards, automatically minimizing obstructions on roads and sidewalks, two control panels placed for easy operation, and a 5,100 psi at 5 gpm hydroexcavation pump. **704-658-1333; www.buchermunicipal.com/us/en**



**Hi-Vac Aquatech B Series**

The versatile **Aquatech B-Series** from **Hi-Vac** goes from sewer cleaner to hydroexcavator with no loss in performance, according to the maker. Its rear-mounted hose reel allows operation from the safest area possible regardless

of manhole location, and provides an unobstructed view for the driver. The rear-mounted reel also allows 180-degree hydraulic articulation. It has a durable horizontal transfer case that delivers consistent power with fewer parts and less downtime. A high-performance 27-inch Hg blower means faster, more productive vacuum loading. The one-piece vacuum hose is designed without multiple 90-degree angles to eliminate clogs. A 360-degree, top-mounted boom design allows for greater payload capacity and fewer returns to the dumpsite. It operates at 84 dBA, which is well within OSHA's 90 dBA/8-hour time-weighted exposure limit. **740-374-2306; www.aquatechinc.com**

**Super Products Camel Max Series**

The versatile **Camel Max Series** combination sewer cleaner from **Super Products** comes in a variety of model configurations: 900 Dump, 1200 Dump, 1200 Eject and 1200



Wastewater Recycle. All 1200 models come standard with a high dump subframe, eliminating the need to back up a ramp for debris removal. The 1200 Dump is capable of dumping into a 42-inch container while maintaining a low overhead height and a low center of gravity for increased stability. The 1200 Eject allows operators to have the only controlled way to dump safely into a 48-inch container without additional containment products. The 1200 Wastewater Recycle enables operators to clean sewers without freshwater, and is capable of cleaning nearly 3,000 feet of sewer pipe per day and saving 60,000 gallons of water per week. **800-837-9711; www.superproducts.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 reduce consumption and 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**

**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



*(continued)*





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27 inches Hg and maximum pressure of 35 psi. Dual fans and twin ballast ports are designed to efficiently cool the pump. The solid housing with deep cooling ribs allows greater heat transfer from the vacuum chamber. Aluminum fans and shrouding work like a heat exchanger. Multiple manifold and drive options are available for truck, trailer or stationary applications. **800-387-7763; www.presvac.com**



## Wallenstein Vacuum 753 Series

The **753 Series** vacuum pump from **Wallenstein Vacuum** is designed for longer service life, incorporating wide vanes that allow up to an inch of wear. It provides 422 cfm airflow at 1,200 rpm and vacuum levels up to 28 inches Hg. Options include air-, liquid- or dual-cooling systems where air injection is combined with liquid

cooling. A pump-flushing port is included on the top valve for convenient maintenance. The quick-access housing end plate allows for easy internal inspection with no bearings to pull. Oil lubrication is via a mechanical piston pump driven by shaft rotation or available with a sight-feed valve oil regulator system using vacuum/pressure to draw oil with no moving parts. **800-801-6663; www.wallenstein.com**

## Westmoor Condé PowerPaks

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



## WATER PUMPS



## Cat Pumps Models 2560 and 2565

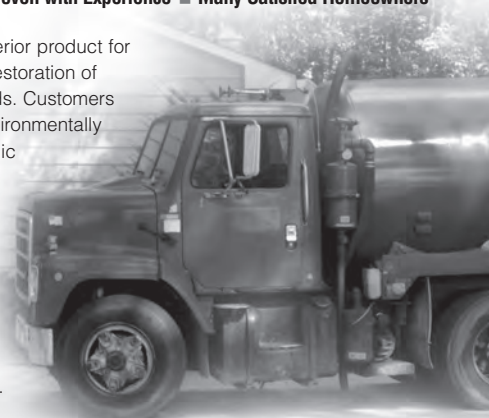
**Cat Pumps Models 2560** (16 gpm at 3,000 psi) and **2565** (20 gpm at 2,500 psi) hydroexcavating pumps are constructed for continuous-duty applications. BH versions have a machined-bearing cover to mate with Cat Pumps' 76SAEC.25FR hydraulic bell housing, allowing the 2560BH and 2565BH to be directly driven by an SAE C hydraulic motor. The compact direct drive allows for a space-saving footprint, and is simple to install and maintain, according to the maker. **763-780-5440; www.catpumps.com P**

