

# Pumper

DEDICATED TO THE LIQUID WASTE INDUSTRY

December 2022  
pumper.com



## STILL GOING STRONG

Charlie Kristman has owned his installing and pumping company for more than 40 years. He succeeds with a strong work ethic and a love of his profession.

Page 18

PRODUCT FOCUS  
**SEPTIC SYSTEMS  
AND MAINTENANCE**

Page 52



'TIS THE  
**SEASON**  
TO BE  
**POLY!**

**Merry Christmas & Happy Holidays**



from  
**POLYJOHN**<sup>®</sup>  
there when you need us



**DOWNLOAD OUR GUIDES**

[PJProductGuide.com](http://PJProductGuide.com) | [PJPROReferenceGuide.com](http://PJPROReferenceGuide.com)

2500 GASPAR AVE., WHITING, IN 46394

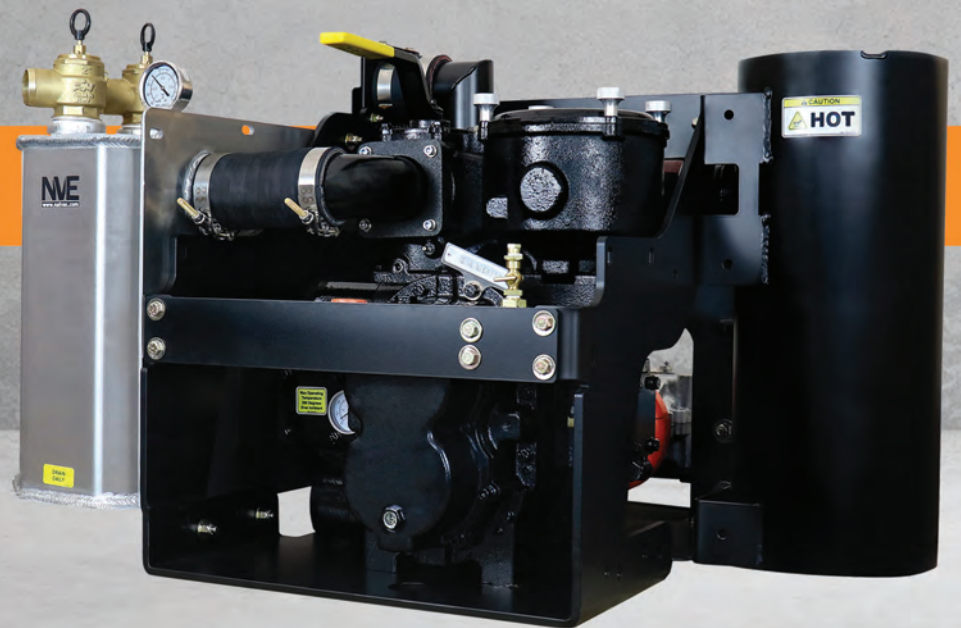
**PJPUMPER.COM | 800.292.1305**

# NVE

National Vacuum Equipment, Inc.

# AN AFFORDABLE BLOWER MADE FOR EVERYONE.

**B500 VACUUM BLOWER**  
Max Pak I CFM 431



**Challenger** Series  
VACUUM PUMPS & BLOWERS



Designed. Built. Supported in the USA.

[www.natvac.com](http://www.natvac.com) | 800.253.5500



MADE  
IN THE  
USA

@USTanksIndustry

@USTanksIndustry



**Vacuum Tanks In Primer**

Starting at \$17,000

Includes Aluminum Side Panels and Hose Trays.  
Available in 1400 to 5500 Gallons

**5**  
YEAR  
WARRANTY



**Complete Kits**

Starting at \$24,000

Includes Aluminum Side Panels,  
Aluminum Hose Trays, Lights, Valves and Paint.  
Available in 1400 to 5500 Gallons



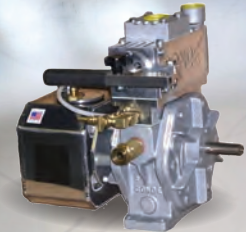
**VACUUM  
TECHNOLOGY**



**Pro-Vac**  
Industrial Pumpout System  
Ideal for  
Indoor/Remote Jobs

For: grease trap service pumping,  
machine coolant pumping-cleaning,  
remote portable toilet pumping,  
marina vacuum pump out service,  
or any pumping and  
transfer of liquid waste



Made in USA  
Since 1939



**Pumps - 35 Thru 230 CFM**  
Vacuum (only) & Vacuum/Pressure



**PowerPaks - Gas & Diesel Powered**  
Belt Drive & Direct Drive

 I'M DREAMING OF A NEW UNIT,   
JUST LIKE THE ONES THAT TRANSWAY BUILD,  
WHERE THE SHINY TANKS GLISTEN,  
AND DEPENDABILITY IS THEIR MISSION,  
I KNOW MY WISHES WOULD BE FULFILLED.



Wishing you a Merry Christmas from our **Transway** family to yours.



**CUSTOM BUILT. DRIVEN BY YOU.**



# 18

## Still Going Strong - Ted J. Rulseh

Charlie Kristman has owned his installing and pumping company for more than 40 years. He succeeds with a strong work ethic and a love of his profession.

### 10 Between the Lines: Our 2022 Classy Trucks Are Handsome and Hardworking

A great septic service truck combines good looks with the functionality of rugged components and capacity to get the job done.

- Jim Kneiszal

### 14 @pumper.com

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

### 28 2022 Classy Trucks: Best of the Bunch

Don't forget to vote for your favorite Classy Truck!

- Jim Kneiszal

### 32 Building the Business: Speak Up If You See Racism in the Workplace

If you want your business to thrive, it's important to push through and address unacceptable behavior that impacts diverse team members and customers.

- Ken Wysocky

### 36 Money Manager: Buying an Existing Business? Avoid Taking On Someone Else's Problems.

Growth through acquisition can be a smart way to build your company if you're willing to do the research and carefully navigate necessary steps.

- Joan Koehne

### 40 Septic System Answer Man: Constructed Wetlands Call for Persistent Service Providers

Keeping a treatment cell operating properly requires a watchful eye for invasives and a solid maintenance program.

- Jim Anderson

### 44 Snapshot: Trade Association Work Slows as Colorado Contractors Are Overwhelmed

Unfortunately, there's little time to advocate for wastewater industry advances as installers and pumpers are stretched to their limits.

### 46 Rules & Regs:

Cape Cod looking at nitrogen treatment upgrades

- David Steinkraus

### 48 Associations List

### 50 Classy Truck of the Month

Chesapeake Septic Service, Stevensville, Maryland

### 52 Product Focus/Case Studies

Septic Systems and Maintenance

- Craig Mandli

### 64 Product News/Spotlight

Air-filled pump motor designed to create premium efficiency

- Tim Dobbins

### 65 Industry News

## ON THE COVER:



He loves the work, so retirement hasn't been in the cards for 72-year-old Charlie Kristman, owner of C. M. Kristman Septic Services in Coatesville, Pennsylvania. Kristman is shown with his newest vacuum truck, a 2022 International from Transway Systems. (Photo by Kirk Zutell)

## COMING IN JANUARY:

- PROFILE: A great business plan in Oregon
- SNAPSHOT: Visiting the Jayhawk state

# Pumper®

DEDICATED TO THE LIQUID WASTE INDUSTRY

www.pumper.com

Published monthly by



COLE Publishing Inc.  
PO Box 220  
Three Lakes, WI 54562

© Copyright 2022 COLE Publishing Inc.

No part may be reproduced without permission of the publisher. In U.S. or Canada call toll-free 800-257-7222.

Email: info@pumper.com | Website: www.pumper.com

Office hours: 7:30 a.m.-5:00 p.m. Central Time, Monday - Friday

**SUBSCRIPTION INFORMATION:** A one-year (12 issue) subscription to *Pumper* in the United States, Canada and Mexico is free to qualified subscribers. Subscriptions to all other foreign countries cost \$150 per year (\$290 for two years). Subscribers are guaranteed monthly delivery of the magazine. To subscribe please visit pumper.com or send company name, mailing address, phone number and check or money order (U.S. funds payable to COLE Publishing Inc.) to the address above. MasterCard, VISA, Discover and American Express are also accepted. Supply credit card information with your subscription order.

Our subscriber list is occasionally made available to carefully selected companies whose products or services may be of interest to you. Your privacy is important to us. If you prefer not to be a part of these lists, please contact Holly Gensler at holly.gensler@colepublishing.com

**CLASSIFIED ADVERTISING:** Submit classified ads online at www.pumper.com/order/classifieds. Minimum rate of \$25 for 20 words; \$1 per each additional word. Include a photo for an additional \$125. All classified advertising must be paid in advance. DEADLINE: Classified ads must be received by the tenth of the month for insertion in the next month's edition. PHONE-IN ADS ARE NOT ACCEPTED. Fax to 715-350-8456 only if charging to MasterCard, VISA, Discover or Amex. Include all credit card information and your phone number (with area code). Mail with check payable to COLE Publishing Inc. to the address above. CLASSIFIED ADVERTISING APPEARS NATIONWIDE AND ON THE INTERNET. Not responsible for errors beyond first insertion.



Jim Flory



Winnie May

**DISPLAY ADVERTISING:** Email Jim Flory at jim.flory@colepublishing.com or Winnie May at winnie.may@colepublishing.com or call 800-994-7990. Publisher reserves the right to reject advertising, which in its opinion is misleading, unfair or incompatible with the character of the publication.

**CONTROLLED CIRCULATION:** 20,500 per month. This figure includes all circulation regions (nationwide) and international distribution.

**REPRINTS AND BACK ISSUES:** Visit www.pumper.com/order/reprints for options and pricing. To order reprints, call Jeff Lane at 800-257-7222 or email jeff.lane@colepublishing.com. To order back issues, call Holly Gensler at 800-257-7222 or email holly.gensler@colepublishing.com.

▶ **WE HAVE INVENTORY!**

▶ **LET US BUILD A CUSTOM TRUCK FOR YOU!** ◀



**RECENT BUILD**

▶ **2016 Peterbilt 567**

5,000 Gal., Loaded, CALL FOR PRICE!

**RECENT BUILD**

▶ **2012 Peterbilt 386**

5,000 Gal., Loaded, CALL FOR PRICE!

**Available Options:**

- Hydraulic Hoist System
- Rear Opening Door
- Multiple Compartments
- Heated Valves
- Electronic Gallon Indicator
- Interior Plumbing
- Fluid Level Indicator
- Pump & Blowers
- Interior Epoxy Coated Tank
- Lift Axles
- Jetter Box
- Heavy Duty Jetter System
- 20K Front Axles



**RECENT BUILD**

▶ **2012 Peterbilt 367**

5,000 Gal., Loaded, CALL FOR PRICE!

 **NEW & USED IN STOCK**

 **MADE IN THE U.S.A.**

- 2 year/100K mile warranty on engine, transmission and rear end for Class 6 and Class 7 vehicles.
- 1 year/100K mile warranty included on engines for class 8 vehicles.



# ADVERTISER INDEX

A.R. North America, Inc. .... 34

**ABBOTT RUBBER**  
CORPORATION, INC.

Abbott Rubber Co., Inc. .... 53

American Tank Company .... 37

**AQUA-Zyme**

AQUA-Zyme Disposal Sys. . 42

**arcan**

Arcan Enterprises, Inc. .... 65

Bright Technologies ..... 53

**CAM**

Cam Spray..... 42

**CB**

Cape Cod Biochemical Co. .51

Century Chemical Corp. .... 61

*Comforts of Home*  
SERVICES, INC.

Comforts of Home Services... 57

**CRO**  
SOFTWARE SOLUTIONS

CRO Software Solutions ..... 30

**CRUST BUSTERS**

Crust Busters ..... 47

Culleoka Company ..... 8

**DAVIDSON TANK**

Davidson Tank ..... 50

**DA**  
Deal Assoc. Inc.

Deal Assoc. .... 61

Eljen Corporation..... 12

**Wallenstein**  
VACUUM TANKS

Elmira Machine Industries/  
Wallenstein Vacuum ..... 15

**EAM**  
ENGINE & ACCESSORY  
MANUFACTURING, INC.

Engine & Accessory, Inc. .... 41

**FLOWMARK**  
VACUUM TRUCKS

FlowMark Vacuum Trucks ... 16

FMC Advisors ..... 53

**GapVax**

GapVax, Inc. .... 21

**HOUSE OF IMPORTS INC.**

House of Imports ..... 7

**IMPERIAL INDUSTRIES**

Imperial Industries, Inc. .... 75

*In the Round Dewatering*

In the Round Dewatering..... 55

**INTEGRITY TANK**  
SALES & SERVICE

Integrity Tank Sales & Svc... 39

**ITI**

ITI Trailers & Truck Bodies .. 25

**Jet**  
MANUFACTURING TECHNOLOGIES

Jet, Inc. .... 26

**KeeVac**

KeeVac Industries, Inc. .... 55

Key Commercial Corp. .... 34

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

Lane's Vacuum Tank, Inc. .... 33

**Marsh**

Marsh Industrial ..... 11

**EXPLORER**

McKee Technologies -  
Explorer Trailers ..... 15

Mid-State Truck Service, Inc. 34

**MRP**

Milwaukee Rubber Products. 16

**NAWT**

N.A.W.T. .... 61

**National Truck Center**

National Truck Center ..... 9

**NVE**

National Vacuum Equipment . 3

**norweco**

Norweco, Inc. .... 17

**NUCONCEPTS**

NuConcepts ..... 49

Park Process ..... 49

**pikrite**

Pik Rite, Inc. .... 43

**POLYJOHN**  
SUPPLY

PolyJohn ..... 2

**PortaLogix**

PortaLogix ..... 43

**PRESVAC**

Presvac Systems ..... 76

ProcessWerx ..... 59

**Summit**  
array

Ritam Technologies LLC..... 59

**RV**

Robinson Vacuum Tanks .... 47

ROEDA ..... 57

**Roth**

Roth North America ..... 59

**Satellite**

Satellite Industries ..... 31

**ScreenO**  
Systems

ScreenO Systems, LLC ..... 39

**SIM/TECH**  
FILTER

Sim/Tech Filter Inc. .... 57

**T&T TOOLS**

T&T Tools, Inc. .... 30

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

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

Tank Track LLC ..... 42

**TANK WORLD CORP.**

Tank World Corp. .... 45

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

TankTec ..... 26

**TS**

Transport Truck Sales, Inc. ... 49

**TRANSWAY**  
SYSTEMS, INC.

Transway Systems, Inc. .... 5

**TSI**  
TANK SERVICES, INC.

TSI Tank Services, Inc. .... 12

**TUF-TITE**

TUF-TITE, Inc. .... 13, 39

**U.S. TANKS**  
INDUSTRY

US Tanks Industry ..... 4

**vacutruX**

VacutruX Limited ..... 15

**VSI**

Vacuum Sales, Inc. .... 47

**V7**

**VARCO**  
SUPPLY

VARCO ..... 23

**WALEX**

Walex Products Company. ... 35

**Condar**

Westmoor Ltd. .... 4

WWETT Show ..... 38, 63, 74

Classifieds ..... 68-73

Marketplace ..... 66-67

**REGIONAL ADVERTISERS**

**Midwest Supplement**

(after page 50)

**dvance**

Advance Pump & Equipment ... 3

**LINCOLN CENTER**  
MANUFACTURING, LLC

Lincoln Center Manufacturing/  
Marengo Fabricated Steel. . 1

**Navitas Credit Corp.**

Navitas Credit Corp. .... 3

**Eastern Supplement**

(after page 50)

**dvance**

Advance Pump & Equipment... 3

**LINCOLN CENTER**  
MANUFACTURING, LLC

Lincoln Center Manufacturing/  
Marengo Fabricated Steel.. 1

**Navitas Credit Corp.**

Navitas Credit Corp. .... 3

**VSI**

Vacuum Sales, Inc. .... 2

## Want to add a CLEAN Stream of income to your BUSINESS?

Cleans Drains, Septic Tanks, Sewers and Grease Traps!



✓ Natural Based & Non Toxic

✓ EZ add on BUSINESS!

✓ Monthly Drain Programs will earn you money while you sleep

✓ Bacteria Tested by TURI labs at UMASS

## GROW your BUSINESS!

ADD our product line & GROW Your BOTTOM LINE!



WWETT Booth 2244

(855) 777-6246 / drainprogram.com

## MORE?!

More Stories at [Pumper.com/featured](http://Pumper.com/featured)  
See what's not in print!

**Pumper**



# National Truck Center

EST. 1981

954-410-6553  
786-367-4961  
www.NationalTruckCenter.com  
3001 EAST 11th AVENUE | HIALEAH, FL 33013

## NEW TRUCKS



### 2022 International CV 515

Duramax 6.6L (350 HP), Automatic,  
New 1400 Gallon Tank, New Masport  
HXL75 Vacuum Pump (230 CFM)

CALL FOR QUOTE



### 2024 Mack MD7

Mack MP8 (350 HP), Allison Automatic,  
New 2500 Gallon Tank, New Jurop PN-84  
Vacuum Pump (317 CFM)

\$134,000



### 2024 Mack MD7

Mack MP8 (350 HP), Allison Automatic,  
New 2500 Gallon Tank, New Jurop PN-84  
Vacuum Pump (317 CFM)

\$134,000



### 2023 Western Star 47X

Cummins L9 (370 HP), Allison Automatic,  
New 4000 Gallon Tank, New Jurop LC-420  
Vacuum Pump (423 CFM)

\$183,000



### 2023 Western Star 47X

Cummins ISX (450 HP), Allison Automatic,  
New 4000 Gallon Tank, New Jurop LC-420  
Vacuum Pump (423 CFM)

\$196,000



### 2024 Mack Granite

Mack MP8 (450 HP), Allison Automatic,  
New 4000 Gallon Tank, New Jurop LC-420  
Vacuum Pump (423 CFM)

\$217,000



### 2024 Mack Granite

Mack MP8 (450 HP), Allison Automatic,  
New 4000 Gallon Tank, New Jurop LC-420  
Vacuum Pump (423 CFM)

\$217,000



### 2023 Western Star 4700 Legacy

Cummins ISX (450 HP), Allison Automatic,  
New 5000 Gallon Tank, New Jurop LC-420  
Vacuum Pump (423 CFM)

\$212,000

## PRE-OWNED TRUCKS READY TO GO



### 2016 International 4300

DT-466 (245 HP), Allison Automatic, 177K Miles,  
New 2000 Gallon Tank, New Jurop PN-58  
Vacuum Pump (230 CFM)

\$102,000



### 2016 International 4300

DT-466 (245 HP), Allison Automatic,  
185K Miles, New 2000 Gallon Tank,  
New Jurop PN-58 Vacuum Pump (230 CFM)

\$102,000



### 2009 International 4300

DT-466 (245 HP), Allison Automatic,  
121K Miles, New 2500 Gallon Tank,  
New Jurop PN-84 Vacuum Pump (317 CFM)

\$78,000



### 2016 International 4300

DT-466 (245 HP), Allison Automatic,  
289K Miles, New 2500 Gallon Tank,  
New Jurop PN-84 Vacuum Pump (317 CFM)

\$91,000



### 2015 Freightliner M2

Cummins ISB (285 HP), Allison Automatic,  
183K Miles, New 2500 Gallon Tank,  
New Jurop PN-84 Vacuum Pump (317 CFM)

\$112,000



### 2011 International 4400

DT-466 (310 HP), Allison Automatic,  
183K Miles, New 3600 Gallon Tank,  
New Jurop R-260 Vacuum Pump (360 CFM)

\$129,000



### 2016 Freightliner M2

Cummins ISL (380 HP), 10 Speed Manual,  
226K Miles, New 4000 Gallon Tank,  
New Jurop LC-420 Vacuum Pump (425 CFM)

\$138,000



### 2015 Freightliner Cascadia

Detroit DD13 (450 HP), 10 Speed Manual,  
379K Miles, New 5000 Gallon Tank,  
New Jurop LC-420 Vacuum Pump (425 CFM)

\$142,000

TRANSPORTATION AVAILABLE NATIONWIDE



Sold exclusively at  
National Truck Center





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

**Jim Kneiszel**  
Editor

# Our 2022 Classy Trucks Are Handsome and Hardworking

A great septic service truck combines good looks with the functionality of rugged components and capacity to get the job done

By Jim Kneiszel

**I**f you've built out a new septic service truck in the past few years, you know what kind of challenge it's been. Finding the right chassis, lining up a builder, sourcing all the parts and timing the builds has been a hurdle for wastewater professionals during the era of COVID.

Even with all the supply chain woes, pumpers still need their trucks, and with so many folks working from home, these past few years have been some of the busiest for service providers. Septic tanks are pushed to their limits and weaknesses in onsite systems are shown during these heavy-use times. At the same time, labor shortages have hurt both pumping companies and manufacturers who assemble vacuum trucks.

But that hasn't stopped our popular Classy Truck feature. As a group, pumpers just keep on keepin' on! If you need a rig, you're going to make it happen. And we're thankful that so many of you want to share your builds with the *Pumper* community. As a token of our appreciation, each owner of our featured monthly Classy Truck receives a Classy Truck vinyl to display on their work truck. The Classy Truck of the Year receives a special vinyl graphic to let the public know about the award.

We've had so many great Classy Truck contributors over the years, and 2022 was no exception. The entries came from across the U.S., with Pennsylvania providing the most with three service trucks. Others came from New York, Texas, Wisconsin, Indiana, Michigan, Arizona, North Carolina, Ohio and Maryland.



## CAST YOUR BALLOT

You can see trucks from the past year inside this issue, along with information on how to go online and vote for your favorite. We tally the votes and add the input from COLE Publishing editors to choose the Classy Truck of the Year. Then, that truck owner is featured in the February 2023 issue of the magazine to celebrate the accomplishment.

A special shoutout goes to the 2022 pumpers who handled the fabrication, welding and wrenching to build the trucks themselves. They include the following:

- Dewey Northrup Sr. and Dewey Northrup Jr. of Northrup Septic Service in Tully, New York, with their 2000 Peterbilt 357.

- Jon and Cody Houseknecht of Sunset Septic & Excavating in La Porte, Indiana, with their 2012 Kenworth T660.
- Ricky and Mark Hall of Casa Grande Septic Services, Eloy, Arizona, with their 2017 Peterbilt 389.
- Mark and Dustin Rousseau, of Chesapeake Septic Service, Stevensville, Maryland, with their 2007 Kenworth T800.

Looking at the Classy contenders for this year, we can point out a few continuing trends in truck building:

**Peterbilt continues to dominate.** Like last year, five of our trucks are carried on Peterbilt chassis. Kenworth represented with four, International had two and Freightliner had one. Western Star and Mack were bounced out of the top 12 this year.

➤ As a token of our appreciation, each owner of our featured monthly Classy Truck receives a Classy Truck vinyl to display on their work truck. The Classy Truck of the Year receives a special vinyl graphic to let the public know about the award.

**Steel rules.** Eight of our trucks carry painted steel tanks. Three are aluminum and one is stainless. Aluminum and stainless had trended toward a greater percentage of Classy Truck entries in prior years.

**More rebuilds.** Whether it's because new chassis are hard to come by or more pumpers are being conservative or value-oriented, a good number of this year's trucks are rebuilds of pumping rigs or repurposed from other industries. Nine of the 12 rigs are late model used, and a few go back more than a decade. The oldest is from 2007.

**Seeing red.** Four of our trucks were either all-red or carry a patriotic red, white and blue motif. While simple, clean white has sometimes dominated in the past, this year shows some outliers, including an all-yellow truck, metallic green, brown, black and purple. Design elements trended toward the basic graphics and were not as showy with the vinyl wraps.

**Bigger tank capacities.** The tanks average 3,916 gallons, inching ever closer to topping 4,000 gallons. Despite seesawing and dramatically higher diesel prices of late, pumpers continue to prioritize emptying more septic tanks between trips to the disposal site over better fuel economy maneuverability. The biggest is 5,400 gallons and the smallest is 2,300 gallons.

**Favoring auto transmission.** There appears to be no turning back on this one. Even with all the used trucks, five of the 12 run auto transmissions. Pumpers are more often opting for the convenience of an auto transmission for drivers who either no longer want to jam gears or have never learned to drive a manual. The new generation of CDL drivers simply doesn't want to learn the old ways and owners are bending to their will.

**Blowers are in the minority.** This one is surprising. For all the good things I hear about today's powerful blowers, traditional vane pumps are added to 10 of our 12 Classy Trucks. Sticking to a tried-and-true technology to create suction?

**PARK YOUR TRUCK OVER HERE**

For all this talk about the 2022 trucks, how about sending a photo and write-up of your new truck for a future issue of *Pumper*? We always welcome your submissions. Just send me the basic information, your contact information and a few photos, and we might be right here next year talking about your new truck. Just reach out at editor@pumper.com. Let me know if you have any questions about the process and I'll walk you through it.

**The great trousers debate**

A few months back, a *Pumper* reader asked if technicians working in hot climates should be allowed to wear shorts when pumping tanks. I asked the question in my editor's column and received an interesting response from John Buelow, of Buelow Excavating in Stillwater, Minnesota. And he's a good guy to ask about working attire in extreme conditions. He doesn't wear shorts, but developed a system for rotating work pants for comfort in all climates:

"I always wore jeans all year around working outside from 100-plus above to -75 wind chill. I would buy three pair of jeans in the fall and wear until the end of spring," he said. "They were then much lighter and cooler in the summer. By the time the weather got cooler they could be very thin with holes in them.

"The jeans I have now for next year weigh between 819 to 1058 grams (1.8 to 2.3 pounds)," he continued. "I found something much cooler, white painters pants. My lightest pair weighs 351 grams (0.77 pounds) and feel so cool, like wearing a screen door compared to those heavy jeans."

I'm still waiting to hear from a technician who wears shorts on the job. As I reported earlier, OSHA, the Occupational Safety and Health Administration, does not specifically weigh in on the safety of wearing shorts on the job. OSHA leaves the issue up to individual businesses. It recommends companies consider hazards like exposure to chemicals or pathogens and worker comfort in extreme conditions when setting dress code and safety policies.

