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September 2010

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A MATTER OF CHOICE

Trenchless methods aid lateral repairs in South Williamsport, Pa.

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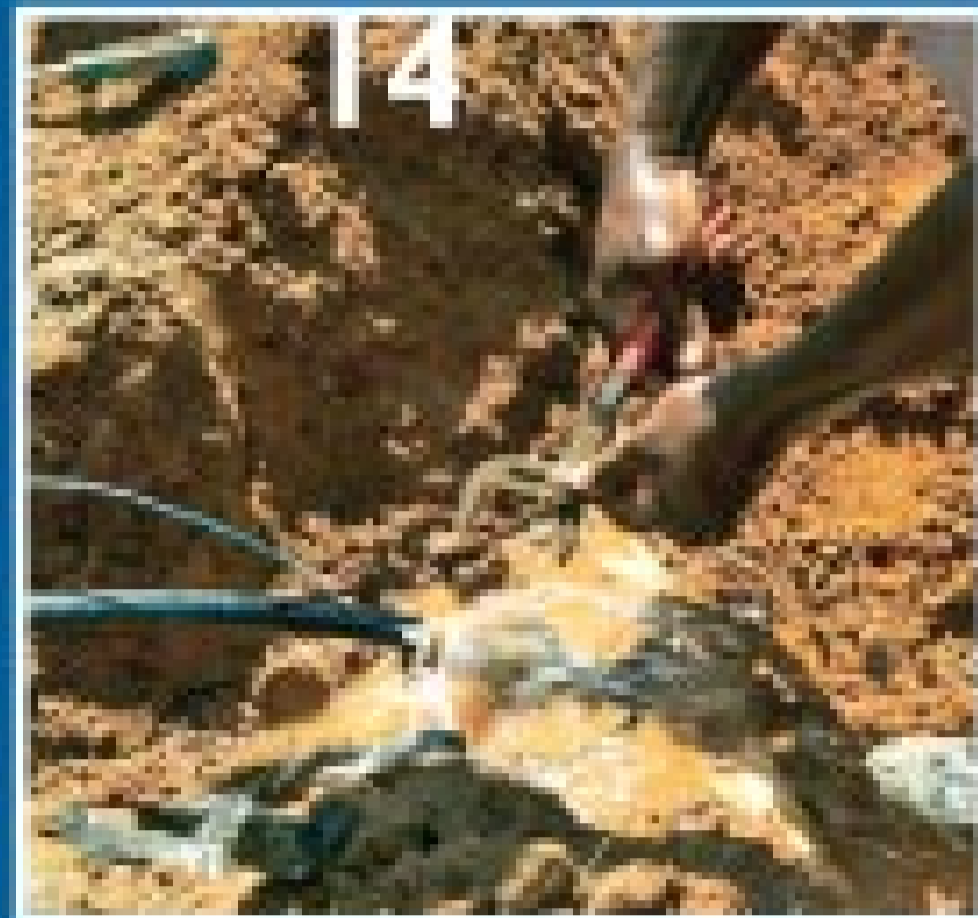
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*When compared to Vactor 2100 model. Source: Federal Signal engineering department. Fuel savings assumptions: 3 gallons/hour saved in combination mode (4" orifice at vacuum, 80 gpm @ 2500 psi), 1,500 hours per year at \$3.00/gallon.

INSIDE:

ANNUAL BUYER'S GUIDE /
MANHOLES AND CATCH BASINS



COVER:

Residents of South Williamsport, Pa., can choose between conventional and trenchless methods of repair of leaky laterals. Here, Buck Dugan of Pine Mountain Excavating guides the PD-33 30-ton pipe bursting unit from Pow-R Mole in a pit outside a home. (Photography by Mark Nance)