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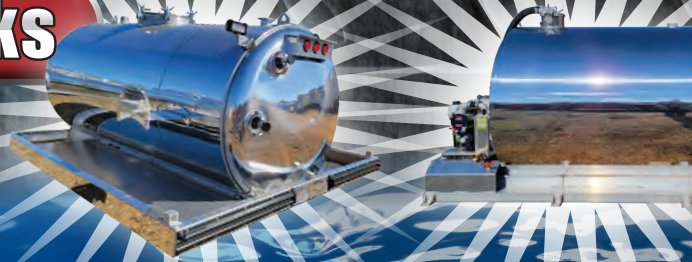
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The new stainless steel GP Blaster nozzle from General Pump has a high-impact design that offers superior cleaning, further enhancing the effectiveness of a spray system. The Blaster's elongated body cleans surfaces from longer distances and is also available without the elongated body as a rapid-change nozzle holder, according to the maker. **888-474-5487; www.generalpump.com**



**Southland Tool Cow Udder multi-hose adapter**

The Cow Udder from Southland Tool is a multi-hose adaptor for suction/vacuum machines. Its 8-inch flange clamps directly to a 8-inch suction hose or tube. The standard is a flat flange for Vactor or Vac-Con. It is also available in Band-Loc in either male or female. The Udder comes



with four inputs: 3-inch male and female camlock ends and also 2-inch male and female camlock ends. Multiple hoses can be used if needed or leave one open for better airflow. Each of the inlet ports also comes with its own end cap. It is all steel with threaded ends and aluminum camlocks, weighs 10 pounds and is compact. **714-632-8198; www.southlandtool.com**

*in the*  
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"The HydraBore is basically one of our Power Booster units with a built-in water jetting ring," says Scott Spear, chief operating officer of Pressure Lift. "It is effective on especially dirty tanks to help the operator get it clean faster."

The Power Booster itself is a vacuum-assisted pumping nozzle designed to simplify the transfer of liquids and highly viscous materials. It provides increased vertical lift and distance capability while pumping a wide range of materials. According to Spear, the time a technician has to spend on the typical job, with a unit pumping approximately 2,000 gallons of waste, at any depth from 5 to 500 feet, averages less than 20 minutes. HydraBore units are available in 3- and 4-inch sizes, with special orders of 6- and 8-inch units available.

"It cuts maintenance costs by keeping the vacuum pump cooler, thus minimizing oil consumption, keeping the vacuum body cooler, and providing shorter pump cycle times," says Spear. "That means it also minimizes the potential for back injuries associated with working, or burping vacuum hoses while pumping."

The unit offers one-man operation and faster loading times. It also reduces back injuries from full hoses. It works with industrial-size pressure washers and jetters to suspend materials while pumping.

"Placed in-line beginning at the end of the vacuum hose, it cuts operational time when pumping grease traps, sand traps, storm vaults, lift stations and septic tanks, especially those with difficult access, long hose runs and deep elevation changes," says Spear. **866-504-6596; www.pressurelift.com P**





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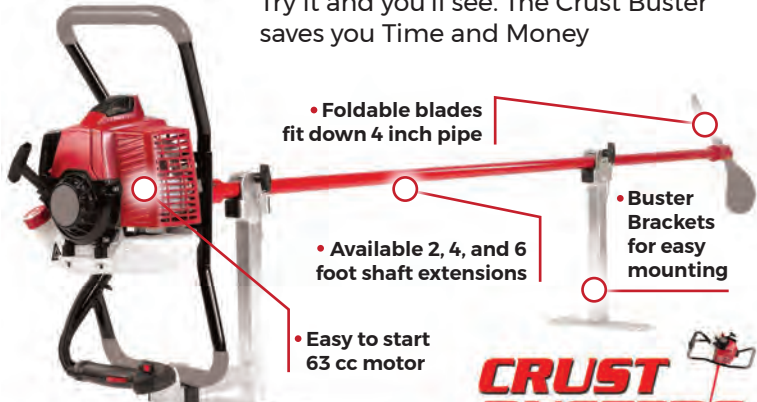
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Portable Toilet business for sale in sunny south Florida any question please call 786.488.4276 or email @ [info@express-portable.com](mailto:info@express-portable.com) 2021 international, 2020 international, 2019 ford F550, 2018 ford F550, 2018 chevy 3500, 2017 ford F550. 1-8 stall trailer, 1-6 stall trailer, 2-4 stall trailer, 2-3 stall trailer, 1+2 ada trailer. All in new condition. (P09)