What do you think? Let me know at editor@pumper.com. **P**

**Marsh** *Merry Christmas from our family to yours!*  
 Kalkaska, MI **INDUSTRIAL**  
 p: 231.258.4870 f: 231.258.2019 sales@marshind.com  
**800.952.1537 - WWW.MARSHIND.COM**

**SLIDE-IN UNITS** **MINI VAC TRAILERS**

*Thank you American Grease & Septic. It was a pleasure working with you!* *Industrial Units DOT Code & Non Code*

**VACUUM SEPTIC UNITS**

*Aluminum Or Steel Tanks In A Variety Of Capacities*

**PORTABLE TOILET UNITS**

*Portable Toilet Restroom Service Units*

**DOT INDUSTRIAL VACUUM UNITS**

*DOT Code & Non-Code Hoist & Rear Door Options*

**Quality People Doing Quality Work**

**f** Join us on Facebook See the progress of some of our units in the making.  
 Check out our website for more information: [www.marshind.com](http://www.marshind.com)

# Tough Septic Sites Are Our Specialty



**eljen**  
CORPORATION

Innovative Onsite Products and Solutions Since 1970

800-444-1359 • www.eljen.com



Season's  
Greetings

**TSI**  
TANK SERVICES, INC.

**CALL TODAY FOR SAVINGS**  
Professionals in the Vacuum Tank & Trailer Industry  
866-720-4999 www.tankservicesinc.com

Jerry Blake  
Cranston, RI  
jerry@tankservicesinc.com  
Cell: 401-688-0043

Amanda Hensarling  
Baytown, TX  
amanda@tankservicesinc.com  
Cell: 401-339-9992



**2023 T880 Kenworth Decant** | (200/4000/1400) NVE 4310, CAT jetter package  
**CALL FOR PRICING**



**2006 Peterbilt** | CAT engine, manual transmission, NVE pump  
**READY FOR WORK** 367 pump package, 4,000 gallon aluminum tank



**2023 Kenworth T880** | 20/20/46, Ultra-Shift, NVE 4310, CAT 660 jetter package, LED lights, LED strobes, 4-camera package, NAV system, alum. tank  
**CALL FOR PRICING**



**2023 Freightliner** | NVE 607, Heated ProVac cabinet, 950 SS tank  
**GREASE TRUCK** NON-CDL



**2015 International 4300** | ISB250/250HP Cummins, Allison 2500 RDS, 12/21, 2,650 gallon aluminum tank, NVE 607 or B500 package  
**IN PRODUCTION**



**7000 - 9000 Gal. Aluminum Tri-Axle Trailers** | Air ride suspension (tri-axle), pump platform, bright finish, LED lights, Betts valves.



**Used 2021 T370 Kenworth**  
**GREASE TRUCK**

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

**Pumps For Sale**

NVE 866, 4307 and 4310 Slim Packages Available



**NVE**  
NEW ENGLAND  
DISTRIBUTOR



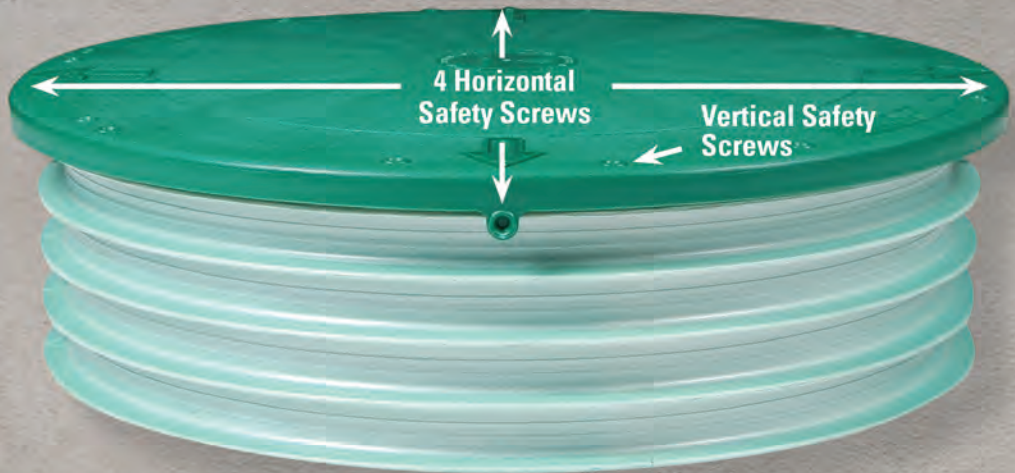
**Need Equipment? Contact Us We Can Get It.**

# 24" HEAVY DUTY MULTI-PURPOSE FLAT RISER LID

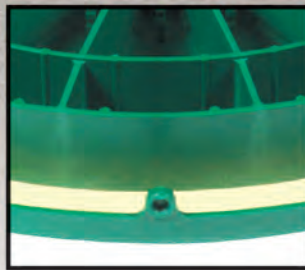
**Fits most commercially available:**

- Risers
- IPEX PVC Ribbed Pipe
- Corrugated Pipe

**LID MAY BE USED WITH OR WITHOUT CONCRETE CENTER**



Secured by 6 Vertical and 4 Horizontal Safety Screws. Screws Included.



Foamed-in Permanent Polyurethane Gasket.



Concrete Keepers™ Holds up to 70 lbs of Concrete for Added Safety.



Water-TITE™ Joint Vertical and Horizontal Safety Screws

## 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®  
800 GPD ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

NSF®  
COMPONENT ANS/NSF Standard 46

TB-4 Housing 18/carton

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

# @Pumper.com

Visit the site daily for new, exclusive content. Read our blogs, find resources and get the most out of Pumper magazine.



SEASONAL SEPTICS

## winterization basics

In cold climates, many residences are seasonal. Shutting down a septic system for the winter is a vital task for seasonal homeowners to prolong the life of the system and to keep it operating at peak performance. Precautions taken in the fall can help prevent a frozen system. This online article includes tips to help your seasonal customers close up their septic system.

[pumper.com/featured](https://pumper.com/featured)

A CLOSER LOOK

## onsite system control boxes

Outdoor equipment used in residential wiring must be weatherproof. The



two most common types of weatherproof equipment are driptight and watertight. Learn more about onsite system control boxes in this online exclusive article by Sara Heeger of the Water Resources Center at the University of Minnesota.

[pumper.com/featured](https://pumper.com/featured)

“ Soil survey information can be used to inform and direct the in-field part of a site evaluation and can be used to establish design parameters when the knowledge is applied in the field. ”

– *How Should You Use Soil Survey Data In the Field?*  
- [pumper.com/featured](https://pumper.com/featured)



PUMP INSTALLATION

## keys to doing it right

Proper installation of a pump and discharge assembly requires three specific features to assure the pump will work properly and be serviceable. It must be accessible, replaceable and properly controlled.

[pumper.com/featured](https://pumper.com/featured)

A DIRTY JOB

## keeping things clean

Kurt Cortese loves things clean and he loves cleaning them. So, whether attending to his own home or servicing the grease trap at a client's business, he's in his element. He's co-owner of Cortese Pump Services in Wayne, New Jersey. The company strictly focuses on grease work — pumping traps and interceptors and providing regulatory inspections.

[pumper.com/featured](https://pumper.com/featured)



› CONNECT WITH US

 **emails and alerts**

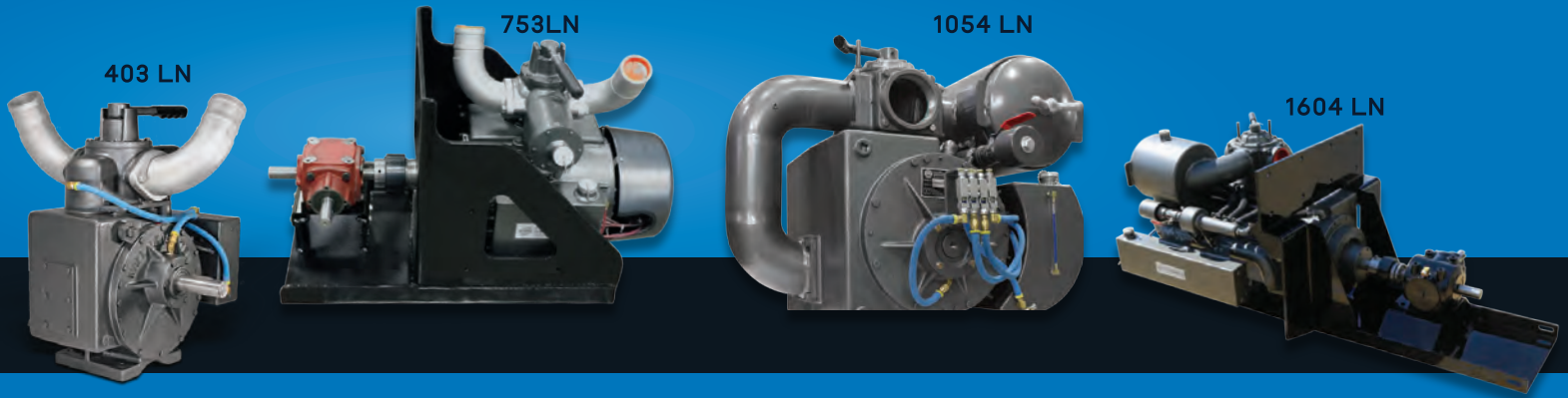
Visit [Pumper.com](https://Pumper.com) and sign up for newsletters and alerts. Get exclusive content delivered right to your inbox, and stay in the loop on topics important to you!

**want more?**



Find us on Facebook at [facebook.com/PumperMag](https://facebook.com/PumperMag) or Twitter at [twitter.com/PumperMag](https://twitter.com/PumperMag)

# LIQUID COOLED VACUUM PUMPS (220-800 CFM)



**Wallenstein**  
vacuum pumps

Manufactured by  
**EM** elmira  
machine  
industries inc.

**wally**  
vacuum pumps  
WALLENSTEIN.COM

1.800.801.6663



**vacutrux**

**SEPTIC TRUX**

from 1800USG to 5600USG,  
Multi-axle configurations to  
meet state or provincial regulations

VACUTRUX.COM



1.800.305.4305



**EXPLORER**



MANUFACTURED BY  
**McKEE**  
TECHNOLOGIES INC.

**TRANSPORTER**  
TRAILERS



ALBERTA	ONTARIO	QUEBEC	ARIZONA	CALIFORNIA	COLORADO	FLORIDA	TEXAS
Tel: 886-587-7262	Tel: 519-669-5720	Tel: 819-820-7659	Tel: 480-208-6997	Tel: 530-832-0370	Tel: 303-526-5370	Tel: 321-830-2239	Tel: 817-453-7401

1.866.457.5425

MCKEETECHNOLOGIES.COM





VISIT: [FLOWMARK.COM/USA](http://FLOWMARK.COM/USA)

**VACUUM TRUCKS**  
1,000 - 5,500 GALLONS



**ORDER NOW TO RESERVE  
4TH QUARTER BUILD SLOTS  
TO QUALIFY FOR  
SECTION 179 TAX DEDUCTIONS!**



**RESTROOM TRUCKS**  
800 - 2,500 GALLONS

☎ 833.653.8100

✉ [sales@flowmark.com](mailto:sales@flowmark.com)

🌐 [www.flowmark.com](http://www.flowmark.com)

**MRP**  
MILWAUKEE RUBBER PRODUCTS

**HOSE &  
EQUIPMENT  
SPECIALISTS**

**Kanaflex**  
Hose Distributor

**Fast Shipping!**

[www.MilwaukeeRubber.com](http://www.MilwaukeeRubber.com)

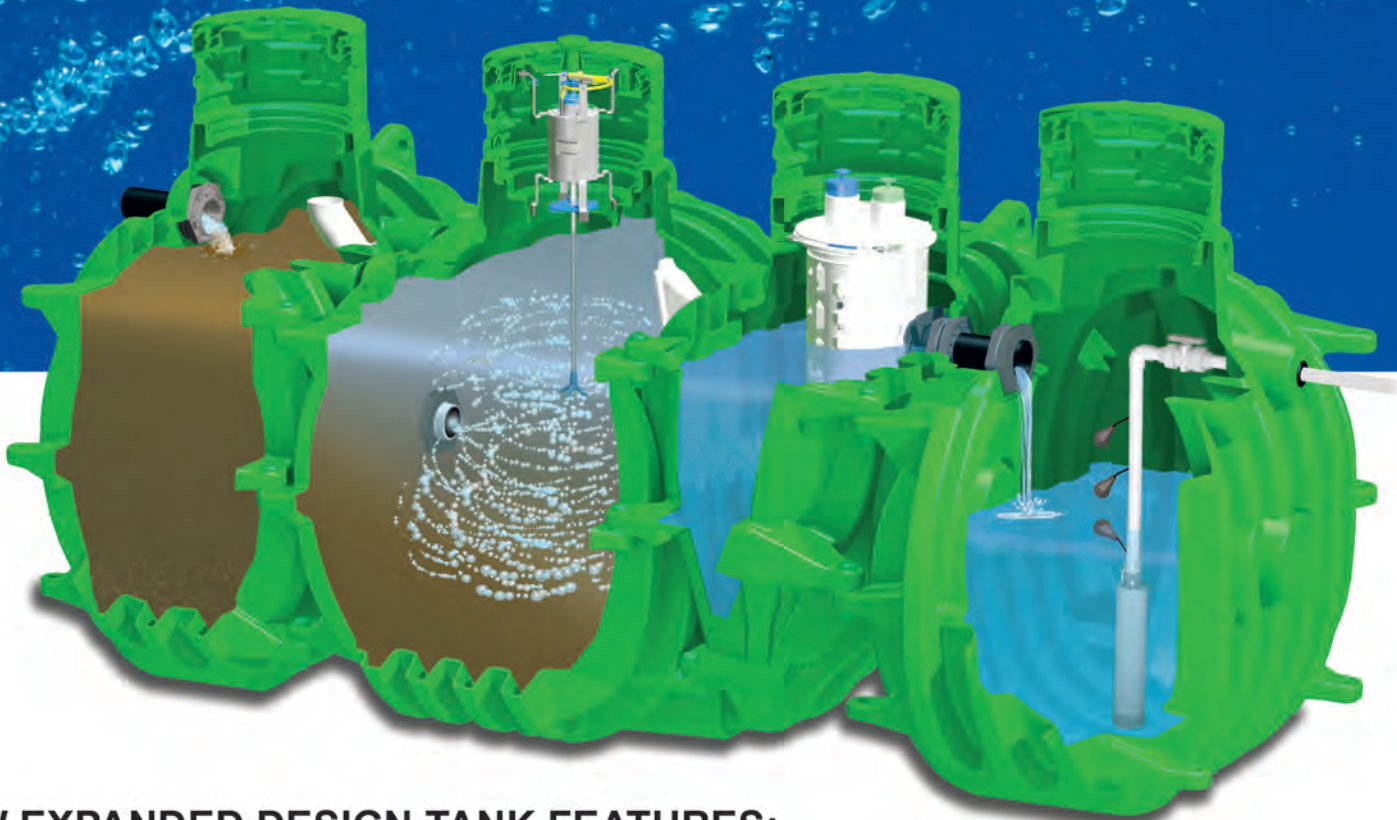
800-325-3730





**GO GREEN!**

**SINGULAIR GREEN®  
NEW EXPANDED DESIGN**



**NEW EXPANDED DESIGN TANK FEATURES:**

- ◆ Allows for a 520 gallon pump tank downstream of the system
- ◆ Optional connection points on inlet and outlet walls for attaching additional chambers upstream and downstream of the system
- ◆ Modified rib pattern provides interlocking capability to allow for the integration of additional tankage



Contact **TEAM PINK** Today!



**PROGRESS THROUGH SERVICE SINCE 1906**

1-800-NORWECO [www.norweco.com](http://www.norweco.com) [email@norweco.com](mailto:email@norweco.com)

## ► Pumper PROFILE



### C. M. Kristman Septic Services Coatesville, Pennsylvania



**OWNERS:** Charlie Kristman  
**FOUNDED:** 1979  
**EMPLOYEES:** 8  
**SERVICE AREA:** Chester County and surroundings  
**SERVICES:** Onsite system installation, repair, inspection, maintenance, pumping  
**BUSINESS VOLUME:** 150 onsite systems installed and 600 tanks pumped per year  
**AFFILIATIONS:** Pennsylvania Septic Management Association, Delaware On-Site Wastewater Recycling Association, National Onsite Wastewater Recycling Association.  
**WEBSITE:** [www.allamericansepticpumping.com](http://www.allamericansepticpumping.com)

# STILL GOING STRONG

**C**harlie Kristman has a simple belief about work: “You’ve got to like what you do. If you like your job, you’re going to do it well. It comes to you very easy, and the money rolls right in.”

Kristman has lived out that belief as owner of C.M. Kristman Septic Services in Coatesville, Pennsylvania. At age 72, Kristman still shows up early for work, leading a team of eight employees in a business that installs some 150 septic systems per year.

Simply stated, he loves working with machinery, whether that’s digging a hole for a septic tank or moving earth to complete all the site work for a new home.

“I don’t want to play golf every day,” says Kristman, who founded the business in 1979. “I would get bored with that. Playing two or three days a week is fine, and I can still come into the office, work on the equipment and maybe take on a digging job. I like to get up at the crack of dawn, get it done and then ease off in the afternoon. That’s the way I’ve always been.”

### A NATURAL OPERATOR

Born in Birdsboro, Pennsylvania, Kristman grew up in nearby West Chester. After high school he worked in logging for a few years and then joined a company that installed fencing. As a side job to feed his wife and two children, he cut and



Charlie Kristman has owned his installing and pumping company for more than 40 years. He succeeds with a strong work ethic and a love of his profession.

By Ted J. Rulseh

split firewood. For that endeavor the owner of a housing development company allowed him to use one of his bulldozers.

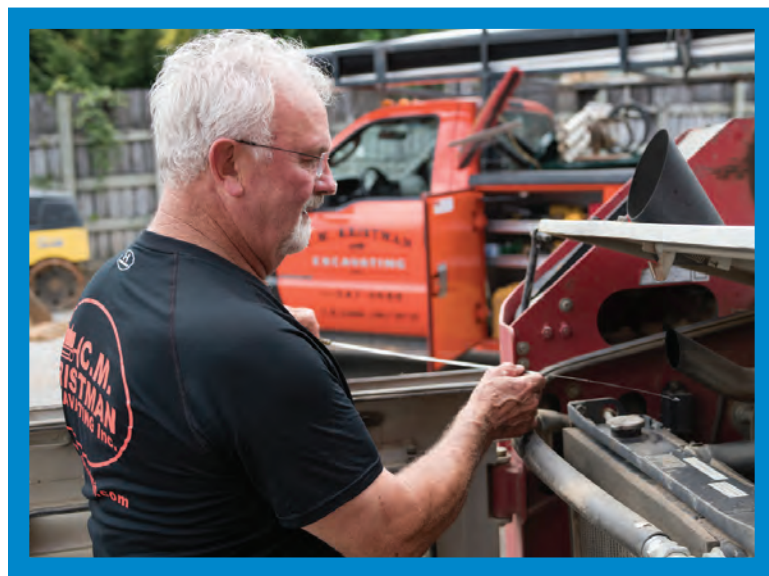
“He saw me running it and noticed I could run them really good. He offered me a job at \$4 an hour, which was a lot of money back then (late 1960s). I worked with him for about a year and got the taste of operating heavy equipment.

His next job was with a different company operating a backhoe for several years. “I got real good at it,” he recalls. “A lot of people wanted me to do work for them because I could get work done quick.” In 1979, after his employer declined to add health insurance to his compensation, he left to go into business for himself. “I vowed that I would always give my employees insurance,” he says. “I still do it to this day.”

Kristman bought his first backhoe with help from an \$11,200 bank loan. As his reputation and the company grew he began adding people and bought a loader, a dozer and a trackhoe. “At one time I had 16 employees,” he says. “Then we dropped back down to 11, and now we have nine, which is more manageable.

He credits his office staff of Sherry Robinson and Kelly Sepela for helping to grow and sustain the business. “When customers call here, somebody answers the phone,” he says. “People love that. Nothing is worse than having a robot answer the phone. People want to hear a live person.

The C. M. Kristman Septic Services team includes, from left, Kelly Sepela, Sherry Robinson, Charlie Kristman, Joe Mowday, Scott Mason, Alexis Romero, Jeremy Good, Ferdinand Williams, Jesus Romero. (Photos by Kirk Zutell)



Equipment maintenance is important to Kristman, shown working on a machine in the company yard.

“Sherry and Kelly are so experienced that they know exactly what to say to the people. They make them feel comfortable, and they don’t want to go anywhere else. They know everything. They have all the answers, or if they don’t know, they find someone who does. Many customers come up and tell me how wonderful they are, just a pleasure to talk to.”

### FOCUS ON INSTALLS

Taking care of business in the field are Ferdinand Williams, project manager, and Joe Mowday, Scott Mason, Jeremy Good and Jesus Romero, installer/operators.

From its beginnings the company focused on installations and kept pumping at arm’s length.

The installation is strong. The company’s office lies about 35 miles west of Philadelphia, and the surrounding Chester County is seeing strong residential growth with homes that typically range from 2,500 to 10,000 square feet.

The terrain is hilly; the soils are largely well drained sand and schist. “We’re putting a lot of alternate systems in because a lot of the good ground is used up already,” Kristman says. Most of the alternatives are at-grade systems: the surface soil scarified, 10 inches of crushed stone rock laid down, covered by geotextile, and backfilled with soil. These systems use pressure distribution via 2-inch pipe; Kristman favors Goulds pumps.

**“ WE STILL ONLY HAVE ONE TRUCK, AND THAT’S ALL WE WANT. IF I WANTED TO GO AFTER IT I COULD PROBABLY HAVE FIVE OR SIX TRUCKS, BUT I DON’T WANT TO GO THERE. ”**

CHARLIE KRISTMAN

## ► Pumper PROFILE



► Technician Jesus Romero pumps a residential septic tank using a 2022 International vacuum truck built out by Transway Systems.

► Romero grabs suction hoses to cross a lawn to reach a septic tank for pumping.



“ I LIKE TO GET UP AT THE CRACK OF DAWN, GET IT DONE, AND THEN EASE OFF IN THE AFTERNOON. THAT’S THE WAY I’VE ALWAYS BEEN. ”

CHARLIE KRISTMAN

In poorly drained soils the company often opts for drip irrigation (tubing and componentry from American Manufacturing) and aerobic treatment units from Norweco. For conventional system drainfields Kristman favors crushed stone with 4-inch perforated pipe.

The company’s go-to machines are a 2019 Takeuchi TB280 trackhoe, a 2014 Takeuchi TL230C skid loader, and a 2014 Caterpillar CAT 305 ECR mini-excavator. Helping to move equipment and materials are three dump trucks, a 1988 Peterbilt with a Galion dumpbody, a 2005 International with a Heil dumpbody and a 2011 GMC Sierra with a Reading dumpbody, as well as a 20-ton Trail King trailer, and a 1-ton Kauffman trailer.

### BRISK BUSINESS

Last summer, the company had a three-month backlog of installation jobs, even while investing next to nothing in advertising. “We’re one of the oldest installers in this area,” Kristman says. “My name has been around

here for a long time. It’s all word of mouth.”

That and excellent workmanship, according to Kristman: “We treat each site like it’s our own place. We want to leave it the way it was when we got there. We’re not landscapers, but we have the machines to do it, and we’ve been doing it for 15 years. We do the raking and seeding. People want the whole job done. They don’t want to have to hire somebody else for the landscaping. So we do it all.”

System repairs and replacements are a substantial part of the business. Pennsylvania requires septic system inspections at the time of property sale, following a state-prescribed protocol. “The inspections find all kinds of things wrong, and when that happens the system has to be repaired or replaced. We get a lot of that work.”

C.M. Kristman performs inspections and is careful to avoid conflict of interest in taking on repairs that may result. “Many people say they want us to do the work,” Kristman says. “We don’t want them to feel they have to

*(continued)*

**NEW YEAR,  
NEW EQUIPMENT?!**

**GapVax®**  
#BESTTRUCKSINTHEBUSINESS



- WET/DRY SINGLE MODE FILTRATION
- OPTIMUM WEIGHT DISTRIBUTION
- ROAD LEGAL
- IMPROVED SAFETY FEATURES
- INCREASED PERFORMANCE



**JET7**

GAS OR DIESEL • NATM CERTIFIED  
"THE BETTER JETTER"



AIR MOVERS

HYDRO EXCAVATORS

COMBO JETVACS

RECYCLE JETVACS

JETTERS

TRAILER JETTERS

PARTS & MORE

Thank you for another great year! 2022 had its challenges but we couldn't have gotten through without our dedicated team, dealers, vendors and customers! Thank you! We look forward to seeing you at the WWETT show in February and all of the other events coming up in 2023!

For the #1 Choice Manufacturer of custom-built industrial and municipal vacuum equipment, GapVax has what you need!! Check out [gapvax.com](http://gapvax.com) for more information and keep up to date with us on social media!



**888-442-7829**  
JOHNSTOWN, PA

**281-884-8658**  
LA PORTE, TX



*Wishing you a safe & Healthy holiday season! Merry Christmas!*

## ➤ Pumper PROFILE

At the end of the work day, worker Alexis Romero cleans up a Takeuchi TL230C skid loader used for site work.



Technician Joe Mowday jumps in a Ford F-550 work truck to head out on a job.



hire us. We tell them they're free to get other prices and go someplace else. But most of the time they want us to do it."

### GROW INTO PUMPING

The pumping side of the business grew naturally from installations. Kristman recalls, "I just enjoyed digging; I didn't want to pump." So he subcontracted that work until customers began saying they wanted him to do it. "So I bought a pump truck"

He started with a small single-axle truck and used that to fill a 9,000-gallon tanker, which then hauled the septage to a local wastewater treatment plant. In 2007 Kristman bought a new Peterbilt with a 4,000-gallon steel tank and Fruitland pump from Transway Systems.

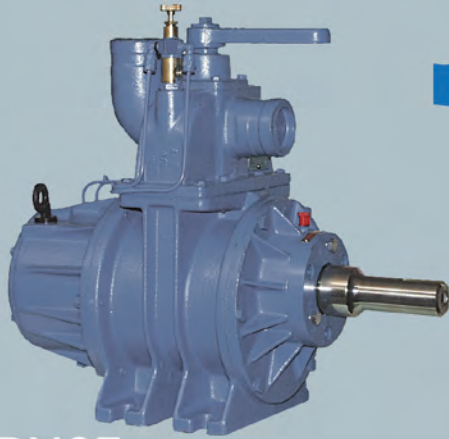
"We still only have one truck, and that's all we want. If I wanted to go after it I could probably have five or six trucks, but I don't want to go there. I'm happy just doing what we do." His son, Charles, does well in the pumping business with his own company, Quantum Environmental; grandsons Cole and Tyler work for their dad.

### LOVES THE JOB

Even after more than 40 years owning the company, Kristman enjoys the work and leading a team. Most of his team members are relatively young, have worked with the company since the 2008 recession, and have a strong work ethic: "We start work at 7, but they're in here 6:15 or 6:30, having coffee and talking."