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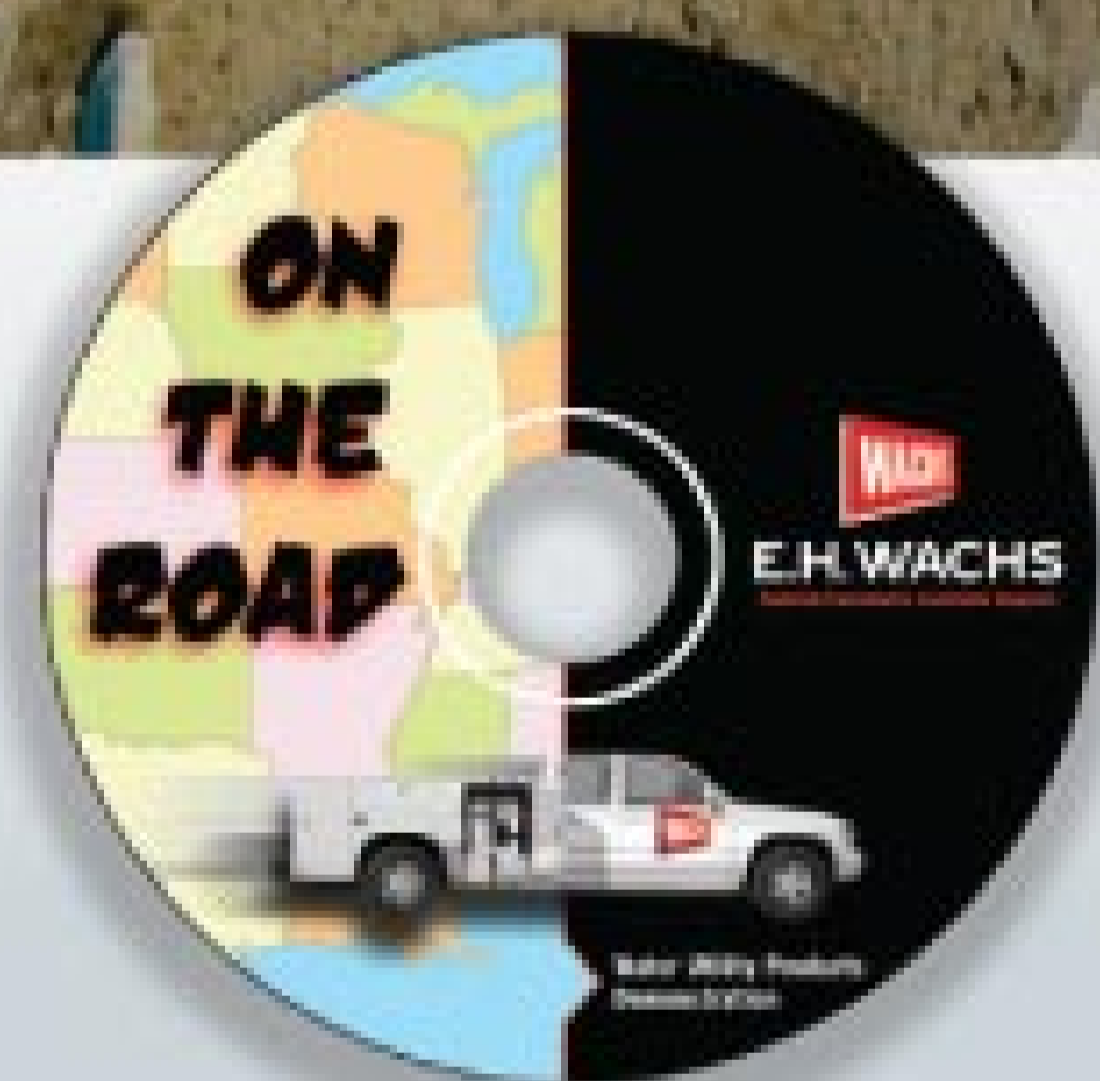
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TALK THEM UP

Infrastructure maintenance people are some of the most important and most undervalued professionals in the world. Here's an invitation to recognize them.

No one likes a braggart. Maybe that's why so few utility managers respond to our invitations to recognize their people. Because they think that would be bragging.

That's right in character: Infrastructure professionals typically are unassuming people and (a bit paradoxically) proud to be so. "I do my job, I do it well. That's enough. My peers notice. If no one else does, so be it. Or maybe so much the better."