[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)

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**New & Used TERRALIFT machines**  
Terralift parts and beads. Aerratech Solutions LLC, 413-394-4567 or cell- 413-441-1140. Call and learn how the TERRALIFT machine can earn your business an **extra \$250,000 in revenue a year.** (PBM)

## EXCAVATING EQUIPMENT



**2011 Cat 303. 5D CR Mini Excavator.** 1' and 2' buckets. Dependable machines; runs great! Hours: 2,000 approx. **636-583-5564.** (P09)



**2009 Ditch Witch RT40 Trencher;** 42HP Deutz Diesel; 6-way back fill; 48" Stinger, Alligator II Rock chain, Hours: 1,802. **636-583-5564 (P09)**

## HAZARDOUS WASTE UNITS

2006 IH 9200i with sleeper and Progress 2,850 U.S. gallon, Aluminum, D.O.T. 412 certified, vacuum tank with Wittig RFL100 vacuum pump and 3" transfer pump. Stock# 2897C [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)

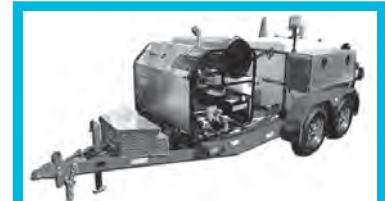
2000 International with Cusco High Dump 27", DOT Certified, 412 with vacuum pump, pressure offload as well. Cummins Power with low miles and hours. KLM Companies 617-909-9044. (PBM)

## HYDROEXCAVATING EQUIPMENT



**Lone Star Body Systems Vac X 8050**  
Hydro Excavator trailer , 800 Waste / 314 fresh water , Kubota Diesel driven, All Hydraulic drive ( no belts ) 538 CFM , Tank dumps , Trailer axles Dual 7k Torsion axles , 16 ply heavy tires, High ground clearance to jump curbs, Wash Pump General 8.2 GPM @ 4,000 PSI, 14,000 GVWR. **\$92,500 IN STOCK NOW. Located in Mexia TX 254-472-0852 off. (P09)**

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**Trailer mounted US Jetter.** With Hatz Diesel. Just performed complete maintenance on unit. Jetter only has 400 ORIGINAL hours and is in pristine condition. Garage kept. **Call John at 661-802-9656. (P09)**

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2018 SPARTAN ULTIMATE WARRIOR DIESEL remote included, 4000 psi, 6000 gallon tank, 18 gallons per minute, 500 feet of half inch hose. Good Shape. 600 hours, half of which are from recycling during winter months while traveling. \$35,000 or best offer. 402-612-6598. sbwichert@icloud.com (P09)

2001 Harben DTH-300 jet trailer with a Harben radial piston diaphragm pump 16 GPM @ 4,000 PSI driven by a Hatz diesel engine **(888)VAC-UNIT (822-8648)**  
**www.vsirentalsllc.com. (PBM)**

1999 Harben 4016-300 Jet Trailer (Stock #200SC) **(888)VAC-UNIT (822-8648)**  
**www.vsirentalsllc.com. (PBM)**

## JETTERS – TRUCK



**2000 Sterling Truck** with rotating extendable reel and 2500 gallon water tank. A 1 inch 800 foot hose, with several jetting heads and root cutting attachment. **Asking \$40,000 negotiable. (516)437-5343 (P09)**

## JET VACS



**1999 Sterling LT7500** Vactor 2100 Vac Truck. Cat C12 Motor. Allison Automatic Transmission, Air Conditioning, Cruise Control, PTO, Hydraulic Dump body, 12 Yard Dump Body, 824 Roots Blower, Water Pump 3000 PSI one-inch Front Sewer Cleaning Hose, Extra Storage Toolbox, Truck always maintained runs excellent ready to drive cross country. Good Tires, Front Axle 26,000 Rear Axle is 46,000. Truck has original mileage 47,449. Vin Number is 2FZNCEDB3XA982114 .  
**Price 47,995.00 Phone is 561 722 5048 Tommy or Sean 561-719-9361. (P09)**



**Your Environment's Solution - 2002**  
Aquatech Jet Vac 289,000 Miles-  
Good solid working truck. **Asking \$37,500.00 (obo) Dalton Seagraves 407-426-8803 (P10)**

Pre-owned Vactor 2100 combination jet/vac unit with PD blower And 10 cubic yard debris tank. Mounted on a 2002 International 7400 cab & chassis. Stock # 1138C **(888)VAC-UNIT (822-8648)**  
**www.vsirentalsllc.com. (PBM)**