(continued)

# Jurop



PN23  
92 CFM  
\$1,450<sup>00</sup>



XR260  
363 CFM  
\$3,200<sup>00</sup>



PN84  
317 CFM  
\$2,500<sup>00</sup>



XLC420  
425 CFM  
\$3,960<sup>00</sup>

**POWERFUL**  
**BOLD**  
**PROVEN**  
**INNOVATIVE**  
**TESTED**  
**2 YEAR**  
**WARRANTY**



*Get 'Em Before They're Gone!*



**VARCO**  
SUPPLY

VARCOHYDRO.COM • TOLL FREE 866-872-1224 • VARCOSUPPLY.COM



SOURCE KEY 12P22



◀ Romero hits grease fittings on a Takeuchi skid loader during a maintenance check.

“ WE TREAT EACH SITE LIKE IT’S OUR OWN PLACE. WE WANT TO LEAVE IT THE WAY IT WAS WHEN WE GOT THERE. ”

CHARLIE KRISTMAN

Kristman still enjoys jumping on a machine and tackling an excavating or grading job. In his spare time, besides golf, he enjoys fly fishing for trout on the streams near State College, Pennsylvania, and on the West Branch of the Delaware River in New York.

For younger people starting in business he advises, “Go slow and easy. Don’t grow too rapidly. Don’t keep borrowing money until you’ve got more going out than coming in. You want to get some capital built up. When I buy equipment now, I write a check and pay for it.

“Try not to get in over your head. Don’t live above your means. When your credit card bill comes in, if you can’t afford to pay it off every month, you shouldn’t have one.”

He recognizes that younger people, like his son and grandsons, have different ways of approaching work: “My grandkids can’t believe I still get up early in the morning and roll past their house while they’re still jumping out of bed.” But at the same time, “It warms my heart when I see younger people in the business working hard and really trying.” **P**



## Salvaging an imploded tank

C.M. Kristman Septic operates just one vacuum truck, a 2007 Peterbilt with a 4,000-gallon steel tank, a Fruitland pump and 350,000 miles on the odometer.

Late last year the old tank imploded. Without a second truck as backup, “We had to do something to keep running, or else we were dead in the water,” says Charlie Kristman, owner of the business. “The pumps on the truck have so much suction that they just pulled it in. We tried to jack it out from the inside. We probably could have done it if we had spent more time at it, but I wasn’t too interested in that, I just wanted to keep it from pulling in any more.”

Working with grandsons Cole and Tyler Kristman, he managed to brace the tank and get the truck back on the road while waiting for a new vacuum truck being built by Transway Systems.

The job was carried out safely, following OSHA confined-space procedures.

With the top manway open and a blower infusing fresh air through the rear gate, they pressure-washed the tank interior and then let it sit for a couple of weeks. Tyler helped cut the steel for the bracing. Cole worked inside the tank, wearing a harness connected to a tripod mounted on the tank. He welded supports in place to keep the tank stable.

“I would have gone in and welded it myself but I’m too claustrophobic,” Charlie says. “I had a light set up in there. We had air blowing in the whole time. It didn’t even smell like sewage inside. The thing we were concerned about was smoke from the welding.”

Once the job was done, the truck was serviceable until delivery of the new truck, a 2022 International from Transway Systems with a 4,000-gallon steel tank and a positive-displacement blower.

MORE INFO

**American Manufacturing Co., Inc.**  
800-345-3132  
[www.americanonsite.com](http://www.americanonsite.com)

**Norweco, Inc.**  
800-667-9326  
[www.norweco.com](http://www.norweco.com)  
See ad, page 17

**Fruitland Manufacturing**  
800-663-9003  
[www.fruitlandmanufacturing.com](http://www.fruitlandmanufacturing.com)

**Takeuchi Mfg.**  
706-693-3600  
[www.takeuchi-us.com](http://www.takeuchi-us.com)

**Goulds Water Technology,  
a Xylem Brand**  
866-325-4210  
[www.goulds.com](http://www.goulds.com)

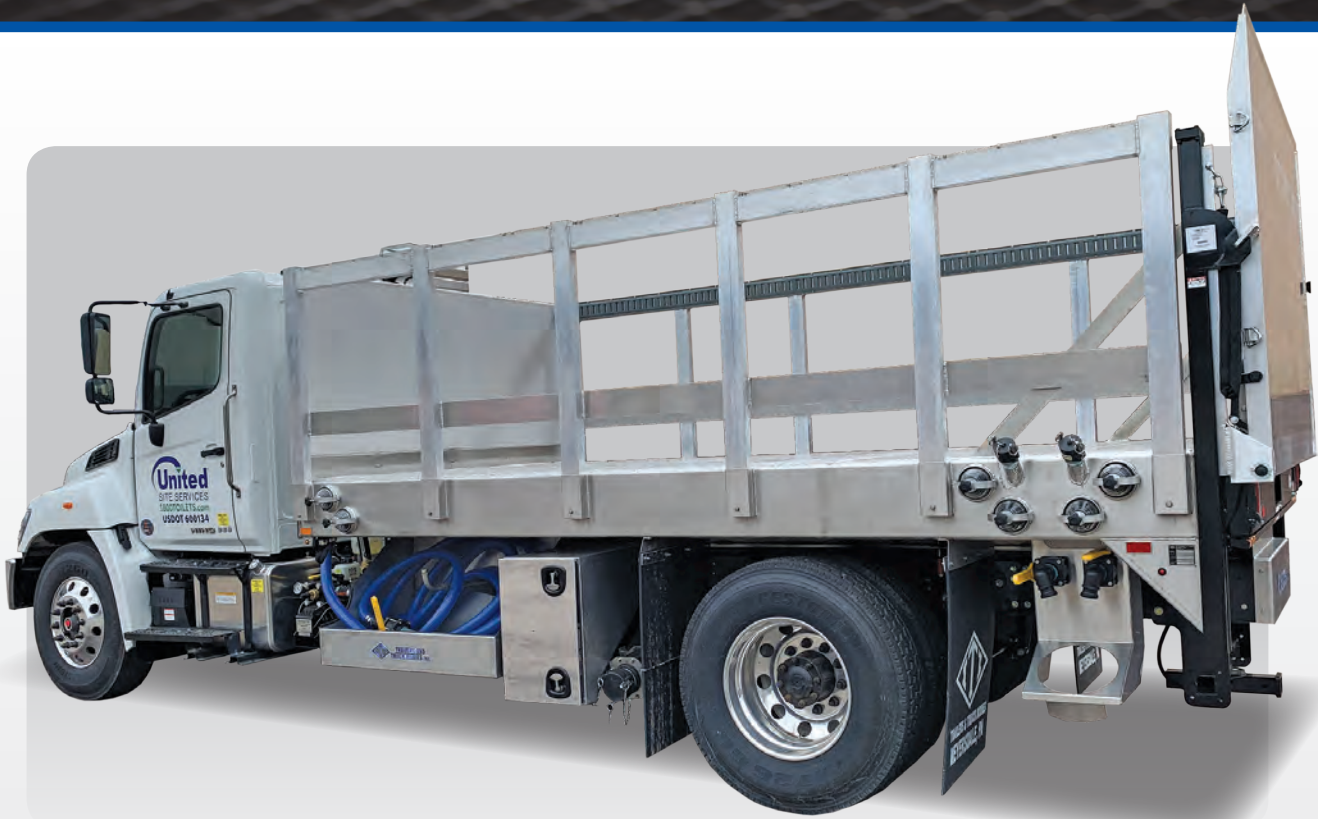
**Transway Systems, Inc.**  
800-263-4508  
[www.transwaysystems.com](http://www.transwaysystems.com)  
See ad, page 5





**TRAILERS AND  
TRUCK BODIES**  
INCORPORATED

**Custom Manufacturer of  
Vacuum Trucks & Trailers**



5500 Gallon Stainless Steel Tank ◊ NVE 4307 Blower



5000 Gallon Carbon Steel Tank ◊ 607 NVE Pump

**We  
Manufacture  
& Service  
What  
We Sell.**

ASME Certified

Building DOT 407/412 Equipment



Stainless Vacuum  
Trucks & Trailers



Grease Trap  
Pumper Trucks



DOT 407 - 412  
Cargo Tank Trailers



Portable  
Restroom Trucks



Aluminum Vacuum  
Trucks & Trailers



Carbon Steel Vacuum  
Trucks & Trailers

To learn more about  
ITI Trailers and Truck Bodies,  
call **1-888-634-0080**  
or visit  
**www.itimg.com**

1.888.428.6422

SNELSON@TANKTEC.BIZ

# TankTec

Tank Technologies & Supply Co, LLC

WWW.TANKTEC.BIZ

300 to 6000 Gallons  
Aluminum or Stainless

## FORD 1500 GALLON



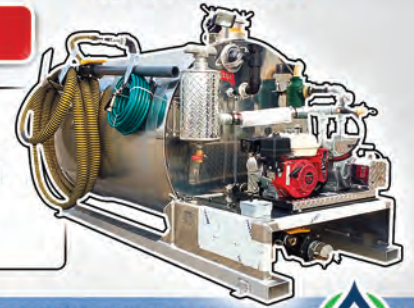
## INTERNATIONAL 4000 GALLON

## 2000 GALLON PORTABLE RESTROOM



### SLIDE IN TANKS

**Standard Features:**  
Aluminum construction  
25' vacuum hose with valve and wand  
Honda engine driven vacuum pump  
12v water pump



**TankTec** FACTORY BUILT TRUCKS, BUILT-TO-ORDER  
IN-STOCK, FINANCING & LEASE OPTIONS



# ILLUMI-JET UV DISINFECTION UNIT<sup>®</sup>

## MODEL 952

- UL listed as a NEMA 6p enclosure (watertight submergence test)
- Install directly in ground or in pump tank on the effluent line
- Complete disinfection without the use of chemicals
- Hermetically sealed electrical components
- High capacity disinfection reservoir
- Kapton<sup>®</sup> seals improve serviceability
- Rated treatment of 10 gallons/min

Easy to service

Rugged construction

Dependable electrical design

Innovative disinfection design

*\*Replacement parts to fit most UV disinfection units*



www.jetincorp.com

**Jet<sup>®</sup>**  
Wastewater Treatment Solutions  
Founded on Innovation. Anchored by Service.<sup>®</sup>

In Business Since 1959



# TUFF-JON

Portable Toilets | Holding Tanks | Hand Wash Units | Accessories

## Wishing You Happy Holidays



TJ Kids



TJ Shorty



Tuff-Jon III



Tuff-Jon



100 Gallon Fresh Water Supply Tank



60 Gallon Rinse Tank



Containment Tray



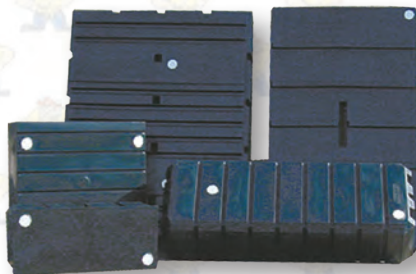
Sink Lifting Bracket



90 Gallon Free-Standing Sink with Optional Handicap Accessible Sink (45 gallons fresh water)



TJ Junior Single Free Standing Sink (16 gallons fresh water)



- Tank sizes 60, 105, 225, 300 and 440 gallons.
- Standard holes are 2 - 3" holes with plugs
- Can customize holes to match your specs



Interior View of Deluxe TJ-III



TJ Handy Stand Waterless Gel Touch Dispensers

- Lifting Bracket Assembly
- Sky Heater
- Corner Shelf
- Towel Dispenser
- Hand Washer Available For Both Styles of Tuff-Jon



**The TSF Company Inc.** Toll Free: 1-800-843-9286 | 812-985-2630 | Fax: 812-985-3671  
 2930 S St. Phillips Rd. | Evansville, IN 47712 Email: [aschenk@tuff-jon.com](mailto:aschenk@tuff-jon.com) | Website: [www.tuff-jon.com](http://www.tuff-jon.com)

# BEST of the BUNCH



Don't forget to vote for your favorite Classy Truck!

**A**s a busy 2022 comes to a close, we throw open the virtual garage doors and give you a peek at entries for the Classy Truck of the Year contest. Come on in, look them over from tip to tail. Compare the eye-candy features and paint work. Then help the staff of Pumper magazine choose the winning rig.

With your input, we'll pick the Classy Truck of the Year and feature the hard-working vehicle in February 2023. That's the WWETT Show issue of *Pumper*, which is distributed at the biggest event in wastewater Feb. 21-23 at the Indiana Convention Center in Indianapolis.

Here's another look at the rigs featured in the past 12 issues of the magazine. Follow the instructions to cast a vote for your favorite at [www.pumper.com](http://www.pumper.com). **P**

## CAST YOUR BALLOT TODAY!

**Step 1.** Look over the 12 Classy Trucks for 2022.

**Step 2.** Choose your favorite.

**Step 3.** Go online at [www.pumper.com/classy](http://www.pumper.com/classy) and vote. (One vote per IP address allowed.)

## ACT NOW!

The deadline for voting is Thursday, December 22.

### › JANUARY



**Northrup Septic Service**  
Tully, New York

Dewey Northrup Sr. and Dewey Northrup Jr. built a red and chrome 2000 Peterbilt 357 with a restored 2002 3,500-gallon Karymore aluminum tank and a Wallenstein pump. The repurposed road tractor is powered by a Cat C-10 400 hp engine tied to an Eaton Super 10 transmission. The truck features rear-mounted toolboxes, LED strobe lighting and a rear-mounted camera.

### › FEBRUARY



**Godinez Septics**  
Austin, Texas

Orlando Godinez added a white 2020 Peterbilt 337 built out with a 2,300-gallon stainless steel tank and Masport Hydra pump from Best Enterprises. A PACCAR PX-9 300 hp engine tied to an Allison automatic engine power the rig. Features include a SeeLevel An-nihilator gauge, LED work lights, 12-volt heat exchanger transfer tank and Alcoa aluminum wheels.

### › MARCH



**Rural Septic Service**  
Boyd, Wisconsin

Jerry and Chris Jakubowicz added a red 2020 Peterbilt 567 built out by Imperial Industries with a 5,000-gallon steel tank and National Vacuum Equipment 4310 blower. It is powered by a Cummins 450 hp engine tied to an Allison RDS 4500 auto transmission. Features include a freshwater tank with Hannay hose reel, Garnet in-cab SeeLevel, and front and rear LED strobes.

### › APRIL



**Sunset Septic & Excavating**  
La Porte, Indiana

Jon and Cody Houseknecht added a 2012 Kenworth T660 carrying a 3,500-gallon Dumar Welding steel tank and Juroop pump. The truck is powered by a PACCAR 455 hp engine tied to a 10-speed Eaton Fuller transmission. Pik Rite provided aluminum side trays and a backslash plate stamped with the company name. It was assembled and graphics were created in-house.

► MAY



**Wray's Septic Tank & Development**  
Allegan, Michigan

Brian Carroll added a red, white and blue veteran-themed 2014 Freightliner 114SD built out by Imperial Industries with a 3,600-gallon steel tank and National Vacuum Equipment 887 pump. The rig is powered by a Detroit D013 450 hp engine tied to an Eaton Fuller 10-speed transmission. The truck features stainless steel toolbox and wheels, and dual air-ride seats.

► JUNE



**Hainan Sanitation**  
Blairsville, Pennsylvania

John Myers and Lori (Myers) Dudzinsky added this blue 2016 International 4300 built out by Amthor International with a 2,500-gallon aluminum tank and National Vacuum Equipment 607 pump. A Cummins ISB 325 engine and auto transmission provide power. Features include aluminum hose trays, heated valves, LED work lights, stainless steel visor and custom toolbox.

► JULY



**Litzenberger's Septic Service**  
Lebanon, Pennsylvania

Merlin Litzenberger added this Firemist brown 2021 Kenworth W900B built out by Nolt's Services and carrying a 5,400-gallon aluminum Martin's Truck Bodies tank and National Vacuum Equipment 4310 blower. A 450 hp Cummins engine tied to an Eaton 18-speed transmission power the truck. Features include aluminum fenders and a Garnet SeeLevel gauge.

► AUGUST



**Casa Grande Septic Services**  
Eloy, Arizona

Rick Hall added an all-white 2017 Peterbilt 389 with a 5,000-gallon steel waste tank, a 300-gallon repurposed propane tank for freshwater and a Thompson 454 vacuum pump. The truck is powered by a 525 hp Cummins ISX engine tied to an Allison automatic transmission. Most work was done by Ricky and Mark Hall, including a rack to carry a Kubota K008 compact excavator.

► SEPTEMBER



**Bullard Septic Service**  
Sanford, North Carolina

Boyd Bullard added a white 2013 International 4300 with red and blue accents built out in 2020 by National Truck Center with a 2,500-gallon steel tank and Jurop RV360 pump. The truck is powered by a 245 hp Navistar MaxxForce engine wed to an Allison automatic transmission. A nearly vertical lifting tank and 36-inch rear manway allows for quicker dumping.

► OCTOBER



**T.E. Price Septic & Excavating**  
Wayne, Ohio

Kevin and Nancy Auran added this purple 2012 Kenworth W900 built out by Morocco Welding with a 4,600-gallon steel tank and Masport HXL 400 pump. The truck is powered by a Cummins ISX 550 hp engine tied to an Eaton Fuller 18-speed transmission. Features include heated collars, a Garnet SeeLevel gauge, LED side and rear work lights and strobe safety lights all around.

► NOVEMBER



**McGuire's Septic Service**  
Towanda, Pennsylvania

Bishop Brothers Construction subsidiary McGuire's Septic Service added a black 2014 Peterbilt 388 truck built out by Pik Rite with a 4,500-gallon steel tank and Fruitland pump. The truck is powered by a Cummins 600 ISX engine and Eaton Fuller 18-speed transmission combo. The truck features a Garnet SeeLevel gauge, heated valves and upgraded interior wood accents.

► DECEMBER



**Chesapeake Septic Service**  
Stevensville, Maryland

Mark Rousseau added a 2007 Kenworth T800 and rebuilt the rig in-house with his son, Dustin Rousseau. The metallic green and black truck carries a 4,620-gallon steel tank from Crown Tank and a Masport Hydra pump. A 600 hp Cat C15 ACERT engine uses an Eaton 18-speed transmission to bring power to the wheels. Nevius Truck Repair overhauled the engine.

**MAKE YOUR  
NEW RIG  
A CLASSY  
TRUCK!**

Seeing your truck in the pages of *Pumper* is easy!

**Step 1.** Clean and detail your truck.

**Step 2.** Take a variety of photos.

**Step 3.** Send the photos to us, along with a detailed description of the truck and accessories, to [editor@pumper.com](mailto:editor@pumper.com).



# T&T Tools, Inc.

Fax: 800.521.3260

Email: sales@mightyprobe.com

# 800.521.6893

[www.MightyProbe.com](http://www.MightyProbe.com)



### HOOKS...

- > Several different styles of heat-treated hooks are available
- > Top Poppers are great to open manhole covers
- > The Handy Hooks allow two handed use

### PROBES...

- > Insulated, standard, and specialty soil probes
- > Metal shaft sizes: 3/8" round, 3/8" hex, or 7/16" hex
- > Replaceable tips are threaded on and hardened
- > A "slide" allows the handle to pound the shaft into the ground



Phone: 1-844-276-2467

Email: sales@crosoftware.net

Website: [crosoftwaresolutions.com](http://crosoftwaresolutions.com)

No Contracts

No Upfront Fees

Unlimited Updates

Unlimited Users / Drivers

Unlimited Support & Training



*Happy*

**HOLIDAYS**

**FROM THE SATELLITE FAMILY!**





**Ken Wysocky**  
Contributor

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

# Speak Up If You See Racism in the Workplace

**If you want your business to thrive, it's important to push through and address unacceptable behavior that impacts diverse team members and customers**

By Ken Wysocky

**S**peaking up against racism in the workplace is fraught with risk. Yet saying nothing at all only ensures that problems will continue unabated.

Like so many hard conversations, it's important to broach this potentially uncomfortable topic with a well-planned, intentional approach that takes into account a variety of factors, says Dana Brownlee, the founder and owner of Professionalism Matters, a corporate training and consulting company.

"It's hard to talk about racism," she says. "We have a difficult history here, ... and people often feel defensive or guilty. Or they're afraid they might say the wrong thing and be judged for it. There's any number of reasons why these conversations can be difficult."

A more thoughtful approach can help minimize the chances of creating a defensive reaction that ultimately results in people mentally shutting down. That, in turn, renders them unwilling to truly listen to what you have to say and impedes any kind of progress, says Brownlee, who has developed a course for LinkedIn Learning called *How to Speak Up Against Racism at Work*.

But approaches aside, doing nothing is not the answer, notes Brownlee, the author of *The Unwritten Rules of Managing Up: Project Management Techniques from the Trenches*.

"It's like standing on a moving walkway," she explains. "If we just stand still and don't actively turn around and walk in the other direction, you'll still get racist outcomes even though you didn't intend to."

"You can either be non-racist [a passive stance] or be anti-racist, which means you're actively trying to change things by pushing back against biased or potentially offensive comments, policies and so forth."

## Honor different views

So what advice does Brownlee have for people who see racism in the workplace? For starters, you're doomed to disappointment and failure if your main goal is to get everyone in a discussion to view things the way you see them.

"Everyone is shaped by their own life experiences," she says. "We all come from different backgrounds and upbringings, so it's a bit much to think that everyone will see things exactly like you see them. So it's important to give them the space to have their own perspectives. People can shift their opinions, but will only do so over time."

Labeling also is not a good idea. For example, if there are no people of color on a company's board of directors, telling a senior executive that the organization is racist probably isn't an effective approach.

"Unfortunately, the term 'racist' often is perceived as a scarlet letter," Brownlee observes. "Labeling generally is not a productive use of time and energy. It's similar to giving feedback to a less-productive employee; instead of saying they're lazy, it's more constructive to point out that everyone on the employee's team averages 20 sales a month while that employee averages 10 a month."

"So it's important to go to the facts, as in we don't have any Black people on the board of directors, for example, instead of using labels

**“** It's hard to talk about racism ... We have a difficult history here and people often feel defensive or guilty. Or they're afraid they might say the wrong thing and be judged for it. There's any number of reasons why these conversations can be difficult. **”**

– Dana Brownlee

## Firm but diplomatic

In addition, stating things as a question "lands softer" than a statement. It also provides an opportunity to find support by bringing others into the discussion who might have similar views.

For example, instead of stating that the speaker panel for a conference isn't diverse enough, an employee could note that the panel isn't very diverse and ask how others feel about this, given the company's commitment to diversity and inclusion.

While using effective wording is a good strategy, it's also important to make your point firmly, even though it might feel uncomfortable, so it's not easily dismissed.

"I do believe there's a tension point in these conversations between remaining comfortable and making progress," Brownlee says. "If you only push the group to the extent that everyone remains comfortable, you'll only progress

(continued)



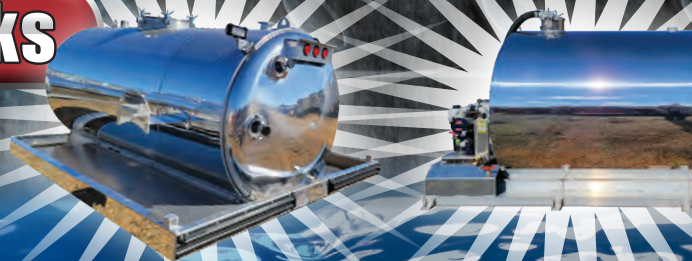
# LANE'S VACUUM TANK, INC.

**BUILT BY  
FOR PUMPER  
PUMPER**

## Aluminum Tanks

All sizes available

**Call for Price**



## Slide-Ins

All sizes available

**Call for Price**

## Dodge, International or Ford



950/300  
Aluminum Tank;  
Gas or Diesel;  
4x2 or 4x4

**Call for Price & Availability**

## Toilet Transport Trailers



**13" Tires • 25" High**

Spare Tire. Adjustable Hitch.  
3500 Pound Axles with Brakes.  
1 Beam Fold Up On Rear  
for Handicap Units

Used trailers also for sale

- 6 Hauler
- 10 Hauler
- 12 Hauler
- 14 Hauler
- 16 Hauler
- 18 Hauler
- 20 Hauler

SLIDE-IN UNITS & USED TRUCKS AVAILABLE / MASPORT, JUROP & CONDÉ VACUUM PUMPS

All Brands and Sizes of Aluminum & Steel Tanks and Trucks are Available

800.592.3308 • 270.527.9945 RODNEY LANE'S CELL 270.832.3793 WWW.LANESMOBILEJOHN.COM

as far as the least progressive person, so there's little or no movement.

"So like anything else in life, if you want to gain any benefit, you have to be able to withstand some level of discomfort. And interestingly enough, we do this in other areas of our lives, such as with personal trainers or therapists. Pushing past discomfort is how we make progress."

### Consider your role

Another thing to consider: While it's so important for everyone to speak up against racism — particularly white people — it's also important for them to thoughtfully consider how their position and perspective might differ from their counterparts of color.

"If I'm part of a marginalized community, I can speak from a certain perspective," she notes. "But if you're a white guy and you notice that Black colleagues don't get promoted, get talked over or always get assigned to more menial tasks, it's important for you to speak up about that."

"But I'd recommend that you first consider talking to some colleagues of color to learn more, gain additional perspectives or even garner support before you step in."

But Brownlee stresses that while it's ideal to check off these boxes to make your argument more palatable, it can't be a prerequisite. The truth is that uncomfortable conversations sometimes are a necessary part of true progress.

Brownlee also says it's critical to strategically consider stakeholder interests when you want to push forward a potentially controversial viewpoint or objective. For example, which people or parties will be most impacted by your proposal? Who are the most influential people? Who might be for or against whatever you're proposing? What motivates key people in the decision-making process?

"You can't just blurt something out in a group meeting," she advises. "You may want to consider what motivates people at a meeting. Maybe it's a legal issue — avoiding a lawsuit — or a return-on-investment issue for them. Knowing what motivates them will help you align your pitch with their interests and build a good business case."

"After that, you can collect data that supports and appeals to their motivations."

### Other considerations

Moreover, it's also important to think about the best setting for approaching this sensitive topic. Maybe a one-on-one convo in an office is best. Or a group setting. Or an offsite lunch. Maybe a third party should be present to mediate a bit, she suggests.

"You have to think about the logistics around it. It can make a big difference, so be sure to think it through."

The bottom line: Don't be daunted. And silence is not an option.

"It's always risky to speak truth to power, especially if you work in an environment that's not open to new ideas or that's autocratic," Brownlee says. "You could be ostracized — not be invited to sit at the cool kids' table at lunch anymore — or suffer other repercussions."