And that's fine — except that one thing the profession badly needs is recognition. Caring for buried infrastructure takes money, and more

We know for sure, because people have told us, that crew members who see themselves on these pages show up for work the next day with a little extra spring in their step.

of it than ever as pipes continue to age and as regulatory agencies get tougher.

Where does the money come from? The public. And in these times of fiscal austerity, it's pretty hard to get people to part with money unless they see the value and necessity. How

supportive will community members be if they never stop to think about buried assets, and think of inspection, cleaning and maintenance people just as guys who wear dirty jeans to work?

Heads held high

One can argue that recognition of the profession starts with recognition for its people. That's one of this magazine's reasons for being. Yes, we try to share best practices, publicize new and promising technologies, encourage professional growth and excellence, and deliver news about the industry.

But we also strive to celebrate and elevate the people who make water and sewer systems work. We know for sure, because people have told us, that crew members who see themselves on these pages show up for work the next day with a little extra spring in their step. That's true whether they appear with their team in a community profile, or simply receive a mention in the Worth Noting column.

From there, it's easy to imagine that someone carrying a brighter attitude around the workplace also walks a little taller around town and maybe talks a little more freely about what he or she does for a living. That's part of ambassadorship, and it can only help the industry.

Who are your heroes?

So I wonder: Where are all the calls and e-mails from managers and supervisors, telling



FROM THE EDITOR

Ted J. Rulseh

us about the great people on their teams? Where are the notes from state and regional associations telling us about the latest award winners?

We'd love to see our Worth Noting column fill up every month with news of awards, certifications, service anniversaries and other accomplishments. Here, the job falls to the people in leadership positions. Very few in the ranks of operators are going to talk to us about themselves. They don't want to blow their own horn. But there's nothing wrong with having their superiors blow it for them.

We do run an occasional column, called "Unsung Heroes," that's designed to call attention to outstanding people in the profession. Watch future issues for a few more examples.

Celebrate the best

At the risk of seeming to blow our horn, I know that people in the field are generally happy with *MSW* magazine. We receive a lot of feedback in that direction. We're always looking for ways to help the magazine serve you better.

One of the ways you can help us make it better is to tell us about the unsung heroes in your organization. Surely they have ideas that we can share in the interest of helping others in the industry become more effective professionals.

So as you read this issue of the magazine, consider asking yourself: Who on my team really stands out and has valuable insights and information to share? If you feel your whole team fits that description, tell us about that, as well.

I look forward to hearing from you. Send me a note to editor@mswmag.com and I promise to respond. Let's work together to recognize the people who make water and sewer systems tick, keep our municipal services reliable, and keep our water clean. By doing so, we'll help pull the industry up in the eyes of the people who pay the bills. ♦

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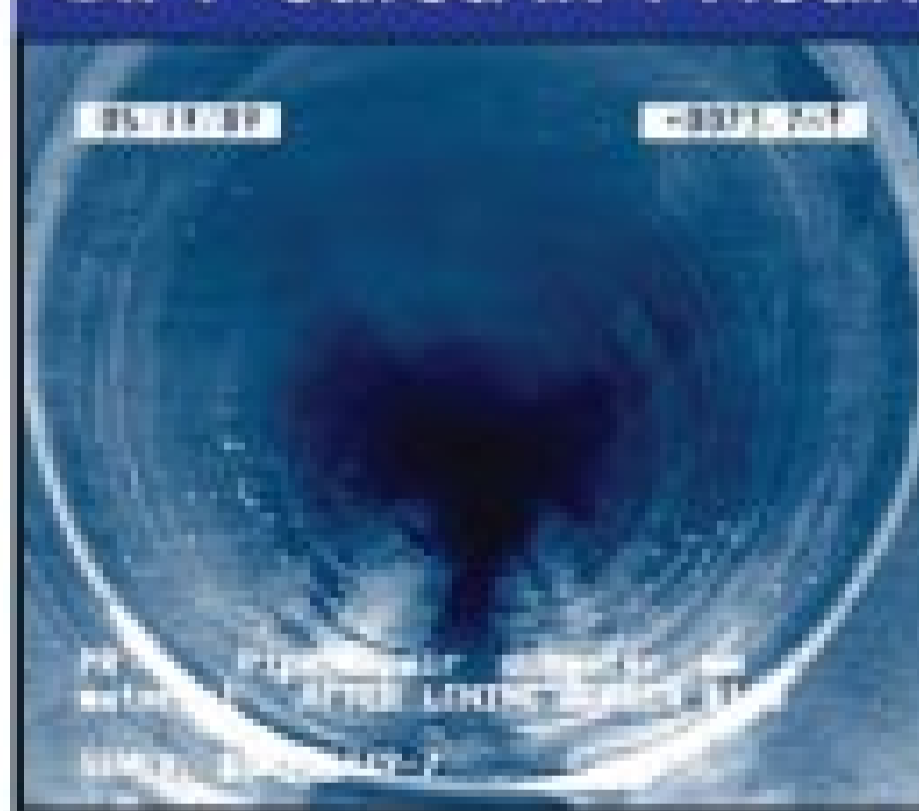