2021 Freightliner 114SD cab & chassis with VACALL AJV1215 combination j/vac with 12 cubic yard debris and 1,500 gallons of water with a Roots 824 blower & general MWSR50 water pump. Stock# 057R **(888)VAC-UNIT (822-8648)**  
**www.vsirentalsllc.com. (PBM)**



**1995 FORD L8000 VACTOR GUZZLER** VAC TRUCK. Cummings Turbo Deisel, Allison Automatic Transmission, has 3rd wheel drop down axle, Roots blower, 3500 PSI Water Pump with one inch sewer cleaning hose, 12 Yard Capacity Tank, PTO hydraulic Dump Body, Extra Storage Toolboxes, Front Axle 26,000 Rear axle 46,000. Milage is 308,140, Truck always maintained motor runs great This truck works every day, Truck can be driven cross country is very dependable truck ready to work and make money, Contact Tom 561 722 5048 or Sean 561 719 9361

**Price is 18,995.00 Or best reasonable offer. (P09)**

2022 Freightliner 108SD cab & chassis with VACALL AJV1215 combination j/vac with 12 cubic yard debris and 1,500-gallons of water with a Roots 824 blower & general MWSR50 water pump. Stock# 13995.  
**www.vacuumsalesinc.com (888)VAC-UNIT (822-8648). (PBM)**

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**Clear the Main Line with ease.** JnA Main Line Vac. Just hook the line vac to your hose, insert the incoming mainline pipe and watch the line come clean. Works on 3" & 4" pipe. Free shipping in the US. \$139.99. **Order at jnamainlinevac.com. 919-559-9344. (PBM)**

## PORTABLE RESTROOM



**200 Gray & Orange Satellite** High Tech Units for sale. All in rentable condition. Customer is responsible for pick up or shipping from NY. \$315.00 each.  
**Call 1-800-634-2085 (P09)**



**25 Guard sheds for Sale.** 5' x 5' ; All in Rentable Condition. White Fiberglass with 3 windows and locking door. Buyer is responsible for shipping/pick-up in NY. **\$500.00 each; Please call 1-800-634-2085. (P09)**

2014 Ford 550. Only 36,600 miles. 1200 gallon tank, 900 waste/300 fresh. Everything works, ready to work. Call/text Kelly (208) 709-3799 asking \$75,000 (P09)

Used Portable Toilets for Sale, All in Rentable Condition. 50 Orange/Grey Satellite High-tech, 50 Grey PolyPortable Integra, 50 Tan PolyPortable Integra. \$315 each. Customer is Responsible for Pick-up/Shipping in NY. Please contact (800) 634-2085 (P10)

## 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

New Imperial 1300 U.S. gallon, portable toilet service unit mounted on a 2022 Ford F550 cab and chassis with a Masport HXL4 pump package. Stock # 14029.  
**www.VacuumSalesinc.com (888) VAC-UNIT (822-8648). (PBM)**

2018 RAM 5500 1250 aluminum Bruder tank, Brand new Massport pump (needs new PTO), 157K miles \$52K MN 218-591-1736 (P09)



**2017 Hino 195**, with 155,860 mi, diesel. Tank built by Amthor International, it is stainless steel split tank with 300 gal. water/ 650 gal. waste. Vacuum is run by a Masport pump driven by a Honda GX 390 engine. **Asking \$69,995. Contact 518-622-3353 for all inquiries. (P09)**

2017 Ram 5500 4x4 110,000 Miles, Porta Logix tank set up with NVE 304 350 Fresh water, 800 Waste. Thieman Lift gate. Well maintained/parked inside. Text 4pics 785-477-2254 \$85,000. (P09)



**2006 GMC Topkick** C Series 5500 Duramax, Allison Transmission, Massport Pump, 440,000 Miles **931-762-9989 \$20,000 (P09)**

2014 Isuzu port-a-able restroom truck, one owner, runs great, body of truck in great condition, fresh water tank has small leak, hose trays has some rust but still functional, great tires, needs transmission work. 650 waste/100gal water.5000.00 call 513-260-7211 truck is in Cincinnati, Ohio. (P09)