"But the real key to truly building an anti-racist workplace is to get out of the mindset that it's only the responsibility of the people who run the diversity, equity and inclusion programs or the responsibility of the board of directors. It's everyone's responsibility." **P**

## HAVE SOMETHING TO SAY?

To share your opinions about *Pumper* articles just send an e-mail to our editor at: [editor@pumper.com](mailto:editor@pumper.com)

THE FUTURE OF INDUSTRIAL PUMPS BROUGHT TO YOU BY



**ANNOVI  
REVERBERI**  
The Power of Experience

**AR** RTD



**Industrial**

140° F - Max Water Temp  
1 1/2" - Inlet Thread  
1" - Discharge Thread  
110 oz - Oil Capacity

**RTD 1000 RPM N VERSION SOLID SHAFT 35MM**

MODEL	MAX GPM	MAX L/MIN	MAX PSI	MAX BAR	POWER EBHP	BORE DIA MM	STROKE MM	CRANKSHAFT ID STAMP	WEIGHT LBS.
RTD80-300	21.0	79.5	4350	300	65.0	32	42	4	128
RTD100-200	25.0	94.6	2900	200	49.8	32	42	3	128
RTD100-200SX	25.0	94.6	2900	200	49.8	32	42	3	128
RTD130-160	32.0	121.1	2300	160	50.5	36	42	3	128
RTD130-200H	34.5	115.0	2900	200	68.0	36	42	3	128
RTD160-130	40.0	151.4	1850	130	50.8	40	42	3	128

SX - 180° Rotated Shaft Configuration  
H - Nickel Plated

**AR** RTX



**Industrial**

140° F - Max Water Temp  
1" F - Inlet Thread  
1/2" F - Discharge Thread  
76 oz - Oil Capacity

**RTD 1450 RPM N VERSION 30 x 80MM SOLID SHAFT**

MODEL	MAX GPM	MAX L/MIN	MAX PSI	MAX BAR	POWER EBHP	BORE DIA MM	STROKE MM	CRANKSHAFT ID STAMP	WEIGHT LBS.
RTX30	8.0	30.3	4350	300	23.9	20	23	3	72
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
RTX-HW85.150N*	21.0	85.0	2200	200	31.7	36	23	1	72
RTX100	24.0	90.8	1800	124	29.8	36	23	3	72
RTX150	39.6	150	1450	100	36.2	40	28	1	72

\*HW - includes Hot Water Kit

**AR** NORTH AMERICA  
When Quality Matters  
www.arnorthamerica.com  
763-398-2008

For More Information Contact

Thom Calvin  
(763) 398-7564  
thomasc@arnorthamerica.com

Randy Rowan  
(768) 999-5405  
randyr@arnorthamerica.com

**MID-STATE**  
TRUCK SERVICE, INC.



WE OFFER ALUMINUM, STEEL & STAINLESS TANKS, AS WELL AS BLOWER & VANE PUMP OPTIONS

Contact: Cody  
(715) 845-2244 ext. 4105 or  
codyc@midstatetruck.com  
www.MidStateTruck.com



**FULL PACKAGE FINANCING & LEASE OFFERS AVAILABLE**  
PRICES DO NOT INCLUDE TAX, TITLE & LICENSING FEES - SEE DEALER FOR DETAILS



We have the **key** to your business

100% FINANCING.  
NO DOWN PAYMENT.

NEW AND USED EQUIPMENT

❖ Programs offer longer terms for older equipment

❖ We do start ups

❖ Seasonal Payment Programs Available

.....  
Conserve your working capital. Keep existing credit lines intact, and enjoy the security of knowing financing is there when you need it.

We offer loan and leasing plans tailored to individual needs.

.....  
If you are having difficulty getting the Credit you need call Jim Thomas.



JIM THOMAS  
SINCE 1997

Toll-Free 877-333-4539  
JimThomas@KeyCommercial.com

**KEY COMMERCIAL CORP.**  
Commercial Equipment Financing  
www.keycommercial.com

Dashing through the snow,  
Pumping pots along the way  
When folks have to go,  
Your potties save the day!



Brine and blue you bring,  
Cleaning units right  
When eggnog flows,  
They'll thank the PROS  
For porta-pots tonight!

Oh Jingle Bells,  
No more smells  
Walex is the way!

Oh what fun  
To sit inside  
Of a john that smells okay, hey!

Jingle Bells,  
Sewage smells  
Will be kept at bay.

Our product line  
Is certified  
To make odors go away!

MERRY

Christmas

To all our industry friends—  
wishing you health & happiness  
this holiday season.

From your friends at



walex.com | 800.338.3155



# Buying an Existing Business? Avoid Taking On Someone Else's Problems.

Growth through acquisition can be a smart way to build your company if you're willing to do the research and carefully navigate necessary steps

By Joan Koehne

**G**rowing your company through acquisition isn't a sudden process. Rather, business acquisition requires a highly structured and detailed series of actions.

Acquisition typically takes six months to a year from the date of going to market to closing. Before all parties sign on the dotted line, the buyer and seller must agree on all aspects of the transaction, which may require lengthy negotiations.

"The new and the old business owner need to get along to make this work. They need to be compatible," says Mike Demerath, an attorney at Hager, Dewick & Zuengler, S.C. in Green Bay, Wisconsin. "Otherwise, a smooth transition may be difficult to achieve. If there's a lot of back-and-forth and digging in heels as a part of the initial negotiation of the contract, that is a concern on the buyer's side. If things get adversarial, it's not a good sign. It may be best for both sides to move on."

Some sellers have a hard time stepping aside, and it's easier to sell when they like the buyer who's taking over, Demerath says.

"It needs to be a good relationship, not just in negotiating to reach a resolution but in the day-to-day after closing," he says.

Trust and transparency are keys to a smooth transaction, says John Kelly, principal mergers and acquisitions adviser at Kelly Business Advisors.

"Trust is what gets a transaction through the finish line," he says. "If you feel like trust is building, you are likely to get across the finish line. If trust is eroding, call it what it is and walk away. Without trust, it gets ugly."

## Taking on liabilities

Most businesses sold today are asset sales versus entity sales. Buyers prefer an asset sale because they don't take on the seller's liabilities. In the purchasing agreement, buyers should establish what liabilities they're taking over, if any. Buyers can accept only the liabilities they want, such as customer contracts, vendor agreements, orders, current jobs and leases.

"Make sure titles to assets are free and clear," Demerath says. "Check if there are any liens, and make sure they're paid at the time of closing."

Liens are only one of the details to check during a due diligence period in which the buyer gets access to the seller's business operations, facilities, equipment and financial records. Buyers shouldn't only rely on what the seller is telling them. Instead, they should validate the details themselves or

**“** If the key employees don't like the buyer, they might leave and compete against the business, and that can become a serious concern for the buyer. **”**  
– Mike Demerath

through a third party like an accountant (for financial statements) and a title company (for real estate).

"Make sure what you think you're purchasing is what you do purchase," Demerath says.

Dig into the business to determine if any issues are pending like litigation or environmental hazards.

"You don't want to buy a business that is having issues that hurt its reputation," he says.

Also determine if the company is as profitable as advertised.

"Make sure you're buying a good business, a business that's making good money," Kelly says. "It's very hard to turn around a business that's not making any money unless, perhaps, you are an expert in that industry."

Equipment is another important component of a transaction. Buyers should inspect the equipment to determine its age and condition, so they know what investment might be necessary to repair or replace equipment and still sustain and grow the business.

## Employee considerations

Employees are a huge element to consider in a business acquisition. Due to today's labor shortage, companies are buying businesses for the employees as much as anything else. Buyers should determine if key employees plan to remain with the company. To do so, they should structure a purchase contract with a condition allowing them to talk with key employees before closing and potentially reach an agreement with them to stay with the organization.

“The seller may have stay agreements in place with key employees, giving buyers confidence that the key employees will remain with the company,” says Kelly.

“Part of a meeting with the key employees is to get a sense if you’re going to mesh with them,” Demerath says. “If the key employees don’t like the buyer, they might leave and compete against the business, and that can become a serious concern for the buyer.”

To prevent this scenario, buyers should draft a noncompete agreement for employees. A noncompete is especially important if the owner isn’t involved in the business much and the key employees are running operations and meeting with customers. Buyers will also want to draft a noncompete agreement for the outgoing business owner and negotiate terms for them to assist with the transition to new ownership. They may become a consultant for a period of time or stay on as an employee. Kelly recommends a tapered schedule for the transition.

“If you need the seller around, for the first 30 to 60 days, it’s all hands on deck,” he says.

However, after the first 30 days, the seller should work on transitional items and not everyday operational tasks. After the first 30 to 60 days, assuming the seller wants to transition out of the business, the seller should work up to 20 hours a week. After 90 days, the seller should work up to 10 hours a week.

“Have the seller take off one out of every four weeks to allow for the transition of roles, duties and responsibilities,” Kelly says. “Make sure the seller doesn’t feel trapped in the business after closing.”

The purchase agreement should include the seller’s compensation and work schedule — and maybe health insurance coverage, too. If the seller is staying long term, having a salary and bonus plan makes sense. If the seller is only staying for the transition, paying the seller hourly allows both the buyer and seller to avoid an awkward conversation down the road about compensation. The truth of the matter is that a seller and the seller’s family members working in a business typically do not stick around as long as they plan to.

### Other factors

When analyzing a business to purchase, buyers should look closely at the owner’s role.

“Ideally the owner isn’t doing much,” Kelly says.

If the seller is working a lot of hours, the buyer may need to step in to run the business or hire a manager to replace the owner. These scenarios need to be considered prior to acquisition. Facilities matter, also. Depending on the circumstances, buyers may or may not want the seller’s facility. The status of real estate and property leases are important to research during the due diligence period.

Buyers should also review contracts and permits the seller has in place with government agencies, vendors and customers. Whether these are formal agreements or handshake promises, Demerath recommends asking two questions:

1. Can the buyer take over these contracts?
2. How long post-closing are the contracts locked in?

Lastly, buyers should consult with a lender to secure financing that fits their needs and minimizes risk. They might consider seller financing, in which the buyer pays the seller monthly, or an earn-out, in which the seller receives a percentage of new business generated or based on another performance metric. These are just two of the many ways to finance a business acquisition.

“There’s a million ways to structure these deals. If you get to a million, there’s a million more,” Kelly says.

Although every transaction looks different, the goal of a successful acquisition is to purchase a company with a strong foundation, fluent operations, the right employees, a loyal customer base and steady revenue. Entrepreneurs and business owners have an advantage when they purchase a company instead of opening a startup. They take ownership of a company that is already well-established and making a profit, whereas it takes months or years to establish a business from scratch that performs at the level of the business they are acquiring. But before buying an existing business, it pays to do research to make certain the transaction will work for all parties involved. **P**

» NEW & USED EQUIPMENT    » ONLINE EXCLUSIVES  
» FREE SUBSCRIPTION        » E-ALERTS  
» DIGITAL EDITIONS

# Pumper



PORTABLE RESTROOM TRUCKS  
SLIDE IN UNITS  
SEPTIC TRUCKS

Backed By a History of Reliable Service, Innovation & Care

**TRUCKS  
BUILT  
FOR  
DEMANDING  
JOBS  
JUST  
LIKE  
YOURS**



Look to us for the toughest septic trucks, portable restroom trucks, hydrovac units and slide-in units. Crafting any truck to your needs.

- Specialized & Customized Septic Trucks
- Portable Restroom Trucks Built for Your Specific Needs
- Slide In Units: Affordable Back-up or Starter Tanks That Are Tough & Compact

CONTACT TIM COUNTS 254-721-5675 or BRUCE CURRY 254-760-1514  
— [www.atcvacuumtruck.com](http://www.atcvacuumtruck.com) —



# VIP PASS

Register today at [wwettshow.com](http://wwettshow.com) and enter the VIP Code **PUMPER** to get your special pricing options.

FREE Exhibit Hall Admission (\$70 value) and 35% discount on the WWETT conference program.

Compliments of:

**Pumper**

# REGISTER TODAY & SAVE 35%!

Offer not valid on previously purchased registrations or in addition to other discounts.



# Odor Problems



Septic odors stop with  
**SWEET AIR™**  
FILTERING DEVICE

— THE ORIGINAL —

— **TUF-TITE, Inc.** —  
**800-382-7009** [www.tuf-tite.com](http://www.tuf-tite.com)



**INTEGRITY TANK**  
SALES & SERVICE

Wilson, North Carolina  
252-206-1641  
[www.integrity-tank.com](http://www.integrity-tank.com)

*Backed by more than 85 years of combined experience in custom tank building*



**Custom builds include:**

- Septic/ Grease/ Industrial Waste
- 200 - 6000 Gallons
- Portable Restroom Service Trucks
- Aluminum/Steel/Stainless

**Additional Services:**

- Vacuum pump repairs, conversions, and refurbis

*Integrity Tank where quality and service exceed expectations*

**CONTACT CHAD DAVIS for QUOTES at 252-450-9168**

**Screenco Systems**  
Dual Screen Design LLC

208-790-8770  
[www.screenosystems.com](http://www.screenosystems.com)  
[sales@screenosystems.com](mailto:sales@screenosystems.com)




## PATENTED DUAL SCREEN DESIGN

US Patent No. D757,889S & US Patent Pending No. 29/680,577

Your leader for simple innovative technology. Products built and field tested by industry professionals. Equipment that really works!

### MEGA SCREEN 600 & 800 RECEIVING STATIONS



- Largest Receiving Stations On The Market Mega 800 51 Sq Ft, Mega 600 40.5 Sq Ft
- Offload At 1000-800 GPM Through Dual Fan Spreaders 4", 6" or 8" Inlet
- 3/8" Gap SS Bars Meet Ecology 503 Regs
- Use For Industrial Truck Clean-out
- Offload 2 Trucks At Once
- 7' Trash Chute Bolts On Either Side
- Septic & Grease Receiving And Lift Station Trash

### NEW TRASH MASTER 400 RECEIVING STATION



**Simplest Auto Screen In The Industry**

- Uses Gravity To Separate Trash From Flow Screen
- 4" Power Offload From Truck 500 GPM Patent Pending
- 3/8" Gap SS Bars Meet Ecology 503 Regs
- Dewater Trash - VFD 5-30 RPM
- Heavy Duty Shaftless Screw Moves Trash To Receptacle

### MAXI SCREEN 400 PORTABLE SEPTIC RECEIVING STATIONS



**Aluminum & Stainless Construction**

- 3/8" Gap SS Bars Meet Ecology 503 Regs
- Screens That Really Work
- No Moving Parts
- Gravity Off-Load At 500 GPM
- NEW 4' Trash Extension Puts Trash Directly Into Dumpster

Patented Dual Screen Design

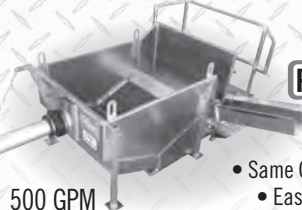
### NEW MICRO SCREEN 400 PORTABLE RECEIVING STATION



- Place Over Frac Tank Or In Ground Storage Tank
- Bolts Securely To Manhole Ring
- 3/8" Gap Bars, 8 Sq Ft Screen Area
- Sealed Lockable Hinged Cover • Fast 4" Offload
- Lightweight - Portable • Small Footprint

**OUR SYSTEMS MEET ECOLOGY 503S**


### MINI SCREEN 400 PORTABLE RECEIVING STATION



- Same Great Design, Ships Truck Freight
- Easily Fits In Pickup for Transport
- Small Footprint, Big Results

500 GPM  
Patented Dual Screen Design

### TRIPOD LID & PUMP LIFTER




- Saves Back Injuries
- Auto Brake Winch
- Only Weighs 28 lbs
- Heavy-duty Aluminum Construction
- Available In 4-5-6 Ft Models
- Lifts Stubborn Tapered Lids
- Folds To Fit On Hose Deck
- Max Load 600 lbs

### GRIT ELIMINATOR



- Removes Grit From Flow Stream
- Keeps Onsite Storage Grit Free
- Available in 18, 32, 64, 96 Cu Ft Grit Capacity

### SHAFT DRIVE PUMPS & AGITATORS



- Move Septic And Grease Interceptor Waste With Ease From Underground Storage Tanks
- Great For Transferring To Land Application Site
- Mix While Dewatering
- Handles Sand Grit And Slurry Type Materials
- Pit Depths Of 3-12 Ft, 3333 Up To 500 GPM, 4444 Up To 1580 GPM

**Patz DISTRIBUTOR**

### TRUCK TOW BEHIND PORTASCREEN SPREADER



- Portable Event Screening
- Doubles As Screener Spreader & Mobile Septic Receiving Station
- Clean Up Your Land Application Site
- Never Hand Pick Trash Again



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.

# Constructed Wetlands Call for Persistent Service Providers

Keeping a treatment cell operating properly requires a watchful eye for invasives and a solid maintenance program

By Jim Anderson, Ph.D.

**A**s noted in a previous column, I have had questions about design, installation and maintenance of constructed wetland systems. The kind of system I am most familiar with is the subsurface flow constructed wetland. In this system, septic tank effluent is delivered to the head of the wetland into normal drainfield rock material. The best treatment results are obtained when flow is equalized to the wetland cell (bed). Effluent is delivered in timed dosing through a pressure distribution network in the rock.

Both the wetland vegetation and the pea gravel substrate are involved in the treatment processes. In cold climates, treatment varies by the season, with best treatment during the growing season and reduced treatment in the winter. BOD removal averages 90-95% in the summer versus 80% in the winter. Fecal coliform bacteria are reduced by 96-99% in the winter and greater than 99% in summer. If the purpose of the wetland is to remove nutrients in lakeshore or other sensitive areas, nitrogen and phosphorus removal are 25-30% in the winter and 65 to 80% in the summer. Constructed wetlands can provide good treatment before discharge to a soil treatment unit (trenches, mounds, at-grades) or if permitted to an unlined wetland cell.

Obtaining these levels of treatment requires that all parts of the system be properly operated and maintained. The septic tank and the pump tank, pump and timer all need to be periodically (every year at a minimum) checked to make sure they are functioning properly. While this is the same for any type of system with these components, it is more important in wetland systems. The plants need a consistent flow of water to survive, flourish and provide the highest and most consistent levels of treatment.

Similarly, if effluent from the wetland is delivered to a series of pressurized sewage treatment trenches, mound or at-grade, the pump tank and pump need to be checked. The final treatment area inspection ports should be opened and any liquid levels should be observed and reported. Beyond these typical maintenance activities, there are several unique issues or situations to address in wetland systems.

## REGULATE FLOW

There will be a need to periodically regulate the control structure at the outlet. First, wetland vegetation needs water to survive, so flow out of the wetland may need to be reduced during periods of high evapotranspiration by the plants. Flow should also be monitored going into the wetland for the same

➤ The bed must be weeded to get rid of any unwanted invasive species or noxious weeds, small trees and shrubs to ensure wetland plants survive and thrive. Without weeding, the proper wetland plants will not become well established.

reason; to maintain adequate water or to identify the presence of excessive flow that may hydraulically overwhelm the system. Excessive flows could occur due to changes in household water use, leaky fixtures, heavy rains or rapid snowmelt.

An additional reason to regulate the flow is to prevent freezing during the winter. This is done by lowering the water level in the pea gravel substrate after initial freeze-up in the fall. This creates an insulating pocket of air above the water level in the wetland cell. The air pocket combined with adding mulch or cover to the surface prevents the system from totally freezing.

Vegetation in the wetland must be managed to provide the highest levels of treatment. In my area, it takes about three years for wetland vegetation to become fully established in the cell to provide maximum treatment. The bed must be weeded to get rid of any unwanted invasive species or noxious weeds, small trees and shrubs to ensure wetland plants survive and thrive. Without weeding, the proper wetland plants will not become well established. Roots from trees and shrubs can damage the liner, causing leaks.

Dead vegetation at the surface should be removed when it gets thicker than two inches in depth. Maintaining nitrogen and phosphorus removal by the wetland requires that vegetation be harvested every five years, removed from the site and either land-applied or disposed of in a landfill.

## FIGHT INVASIVES

Just as in more conventional treatment systems, toxic chemicals can harm the wetland plants. The homeowner needs to understand that excessive use of cleaning products may damage their system. Where the wetland is serving





- George, VP of Sales 954-558-0816
- Roger, Regional Sales Manager 305-409-8603
- RJ, Inside Sales & Parts Manager 786-328-9330

**72 Years In Business!**

**6 In Production**



2024 Mack MD7, 300 hp, Cummins ISB, 3000 RDS auto trans., diff locks, air ride rear. 2500 alum tank, Masport Titan 407 cfm, 36" toolbox, Chrome package. **Call For Price**

**6 In Production**



2024 Mack MD7, 300 hp, Cummins ISB, 3000 RDS auto trans., diff locks, air ride rear. 2500 CS Tank, NVE blower 426 cfm, 36" toolbox, Chrome package. **Call For Price**

**Wishing All Our Loyal Customers and New Customers a Merry Christmas and a Prosperous New Year**

**In Stock**



2023 Mack Granite, MP8 455 HP. Allison auto trans. 66K GVWR, 4200/200 alum tank, 36" box, NVE blower 530 cfm, hydraulic drive, toolbox, jetter 10 GPM @ 3000 PSI. **\$249K**

**In Stock**



2023 Peterbilt 389 extended cab, MX13 510 hp, Allison auto trans. 66K GVWR, 4200 alum tank, 36" box, NVE blower 530 cfm. **\$277K**

**In Stock**



Alum Vacuum trailers, up to 7000 gal. with blower and jetter system. **Call For Price**

**1 Left**



2024 Intl MV607, Cummins, 300 hp. 2500 alum tank, RCF 500 pump, 24" toolbox. **Call For Price**

**4 In Stock**



2023 Mack Granite, MP8 455 HP. Allison auto trans. 66K GVWR. 4000 CS tank. **\$209K**

Steel and Alum Tanks, 2500 to 4200 available for immediate delivery. **Call For Price**

a restaurant or bar, excessive solids can plug the media. Another type of pretreatment may be necessary.

Take precautions to control wetland cell access to keep out small children or pets. This may entail some type of fencing that may need periodic maintenance. Also, any unwanted burrowing animals will need to be controlled. These animals may find the wetland cell a desirable place to set up housekeeping. This can cause damage to the vegetation and the liner. The vegetation should be inspected annually for other pests such as insects that can damage the vegetation and appropriate control actions initiated.

Around the perimeter of the wetland cell, berms or dikes should be inspected and any erosion or damage repaired. Grass should be mowed

periodically to discourage burrowing rodents. Trees or shrubs that start to grow around the perimeter should be removed.

As with any other type of onsite system, constructed wetlands will provide treatment indefinitely into the future if they are properly operated and maintained. **P**

Check out more articles and informative stories at:

**pumper.com**



# WORKING WELL UNDER PRESSURE

Building Drain and Sewer Equipment since 1981.

NEW



### 4008H Power Unit

»8 gpm @ 4000 psi    »400' x 3/8" Jet Hose  
»800 cc EFI Honda Engine    on DC Powered Reel

Just Add A Tank!

Call for Quote

### 3012H Power Unit

»12 gpm @ 3000 psi    »400' x 1/2" Jet Hose  
»800 cc EFI Honda Engine    on DC Powered Reel

Call for Quote

### 4008H Compact Skid

»8 gpm @ 4000 psi    »400' x 3/8" Jet Hose  
»800 cc EFI Honda Engine    on DC Powered Reel

(100 GALLON TANK)

Call for Quote

### 3012H Compact Skid

»12 gpm @ 3000 psi    »400' x 1/2" Jet Hose  
»800 cc EFI Honda Engine    on DC Powered Reel

(100 GALLON TANK)

Call for Quote

NEW



NEW



### RCJ4008H

»8 gpm @ 4000 psi    »200' x 3/8" Jet Hose  
»800 cc EFI Honda Engine    on Manual Reel

Call for Quote

NEW



### LJ4008H

»8 gpm @ 4000 psi    »200' x 3/8" Jet Hose  
»800 cc EFI Honda Engine    on Manual Reel

(NARROW DESIGN)

Call for Quote



### VM4008H

»8 gpm @ 4000 psi    »50' x 3/8" Washdown  
»690 cc Honda Engine    Hose on DC Reel

Call for Quote



### CV4008H-HOT

»8 gpm @ 4000 psi    »400' x 3/8" Jet Hose  
»690 cc Honda Engine    on DC Reel

Call for Quote

TRAILER MODELS AVAILABLE  
through 25 gpm @ 4000 psi

All Jets Shown Come with Pulse Valve, 2 Jet Nozzles,  
Tool Box, Gloves, Safety Glasses, Tip Cleaner, Tiger Tail,  
Wash Down Trigger Gun with Nozzles.

### Pressure Washers & Drain Jetting Equipment

We Build Electric, Gas and Diesel powered models  
up to 4000 psi, flows up to 40 gallons per minute.

Don't see exactly what you want...

We will custom build exactly what you want!

800-648-5011 | www.camspray.com | sales@camspray.com

# tanktrack

Save time and money with the **simple septic software**

- ✓ Streamline billing & payment processing
- ✓ Automate outreach for repeat jobs
- ✓ Track waste manifests and land application
- ✓ Become audit ready and worry free
- ✓ Optimize routes, checklists, and more...

Simple monthly pricing | No hidden fees  
Friendly, US-based customer support

Watch our free demo:  
[tank-track.com/free-demo](http://tank-track.com/free-demo)

[603] 277-3206 | info@tank-track.com



# DEWATERING

Dewatering Unit • Polymer Injection • Sludge Pump  
Hoses • Working Platform • Polymer Sales and Testing

- » Pass the paint filter test in 24 hours
- » No waiting, Equipment is in stock
- » Visitors welcome at our dewatering facilities



Debris  
Screener



We do one thing to perfection — Dewater Liquid Waste!

Aqua-Zyme



## AQUA-Zyme Disposal Systems

Call us at (979) 245-5656  
zymme@aqua-zyme.com  
www.aqua-zyme.com

FINANCING  
AVAILABLE

# READY TO WORK WHEN YOU ARE.



Made in the USA

www.pikrite.com  
800.326.9763



# HAPPY HOLIDAYS

From Our Family to Yours



**Built And Designed  
By PRO's Like You**

Smaller frame trucks allow PRO's to get closer to units for service

Why Buy 2 Trucks when **1 TRUCK Does It ALL**

Services 50-70 units on a service route.  
Eliminates P&D routes. Reduces labor cost, fuel and wear & tear.



585-484-7009 | sales@portalogix.com  
PortaLogix.com

# Trade Association Work Slows as Colorado Contractors Are Overwhelmed

Unfortunately, there's little time to advocate for wastewater industry advances as installers and pumpers are stretched to their limits



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 Colorado Professionals in Onsite Wastewater.**

**Name and title or job description:** Clint Britt, owner/operator

**Business name and location:** The Britt Company, doing business as TBC Septic, Elizabeth, Colorado

**Services we offer:** We are licensed in seven counties to do septic design, installation, inspection and repair, as well as soils testing.

**Age:** 46

**Years in the industry:** For my own company, six years. I also worked for my dad's engineering firm as a soils engineering tech for eight or nine summers from middle school through college.

**Association involvement:** I've been a member of the Colorado Professionals in Onsite Wastewater for six years. I served on the strategic planning committee for two years and am now serving on the board of directors as the director of membership/marketing.

**Benefits of belonging to the association:** For the county regulators, the CPOW membership, classes and certificate ensure that installers are being taught installation standards from the same organization and have a vested interest in quality installations. And I personally like to hear what new materials and supplies are coming down the pipeline.

**Biggest issue facing your association right now:** It's simply just time. Every member of our board of directors is slammed. We all realize plenty of work is a good problem to have but we're all so busy that projects and initiatives get pushed off. The Colorado Front Range has seen double-digit growth in new home starts. Repairs are on the rise as COVID-19 increased at-home employment, and this continues to stress onsite wastewater treatment systems. This all leads to increased designs, permits, installations and inspections. We are all feeling the increased workload demand and our time becomes scarce.

**Our crew includes:** Matt Walters, field supervisor and backfill operator; Noah Gregg, field technician; Debbie Britt, office manager; Paul Sorensen, P.E., design engineer (contracted); Travis Britt, materials delivery and field technician.

**Typical day on the job:** Every day is hectic and controlled chaos. From 5:30 to 7:30 a.m. I'm usually working in AutoCAD on designs and as-builts. My brain works best in the morning with coffee and quiet. Around 7:30 a.m.



Clint Britt is shown with a 2004 Freightliner pulling a John Deere 310SJ backhoe loader.

I'm text-communicating to staff on the goals for the day, or communicating with suppliers on delivery of needed materials. I'm also working on emails to prospective clients, our engineer or county regulators, and completing proposals. From 8 a.m. to 3:30 p.m., I'm typically at job sites, excavating and setting tanks. Since we are not big enough to have a full-time estimator, I do all estimating and bidding from 4 p.m. to 6 p.m. No two days are the same.

**The job I'll never forget:** We were awarded a contract to install (expand) a system for a large dog kennel in a rural area in Watkins, Colorado. The system was designed to be installed next to the outside play yard which was about one acre and fenced. The OWTS was a large timed-dose, dual pump, pressure system with 12 125-foot trenches with an additional 2,500-gallon tank and a new automatic distribution valve. When I bid the job, there were no dogs in sight. I could hear dogs barking in the large kennel building, but it was a muffled bark. Upon arrival on the first day, there were still no dogs in the yard. But the second my backhoe teeth touched the soil, she released the hounds and now there were 75-plus dogs barking, jumping and snarling at us. We couldn't even hear each other. We had to use sign language (which we don't know). Our heads started throbbing on day two.

By day three, all we heard was dogs barking in our heads on the drive home. And by day five, it was 24 hours of barking — in our sleep, eating, in the shower. I don't know how kennel owners do it.

**My favorite piece of equipment:** This is not real exciting but operators will understand. After years of hauling just a single piece of equipment to jobs (often having to make two or three trips), we finally invested in a Landoll 950 50-foot drop-deck trailer. No more manually lifting heavy ramps or being worried about weight. This thing has two automatic ramps and can haul two-plus pieces of heavy equipment. It saves tons of time — and my back.

**Most challenging site I've worked on:** This was for a repair. I should have planned this one better — so, my fault. The homeowner was in a hurry. In the week leading up to Christmas we had to install a high-level treatment system in a small corner lot. It was engineer-designed to be one foot off the old failed soil treatment area (that was full), exactly 20 feet off the house (per regulations), exactly one foot from a live gas line on the street that fed the entire neighborhood, 16 inches from the power line that supplied power to the house, and 18 inches from a fiber optic line on the adjacent street. We didn't have the time or budget for a hydroexcavator. This led to plenty of hand digging in the cold with frosty soil. Tons of stress. We miraculously fit it in and didn't hit anything. I aged 10 years that week.

**Oops, I wish I could take this one back:** We had to install a system for a repair in Black Forest, Colorado. And, yes, it was in a forest. The owner was emphatic he didn't want any of the pine trees removed. I was young and hungry so I agreed and thought I could do it. Big mistake. We managed to install the system; however, I banged into several pine trees, damaged all my tractors (broken lights/mirrors/doors), aggravated my staff — and the delivery truck got stuck. To make matters worse, the owner had no sympathy and thought we did a poor job.

**The craziest question I've been asked by a customer:** Here are some of ours. "How does this tank then connect to the sewer?" "Why is my tank always full?" "Can't I just share a system with my neighbor?" "Can I bury our connection box and use it as a tank?" "Why can't you just connect me to the sewer?" (city was 45 miles away). "Can't I just pump the tank into that old creek?" "My dad dropped his diamond wedding band into the sink. Can you please find it in the tank?"

**If I could change one industry regulation, it would be:** Regarding double-casing mainlines. Due to the installation procedure, we believe it can cause more problems than the good it does.

**Best piece of small business advice I've heard:** "Don't try to be all things to all people" — said to me by my dad. I try to offer helpful solutions to every client — which generally gets me into trouble, even today. I'm practicing remaining focused on what I'm good at and can control and staying away from challenges that are out of our wheelhouse.

**If I wasn't working in the wastewater industry, I would:** Hopefully be a pro baseball player. But aside from that, it would be something in the athletics arena, whether as a scout, sports agent, general manager, coach — heck, even a grounds crew foreman. I always enjoyed sports at the highest levels.

**Crystal ball time — This is my outlook for the wastewater industry:** I think the industry will continue to evolve with advances in technology for advanced treatment units, dosing requirements, graywater recycling. Costs will come down. I believe counties will continue to push for advanced technologies as well as professional certifications and education. I think it's a good time to get into onsite wastewater treatment. **P**

- Compiled by Betty Dageforde

# Tank World Corp

ALL MAJOR BRANDS IN STOCK AND READY TO BUILD

WISHING YOU A  
MERRY  
CHRISTMAS  
& HAPPY NEW YEAR



Financing Available



We build Vacuum trucks, Septic trucks,  
Porta Potty trucks, and Body swaps.

We can do Steel, Stainless Steel and Aluminum.

NOT JUST BUILDING TRUCKS BUT BUILDING RELATIONSHIPS

Parts and Accessories In Stock

ASME & R stamp accredited

UL 142

www.tankworldaz.com

12001 W. Peoria Ave  
El Mirage, AZ 85335

Jerry's cell 623-680-2037  
tank.jerry1@gmail.com

Office 623-536-1199  
Fax 623-935-4514  
service@tankworldaz.com



# Cape Cod looking at nitrogen treatment upgrades

By David Steinkraus

**S**tate regulations expected in early 2023 will apparently impose new nitrogen restrictions on some parts of Cape Cod.

The primary water quality problem on Cape Cod is nitrogen, said Martin Suuberg, commissioner of the state Department of Environmental Protection, according to the *Cape Cod Times*. And most nitrogen comes from onsite systems, which account for about 85% of wastewater flows into bays along the cape, he wrote in a letter to the town of Dennis.

To help fix this, the state proposes creating nitrogen-sensitive areas. These would cover watersheds draining into estuaries with a total maximum daily load for nitrogen. About 30 watersheds on the cape meet that criterion.

Towns in those areas would have to upgrade onsite systems to nitrogen-reducing systems within five years after the regulation is finalized. Towns would have to use the best available technology, but that could include non-traditional technologies such as permeable reactive barriers filled with wood chips to remove nitrogen as water flows through. Towns may also be able to apply for watershed permits, which would extend the deadline for upgrades to 20 years.

## South Carolina

The state is short of onsite inspectors, so it held rapid-hire meetings in the fall.

More than 20 positions are open, said a press release from the state Department of Health and Environmental Control. The jobs are natural resources technician III, which pays a salary of \$29,061 to \$53,769, and environmental health manager II, which pays a salary of \$43,030 to \$79,616. Because these are state jobs, they also qualify for other state benefits.

"The maintenance and upkeep of a septic system is the responsibility of the owner, but DHEC has an essential role in assuring these systems are properly permitted to begin with and that the permittees or owners have the information and resources they need to keep them functioning for years to come," David Vaughan, director of DHEC's Division of Onsite Wastewater, Rabies Prevention and Enforcement, said in the press release.

Jobs require a high school degree and relevant work experience, but an associate's degree or bachelor's degree in a related field is preferred.

## Michigan

Homeowners in Leelanau County will now be required to have their onsite systems inspected when their home is sold or transferred. County commissioners voted to create the ordinance.

The Benzie-Leelanau District Health Department will write the ordinance and will use the Benzie County ordinance as a model, reported the *Traverse City Record-Eagle*. The Benzie County ordinance has been in effect since 1992.

For about 30 years, county commissioners have been trying to pass such an ordinance, but it was regularly defeated by Republicans who held a majority on the commission. In May, the commission flipped to a Democratic majority.

Commissioner Rick Robbins, also a Republican, voted in favor of the ordinance. He said he had talked to many people and all township supervisors in the county. "We're surrounded by water and in the middle [of the county] is a big lake," Robbins said. "It only made sense. We've got to take care of our water resources."

Leelanau County is part of the tourism and recreational area around Grand Traverse Bay in the northwest Lower Peninsula.

## Georgia

Grants are available to people in Northwest Georgia to repair or replace failing onsite systems. Eligible systems are in the watersheds of South Chickamauga Creek, Salacoa Creek, Holly Creek and Lookout Creek.

Money is being distributed by the Limestone Valley Resource Conservation & Development Council. It received \$243,000 from the federal government for the work. Another \$166,597 is coming from landowners and other local sources.

Homeowners will pay contractors for work and will be reimbursed once the state Department of Public Health verifies that work was done according to state standards.

For more information, see the council's website about the project: [www.limestonevalley.org/septic](http://www.limestonevalley.org/septic). **P**



# ROBINSON VACUUM TANKS

Call (814) 933-0927, visit [www.RobinsonTanks.com](http://www.RobinsonTanks.com), or email [sales@robinsontanks.com](mailto:sales@robinsontanks.com)

— OFFERING SALES, PARTS & SERVICE —

VISIT OUR WEBSITE TO SEE ALL AVAILABLE INVENTORY

Like Us On Facebook



## PORTABLE RESTROOM TRUCKS

- Tank Sizes from 980 - 2000 Gallons
- Choose from Aluminum or Steel Tanks



## VACUUM TRUCKS

- Tank Sizes from 1200 - 5500 Gallons
- Aluminum Tanks



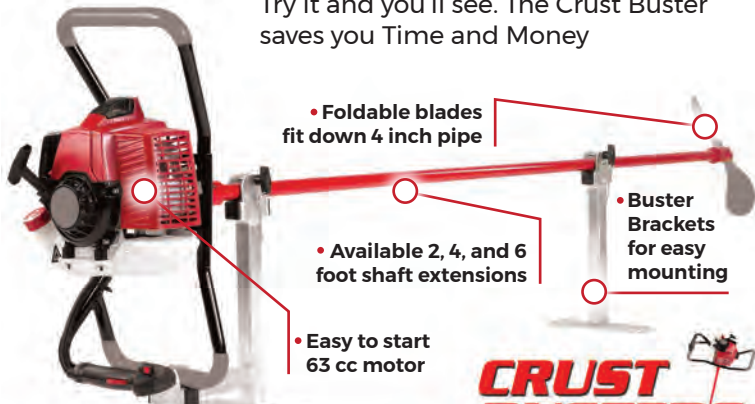
## SLIDE-IN TANKS

- Tank Sizes from 300 - 1500 Gallons
- Aluminum Tanks
- Flanged/Dished or "Soup Can" Styles

# THE SEPTIC TANK AGITATOR

## IS YOUR BACK TIRED OF BACKFLUSHING?

We believe agitation save aggravation. Try it and you'll see. The Crust Buster saves you Time and Money



- Foldable blades fit down 4 inch pipe
- Available 2, 4, and 6 foot shaft extensions
- Easy to start 63 cc motor
- Buster Brackets for easy mounting

**CRUST BUSTERS**

763-878-2296 | [sales@crustbusters.com](mailto:sales@crustbusters.com)

Enjoy **FREE SHIPPING** On All Orders! (To lower 48 states)

— Order Online —

**[www.CrustBusters.com](http://www.CrustBusters.com)**



51 Stone Road, Lindenwold, NJ 08021

**Order Discounted Pumps Online**  
24 hours a day 7 days a week

**[www.vacuumsalesinc.com](http://www.vacuumsalesinc.com)**

[parts@vacuumsalesinc.com](mailto:parts@vacuumsalesinc.com)



We Service  
What We Sell



**800-547-7790 • fax: 856-627-3044**

# Serving the Industry

 Visit your state and provincial trade associations

## Alabama

Alabama Onsite Wastewater Association  
www.aowainfo.org; 334-396-3434

## Arizona

Arizona Onsite Wastewater Recycling Association  
www.azowra.org; 928-443-0333

## Arkansas

Arkansas Onsite Wastewater Association  
www.arkowa.com

## California

California Onsite Wastewater Association  
www.cowa.org; 530-513-6658

## Colorado

Colorado Professionals in Onsite Wastewater  
www.cpow.net; 720-626-8989

## Connecticut

Connecticut Onsite Wastewater Recycling Association  
www.cowra-online.org  
860-267-1057

## Delaware

Delaware On-Site Wastewater Recycling Association  
www.dowra.org

## Florida

Florida Onsite Wastewater Association  
www.fowaonsite.com  
321-363-1590

## Georgia

Georgia Onsite Wastewater Association  
www.georgiaonsitewastewater.com  
706-407-2552

Georgia F.O.G. Alliance  
www.georgiafog.com

## Idaho

Onsite Wastewater Association of Idaho  
www.owaidaho.org; 208-664-2133

## Illinois

Onsite Wastewater Professionals of Illinois  
www.owpi.org

## Indiana

Indiana Onsite Waste Water Professionals Association  
www.iowpa.org; 317-965-1859

## Iowa

Iowa Onsite Waste Water Association  
www.iowwa.com; 515-225-1051

## Kansas

Kansas Small Flows Association  
www.ksfa.org; 913-594-1472

## Kentucky

Kentucky Onsite Wastewater Association  
www.kentuckyonsite.org  
855-818-5692

## Maine

Maine Association of Site Evaluators  
www.maine.com

Maine Association of Professional Soil Scientists  
www.mapss.org

## Maryland

Maryland Onsite Wastewater Professionals Association  
www.mowpa.org; 443-570-2029

## Michigan

Michigan Onsite Wastewater Recycling Association  
www.mowra.org

Michigan Septic Tank Association  
www.msta.biz; 989-808-8648

## Minnesota

Minnesota Onsite Wastewater Association  
www.mowa-mn.com; 888-810-4178

## Mississippi

Mississippi Pumpers Association  
www.mspumpersassociation.com  
601-249-2066

## Missouri

Missouri Smallflows Organization  
www.mosmallflows.org  
417-631-4027

## Nebraska

Nebraska On-site Waste Water Association  
www.nowwa.org; 402-476-0162

## New England

Yankee Onsite Wastewater Association (Massachusetts, Connecticut, Maine, New Hampshire, Rhode Island and Vermont)  
www.yankeeonsite.org; 781-939-5710

## New Hampshire

New Hampshire Association of Septage Haulers  
www.nhash.com; 603-831-8670

Granite State Onsite Wastewater Association  
www.gsdia.org; 603-228-1231

## New Mexico

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

## New York

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

## North Carolina

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

## North Dakota

North Dakota Onsite Wastewater Recycling Association  
701-650-8792

## Ohio

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

## Oklahoma

Oklahoma Onsite Wastewater Association  
918-727-7113

## Oregon

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

## Pennsylvania

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

Pennsylvania Onsite Wastewater Recycling Association  
www.powra.org

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

## Tennessee

Tennessee Onsite Wastewater Association  
www.tnonsite.org.

## Texas

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

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

## Virginia

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

## Washington

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

## Wisconsin

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

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

## NATIONAL

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

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

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

## CANADA

### Alberta

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

### British Columbia

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

British Columbia Onsite Sewage Association

www.bcossa.org; 778-432-2120

### Manitoba

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

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

### New Brunswick

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

### Nova Scotia

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

### Ontario

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

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

### Saskatchewan

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

### Canadian Regional

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





# TRANSPORT TRUCK SALES, INC.

Ask for Scott – 888-395-7551 After hours call Scott at 816-590-4076

Delivery Available Anywhere in the Lower 48!! [www.TransportTruck.com](http://www.TransportTruck.com)



*Happy Holidays*



**IN PROGRESS**

**2011 Freightliner M2**, Cummins 220 HP, AUTO, non CDL, **NEW** 2000 gallon alum. Tank, **NEW** Masport Viper pump.

**Call For Pricing!**

**1-YEAR NATIONWIDE DRIVE TRAIN WARRANTY**



**IN PROGRESS**

**2010 Hino 268**, 220 HP, Allison Auto, NON CDL, **NEW** 1800 gallon steel vac tank, **NEW** Masport Viper fan cooled pump.

**Call For Pricing!**

**1-YEAR NATIONWIDE DRIVE TRAIN WARRANTY**



**IN PROGRESS**

**2009 Kenworth T370**, PX8-300HP, AUTO, 109K miles, 33 # GVW, **NEW** 2500 gallon steel tank, **NEW** Masport Viper pump.

**Call For Pricing!**

**1-YEAR NATIONWIDE DRIVE TRAIN WARRANTY**



**2012 Mack GU713**, Mack MP8 500 HP, jake, ONLY 155K miles, 13 spd, 18# fronts, **NEW** 3500 gallon steel vac tank, **NEW** Masport Hydra plug and play vac pump.

**Call for Pricing!**

**6-MONTH NATIONWIDE DRIVE TRAIN AND EMISSIONS WARRANTY**



**IN PROGRESS**

**2014 Kenworth T370**, PX7-240HP, AUTO, 33# GVW, **NEW** 2500 gallon alum. Tank, **NEW** Masport Viper pump.

**Call For Pricing!**

**6-MONTH NATIONWIDE DRIVE TRAIN AND EMISSIONS WARRANTY**



**IN PROGRESS**

**2005 Peterbilt 335**, Cummins 315 HP, 10 spd, 33# GVW, Low miles, **NEW** 2500 gallon steel vac tank, **NEW** Masport Viper fan cooled pump.

**Call For Pricing!**

**1-YEAR NATIONWIDE DRIVE TRAIN WARRANTY**



## DEWATERING - IT'S A PIECE OF CAKE!

Let ParkProcess supply you with the most economical solutions for dewatering septage and grease trap waste. Choose from a wide range of models and sizes for the right equipment to meet your needs.



**BIG TIPPER**



**THE BIG ROLLING TIPPER**



**POLYCAT**



**SLUDGE KING**

855.511.PARK  
[www.ParkProcess.com](http://www.ParkProcess.com)



**NUCONCEPTS**  
VERY IMPRESSIVE PORTABLES

## WE CALL IT MAJESTIC

**These Are Royal Accommodations**

Since inventing the first VIP (Very Impressive Portable) over 26 years ago, NuConcepts continues to innovate with our MAJESTIC 2 or 4 unit luxury restroom trailer.

Visit Our Website and Video at [www.NuConcepts.com](http://www.NuConcepts.com)  
CALL FOR YOUR LUXURY OPTIONS AND CUSTOM QUOTE

**Self Contained-Solar Powered-Flushing Porcelain Toilet**  
Available as Stand Alone or Trailer Configurations

VIP Interior    Prestige    Diplomat    Deli Sink    Hand Wash Sinks

**NUCONCEPTS**  
VERY IMPRESSIVE PORTABLES

800-334-1065 | 909-930-6244  
45652 Division St., Lancaster, CA 93535 | [www.nuconcepts.com](http://www.nuconcepts.com) | [info@nuconcepts.com](mailto:info@nuconcepts.com)  
PROUDLY MADE IN THE USA



# Chesapeake Septic Service

Stevensville, Maryland

**DAVIDSON TANK**  
Bakersfield, California



- Septic/Grease/Industrial Waste
- 400-5,000 Gallon
- Aluminum/Steel/Stainless

Our Chassis Or Yours • Built To Specs



- Portable Restroom Service Trucks
- Aluminum/Steel/Stainless

661.325.2145 • [www.DavidsonTank.com](http://www.DavidsonTank.com)

**M**ark Rousseau added this 2007 Kenworth T800 tri-axle and rebuilt the rig in-house with his son, Dustin Rousseau. The metallic green and black truck carries a 4,620-gallon steel tank from Crown Tank and a Masport Hydra pump. A 600 hp Cat C15 ACERT engine uses an Eaton 18-speed transmission to bring power to the wheels. Nevius Truck Repair overhauled the engine deleting and tuning the truck for better fuel efficiency and more power. Features include LED work lights all around, green LED strobe lights, 36-inch rear manway and additional top manway, heated 4-inch suction and dump valves, and polished aluminum wheels by Blizzard Pulling Aluminum Wheel Polishing. Plans are to add a Crust Buster, box jetter and National Vacuum Equipment blower. Shore Sign provided graphics. Dustin Rousseau is the driver and the truck is used for residential septic service. **P**

SHOW US **YOUR** CLASSY TRUCK!

Got a truck with real WOW appeal?  
Show it off to *Pumper* readers!

Send photos of your vacuum truck after it has been lettered with your company name. Please limit your submission to one truck only.

Your Classy Truck submission must include your name, company name, mailing address, phone number, and details about the truck, including tank size, cab/chassis information, pump information, the company that built the truck, and any other details you consider important. In particular, tell us what features of the truck help make your work life more efficient and more profitable. Email your materials to [editor@pumper.com](mailto:editor@pumper.com) or mail to Editor, *Pumper*, P.O. Box 220, Three Lakes, WI 54562.

**We look forward to hearing from you!**

# Septic Maintenance Made Easy

CCLS helps keep the entire plumbing and household waste system free flowing, healthy, and odor free.



## Other Essential Products for Septic Professionals from Cape Cod:



### Tank Health

Jump Start is designed to accelerate the health of septic tanks after being pumped.



### Tank Maintenance

CCLS maintains septic systems, digests waste, unclogs plumbing waste lines, eliminates odors, reduces organic buildup.



### Drainfield Care

After Shock restores drainage to clogged and sluggish drainfields and structures, eliminates odors.



### Drain Help

DrainMaster opens problem drains, removes buildup, keeps drains free-flowing, maintains grease traps, controls odors.



### Grease Killer

BIO-REM E-D breaks down grease, digests waste, eliminates odors, unclogs drains.



Cape Cod Biochemical  
Pocasset, MA

Green Products for Septic Professionals | Since 1976

800-759-CCLS | [www.SepticOnline.com](http://www.SepticOnline.com)

Easy online ordering using our new Customer Portal!

# Septic Systems and Maintenance

By Craig Mandli

## ADVANCED TREATMENT UNITS



### Anua PuraACE

The **PuraACE** from **Anua** is a drop-in-tank reactor pod for treating high-strength waste from restaurants, convenience stores or other facilities. The pods can be added to overloaded residential or commercial treatment systems. Treatment occurs by a submerged aerated filter process to reduce BOD, COD and ammonia. Passive alkalinity control regulates pH without adding chemicals. The pod housing isolates aeration to keep heavy solids from mixing. Open channel media prevents clogging while the airlift recirculation enhances retention time. Multiple pods can be utilized for larger flows and loads. **336-547-9338; www.anuainternational.com**

### Eljen Geotextile Sand Filter

The **GSF**, or **Geotextile Sand Filter**, advanced wastewater treatment and dispersal system from **Eljen** is designed to provide treatment and dispersal in the same footprint, easy installations and minimal maintenance. It is used for commercial and residential applications. Utilizing a two-stage pretreatment process, the geotextile modules apply filtered septic tank effluent to the soil and increase the long-term acceptance rate. Open-air channels within the module support aerobic bacterial growth on the module's geotextile fabric, surpassing the surface area required for traditional absorption systems. The system is tested and certified by NSF to NSF/ANSI Standard 40. **800-444-1359; www.eljen.com**



### MicroSepTec EnviroServer ES

The **MicroSepTec EnviroServer ES** series utilizes five chambers to achieve primary settling, treatment and clarification in one tank. The units use a moving-bed biological reactor made for the residential market. The

first compartment of the system is the primary clarifier for settling sludge and solids. The second section houses the first of two aeration chambers and contains biomedica providing surface area to promote a healthy population of microorganisms. The third compartment is used for further aeration to amplify the growth of nitrifying bacteria and the process of nitrification.

The fourth chamber is the final clarifier where suspended solids settle out. Wastewater is then recirculated back to the primary clarifier in the first compartment, which contains enough carbon to promote denitrification removing high levels of nitrate. Clarified water then moves through an effluent filter before entering the fifth compartment, an effluent chamber for storage. **877-473-7842; www.microsepte.com**

### Norweco Singlair HK Green

The **Singlair HK Green** wastewater treatment system from **Norweco** is designed for areas that require significant and consistent reduction of total nitrogen. The hybrid system combines suspended and attached growth biological processes, and consists of pretreatment, anoxic, aeration and clarification chambers, followed by the Bio-Film Reactor. It uses an extended aeration process to treat wastewater and features technology to enhance or optimize denitrification. Wastewater in the system undergoes a 70-hour retention to ensure adequate exposure to all treatment processes. **800-667-9326; www.norweco.com**



### Waterloo Biofilter Communal Package Plant

The **Waterloo Biofilter Communal Package Plant** is an efficient, low-maintenance absorbent trickle filter, according to the maker. The synthetic filter

medium is designed to optimize physical properties for low energy, long-term operation and no aerobic sludge production. Self-contained modules for communal sizes are available as 5,283 and 10,567 gpd ISO shipping container units — ready to plug in on-site. These SC-20 and SC-40 units are sized for 12 and 25 three-bedroom houses respectively. They include remote monitoring, small space requirements, and are shipped to locations around the world. They are customizable, modular, and come pre-assembled to reduce installation time and complexity. Their nonbiodegradable permanent filter media is designed to last at least 20 years. **519-856-0757; www.waterloo-biofilter.com**

## AERATION SYSTEMS

### Gorman-Rupp EchoStorm

The **EchoStorm** static venturi aeration device from **Gorman-Rupp** is designed to add dissolved oxygen into liquids as they are being pumped. It adds oxygen to wastewater, reduces the size of organic solids and de-gases organic solids. It is available in 2-, 3-, 4- and 6-inch sizes. Depending on the pump it is paired with, it can provide flows from 50 to 1,300 gpm with up to 857 pounds of dissolved oxygen per day. It is suitable for aeration in a variety of municipal, industrial and agricultural applications, including wet well influent, aerobic sludge digestion, lagoons, oxidation ditches, fat, oil and grease digestion, landfill leachate and mine water treatment, according to the maker. The device can be combined with Super T Series, Ultra V Series, Super U Series, 80 Series, 10 Series and 6500 Series pumps. **419-755-1011; www.grpumps.com**



(continued)



# THINKING OF SELLING YOUR PORTABLE SANITATION BUSINESS?

YOU DESERVE EXPERT, PROFESSIONAL REPRESENTATION

WE WORK FOR YOU, THE OWNER, TO MAXIMIZE THE VALUE OF YOUR BUSINESS



**DAMON POWELL**  
407-765-9440



**ED MEDVIC**  
727-486-0306



- ✓ 133 closed transactions
- ✓ 55 years combined industry experience
- ✓ Free consultations
- ✓ Zero upfront cost

[www.FMCadvisors.com](http://www.FMCadvisors.com)



Belt filter presses featuring innovative features that provide high performance in a compact high value package.