**2011 F350 6.7 portable toilet truck.**

Has a flatbed and liftgate has a big conde pump and 300 waste 150 fresh-water stainless tank. Can haul 6 units on bed with liftgate down. Pickup has high miles but has been almost completely redone, we have great service manuals of all work that was done including new transmission, driveline and transfer case. The truck has been well taken care of and is ready to work. We are selling it because we are no longer in the portable restroom business. We are asking 28k for everything pictured. **Any Questions you can call or text Jon at 208-308-7781. (P09)**

**POSITIONS AVAILABLE**

Pump truck driver wanted in sunny Palm Beach County FL. Must have insurable CDL with tanker endorsement and know how to drive manual truck. Experience is necessary. Must be able to push, pull and lift minimum of 50lbs. We offer a bonus program on sales as well as health/dental/supplemental insurances. Earn up to \$100k a year and be apart of the Total team! Call 407-841-0400 or email resume to nichole@totalseptic.com. (P09)

Industry leading Restroom,Shower,Laundry and Specialty Trailer Dealer (new and preowned) has an opening for one experienced Independent Salesperson to work from their remote home office. Ability to sell multiple manufactures in the US and Canada. Highest commission payout in the industry along with startup bonus. Contact bill@nrtsales.com (P09)

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**RENTAL EQUIPMENT**

2023 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 jettors. All available for daily, weekly, monthly, and yearly rentals. VSI Rentals, LLC, **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)**

**SEPTIC TANKS**

Pre-owned 1,500 U.S. gallon (500 water-1,000 waste) carbon steel, portable toilet service unit tank with rear toilet carrier. Stock# 1500V **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

**SEPTIC TRUCKS**

Pre-owned 3,600 U.S. gallon, Aluminum vacuum tank; with a Presvac PV750 vacuum-pressure pump installed on a 2004 Peterbilt 330 cab and chassis. Stock# 1693 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**



**2004 International, DT466, 90k miles, allison auto, 25,900 gww, AC, cruise, 2000 gal (1500/500) alum Progress tank, Masport vac pump, DC10 water pump and hose reel, nice running truck, ready to work. Financing and delivery available, \$39,000.00. Hull's Truck Bodies LLC 740-820-5338. (P09)**



**2018 International 4300 58,000 miles, Cummins Engine 6.9 250 HP Allison Automatic Transmission New 2500 Gallon Steel Tank and pump. \$78,000. Call Alan 786-908-5436 or David 786-340-7759. (P09)**



**2013 Kenworth T660, Paccar engine, 425 hp, 10-speed, double frame, 18,000 lbs front/40k rear, New tires all around, 4000-gallon steel tank, Masport hydra plug and play. \$110,000 Call Alan 786-908-5436 (P09)**



**2023 Peterbilt 548 Chrome, 4200 gallon steel or aluminium tank, NVE 4310 or Jupop DL180 RAY @ 501-388-9565 (P09)**

1996 INTL 4900, DGWV 25500, 219401 MILES, MASPORT model hxl4de vac-pump, 1200-gallon tank, new tires. Tucumcari, NM. For more info & pix call 575-461-1148. (P09)



**2002 Mack CV 713 tri-axle 4800 gallon aluminum karymor conversion tank, Engine E7-427 transmission T2180 approximate 750,000 miles ,newer front tires rear 60% .Please contact me for questions 262-366-2158 Dirk. \$57,500 or best offer. (P09)**



**2007 GMC, Duramax Diesel, 308k, auto trans, AC, cruise, 26k gww, 650/350, Progress tank and vac pump, runs and drives great. \$19,000.00 Hulls Truck Bodies LLC 740-820-5338 (P09)**



**2014 Freightliner Cascadia 267,500 miles, automated transmission, 4000 gallon tank, massport pump. Tank and pump less than two years old. Truck was built less than two years ago. Pressure washer and 80 gallon. fresh water tank. \$87,000 720-810-6049. (P09)**



**2012 Dodge Ram turbo diesel 5500 pump truck. Truck has 306,000 miles on it and is in fair condition but is still a money maker. Truck runs good and has a strong pump. Water holding tank has a small leak and heat/AC does not work. please call, text or email as I am happy to answer any questions. Truck is located in central Alabama. Asking \$12,000. (251) 654-3160 andy@gaddyelectric.com (P09)**



**2006 Peterbilt, C15 Cat, 8LL trans, Jake, AC, cruise, extended cab, New 4600 gal tank, stainless hose trays, Fruitland 500 vac pump, New tires and paint. Runs and drives great, very clean, has been overhauled. Financing and delivery available, \$85,000.00. Hulls Truck Bodies LLC 740-820-5338 (P09)**