Bright Technologies offers complete Belt Filter Press dewatering systems that are skid or trailer mounted. We design and manufacture the skid equipment package for high throughput, low maintenance, superior cake solids and ease of operation.



**Contact Us Today!**  
**800-253-0532**

127 N. Water St., Hopkins, MI 49328

[www.brightbeltpress.com](http://www.brightbeltpress.com)

**BOOTHS**  
**4525, 4624**

## ABBOTT RUBBER COMPANY, INC. THE HOSE & FITTINGS EXPERTS



1311 MEACHAM RD., ITASCA, IL 60143  
(847) 952-1800 (800) 852-1855 FAX (847) 952-0156  
E-MAIL [sales@pumperhose.com](mailto:sales@pumperhose.com) WEBSITE [www.pumperhose.com](http://www.pumperhose.com)

**ALARM SYSTEMS/COMPONENTS**



**Liberty Pumps NightEye**

The **NightEye** app and cloud-based system from **Liberty Pumps** allows internet connection of a pump via the home's wireless router and provides alarm and other performance information to a mobile device. The system sends information via text, email and push notifications, to up to four different address/

phone numbers. Connected products include the ALM-EYE series indoor pump alarm, 442 battery backup pump systems and the SumpJet water powered backup pump. The system is easy to use and set up through a portable device, according to the maker. Download the free app, register the device and connect to the equipment using BlinkUp technology. The app is compatible with iOS and Android devices. There are no subscription or service fees. **800-543-2550; www.libertypumps.com**

**EXCAVATING EQUIPMENT**

**Pressure Lift HydraBore**

The **HydraBore** from **Pressure Lift** can blast down and physically remove built up tallow, soap residue and tank waste. Best used with a jetter, it will only add roughly 16 gallons of high-pressure water in a 10 minute period. Total time on a job, with a unit pumping approximately 2,000 gallons of waste, is less than 20 minutes at depths of 5 to 500 feet. Units are available in 3- and 4-inch sizes, with special orders of 6- and 8-inch units. The unit offers one-person operation, faster loading times, and it keeps pumps cooler, decreasing pump wear and tear, according to the maker. It also reduces back injuries from full hoses. It works with industrial-size pressure washers and jetters, resuspending materials while pumping. **866-504-6596; www.pressurelift.com**



**EFFLUENT/SEWAGE/SUMP/AERATION/GRINDER PUMPS**



**Ashland Pump effluent pumps**

Heavy-duty effluent pumps from **Ashland Pump** are available in multiple horsepower sizes for various performance requirements and have efficient, permanent split-capacitor motors, according to the maker. The oil-filled pumps have an upper and lower ball bearing design and handle solids up to 3/4 inch. They are made of cast iron, with cast iron impellers and equipped with a piggyback switch (20-foot standard cord) or in manual configurations. They are offered in 3/10, 4/10, 1/2, 3/4, 1 and 1 1/2 hp models. **855-281-6830; www.ashlandpump.com**

**Crane Pumps & Systems Barnes RAZOR**

The 2 hp **Barnes RAZOR** grinder pump from **Crane Pumps & Systems** is suitable for light commercial and residential solids-handling applications. It is designed with axial cutting technology to reduce solids like flushable wipes, diapers and other nonbiodegradable items. Maintenance is convenient with only a single tool needed for disassembly. The plug-and-play cord also provides easy servicing without requiring removal of epoxy in the conduit. Its 1.25-inch discharge is suitable for preconfigured packaged systems and turnkey solutions. It is available in the Barnes EcoTRAN Pressure Sewer System for grinding in tough terrain. It provides a practical and environmentally safe alternative to traditional gravity systems, according to the maker. Numerous configuration options are available. **937-778-8947; www.cranepumps.com**



**Franklin Electric Little Giant Pit+Plus**

The **Little Giant Pit+Plus** package from **Franklin Electric** provides an all-in-one solution for light duty wastewater management. Each package includes a roto-molded polyethylene basin — the pit — combined with the user's choice of Little Giant pump. The addition of the 1 hp grinder pump option joins the already available 4/10 and 1/2 hp sewage pump choices. The basin is available in two sizes: the 24x24 JR or 20x30 SR. The Little Giant 16G Series 1 hp grinder pump has a cutting mechanism modeled after the unique design used in larger Franklin Electric models. The heavy-duty 1 hp class F motor provides optimal power to prevent flushables and other debris from clogging and causing downtime. **844-250-4982; www.littlegiant.com**



**Polylok PL-CPE4A**

The **Polylok PL-CPE4A** is a submersible, 4/10 hp, 115-volt, single-phase effluent pump with a 2-inch NPT vertical discharge. It has a maximum head of 38 feet and a maximum flow of 56 gpm. The pump is designed with a 3,450-rpm oil-filled permanent split-capacitor motor and has an amp rating of 6.6 for 115 volts, a rugged cast iron housing and volute equipped with a cast iron vortex impeller capable of passing 3/4-inch-diameter solids. The stainless steel shaft is supported by two single-row, oil-lubricated ball bearings. The shaft seal is an inboard design with a secondary Exclusion V seal. It has a 20-foot UL/CSA-listed power cable suitable for submersible service and fitted with a three-prong plug. The unit is supplied with an integrated clip for the included piggyback mechanical float switch and used for automatic operation. **888-765-9565; www.polylok.com**



**Zoeller Pump 24x24**

Preassembled **24x24** sewage and grinder package systems from **Zoeller Pump** include a 2-inch solids sewage ejector, a 24-by-24-inch poly-molded basin, a poly-structural foam cover with 2-inch vent and an internal 2-inch PVC discharge pipe. Various

*(continued)*



# DON'T DRIP DRY YOUR SLUDGE, DEWATER IT OVERNIGHT!

Patent #9,828,274



Dewaterers Overnight  
Consistent Results  
Low Energy Use  
Self-Cleaning

>All Stainless  
Steel & PVC  
Construction

>Roll-Off Frame  
>Very Forgiving  
>Amazing Results

## SEE IT AT THE WWETT SHOW

- >Stationary Dewatering Drum
- >12" Unloading Auger

See a Video at [ITRDewatering.com/video\\_auger.html](http://ITRDewatering.com/video_auger.html)  
or snap a picture with a smart phone



— Call to schedule an onsite visit. —

If it will Floc,  
it will work.

In the Round Dewatering  
[ITRDewatering.com](http://ITRDewatering.com)  
317-563-2072



GET  
EMAIL  
NEWS ALERTS  
FOR  
**Pumper**

Go to  
[pumper.com/alerts](http://pumper.com/alerts)  
and get started today!

Happy Holidays From  
Ronnie, Jules, Brett,  
Chase, Kaileb, Jesse, and  
Elisha

**KeeVac**  
Industries, Inc.



[www.KeeVac.Com](http://www.KeeVac.Com)

Septic & Grease



Restroom

Trucks

Slide Ins



Call Today 866-789-9440

pumps are available in horsepower options from 4/10 to 1/2 hp. They are manufactured from cast iron or thermoplastic, depending on the model, and automatic or piggyback configuration is offered. Pumps also come equipped with thermal overload protection and utilize a non-clogging, plastic or bronze vortex impeller. The basin features molded torque stops for added pump support. At only 24 inches deep, systems be used in shallow-burial applications or troublesome areas. The basin can hold 41 gallons with 25-gallon capacity below a 4-inch inlet. **800-928-7867; www.zoellerpumps.com**

**FILTERS**

**Sim/Tech Filter No-Vault**

The **No-Vault** pump filter from **Sim/Tech Filter** protects turbine pump intake screens. Filtration is achieved through a 6-inch-diameter PVC or 316L stainless steel screen with 1/16-inch-diameter perforations. The shorter model has 139 square inches of open area, while the tallest model has 325 square inches. Typically the intake of a turbine pump is less than 4 square inches of open area. With 35 to 80 times the open area of the intake screen, the filter reduces the frequency of screen and pump cleaning. The interior sealing sleeve allows it to adjust to different pipe heights. The smallest unit handles pumps up to 26 inches tall, while the largest unit handles pumps up to 50 inches tall. The unit is easily installed in new systems or retrofit onto existing systems. **888-999-3290; www.simtechfilter.com**



**HAND AND POWER TOOLS**



**Milwaukee Tool M12 Stick Transfer Pump**

**Milwaukee Tool's M12 Stick Transfer Pump** transfers water without interruption, and the water transfer pump delivers superior filtration and eliminates the hassles of manual pumping. Featuring a 36-inch submersible aluminum barrel, the pump has the reach and

inlet control to get to water in difficult-to-access areas such as trenches, storm drains and water meter boxes. Milwaukee's new HydroPass filter technology maximizes water flow in heavy debris to pump up to 9 gpm. The 360-degree filter minimizes downtime caused by clogging. With a 15-foot maximum head height and an outlet compatible with a 3/4-inch garden hose, the water transfer pump delivers the power to push water out of pits, basins and over walls. **800-729-3878; www.milwaukeetool.com**

**T&T Tools Mighty Probe**

The **Mighty Probe** from **T&T Tools** has a 3/8-inch hex rod (approximately 20% stiffer than a round rod) or a 7/16-inch hex rod (approximately twice as stiff as the standard round rod). Stiffer hex rods bend less to make the probe easier to push into the ground, especially when probing at deeper depths.



Lengths are available from 36 to 78 inches in 6-inch increments. When the probe is combined with a slide adapter, an integrated mini slide-hammer probe is created, allowing technicians to pound through difficult spots. **800-521-6893; www.mightyprobe.com**

**PUMP CONTROL PANELS**

**Jet Inc. Model 197**



The **Model 197** control panel from **Jet Inc.** monitors the operation of the Jet Inc. treatment system aerator and additional components. It can monitor single- or dual-aeration systems with selectable high- and low-amperage monitor settings. The panels have dedicated alarm and control circuits with separate power circuits for aeration devices. In addition to the aerator control circuits, the panel contains three auxiliary 120-volt output circuits for external device control

relays. They include three low-voltage auxiliary input circuits selectable for N/O or N/C alarm inputs. An integrated pump power control relay is automatically disabled in an auxiliary device alarm condition. A signal array includes a power indicator LED and four equipment alarm indicator LEDs. **800-321-6960; www.jetincorp.com**

**Orenco Systems 4-in-1 Controller**



The **4-in-1 Controller** from **Orenco Systems** supports numerous electrical configurations and dosing schedules within a single panel. Both simplex and duplex models are available and can be configured in the field for timed or demand dosing. While the control circuit operates on 120-volt power, the pump circuit is dual-rated for 120- or 240-volt power, meaning installers and service providers can reduce their panel inventories for new installations and repairs. It includes a programmable logic unit with multiple timing intervals for changing flow conditions and has a built-in elapsed-time meter and counter. It also displays float position and has a float error indicator. Each panel includes a reference chart to assist with troubleshooting during installation and testing as well as wiring diagrams. It is completely touch-safe. **877-257-8712; www.orencocom**

**SJE Rhombus Model 112**



The **Model 112** control panel from **SJE Rhombus** features a user-friendly simplex controller. It controls one 120, 208 or 240 VAC single phase pump in water and sewage installations. The simplex controller has a touch-safe housing

clearly labeled and elevated in the enclosure. It has LED status indicators for pump run, power on and float status; float push-to-test buttons; an HOA switch that allows you to easily switch between Hand, Off, and Auto; and form C auxiliary alarm contacts. There's also an optional adjustable seal failure circuit and red LED indicator. It has built-in pump failure and float out-of-sequence detection. In addition, there are three user-selectable field-programmable options: alarm steady state or flashing; alarm auto reset or manual reset; and optional seal failure alarm beacon plus horn activation. It is also UL listed. **888-342-5753; www.sjrhombus.com**

(continued)



## THE MOST LAYOUTS AVAILABLE FOR HANDICAP ACCESSIBLE TRAILERS



Proudly Made Since 2003

**Comforts of Home**  
Services, Inc.  
BATHROOM • SHOWER • SPECIALTY TRAILERS



63-07F-0236V

See our website for floor plans and options.

info@cohsi.com • 630.906.8002 • www.cohsi.com

# GAG SIM/TECH FILTER

## The Last Line of Defense

for Pressurized Distribution Systems

### NO VAULT PUMP FILTER

- » 41% open area (139 square inches of open area on the 6" x 18" screen model)
- » Fits most turbine pumps (also known as deep well pumps)
- » Adds only 1/4" of height to pump making it easy to retrofit to existing systems
- » Has 3" sludge shield at the bottom of the filter
- » Disassembles for thorough cleaning if needed
- » Easy to clean surface
- » Made of PVC plastic so will not corrode
- » Self adjusting seal
- » Very light in weight so it does not make pump insertion or removal difficult
- » Screen available from 18" to 42" long
- » Also available with 316L stainless steel screen



Can be used in a manifold to handle almost any flow-rate

US Patent# 5,885,452  
CAN Patent# 2,237,751

### THE STF-100 SERIES PRESSURE FILTER WILL:

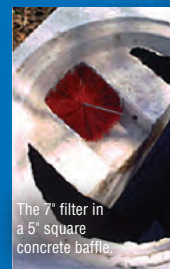
- » Lower total suspended solids (TSS)
- » Protect with low head-loss (.5002 ft)
- » Extend the life of the distribution field
- » Filter to .062", .024", .007", or .004"
- » Pass up to 83.8 gallons per minute @ 1 PSI
- » Allow for easy installation and service
- » Protect from improper system maintenance
- » Protect from system abuse
- » Satisfy your customers

### GRAVITY FLOW BRISTLE FILTERS FOR RESIDENTIAL OR COMMERCIAL SYSTEMS, SEPTIC TANKS, ONSITE SYSTEMS OR EVEN YOUR POND!

Very effective at filtering tissue, hair, lint, and other solids common to waste water. And flexible enough to fit just about anywhere, most common applications are standard "tees" and square concrete baffles as shown below.



Sizes:  
4" yellow  
6" white  
7" red  
8" blue  
Patent# 6,811,692



The 7" filter in a 5" square concrete baffle.

### ORIFICE SHIELDS



- » The Original Orifice Protector
- » Sturdy design for all applications
- » Easy to position
- » Will not fill with gravel in any position
- » Large discharge area that does not clog
- » Large open area
- » No moving parts to stick
- » Will remain in place, even without glue

### FLOAT TREE ACCESSORIES

- » Easy adjustments
- » No tangled wires
- » No float hang-ups
- » No straps to break
- » No entering tank
- » Easy pump repairs
- » Very affordable



## Check Out Our Other Quality Solutions!

Risers, Security Nets, Clean-Out Sweeps, etc.

gag-simtech.com  
888-999-3290



# ROEDA

We Get You Recognized

Covering The Portable Toilet World With  
**CUSTOM & STOCK DECALS**

Call now for custom graphics at  
**800.829.3021**



Shop online now at  
**STORE.ROEDA.COM**

roeda.com | info@roeda.com | 20530 Stony Island Ave. Lynwood, IL 60411

**SPI 50B019-120-240DD**

The **50B019-120-240DD** control panel from **SPI** is a duplex timed-dosing panel for residential or commercial applications. It can be used with 120- or 240-volt power, and it accommodates two dosing pumps controlled by a repeat-cycle timer. It has a durable, weather-resistant, NEMA 4X polycarbonate enclosure with SST latches; large, easy-to-access terminal block; circuit breakers for the pumps and control circuits; a rugged, externally mounted, UV-resistant alarm light; audible alarm and run-mute-test switch with UV-resistant sealing boot; definite purpose motor contactors; alternating relay; and pump hand-off-auto switches. Compressor hookups are available. Wiring schematic and detailed connection diagrams are provided, as well as mounting feet for the enclosure. It is UL listed. **419-282-5933; www.septicproducts.com**



**RISERS/LIDS**



**Aero-Stream Integral Safety Barrier**

The **Integral Safety Barrier** from **Aero-Stream** provides added protection from an incidental security breach of the primary septic tank cover. It is included on all Aero-Stream risers and available in heights from 7 to 50 inches in 3-inch increments, with custom heights available up to 96 inches. Its modular design minimizes freight cost and allows

33 unique configurations with 10 SKUs. The tank can be pumped without removal, but the unit can be removed for servicing baffles. It fits 24-inch I.D. double-wall corrugated, ribbed and smooth-wall pipe. The adapter flange is 29 1/2 by 29 1/2 inches, with a 23 1/2-inch I.D. **877-254-7093; www.aero-stream.com**

**BrenLin Seal-R**

**Seal-R** septic tank lids from **BrenLin** create a strong seal between the septic tank and the riser, eliminating water infiltration between the tank and riser. They are made of durable materials, range from 12 to 42 inches and can be personalized with a service provider's company information. The 42-inch lid meets growing demand for bigger risers to accommodate new technology. **888-606-1998; www.seal-r.com**



**TUF-TITE tank risers**

Tank risers from **TUF-TITE** have internal supports or ledges to reinforce internal plastic safety lids. The ledges will strengthen the company's plastic internal safety lids or a variety of internal safety devices made by others, such as concrete, fiberglass or rope netting. The riser lids come with necessary mounting hardware, including safety screws. **800-382-7009; www.tuf-tite.com**

**SEPTIC SYSTEM BACTERIA**

**Cape Cod Biochemical AfterShock**

**AfterShock** from **Cape Cod Biochemical** is a blend of laboratory-enhanced naturally occurring primarily aerobic organisms that are type-specific to the various substances that typically clog residential and commercial drainfields and leaching structures. It also contains a bacteria-friendly, time-released oxidizing agent to accelerate bacterial action of the organisms in the product to restore drain in most soil-absorption areas. Its consortium of bacteria and oxidizer can be applied at the same time. According to the maker, the oxygen-accelerated bacterial action will quickly digest the organic solid material that reduce the drainfield's capacity to absorb water, effectively restoring drainage through a natural process. **800-343-8007; www.capecodbiochemical.com**



**Century Chemical Bio-Tab**



**Bio-Tab** from **Century Chemical** is a tablet that sinks to the bottom of septic tanks where build-up problems begin. There, self-reproducing bacteria and enzymes gradually dissolve to create a growing area of activity, according to the maker, digesting and liquefying organic waste — treating the entire system, including the drainfield. It is able to establish itself by working from the inside out, and regular usage — combined

with routine pumping — can aid and support the natural digestion of waste, helping septic systems to maintain good working condition, the manufacturer contends. **800-348-3505; www.bio-tab.com**

**Ecological Laboratories PRO-PUMP/HC**

**PRO-PUMP/HC** liquid live bacteria from **Ecological Laboratories** is a blend of microorganisms selected for broad-spectrum application in industrial and wastewater treatment. It contains more than 30 strains of bacteria designed to resolve problems that occur in septic systems. It is designed to provide rapid breakdown and removal of fats, oils and greases that build up in septic tanks and absorption fields. It is a consortium of vegetative non-spore-forming bacteria formulated to perform in low-oxygen facultative anaerobic environments. Regular treatment can help reduce surface solids, bottom solids and odor, the maker contends. **800-326-7867; www.propump.com**



**J&J Portable Sanitation Products NuTank**



**NuTank** septic system treatment from **J&J Portable Sanitation Products** is scientifically designed to replenish the enzymes in the septic tank. With highest concentrations of billions of specific bacteria, the manufacturer

contends it will break down solids, scum and sludge for a healthier septic system. Using it monthly can help reduce the potential for backups and costly repairs such as drainfield damage, according to the maker. It is designed to boost the progression of the decomposition process, even battling harsh

*(continued)*



**Septic Tanks • Water Cisterns  
Pump Tanks • Holding Tanks  
Rain Water Harvesting**

**Multi Usage      Multi Layer      Multi Coverage**

- Inner layer of FDA approved virgin HDPE, two inside layers of PE for improved stability, plus one outer layer of black and UV-stabilized PE
- Lifetime\* corrosion protection and 5 years of labor insurance
- Strongest & heaviest poly tank on the market
- No water for backfilling required
- Low profile
- 100% watertight

Our multi-layered tank construction, consisting of virgin material surrounded by 3 layers of protection.



**BEST TANK. BEST WARRANTY. BEST SYSTEM.**

Roth Global Plastics

[www.roth-america.com](http://www.roth-america.com) 866-943-7256

\*see warranty for details

## TOP 13 REASONS FOR SUMMIT SOFTWARE

### Reason #1: Build your business with less effort

#### Portable Restrooms:

- ✓ Single-click Routes: optimized or "same as"
- ✓ Instant map views
- ✓ Automated Billing, Emailing, Credit Card Processing
- ✓ Mobile apps: Route Management, Inventory Management
- ✓ Accounting, without the headaches

#### Service Business:

- ✓ Work Orders and Job Tracking
- ✓ Reminder Cards
- ✓ Dispatch Management
- ✓ Billing, Accounting, QuickBooks® tie-in
- ✓ Go Mobile



Stay tuned next month for the next Top Reason!

Route Management | Dispatching | Mobility | Proof of Service  
Service Reminders | Billing/Receivables | Inventory Control

Portable Restrooms | Roll-Offs | Temporary Fencing  
Septic | Grease | Drains | Plumbing | Others

Ritam Technologies, LLC

USA/Canada 800-662-8471

Int'l 925-478-2732

info@ritam.com www.ritam.com

Watch demos OR  
call for a live demo



# TURN FOG PROBLEMS INTO FOG PROFITS



**Recover Brown Grease**

**Eliminate Tipping Fees**

**Treat Water for Disposal**

**Affordable & Scalable**

ProcessWerx FOG extraction systems provide complete "truck to sewer" solutions for recovering brown grease from grease trap waste. Our systems are easy to install, modular, and won't break the bank. We create custom solutions for any scale.



ProcessWerx

Blacksburg, VA

540-808-0753

info@processwerx.com

ProcessWerx.com



detergents and antibacterial products. Users toss one self-dissolving packet into a drain or toilet and wash or flush down. It is safe for all plumbing and environmentally friendly. It is packaged to be resold by septic pumpers in 12 packets per jar and 12 jars per case. The septic company's contact information can be added to each jar. **800-345-3303; www.jjchem.com**

### Lenzyme

**Lenzyme** is an enzyme-bacteria product used as a septic biological maintainer, drain cleaner and sewage treating agent in the home and in industrial, commercial and municipal installations. It can be packaged in the brand name or private labeled. It may also be used in formulations specifically designed for a given condition or application. Various formulae have been developed for use in drains, septic tanks and cesspools, and for industrial and commercial application. It is approved by the USDA for use in sewage and/or drainlines of establishments operating under the federal meat, poultry and egg products inspection program and is only sold to licensed contractors. **800-223-3083, www.lenzyme.com**



### Oatey Hercules Septic-Flow

**Oatey's Hercules Septic-Flow** is a concentrated liquid designed to improve the overall efficiency of all types of septic and wastewater systems. Containing billions of active organisms in each ounce, it has the capability to rapidly degrade waste, according to the maker. Used in a wide variety of conditions, the product will not be affected by temperature, pH variations, and the presence of household cleaners or disinfectants. It is designed to be used on a regular basis to eliminate backups, odors and corrosion. Available in 2-quart containers, it can be used in septic tanks, cesspools, dry wells, leach tanks and drainfields. Regular use allows for growth of sulfide-producing bacteria that slows the bacterial digestive process, according to the maker. **800-321-9532; www.oatey.com**

### Surco Portable Sanitation Products Enz-O-Matic

The **Enz-O-Matic** biological organic waste degrader and odor eliminator from **Surco Portable Sanitation Products** includes a high concentration of non-pathogenic, live bacteria cultures designed to rapidly degrade organic wastes with a blend of surfactants and odor counteractant fragrance. It is nonpolluting, contains no acids or toxins, and is certified *Salmonella*-free. It contains over 200 billion live bacteria cultures per gallon. The bacteria count doubles every 20 to 30 minutes to provide continuous enzyme production. Enzymes digest and liquefy grease, blood, urine, vomit, feces, sewage and other organic substances, neutralizing odors on contact, according to the maker. It can be used for drainlines, septic tanks, grease traps and septic spills. **412-789-8683; www.surco.com**



### Walex Bio-Active Septic Tank Treatment

**Bio-Active Septic Tank Treatment** from **Walex** is a drop-in packet designed to keep septic systems functioning properly. A powerful formula is contained in a rapid-dissolving liner that disintegrates when dropped in the toilet. It includes solid-reducing enzymes and beneficial bacteria, which are often depleted in septic systems by the use of anti-bacterial household cleaning products. Monthly use can help prevent back-ups, overflows and bad odors, according to the maker. Technicians can leave customers with a yearly supply of septic treatment to keep the system healthy between routine pumping service. **800-338-3155; www.walex.com**



### SEPTIC TANKS - POLY, FIBERGLASS, CONCRETE



### Roth North America MultiTank

The **MultiTank** from **Roth North America** can be used for water cistern, pump, holding, rainwater or septic tank applications. This is possible due to its inner layer of FDA-approved virgin HDPE, two inside layers of polyethylene for improved stability, plus one outer layer of black and UV-stabilized polyethylene. Features include CSA, NSF and IAPMO certification, a COEX-4 multilayer co-extrusion process, a low-profile design for less digging and avoiding high water tables, lightweight construction, a multiport inlet/outlet convenient for field piping, the ability to enter and exit the tank on the ends or sides, two 24-inch manways to provide easy access for maintenance and service, a cylindrical shape that requires no water for backfill, a threaded riser system and watertight, seamless construction. **866-943-7256; www.rothmultitank.com**

### SEPTIC TANK AGITATORS

### Crust Busters agitator

The handheld power agitator from **Crust Busters** has an 80-inch shaft and two- or three-blade propeller designed to mix a 1,000-gallon septic tank in five minutes. Options include 2-, 4-, 6- and 9-foot extensions and a short three-blade shaft that adapts to the two-blade unit. **763-878-2296; www.crustbusters.com**



### VENT PIPE FILTERS



### Pagoda Vent

Decorative **Pagoda Vents** come in 16-, 24- and 36-inch sizes. The original vents are bark (brown) or moss (green) color to blend into the landscape. The newest copper offering will add patina over time or can be maintained as a pristine copper landscape feature. All versions support the long life of system components by providing septic field microbes the oxygen they need to thrive, concrete tank gas release to mitigate microbial induced corrosion, and pressure relief for pumps. An optional odor filter cartridge uses concentrated media for years of odor control, according to the maker. **888-864-1468; www.pagodavent.com**

(continued)

Boost profits and stay top-of-mind with your customers year after year.



Quality Sanitation Products Since 1926



**Bio-Tab<sup>®</sup>**



800.348.3505

www.centurychemical.com

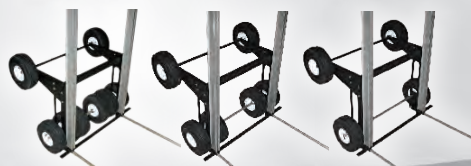


## EASILY MOVE RESTROOMS

### Super Mongo Mover<sup>®</sup>



- Move ADA Restrooms
- Aluminum Frame
- Available with 4, 6 or 8 wheels
- Easily Rides on Your Truck
- Ships UPS



Patented

**DA**  
Deal Assoc. Inc.

Toll Free: **866.599.3325**

**www.DealAssoc.com**



YOUR SOURCE FOR **REAL** LEARNING

**NAWT**

National Association of Wastewater Technicians

## Upcoming Training & Events

### Septic System Design

Installer by CPOW

January 19th, 2023

Location: Virtual

Contact: Lisa Nicoll cpow@cpow.net

NAWT Inspector by RETS

December 9-10, 2022

Location: San Marcos, TX

Contact: Lauren Trujillo

rets@rets-llc.com

NAWT Design Course by CPOW

February 28-March 1, 2023

Location: Virtual Online Course

Register: www.cpow.net

Operation and Maintenance Training

NAWT O&M 1 by CPOW

March 8-9, 2023

Location: Virtual Course

Contact: Lisa Nicoll

cpow@cpow.net

### Inspector Training

NAWT Inspection Certification Course by CPOW

February 7-8th, 2023

Location: Virtual Online Course

Register: www.cpow.net

NAWT O&M 2 by CPOW

April 5-6, 2023

Location: Virtual Online Course

Contact: Lisa Nicoll

cpow@cpow.net

Online NAWT DOT CDL Pre and Post Trip Inspection Course

Please visit [NAWT.ORG/TRAINING.HTML](http://NAWT.ORG/TRAINING.HTML) to register.

Online Vacuum Truck Training Available!

Please visit our website for more information.



**NAWT**

National Association of Wastewater Technicians

YOUR SOURCE FOR **REAL** LEARNING

For more information call:

**800-236-6298**

**WWW.NAWT.ORG**



### Simple Solutions Distributing WVI Inline

The **WVI Inline** activated carbon filter from **Simple Solutions Distributing** is installed in an attic or crawl space inline of the current vent to remove septic odor. The filter comes in 4- and 6-inch sizes, with the smaller able to be bushed down to 1.5-, 2-

and 3-inch sizes. It comes with 2 pounds of Sulfursorb Plus activated carbon, which is poured into the 2-inch fill port. The unit accepts an optional screw-in saturation indicator that changes color to indicate when carbon needs to be changed. It is suitable for extreme, cold climates, as it is enclosed in an attic or crawl space. It can be installed in any climate where septic or sewer vent odor exists and the roof vent filter needs to be hidden. **973-846-7817; www.industrialodorcontrol.com**

## CASE STUDY

### Chamber system enables expansion of state park treatment system

**Problem:** A remote location, the need for minimal site impact, and restricted funding challenged wastewater system designers for the Raven Rock State Park in Harnett County, North Carolina. Adding nine new campsites, six RV hookups and a bathhouse required



the installation of a 2,655 gpd system and the contractor, Creech's Plumbing, recommended **Quick4 Plus Standard Chambers** from **Infiltrator Water Technologies** to alleviate transportation and storage issues and expedite installation. Chambers were delivered on one truck and hand-carried to the installation site.

**Solution:** A 3% slope allowed use of a gravity flow system to handle the additional wastewater flows. The wastewater from the camper hookups flows to the 6,000-gallon dual compartment septic tank via a 6-inch, 693-foot-long Schedule 40 PVC pipe. Bathhouse wastewater gravity flows 799 feet to the septic tank and then to an 8,000-gallon field dose tank. Duplicative alternating on-demand 110 gpm pumps in the dose tank send effluent through a valve vault to a 14-tap manifold, ensuring flow to both drainfields even if one pump fails. When the campground is at full capacity, the two drainfields, utilizing a total of 840 chambers, are dosed twice daily.

**Result:** To accommodate the potential for volatile weather, work was done in stages, inspected and covered. Utilizing advanced GPS technology enabled completion of the installation of both drainfields in one day. A licensed operator monitors the system remotely and also performs routine maintenance. **800-221-4436; www.infiltratorwater.com**

# CASE STUDIES

## CASE STUDY

### Receiving station helps ready plant for increased influent load

**Problem:** Legislation for septic tanks in Florida may lead to increased septage volume at Indian River County's residuals dewatering (biosolids) facility. Inspection and pumping of septic tanks every three to five years may be mandated.



**Solution:** The county chose a fully automated **Raptor Septage Complete Plant** from **Lakeside**. The compact, self-contained unit dewateres screenings to 40% solids. An overnight self-cleaning cycle stops the buildup of grit in the bottom of the unit. The system is pre-engineered, and all-stainless steel construction resists corrosion.

**Result:** Far more grit and rags are captured than anticipated. A 4-cubic-yard container is filled daily. There have been no equipment issues, and only basic daily maintenance is required. **630-837-5640; www.lakeside-equipment.com**

## CASE STUDY

### Solar septic alarm makes residence compliant for sale

**Problem:** Legislation for septic tanks in Florida may lead to increased septage volume at Indian River County's residuals dewatering (biosolids) facility. Inspection and pumping of septic tanks every three to five years may be mandated.



**Solution:** The inspector recommended a **Nomad Solar Alarm** from **Minnesota Geotechnical Services**. The order called for the fiberglass lid configuration. The other options available are 6-inch port, 4-inch port, through the riser and mount your own. The lithium 9-volt batteries were installed in the conduit body. The solar panels were oriented to the south for maximum solar energy. After the float was set, evaluation of the device proved it operational. Due to the need for pilot holes in the riser, installation took only 20 minutes.

**Result:** The alarm performed as advertised, making the property compliant for sale. **320-980-6218; www.water-tech-5667.myshopify.com P**

# WHERE BUSINESS FLOWS

Let's face it, business opportunities ebb and flow on a daily basis. But there is ONE thing you can count every year—The WWETT Show.

It's the world's largest annual trade show for wastewater and environmental service professionals. The WWETT Show offers a robust educational program with nearly 100 live and online sessions, live demos, multiple networking opportunities and an expo floor brimming with the latest technology and innovations in the industry.

**Get in the flow and join thousands of your peers in Indianapolis for THE business event of the year.**

**REGISTER NOW**

## **WWETT 2023**

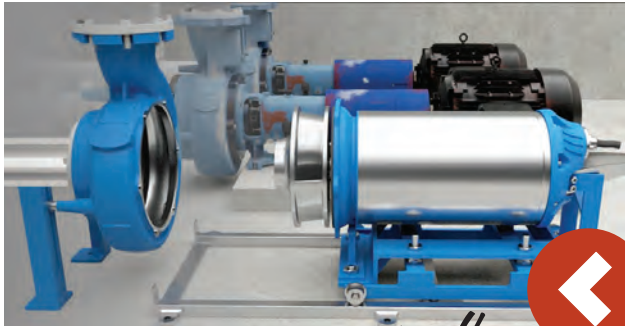
CONFERENCE: FEBRUARY 20-23

EXPO HALL: FEBRUARY 21-23

INDIANA CONVENTION CENTER

WWETTSHOW.COM    





*in the*  
**SPOTLIGHT**

By Tim Dobbins

**AIR-FILLED PUMP MOTOR DESIGNED TO CREATE PREMIUM EFFICIENCY**

The fear of dry-running a submersible pump is not an issue with Crane Pumps & Systems Envie3 air-filled pump motors.

Elizabeth Weiler, senior multimedia graphic designer for Crane, says the company saw a rising demand for an efficient submersible pump that could attain IE3 motor ratings, which is an international standard indicating the product meets premium efficiency.

“Envie3 pumps took Barnes’ and Deming’s proven nonclog and chopper wet ends and outfitted it with a premium efficient, IE3 motor,” Weiler says.

The new series provide lower energy cost in a platform that can be run in wet applications and in dry pits. “These pumps can be used in collections systems, treatment plants, stormwater systems, agricultural waste streams, among others,” Weiler says. “Because these pumps can operate both submerged and unsubmerged, horizontal or vertical, and are available in nonclog and chopper configurations, the applications for them are almost endless.”

Designing the product started with customer contact and listening to what they like and dislike, what works well for them, and what they look for in a submersible pump. After that, it went to the drawing board, followed by prototype building and testing before eventually launching the final product.

“We do performance testing on-site,” Weiler says. “This consists of laboratory testing and field prototype testing to introduce the pumps into real applications to find failures before launch.”

The product of that research and testing is a flood-proof design and integrated cooling system to run the motor cooler, resulting in longer motor life. It is built with a stainless steel outer shell, carrying handle and hardware. The rest of the pump body is finished with Resicoat R4 powder coating and each unit comes standard with a plug-and-play quick-connect cord.

Envie3 pumps are explosion-proof, use a tapered, keyed shaft and commercially available high-capacity sealed bearings and mechanical seals for easy maintenance.

“The design of Envie3 pumps enables lower continuous minimum submergence where the water can be pumped down to the top of the volute that helps prevent debris build-up and keeps the lift station cleaner reducing vacuum truck visits,” Weiler says. “So far, our feedback has been positive. Customers like the easy installation and the chopper option that solves tough clogging problems.”

**937-778-8947; www.cranepumps.com P**

**Superior 5-E Electric Smoke Blower Finds Faults, Odors, Leaks and Inflow**

Superior Signal Company’s Superior 5-E Electric Smoke Blower connects to any clean-out, port or vent to quickly smoke-

test the entire septic system. The Superior 5-E Electric smoker gently pushes smoke throughout a system to find cracks or leaks and quickly identify problems. Made in the U.S., the durable Superior 5-E Electric smoker comes with 8 feet of industrial grade hose. Used with Superior Smoke Candles, this solution is ideal for hard-to-find odors, leaks and other faults in commercial, residential and municipal facilities.

**732-251-0800; www.superiorsignal.com/PU5**



**OnTerra RouteSavvy route planning software**

OnTerra Systems, the developers of RouteSavvy automated route planning software, introduce enhanced versions of RouteSavvy routing software and the RouteSavvy mobile app. RouteSavvy is cloud-based route planning software that generates more efficient routes for deliveries, pickups service and sales calls. More efficient routes can be generated based on shortest drive time, shortest distance, routes that avoid highways and routes that avoid toll roads. RouteSavvy benefits include reduced fuel consumption and reduced fleet fuel costs, lower fleet maintenance expenses tied to mileage, minimized overtime labor costs and the opportunity to grow revenue with more deliveries, pickups or service calls added to the work week. **720-836-7201; www.onterrasystems.com P**



**Pumper is FREE!**

Subscribe/Renew Online  
at [www.pumper.com](http://www.pumper.com).





Chad Thompson

### Thompson Joins SJE as regional sales manager

Chad Thompson joined SJE as regional sales manager. He will be responsible for the Southeast region, including North Carolina, South Carolina, Tennessee, Virginia, Georgia, Florida and Alabama, after Tim Callander's retirement at the end of the year. Thompson has over 15 years' experience in the water industry, seven of which have been in sales.



Rob Gray

### Curry Supply welcomes new director of marketing

Rob Gray was named director of marketing for Curry Supply. He will plan, produce, and execute corporate events and major trade shows. Gray will lead the marketing team and work with developers, advertisers and production managers to market products and services to drive sales and grow brand awareness. He

will also generate qualified leads and ROI targets to achieve marketing objectives. Gray graduated from Pennsylvania College of Technology with a bachelor of science degree in graphic design and has more than 10 years of experience in sales, marketing and business operations.

Curry Supply announced the appointment of Sara Herron as marketing coordinator. She will assist Gray and will help manage digital and traditional advertising, web properties, social channels, content creation and will build brand awareness while also focusing on events and community involvement.



Sara Herron

### Pat's Pump & Blower announces retirements of founder and CFO

Pat's Pump & Blower announced the retirement of its founder Patrick Fender as well as its CFO Man Le. Fender and his brother, Richard, started Pat's Pump & Blower in 1985. Le and Kevin Fender joined the company a year later. Going forward, Le and Patrick Fender will serve as consultants for the company. Kevin Fender, a 35-year industry expert, is now the sole owner and president of Pat's Pump & Blower.

### Kenworth releases medium duty Driver Academy video series

Kenworth has released a Driver Academy video series for customers operating Kenworth's line of new medium-duty trucks. The videos include a thorough walkaround of exterior features and their functions, a detailed examination of interior features, and the proper procedures for pretrip inspection. The video series is available on the Kenworth Truck YouTube channel, [www.youtube.com/user/kenworthtruckco](http://www.youtube.com/user/kenworthtruckco). The videos are also available on the Kenworth Essentials app, which can be downloaded to smartphones and tablets from the Apple Store or Google Play Store. **P**

# Septic-Scrub™

## The Demonstrated Drainfield Restoration/Maintenance Solution

Backed By Science ■ Proven with Experience ■ Many Satisfied Homeowners

Septic-Scrub™ is a superior product for the maintenance and restoration of septic system drainfields. Customers appreciate that it is environmentally safe, contains no organic chemicals and does not produce any toxic by-products. Most importantly, **Septic-Scrub works.** It breaks down sulfide buildup in the biomat and soil to allow for better water absorption.

Learn more about Septic-Scrub at [www.arcan.com](http://www.arcan.com).



P.O. Box 31057  
Clarksville, TN 37040

For information on increasing sales and providing a valuable service to your customers, call Arcan Enterprises at **888-35ARCAN (352-7226)**



## Pumper Classifieds get the job done.

Print | Online | Mobile

Businesses | Computer Software | Drainfield Restoration | Grease Units | Hazardous Waste Units | Hydroexcavating Equipment | Jet Vacs | Jetters-Trailer | Jetters-Truck | Leasing/Financing Parts & Components | Pipeline Rehabilitation | Portable Restrooms | Portable Restroom Trailers | Portable Restroom Trucks | Pumps-Vacuum | Rental Equipment | Septic Trucks | Service & Repair Slide-in Units | Tanks | Tools | Trailers | Trucks | Vacuum Equipment | Vacuum Loaders | Wanted

Place your classified ad today.

[www.pumper.com/classifieds/place-ad](http://www.pumper.com/classifieds/place-ad)

**EASY-KLEEN**  
PRESSURE SYSTEMS LTD.  
MANUFACTURER OF HIGH PRESSURE CLEANING EQUIPMENT

**VAN PACK JETTERS**  
12 GPM @ 3500 PSI



**OPEN JETTER TRAILERS** **GROUNDHOG JETTER**



20 GPM @ 4000 PSI

**ENCLOSED JETTER TRAILERS**  
(Hot Water)



**EASY-KLEEN**  
PRESSURE SYSTEMS LTD.  
MANUFACTURER OF HIGH PRESSURE CLEANING EQUIPMENT

**VACUUM TRUCK HEATERS**  
440,000 BTU to 4,000,000 BTU



YouTube  
www.youtube.com/easyklean

**1-800-315-5533**  
www.easyklean.com  
sales@easyklean.com

**EASY-KLEEN**  
PRESSURE SYSTEMS LTD.  
MANUFACTURER OF HIGH PRESSURE CLEANING EQUIPMENT

**WOLVERINE**  
DRY STEAM GENERATORS

**DRY STEAM GENERATORS**



20/30/40/50 BHP  
Up To 2,000,000 BTU

- Curing
- Degreasing
- Degassing
- Melting
- Cleaning & Restoring
- Prepping Surfaces for Paint
- Purifying
- Weed Control

YouTube  
www.youtube.com/easyklean

**1-800-315-5533**  
www.easyklean.com • sales@easyklean.com

**CONFINED SPACE ENTRY PACKAGE**  
ONLY \$3,195

**The Best Package On The Market Includes:**

- 4-Gas Air Monitor (3 Year Sensor Warranty)
- 7' Tripod
- 3-Way Fall Protection
- Work Winch
- Full Body Harness



Add a Blower with 15' of duct for only \$400!  
Add a 5 Minute Escape Respirator for only \$500!

**TECH** 800.362.0240  
www.mtechcompany.com

**DREDGING & DEWATERING SERVICE**

- Municipal and Industrial • Digester and Lagoon Cleaning
- Double Belt Filter Presses • Liner Repair & Replacement

**Fluid Technology, Inc.** (513) 241-1600  
Fax (513) 756-1995  
www.fluidtechnologyinc.com

OUR BEST SELLING DRAIN LINE JETTER!

**HOTJET II**  
10GPM @ 4000 PSI • 35HP VANGUARD  
Cleans 2-12" Drains with Hot OR Cold Water



TRAINING AND FREE WARTHOG NOZZLE INCLUDED!

OVER 30 YEARS BUILDING QUALITY EQUIPMENT

**HotJetUSA**  
**1-800-624-8186**  
WWW.HOTJETUSA.COM  
PRICES SUBJECT TO CHANGE - CALL FOR CURRENT PRICING

The Shaddix Company

**Custom Made To Your Specs Truck Beds & Forms**



1500 & 1000 Gal.  
2 Compt. Septic Tank Forms



Septic Tank Delivery Beds

Call Dewayne for a quote!

**256-737-0051**  
www.shaddix.us

**Irwin Septic**  
Pumping • Plumbing • Repairs  
(928) 688-8712

**FREE PRIVATE LABELING**


Drainfield Solutions  
Root Control - Septic Solutions  
Grease Solutions

**www.lenzyme.com**  
**800-223-3083**

**ARCTIC BLASTER**

- > Perfect for all your thawing needs
- > Thaws pipes above & below ground
- > Use on plastic, copper or ABS
- > Perfect for roof drains

**Valve Heaters for your Septic Truck Arctic Valve Heaters**



- > No piping changes or welding needed on your truck.
- > For: 3", 4" or 6" MZ Lever Valves And: 4" or 6" Betts Valves
- > Developed by the inventor of the Arctic Blaster

Heat the Valve, Not the Sewage

**ARCTIC BLASTERS INC.**  
SUNDRE, ALBERTA  
403.638.3934 • ArcticBlaster.com

*Fresh Content*

IS KEY TO YOUR COMPANY'S MARKETING STRATEGY...

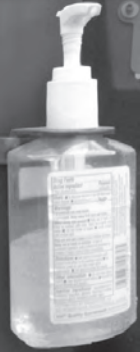
**LOTS OF IT.**

COLE Media's content generation team specializes in custom-built, affordable solutions exclusively tailored to fit your needs.

**COLEmedia**  
800.257.7222 | cole-media.com

R. Nesbit Portable Toilets introduces:  
**The Sani-Klip**

A COST EFFECTIVE SOLUTION FOR PROVIDING ALL OF YOUR CUSTOMER'S HAND SANITIZER



CONTACT: KATIE/AMY  
 R. NESBIT PORTABLE TOILETS  
**724-652-8232**  
[www.best-portable-toilets.com](http://www.best-portable-toilets.com)

Surco  
**Potty Fresh Plus**  
 Portable Toilet Deodorant



Powerfully-effective odor control liquid portable toilet deodorant!

Non-Formaldehyde • Deep Blue Non-Staining Dye

**SURCO**  
 PORTABLE SANITATION PRODUCTS  
 800.556.0111  
[surco.com](http://surco.com)



Wishing you every happiness this holiday season and throughout the coming year.

*Your friends at COLE Publishing*



Surco  
**Fresh Lube**  
 Pump Oil Odor Control Additive

Counteracts offensive exhaust odors generated by septic vacuum pumps



**SURCO**  
 PORTABLE SANITATION PRODUCTS  
 800.556.0111  
[surco.com](http://surco.com)



51T Trailer Jetter Hot or Cold  
 20 GPM @ 4000 PSI  
 76 HP Kohler EFI  
 FREE Shipping/Delivery



58 Trailer Jetter Hot or Cold  
 10 GPM @ 4000 PSI  
 38 HP Kohler EFI  
 FREE Shipping/Delivery

**866-944-3569**

What you learn on these pages can be worth **\$1,000s.**

It's all yours for — **FREE.**



Great Tips. Great Deals. Great Magazine.

Turn the page and stay up-to-date on the latest products, equipment and information for your industry. Over 25,000 of your peers read *Pumper* each month for the unlimited knowledge it gives them. Each issue shows you new tools, tips to save on expenses, money-saving deals and much more.

Don't miss an issue — Subscribe today!  
 Call 1.800.257.7222  
 or go to [www.pumper.com](http://www.pumper.com)

**T&T Tools, Inc.**  
**800.521.6893**



Insulated Soil Probes (for locating)

Heat-Treated Hooks (for covers, lids, etc)

[www.mightyprobe.com](http://www.mightyprobe.com)



Each issue will show you new tools, ways to save on expenses, money-saving deals and much more.

**Pumper**

Don't miss an issue!  
[www.Pumper.com](http://www.Pumper.com)



# CLASSIFIEDS

See photos in color at [www.pumper.com](http://www.pumper.com)

## BUSINESSES

Septic Tank Cleaning Company For Sale in Northeast New Jersey. This two truck operation was established in 1971. There is one 1986 Autocar with a 5,000 gallon stainless steel vacuum tank and one 2007 Kenworth T 300 with a 4,000 gallon vacuum tank. Both tanks are newer than the trucks. Two stainless steel storage tanks are included. The trailers are good for yard use only. Since we have been in business since 1971 we have a large customer base and we have a great reputation with same name and logo. Trucks include hoses and tools. Included are electric eel snakes and tank locating equipment. Selling trade name, phone numbers and equipment. Will sell without equipment. This is a tremendous opportunity for the right buyer. All customers are in Bergen County New Jersey. Contact : [mdblue@optonline.net](mailto:mdblue@optonline.net) (P12)

FMC Advisors is currently representing and offering the following businesses for sale: Southeast portable sanitation company, \$10mm revenue, Southeast portable sanitation, roll off and residential waste, \$5.0mm revenue, Southeast portable sanitation and roll off company, \$5.0mm revenue, Southeast portable sanitation and roll off company, \$4.5mm revenue, Southeast portable sanitation company, \$1.5mm revenue, Southeast portable sanitation company, \$1.5mm revenue Northeast portable sanitation company, \$2.5mm revenue, Northeast portable sanitation company, \$600k revenue Southcentral roll off company, \$2.0mm revenue, Southcentral portable sanitation company, \$1.0mm revenue, Many more coming soon. [www.fmcadvisors.com](http://www.fmcadvisors.com) Please call Damon Powell at 407-765-9440 or email [damon@fmcadvisors.com](mailto:damon@fmcadvisors.com) for more information. (P12)

BUSINESS FOR SALE CENTRAL NJ NJDEP-A901/CPCN Septic/Sewer-pumping-repair-construction. Tandem Dump, Mason Dump, Utility, and Pumper Trucks- Backhoes, Loader, Jet Machines, Power snakes, Shop tools. Easy transition to solid waste.\$500K. Owner retiring. Glenn 732-672-5797 [covertactionz@optonline.net](mailto:covertactionz@optonline.net) (P12)

Thriving, small, full service, septic company in Northeastern Maryland for sale. 19 years of top notch service. Huge active customer list. Fully stocked with all the equipment you need to continue to prosper. Completely Turn Key, start making money on day one! \$250,000 410-937-5042. (P12)

Selling after 23 years due to health reasons. Profitable business which includes: 2019 Dodge 5500; Approx 500 toilets in good condition and 100 that need touch up; 15 double hand sinks; 15 300-gallon holding tanks; Portable toilet trailer; Chemicals and paper included. Location available. Asking \$780,000. Call Mary 618-681-1580 or Steve 618-922-2338for more information. (P01)

Septic tank cleaning company for sale in northeast New Jersey. This is a two truck operation since 1971. One 1986 Autocar with a stainless steel vacuum 5,000 gallon tank and one 2007 Kenworth T300 with an aluminum 4,000 gallon vacuum tank. Two stainless steel storage trailers are included. The trailers are good for yard use only. We have a large customer base and we have a great reputation with same name and logo since 1971. Trucks include hoses and tools. Selling trade name and phone numbers and equipment. Will sell without equipment. This is a tremendous opportunity. All customers are in Bergen county New Jersey. Please send your letter of interest to: 48 Bi-State Plaza # 106 Old Tappan New Jersey 07675-7079 (P12)

For Sale. Septic pumping business in Phoenix and surrounding areas. Well established and very reputable family owned and operated for nearly 70 years Large customer base with 5 star approval rating. Includes fully stocked 3400 gallon vacuum truck, mini excavator with trailer, and miscellaneous equipment and supplies. Owner retiring. Reply to [aaaawestwood@hotmail.com](mailto:aaaawestwood@hotmail.com) (P12)

Seeking family-owned pumping business in the Midwest. We are a family-owned and operated pumping business seeking to expand our service area and offering throughout the Midwest. Please reach out if you are seeking a succession or retirement plan and looking for a partner who is not backed by private equity or a large corporation. We have experience acquiring a pumping business discretely and efficiently, and would love to speak with you about your business. Please contact us at 248-640-9882 to start a conversation. (P01)

Very diversified Environmental Services Company for sale. Owner is retiring. Septic and grease trap cleaning. Drain cleaning, Portable restrooms, video camera services , lift station services , trenchless pipe point repair, confined space services, hydro excavation, tank cleaning, excavation, frac

tanks, distributor for several home aeration systems, authorized service center for E-One pumps, Residential , Commercial , Industrial, Municipal Services . Located in Northwest Ohio for 47 years. Very profitable , Late model equipment in good condition. Turn key operation. Business is run remotely. Serious inquiries to [MrSeptic6@gmail.com](mailto:MrSeptic6@gmail.com) (P12)