**2016 KW 1100/400 lely tank with masport 400 pump. One owner, Carolina truck with no rust. \$90,000.00 If interested please contact Jason Gibson at 336-250-9848. (P09)**

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**For sale: 2006 Peterbilt 335**, pre emissions Cummins, 10 spd Eaton trans, 3600 gallon Transway pump and tank. 145,000 miles, 14900 hours, aluminum wheels. Truck runs daily so miles will increase. **Asking \$68,000 obo, call or text 203-901-0393 or Rohalasanitation@gmail.com (P09)**



**2005 Sterling LT9500** DDC-60 engine, 10-speed transmission, 532,549 miles, 64,000 GVW, A/C, all new tires @ 508K miles, new transmission, new clutch, new flywheel @ 524K miles, Pik-Rite vacuum tank 4,300-gallon waste tank & 200-gal fresh water tank. Juror R-260 vac/pressure pump, jetter system, excellent shape, only 1 owner. Pre-emissions truck. **Price \$55,000.00. For more info, call Marvin at (772) 201-2086. (P09)**



**2022 Int 4300**, 6.7 Cummins, 9000 miles, Allison auto, AC, cruise, 25999 gvw, under cdl, airbrakes, New 2000 gal tank, stainless steel hose trays, Fruitland 500 vac pump, all new equipment. Remainder of factory warranty. Financing and delivery available, **\$119,000.00. Hulls Truck Bodies LLC 740-820-5338 (P09)**



**2004 Peterbilt Septic truck**, 2500 Gallons, brand new system, automatic transmission, 33,000 GVW, pre emission, CAT Engine C-7. Like new in great condition. Financing available with low down. **For more info please call Mr. Geo at 786-236-7108 (P09)**



**2005 Sterling AT9522** Manual Vacon Truck, 10 speed Eaton transmission, 480 horsepower. This Truck comes equipped with a split tank 3600 gallon waste and 300 fresh water, Challenger vacuum pump, 300ft jetter hose with a pressure gun (18 GPM at 4000 PSI). Fresh paint job and is reliable. All maintenance was performed regularly. No issues with the truck. If you would like more info please reach out anytime **(916) 670-4848, (916) 348-2800 or Dispatch@apsenvironmental.com. Price: \$59,000 (P09)**



**2023 Mack MD7**, 6.7 cummins, 2500 RDS Allison, 33k GVWR, 2500 steel or aluminum Tank. **Call Hayden Evans at 501-388-9464. (P09)**



**2019 F 750 Vacuum truck**. 2500 gallon capacity, very low miles (30,000). 300 ft of vacuum hose, dump hose, leader hose, 2 large jockey boxes. Power steering, power brakes, tilt wheel, cruise control, power mirror's, power door locks. Only driven by owner, truck is in pristine condition and original owner. Ready to go to work. **\$175,000.00. Call John 661-802-9656. (P09)**



**99 Pete, C12 Cat, 564k**, 13spd, Jake brake, full locking rears, AC, cruise, 18k front, 46k rears, double frame, 20k lift axle, Hendrickson susp, 5000 gal Presvac tank and Wittig vac pump, heated valves, stainless hose trays, great running truck, ready to work. Financing and delivery available, **\$55,000.00. Hull's Truck Bodies LLC 740-820-5338. (P09)**



**2008 Freightliner Day cab** with rarely used PTO powered vacuum pump. Extremely well-maintained tractor with zero issues or leaks. Like new 4,200-gallon tanker trailer inside and out. Only ever used for non-potable water. New rubber all around, huge bonus in itself! \$82,500 OBO. 719-666-2553...2020 Ford F550, 19k miles, 1,400-gallon septic pump truck that can be switched to portable restroom capability, \$130,000 OBO.... Lots of portable restroom equipment for sale (toilets, 16-unit trailer, wash stations, hoses etc..) **Call for pricing. 719-666-2553. (P09)**



**1999 Sterling, 10 spd**, 3,300 gallon tank. 520,000 miles. C-10 cat engine. Tires 50%. All DOT inspected and ready to go. Heated collars. New transmission 5 yrs ago. Aluminum hose trays. 400 masport liquid cooled. **Works great. (612)991-0692. \$25,000. (P09)**



**2016 Caterpillar cab/chassis** 4600-gal steel tank, Fruitland 500 vac-pump, good rubber, 5 axles, 285K miles. **\$145,000. Contact Ron 216-857-4164 (P09)**

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2023 Peterbilt 548 cab & chassis with NVE Challenger 887 fan cooled vacuum pump Stock #14056 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

Pre-owned 3,600 U.S. gallon, Aluminum vacuum tank; with a Presvac PV750 vacuum-pressure pump installed on a 2004 Peterbilt 330 cab and chassis. Stock# 1693 **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

New 4,000 U.S. gallon, aluminum, vacuum tank. Mounted on a 2023 Freightliner M2-106 cab and chassis w/ a NVE Challenger 887 vacuum pressure pump package. Stock# 14056 **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (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)**



**2023 Freightliner 108 SD** with 4000 gallon all waste steel tank GVW 58,000 40,000 Rear axle 18,000 Front axle 20,000 lb axle 3rd Air Cooled Fruitland 500 Vacuum Pump 6" dump 2 - 4" suction pipe **\$202,000.00 Plus 12% FET Tax Rodney Lane 270-832-3793 (PBM)**



**2011 Ram 5500**. Aluminum tank 400 fresh/1,000 waste. Masport pump. Cummins engine. **720-436-3910. (PBM)**

Pre-owned 2,800 Gallon, Aluminum Vacuum Tank. pump. **www.vacuumsalesinc.com Stock #1852V (888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (PBM)**

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

New 4,000 U.S. gallon, aluminum, vacuum-pressure tank mounted on a 2023 Peterbilt 548 cab & chassis with NVE 4307 Blower Package. (Stock #14006). Stock #14006 **(888)VAC-UNIT (822-8648) www.vsirentalsllc.com. (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)**

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)**

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

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

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

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## SLIDE IN UNITS



**NEW aluminum slide-in tanks.** 2 available. 450-gallon (300/150), Honda motors, Masport pumps.  
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**550-gallon steel slide in,** 100-gallon poly water tank. Masport HXL-3V vacuum pump w/9-HP Honda engine. 30' of 2" waste hose, 50' garden hose on hose reel. Toico water pump, 3" discharge. 7,000-lb GVWR tandem axle trailer. **\$16,029. Call Jamie 800-558-2945, salesinfo@imperialind.com. (PBM)**

## SLUDGE APPLICATORS



**2004 Ag Chem 3104** Nutrient Management Machine. 7,792 Hours. 4,200-Gallon tank. \$105,000.00  
**Contact Dave @ 815-979-6410 or nehrings99@yahoo.com (P09)**

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**Any size tank can be custom built.** Slide-in tanks in all sizes. Plug and Play vacuum pumps are also available. **Call Rodney Lane 270-832-3793 for pricing. (PBM)**



**Complete Steel Vacuum Tanks** available 800-5,000-gallon. All prices are not the same. We deliver anywhere.  
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**CLASSIFIEDS!**  
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**One used steel vac tank** 1,500/500 w/ Moro hydraulic AC4 vac pump. **Call JR @ 720-436-3910. CO (PBM)**



**Tanks in stock,** ready to ship out or let us install it for you. Restroom, septic, grease in stock with mounting kits. **Call 888-6VACTANK today! (PBM)**



**Used VAC Tanks.** 4,200-gallon - \$9,900. Gasco Triplex 3364-AL - \$750. **269-751-5167. (PBM)**

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Crust Busters - Portable, lightweight machine guaranteed to mix up septic tanks and grease traps! Save time and money! **www.crustbusters.com, 1-888-878-2296. (PBM)**

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

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## TRAILERS



**6 units available for 2003, 24-foot** Olympic Fiberglass Restroom Trailer - In Rentable condition as is. Women's side has three stalls; Men's side has two stalls and three urinals. Buyer is responsible for Transport from New York. **\$6500.00 - Call 800-634-2085 (P11)**



**6 units available for 2003, 12-foot** Olympic Fiberglass Restroom Trailer. In rentable condition as-is. Women's side is one open bathroom, a sink, & a mirror. Men's side has a toilet, a urinal, & a sink. Buyer is responsible for transport from New York. **\$5,000.00 - Call 800 634 2085 (P11)**

## TRAILERS-VACUUM/TANKER



**Lone Star Body Systems Rig Vac** - Vac Only , 1,000 USG ,36" Rear Manway , 4" load port, 6" unload port, Fruitland RCF500 Vacuum pump 10PSI / 20" Vacuum , Tank shell and heads A36 Steel 1/4" thick, Primary & Secondary , Dual 7k axles Torsion style with high ground clearances , Starting @ **\$59,500 Located in Mexia ,TX Call 254-472-0852 We build what we sell Factory Direct sales. (P09)**