Highly reputable & thriving septic tank & cesspool cleaning company for sale in Nassau County, NY. Our excellent reputation promises tremendous opportunities for growth & expansion. Servicing prominent areas of Nassau & Suffolk Counties since 1972. Owner is now looking to retire. Owner is willing to stay on & train new owners temporarily. If interested, please contact us for more information: 516-922-1242 / [EastNor14@yahoo.com](mailto:EastNor14@yahoo.com) (P12)

Join a Growing Organization. If you thought about selling your pumping business now is the time to contact us for a serious discussion about a potential acquisition. We are a growing company covering Rhode Island, Massachusetts, Southern New Hampshire and Connecticut via our Massachusetts and Rhode Island locations. We would like to speak with you about your business, employees, and equipment today. Please contact us, leave your company name, your name, contact number and e-mail and we will be in touch (all calls go to answering service and you will receive a call back quickly). Looking forward to speaking with you. Thank you Consultant Services, Inc. (401) 339-9992 (PBM)

[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)

## DEWATERING

Septic Receiving Plant for Sale ( Equipment Only) It is located in Michigan. Pick up only, no shipping available. The plant is 10 years old with some parts as new as 1 year old. Plant is in excellent condition. It works great, aluminum and stainless construction, plastic and fiberglass tanks. Includes, large press, large screen, control panels, 4 pumps, 6 tanks, 2 - 20,000 gallon slurry store tanks, flow meter with start and stop controls (card activated) gives receipts for gallons received. \$325,000. Call or text Ross at 989-620-6312 to inquire. (P12)

## DRAINFIELD RESTORATION

1996 Terralift Machine w/4' & 6' probes. Under 120 Hours Always kept indoors. \$1500.00 203-623-0444. Leave Message (P12)

**Pumper Classifieds Work!**



**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)

## HAZARDOUS WASTE UNITS

2000 Kenworth/Cusco Stainless Mastervac Wet/Dry High Dump 3,800 27' CFM Blower with Demag offloading pump with rear mounted boom.DOT 412 Haz Cert. Cat 3406 425 HP with Fuller 8 spd 44k rears 20 K pusher on alum budds. Recent engine rebuild and rebuilt blower \$240k KLM Companies 617-909-9044 (PBM)

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)

## HYDRO EXCAVATION EQUIPMENT



**2016 International, Cummins ISB, Allison Transmission, 18,000 miles. Tuthill 6015 Blower, 1200 gallon hoisted tank, Engine Driven UDOR, 7GPM, 3000 PSI 501-388-9464 (P12)**

**Submit your classified ad online!**  
[www.pumper.com/classifieds/place\\_ad](http://www.pumper.com/classifieds/place_ad)

PLACE YOUR AD ONLINE AT [WWW.PUMPER.COM](http://WWW.PUMPER.COM) - IT'S ALWAYS THERE TO MEET YOUR BUSY SCHEDULE



**2016 International MV, SMART-DIG HX-4000, KUBOTA V3600T, Call Ray @ 501-388-9565 (P12)**

### JETTERS – TRAILER



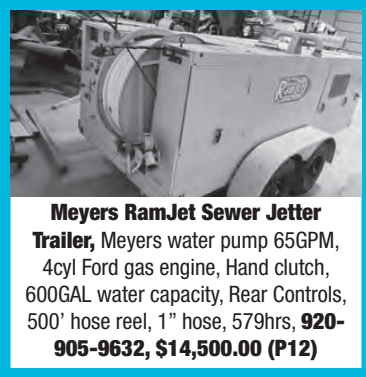
**The HotJet II®** is a best-selling hot-and cold-water drainline cleaner featuring a 35hp Vanguard engine by Toyota and delivering 10gpm @ 4,000psi that cleans drains up to 300' and 12" in diameter. The HotJet II® is American made using nonproprietary parts for affordability and ease in serviceability making its return on investment truly impressive. Prices subject to change. Financing available. Contact us for current pricing and availability **800-624-8186; sales@hotjetusa.com; www.hotjetusa.com (PBM)**

2001 Harben DTH-300 jet trailer with a Harben radial piston diaphragm pump 16 GPM @ 4,000 PSI driven by a Hatz diesel engine. Stock #1386V **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

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



**2013 US Jetter with 300 gallon storage tank. 400' of hose and 100' of 3/8 hose that mounts to the trailer. Also comes with 50' of 1/4" hose. Wireless remote and 3 jetter nozzles. 1,672 hrs. Very well maintained and works great. Contact Skyler with any questions. \$35,000 OBO Skyler@express-plumbingidaho.com 208-919-3226 (P12)**



**Meyers RamJet Sewer Jetter Trailer**, Meyers water pump 65GPM, 4cyl Ford gas engine, Hand clutch, 600GAL water capacity, Rear Controls, 500' hose reel, 1" hose, 579hrs, **920-905-9632, \$14,500.00 (P12)**

### JETTERS – TRUCK



**2006 Vactor 2100** single engine PD, Mounted on a Steerling chassis, manual trans. 12 yard debris body, 1500 gallons water, 80 GPM 2500 PSI water pump, hydro excavation pkg, remote control, retractable hose reel, new rear tires, new jetter hose, all new ball valves, truck completely serviced contact David Bruder at Brown Equipment for pricing **1-260-433-0893 dbruder@brownequipment.net (P12)**



**2017 Freightliner Vactor 2100 Plus**, 47652 miles, 1943 blower hours, Chassis hours 7559. single engine two stage fan, auto trans. 15 yard debris body, 1500 Gallon 2500 PSI 80 GPM water pump. Hydro Excavation, Hydraulic tool Pkg, Wireless remote Pkg, air purge, auto level wind. new jetter hose and tubes. Truck fully serviced. Contact David Bruder **1-260-433-0893 dbruder@brownequipment.net (Contact for Pricing) (P12)**



**2000 Freightliner FL80 Jetter Truck**, Cummins ISC, Allison, 49,001 miles, 14,600# front axle, 23,000# rear axle, 1500 GAL Water, Dean Pump L1118SC 65GPM 2000PSI, 1" hose, **920-905-9632, \$18,500.00 (P12)**

### JET VACS

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.vsurentalsllc.com. (PBM)**



**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 (P01)**

### LEASE/FINANCING

Western Equipment Finance, a bank-owned direct lender, is committed to continuing to help you prosper. All Equipment Types, New or Used; we have the best rates and terms you deserve. App-Only Financing and credit decisions within an hour. Call the team you can TRUST, Jim Stekl at Western Equipment Finance 701-665-1647. jim.stekl@westernequipmentfinance.com (PBM)

### PARTS & COMPONENTS



**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. \$149.99. **Order at jnamainlinevac.com. 919-559-9344. (PBM)**

### PIPELINE REHABILITATION

16ft Cues TV/Cutting tandem axle trailer. Also have Cues TV/Cutter truck with 18 ft box. Vanair undercarriage compressor. Also selling lots of miscellaneous equipment. Safety equipment, Cherne plugs, 42" to 60" specialty down the hole tools, Cementitious man hole lining trailer, TV Trucks, Jettors and lots of parts pneumatic piercing tools & accessories 14' tandem axle TV/Trailer (Envirosight) minus equipment. Too much equipment to list. For photos or more information Call Kelly (608)835-7767. (PBM)

### PORTABLE RESTROOM



**We have (100) five peak special event grade units for sale.** Unit price: \$350/each + tax. These unit have been meticulously maintained, and ready for your next event. **Call 608-835-3459 with any questions. (P02)**

Used Five peaks and Poly Portable Restrooms for Sale. All serviceable units. Need to make room for new units. 615-867-1512 (P01)



**150 Satellite Hi Tech toilets** Orange & Grey, All in Rentable Condition. We sold 500 of these in the last few months to many happy customers all over the US. Purchaser is responsible for shipping from New York. Aggressive price of \$250.00 per unit. **These units will sell fast. Call 1-800-634-2085 (P01)**



**200 Tan Poly Portable Integra** units for Sale. All units in good rentable condition. \$250.00 each. **Call 1-800-634-2085. (P01)**

**SUBMIT YOUR CLASSIFIED AD ONLINE at www.pumper.com**



**200 Grey Poly Portable Integra** Units for Sale. All in Rentable Condition. Aggressively priced for immediate sale. **\$250.00 per unit 1-800-634-2085 (P01)**

## 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



**2010- 4300 International** with 250,000 miles. Max Force Engine. 1100 Waste and 400 Water Best Stainless Steel Tank. Masport HXL4 Pump. **\$49,000.00. 606-793-1915. youncesseptic@yahoo.com (P12)**



**2011 Dodge 5500**, Automatic. Runs great. We still use this truck on a weekly basis. It has 335,000 miles. Aluminum tank with 300 waste and 900 fresh water. Everything works. Updating fleet, this is why we are selling. Asking **\$39,000 or OBO. Call Patrick with Quality Waste 423-736-3999. Located in East Tennessee. (P12)**

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)**

2017 F550 XL 4wd 6.7 Diesel 146000 Miles 7584 Engine Hours. Imperial Aluminum Inside Coated tank 900waste/400fresh Dual Service. New Water Pump and hose reel in 2021, Masport HXL4, Drop down gate hauls 2 toilets. \$55,000 Email for Pics or information, Motivated Seller. Daily Driver until new unit arrives no2septic@gmail.com 715-682-2222 (P01)

Pre Owned 1993 Mack RD688S cab and chassis with a 3,200 U.S. Gallon, carbon steel, dump type, vacuum tank unit. Stock# 4296C **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

## PUMPS

Buy & Sell all makes and models, new & used vacuum pumps, blowers, high-pressure water pumps, new and good used replacement parts. Buy discounted pumps online 24/7. Call us for a current inventory list. **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**

## 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

2012 3250 gal. Eagle Tank mounted on a 1989 International 4900 DT 466, 13 speed RoadRanger, 52,000 GVW, 155,000 original miles. Always kept indoors, this truck is registered and making money for original owner. \$12,000 call 203-623-0444 leave message (P01)

1994 Mack DMM 690 (6x6), 275 HP, 6 speed, 3600 gallon Lely-Steel Tank, Masport 400 Pump-Hydraulic Driven, Air Operated Dump Valve-Rear 6", A/B, P/S, 20000 Front, 44000 Rear, Floatation front tires, 12R x 22.5 Rear. \$29,500 Call Bob @ 352-796-4540 (P01)

1989 Mack "R" 690T, 2500 Gal "Lely" steel tank. Moro Pump, 300 HP 4 Valve Engine, 5 Spd Trans, P/S, A/B, S/A, A/C, Tinted glass, 12000 front, 21000 Rear, Tool boxes, Dual Fuel Tanks, Side Vacuum 4" left side, Air Operated Rear Pump Valve, \$24,500. Call Bob @ 352-796-4540 (P01)

Pre Owned 2006 Peterbilt 335 cab and chassis with a 4,000 U.S. Gallon aluminum vacuum tank. Complete with a Masport HXL400VV vacuum pump package. Stock# 1111V **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648). (PBM)**



**2023 Peterbilt 548**, chrome package, air ride, 20 fronts 46 rears (360 HP, 3000 AUTO) 4200 Gallon steel or aluminum tank, NVE 4310 OR JUROP DL180 blowers available. **Call Ray today 501-388-9565. (P12)**



**2004 Dt-466, auto.** Needs engine. Dumps 2500 gal tank. **4,500.00 912-222-9709 (P12)**



**2007 Freightliner with a 4,000 gallon** steel tank and hydraulic dump bed. 4" Jurop pump. This truck will pump 1,000 gallon tanks in no time. Manual 8 speed. Truck has 290,783 miles and 5056 engine hours. Its been well maintained and ready to be put to work. All tires are in good shape. Contact Skyler with any questions. **\$60,000 OBO Skyler@expressplumbingidaho.com (P12)**



**2023 Peterbilt 389X**, MX13 engine, 4000 Allison OR 8LL trans available, 66K GVWR 4200-5500-gal steel or polished aluminum tank. **Call Ray today @ 501-388-9565 (P12)**



**2007 Freightliner M2106**, CAT C7 engine with 333,XXX miles. Eaton Fuller 9 Speed Manual Transmission Tank Size - 3200 gallons (steel) This is a very reliable unit that is currently in use. It has newer tires (less than a year), new carrier bearing, PTO drive shaft and has the Jurop 420LC, which was rebuilt last year. She's a worker and is overall a solid 7 out of 10. Two 4 inches heated valves with a heated 6 inch discharge. We're selling it to reinvest for another unit's upgrade. Contact: josh@rapidflush.com or call 616-368-1894 Overall condition: GOOD If it was mint condition it could easily go for upwards of \$75,000. **Asking \$45,000 or best offer. (P12)**



**1995 International Eagle.** 3500 gallon tank, truck and tank in good condition. In frame rebuilt engine in 2014 Detroit 430 engine. Air ride. 10 speed Fuller transmission (water cooled Masport pump) Truck runs and pumps great! Very dependable pump truck. **\$31,000. Located in California Call Paul 909-721-2608 OR text Jeff at 949-254-0270. (P12)**

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)**

**Sell Your Truck Here!**  
[www.pumper.com/classifieds](http://www.pumper.com/classifieds)

PLACE YOUR AD ONLINE AT [WWW.PUMPER.COM](http://WWW.PUMPER.COM) - IT'S ALWAYS THERE TO MEET YOUR BUSY SCHEDULE



**Sterling 2005**, 2.5 year old 4200 gallon steel tank, see level gauge, 500 CFM Fruitland Pump, C-13 Cat 425 HP, Allison 4500, 20k Front, 46k Rear, 13k pusher, Tires average 80% **\$79,000.**  
**816-988-6650 (P12)**



**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, power mirrors, power door locks, tilt wheel. Only driven by the owner and truck is in pristine condition. Original owner. Ready to go to work. **\$125,000.00 Call John 661-802-9656 (P12)**



**2007 Peterbilt 379** septic 4000 gallons, tandem rear, aluminum rims, virgin tires, cat engine. Brand new tank and system. Truck will be ready soon.. Financing available with good credit and same day approvals. **For more info please call 786-302-4989. (P12)**



**2007 Freightliner 4x4**, only 76k, Mercedes diesel, 300hp, 6spd, exhaust brake, AC, cruise, New 2500 gal tank, stainless hose trays, Jurup R260 vac pump, paint and alum wheels. Extremely clean low mile truck. Delivery and financing available, **\$75,000.00 Hulls Truck Bodies LLC 740-820-5338. (P12)**



**2012 Kenworth, ISX Cummins** 450 h.p, 405k, 13spd, 18 front, 46 rears, double frame, 4000 gal alum tank and new NVE 887 vac pump, very clean rust free truck. Delivery and financing available, **\$89,000.00 Hulls Truck Bodies LLC 740-820-5338 (P12)**



**Buy it today and use it tomorrow!!!** It's in great condition. 2012 Freightliner Cascade with 395,XXX and Galyean 5,460 gallon tanker with a fruitland pump. 18 speed manual transmission. See pictures for details. Asking \$87,134.49 or best offer. **Call Josh at 616-368-1894 or email josh@rapidflush.com (P12)**



**2009 Freightliner M2** Business Class vacuum truck, chassis has a Cummings diesel engine, Allison automatic transmission and only 52,000 miles. Vacuum tank is a newer stainless steel 2,100 gallon, pump is a brand new air cooled R260 Jurup. New heated collars, tires like new, this is a great unit.. asking **\$62,000 dollars. Call Don. 608-897-8000. (P12)**



**2008 Peterbilt truck**, Cummings 335, 10 Speed Transmission, 3600 Gallon Tank, Masport pump, Non Compliant in California. Truck works well. **Asking \$70,000 or best offer. Please call 530-934-7883 (P01)**



**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 \$45,000.00. For more info, call Marvin at (772) 201-2086. (P12)**



**2011 Peterbilt 365** 10 wheeler septic truck-4,000 gallon tank. NVE Challenger model 866 pump. Tank and pump was installed in 2015. Low miles 85,788. New tires with 90% rubber left. Amazing truck. **Contact Skyler at Skyler@expressplumbingidaho.com for more details. \$110,000 OBO (P12)**



**2012 Ford F550 6.7 Diesel.** Portable Toilet Service Truck. 650 gallon waste/300 gallon fresh tank. 275k miles. Over all the truck is in great condition inside and out. Interior is in great condition, A/C blows cold. The pto driven pump work great, the truck needs nothing. **Ready to work. Asking \$42,000. Call 559-301-6978 (P12)**

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.vrentalsllc.com. (PBM)**



**2004 Peterbilt Septic tank**, 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 786-302-4989 (P12)**



**2015 Kenworth T440** 4200 gallon aluminum tank with 866 NVE vac pump 275,000 miles approx. **\$95,000 Call 832-777-7540 (P12)**



**1992 International** dt 466 pump truck. **Call 631-662-9910 Please leave a message. (P12)**

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)**

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)**



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

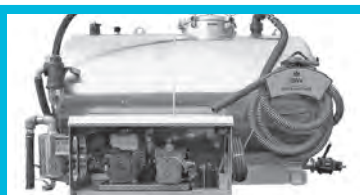
Pre-owned 1984 Mack R686ST cab and chassis with a 3,000 U.S. gallon, carbon steel, vacuum tank unit. (Stock # 6115C). **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

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)**

## SERVICE AND REPAIR

Dynamic Repairs - Inspection Camera Repairs: 48-hr. turn-around time. General Wire, Ratch, Ridgid, Hathorn, Electric Eel, Gator Cams, Insight Vision, Vision Intruders. Quality service on all brands. Rental equipment available. For more info. call Jack at 973-478-0893. Lodi, New Jersey. **www.dynamicrepairs.biz (PBM)**

## SLIDE IN UNITS



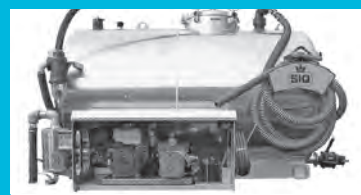
**Slide In Warehouse** has units available and ready to ship. Contact us today at 833-4-SLIDEIN (475-4334). 300-1500 gallon units. Complete, ready to work, units for your portable restroom, septic, or grease business. **Contact us today for pricing and availability. (P11)**

TANK DEPOT has slide-ins AVAILABLE, ready to ship. Sizes from 300-1500 gallon with pump package options. Call us today! 833-475-4334. (P12)

Slidetanks.com has units AVAILABLE and ready to ship. Sizes from 300-1500 gallon. Tank and pump options available. Contact us today! Slideintanks.com or Call 833-4-SLIDEIN (475-4334) (P12)



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



**Slide In Queen** has tanks ready to ship. 300-1500 gallons. Ready to work, units for your portable restroom, septic, or grease business. **Contact us today 833-4-SLIDEIN (475-4334). (P01)**



**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. **\$22,000. Call Jamie 800-558-2945, salesinfo@imperialind.com. (PBM)**

## TANKS

Tanks in stock and available for immediate purchase. Prices start at \$16,000 for a 2500-gallon tank. Complete and ready to place on your truck. Call J Eagle Tanks 1-800-721-2774 (P12)

**SUBMIT YOUR AD ONLINE at**  
**www.pumper.com**



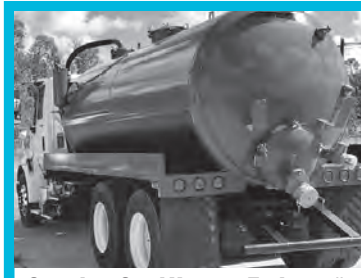
**Used VAC Tanks.** 2500 to 4700-gallon - Starting at \$7,900. Gasco Triplex 3364-AL **269-751-5167. (PBM)**



**Frac Tanks** from Geneva Equipment. Financing available! Delivered to your door! Perfect for: Portable sanitation storage; Dewatering; Wastewater storage and treatment; Hydroexcavation; Storm-water runoff. Geneva has over 1,000+ frac tanks available, epoxy lined and EPA compliant. **Call 855-202-7872 or sales@genevaequipment.com www.genevaequipment.com (PBM)**



**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. **J Eagle Tanks 800-721-2774 www.Jeagletanks.com (PBM)**



**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)**

## TANK TRAILER



**2006 Mack Tractor & 2019 Trailer** 638,932 Miles, 460,18 Speed, Air Ride, Full lockers, 14F/46R, New King Pins, Suspension Parts, Good Tires, NO TLC Required. 2019 9000 Gallon STE Stainless Trailer, Insulated, 4" Trash pump, sight tube good, 6" Pump, 4" inlet, 95% Tires/Brakes, Air Ride, Pump valve. **\$163,000. Call 978-386-5616. (P01)**

## TOOLS

T&T Tools: Probes, Hooks. Probes feature steel shafts with threaded and hardened tips. The insulated Mighty Probe™ tested to 50,000 volts. Top Poppers™ open manhole covers easily. Free catalog. **www.TandT-tools.com. Phone 800-521-6893. (PBM)**

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)**

## TOYS

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)**

## TRAILERS



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





**2022 - 6 Station Shower Trailer** with Sinks | Classic Series - Full heat 3 Season Forced Air \$90,000 to payoff current loan not looking to make money on this sale - Rented only twice this season **Call 928-856-0474 Flagstaff, AZ (P12)**

### TRAILERS-VACUUM/TANKER



**1992 Presvac Tanker** (\$40,000) 5000 gallon DOT tanker with Liston Motor Vac Pump. **740-681-9902 (P12)**

### TRUCKS (DUMP, SEPTIC, MISC.)



**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. **\$40,000 obo call if any questions 916-300-8886 or 916-624-8500 (P12)**



**2011 international**, 2500 gallon vacuum truck, new jurop pump, and eagle tank, only 51,000 original miles, 466 with a 10 speed transmission, aluminum wheels, fresh build, available now, **\$72,500. Ernie- 619-454-9748 (P12)**

Wanting to buy 3500-3800 gallon stainless steel vacuum tank in GOOD+ condition. 724-496-3377 (P12)



**1988 S2300 International;** L10 Cummins 8 speed transmission. Set up for installing and hauling pipes, risers, fittings, and tools for septic systems. Runs good, needs some TLC. **Mileage: 320,000 approx. (636) 583-5564. (PBM)**



**2004 International 7600**, Cummins engine, Allison 4500, heavy spec, 20k front, 46k rear, lift axle, 4,200 gallon steel tank built in 2015, Jurop LC420 pump for sale in southern Indiana. Asking \$55,000. 613,981 miles but the engine was overhauled by Cummins at 308,587 miles with documentation. New vane kit for the Jurop included. Truck runs and pumps good and was used regularly. **Contact: 812-332-7663 (P12)**



**2002 Mack RD E7-400** Engine, 8 Speed Fuller transmission, 4800 gal. Progress aluminum tank, Digital tank gauge, wittig vacuum pump. 240,000 miles on engine. **Located in Freehold, NJ Call Nick 732-904-3097 (P12)**



**2004 Peterbilt Cummings ISX**, 427,000 miles. For sale in Osceola, WI. **\$75,000. Contact Keith at 715-417-0189 (P12)**

**CLASSIFIEDS!**  
www.pumper.com



**2006 Peterbilt CAT C15 475HP**, 18-speed, 450,000 miles, 4,000-gallon aluminum tank, NVE 367 pump package, ready to work. **Call for pricing. (866) 720-4999. (PBM)**



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

### VACUUM EQUIPMENT



**2015 Kenworth T800** (\$280,000) ISX15 Cummins w/ 10 Speed trans, 61k miles, 4.3k hours, 3500 Gal DOT Tank, 700 Series Dresser Blower - 3627 CFM, PM80 Wet Pump. **Call 740-681-9901 for inquiries (P11)**

1995 International, Keith Huber Dominator(1995),Hydraulic back door,3200 gallon ASME Tank, Fruitland Vac pump, A/C work, Annual Inspection OK, Phone 904-613-9559, e-mail jason@iccllc.net, Will send pictures upon inquiry.\$80,000 (P01)

**Submit your classified ad online!**  
www.pumper.com/classifieds/place\_ad

### VACUUM LOADERS

POWERVAC 3800, 3,500 U.S. gallon, carbon steel Vacuum tanker with a Robuschi PD blower 3800 SCFM with vacuum to 28" mercury. 2006 Freightliner FLD120SD tri axle cab and chassis. Stock# 8225V **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

Pre Owned 2005 Kenworth T800 cab and chassis with a Super Products Supersucker, industrial vacuum loader. Stock# 5064C **www.vacuumsalesinc.com (888)VAC-UNIT (822-8648) (PBM)**

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

### WANTED

Wanting to buy 3500-3800 gallon stainless steel vacuum tank in GOOD+ condition. 724-496-3377 (P12)

# Pumper

SUBMIT YOUR CLASSIFIED AD ONLINE at

www.pumper.com

**Pumper CLASSIFIEDS WORK!**

# Pumper

AVERAGE MONTHLY CIRCULATION REACHES **20,000+ READERS!**

# We don't believe in wasting words.

## We thought we'd share them with you instead. Introducing the WWETT Making Waves Podcast.

### Industry thought leaders delivering real solutions.

Making Waves is a fresh audio experience that gives wastewater and environmental service professionals a glimpse into the latest news, insights and the real people who are making waves in the industry. Plus, listen to the stories and behind-the-scenes secrets about how WWETT comes together.

Listen where you get your podcasts or visit [WWETTshow.com](http://WWETTshow.com)



# GET THE PUMPER IN YOUR LIFE THE BEST GIFT

WE'VE GOT **STOCK**  
ON THE GROUND



Whether you're looking for a custom build,  
or stock, we've got it all!  
Call our team today to learn more!



**IMPERIAL  
INDUSTRIES INC**

1-800-558-2945 | [salesinfo@imperialind.com](mailto:salesinfo@imperialind.com)  
[www.imperialind.com](http://www.imperialind.com) | [septictruckcenter.com](http://septictruckcenter.com)



# PRESVAC SYSTEMS

YOUR SINGLE SOURCE FOR MOBILE VACUUM SYSTEMS



## POWERVAC

- > 3250 US Gal. Carbon Steel Tank
- > 5300 CFM Blower
- > 8" Loading Boom
- > 10 GPM @ 4000 PSI Pressure Pump
- > PV750 Pressure Off Load Pump



## POWERVAC MINI

- > Two Compartment Aluminum Tank
- > 860 CFM Blower
- > 4" Loading Boom
- > 4200 USG Waste / 300 USG Water
- > 10 GPM @ 3000 Pressure Pump

Quality... is our Trademark

**Established 1972**



4131 Morris Drive  
Burlington, Ontario, Canada L7L 5L5  
Fax: 905-681-0411

Nationwide Sales & Service

**800-387-7763 | 905-637-2353 | [www.presvac.com](http://www.presvac.com)**