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

## TRUCKS (DUMP, SEPTIC, MISC.)



**2004 INTERNATIONAL 7400** Equipped with Vac-Con V312LHAE Combination Sewer Cleaner, Cummins B5.9p -165HP Aux Engine, 3 Stage Fan Assembly, FMC L1615SC Water Pump, 50GPM @ 3000PSI Front Mounted Telescopic & Rotating Hydraulic Hose Reel (600' x 1", Footage Counter), Hand Gun, 10' Telescopic Boom (3-Section Aluminum, 8" Suction Hose), Remote Pendant, Aluminum Rotary Pipe Rack Assembly (Pipe Extensions & Bolt Clamps). Truck was serviced every 10,000 miles and just received new paint. Well taken care of. No defects Year: 2004 Make: INTERNATIONAL Model: 7400 6x4 Truck mileage: 106,880 Chasse engine make, model, horsepower: NAVISTAR, DT530, 275HP Price: **\$115,000 (916) 670- 4848 or email Dispatch@ apsenvironmental.com Located in Sacramento, CA. (P09)**



**2002 Mack CH 600**, 3,400 gal Erickson double baffle tank with massport 400 vein pump. 10 spd eaton fuller auto with clutch. 521,000 miles on truck, air ride and full lock in rears, aluminum alcoa wheels, tires are good. Tank was freshly sand blasted and paint, 6in discharge/4 and 3in inlet. Clean truck runs great just serviced, no issues. **\$45,000 obo call if any questions 916-300-8886 or 916-624-8500 (P09)**

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**1988 S2300 International;** L10 Cummins 8 speed transmission. Runs good, needs some TLC. **Mileage: 320,000 approx. 636-583-5564. (P09)**



**2017 Dodge Ram 5500** 2WD Cab and chassis; Cummins Diesel engine; Automatic; PTO-driven dual hydraulic pumps. **Mileage: 128,645. 636-583-5564. (P09)**



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



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

## TV INSPECTION



**2013 Ford/Haaker** Ipek Supervision F450 4X4 V10 gas engine CCTV Sewer Truck 27k original miles CCU, SVA500 auto cable reel, desk top control, svr250 crawler (camera head missing), Onan 5500 (approx 2700 hrs), 3tv screens, 1 remote to operate outside, 110/220, metal tool boxes, clean & gray water tanks, strobe system & lights, a/c, rear camera, awning & led lighting outdoor & more \$165,000 (possible part trade) **Call 909-269-6563 or email marcy-lovett4@gmail.com. (P09)**



**2019 Ford F550 4x2** 6.7L V8, 6-Speed, 16' Box 19,500 GVRW, 34,500 Miles, Onan diesel generator 7.5 KW, Power boom crane, EVO 3 interior package, Roof mount AC, Wall mounted heater, 20 gallon wash-down, 32" rear monitor, Auto payout reel with 1,500' cable, OZ2 camera with sonde, SPR2 8"-60" wheeled transporter, Rear view camera for SPR2, LAMP2 lateral launcher with micro PT head and fixed view head, Rear view camera for LAMP2, Two 150' push cable for LAMP2, Summit wireless electronics, Gnet software with PACP and LACP modules **\$305,000. Scott 503-720-6874, scott.b@lovettservices.com (P09)**

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## VACUUM EQUIPMENT



**Vactor Truck. 2003 Kenworth T800** Tri-Axle w/ CAT C15, 475 HP, 13 Speed, Steerable 3rd axle Vactor 2115 vac system w/ jetter hose reel, Odometer: 409104 (NOT WORKING), Hour meter: Not accurate, Hub meter: 76,000, Recently replaced cyclone, replaced blower, good conditional, diesel, white/green body. **ASKING \$55,000, Contact CHRISTINE Email - cm@ abenviro.com or office 631-567-6545 (P09)**



**Vactor Truck 2006 International 7600** TRI-AXLE W/CAT C13, 10 speed, Steerable 3RD AXLE, Vactor 2112 vac system, odometer:244,058, hour meter: 12790, hub meter: 104,000 recently replaced cyclone, replaced blower, good conditional, diesel, white/green body. **Asking \$65,000. Contact CHRISTINE cm@abenviro.com or call 631-567-6545 (P09)**

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