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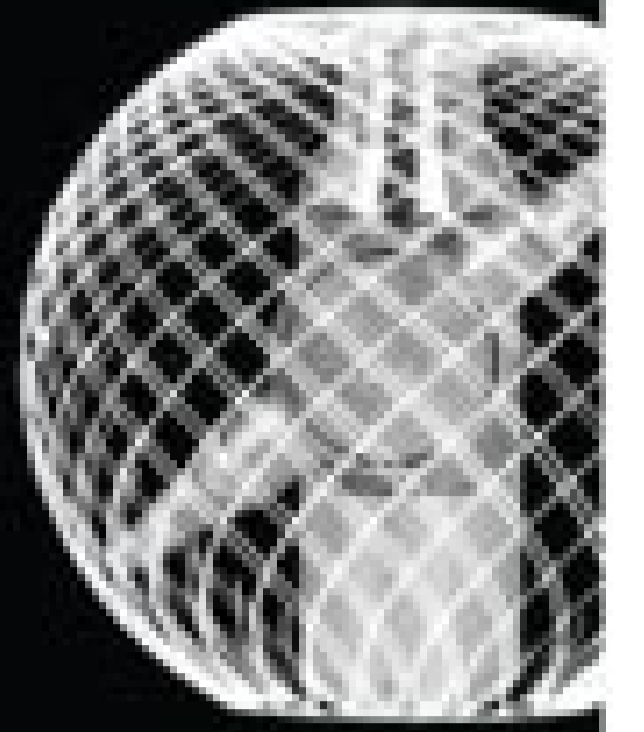
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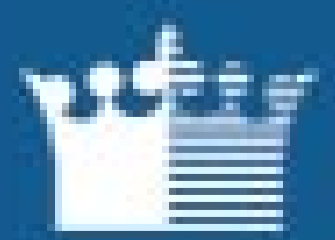
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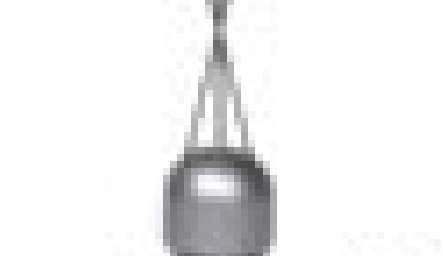
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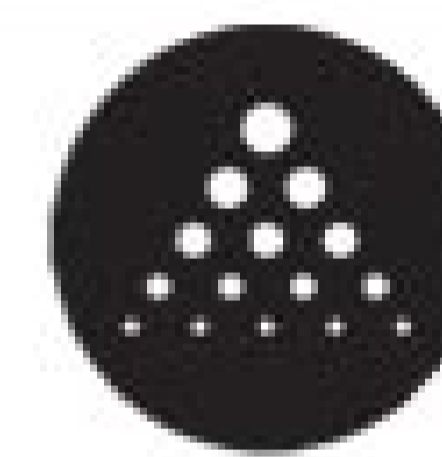
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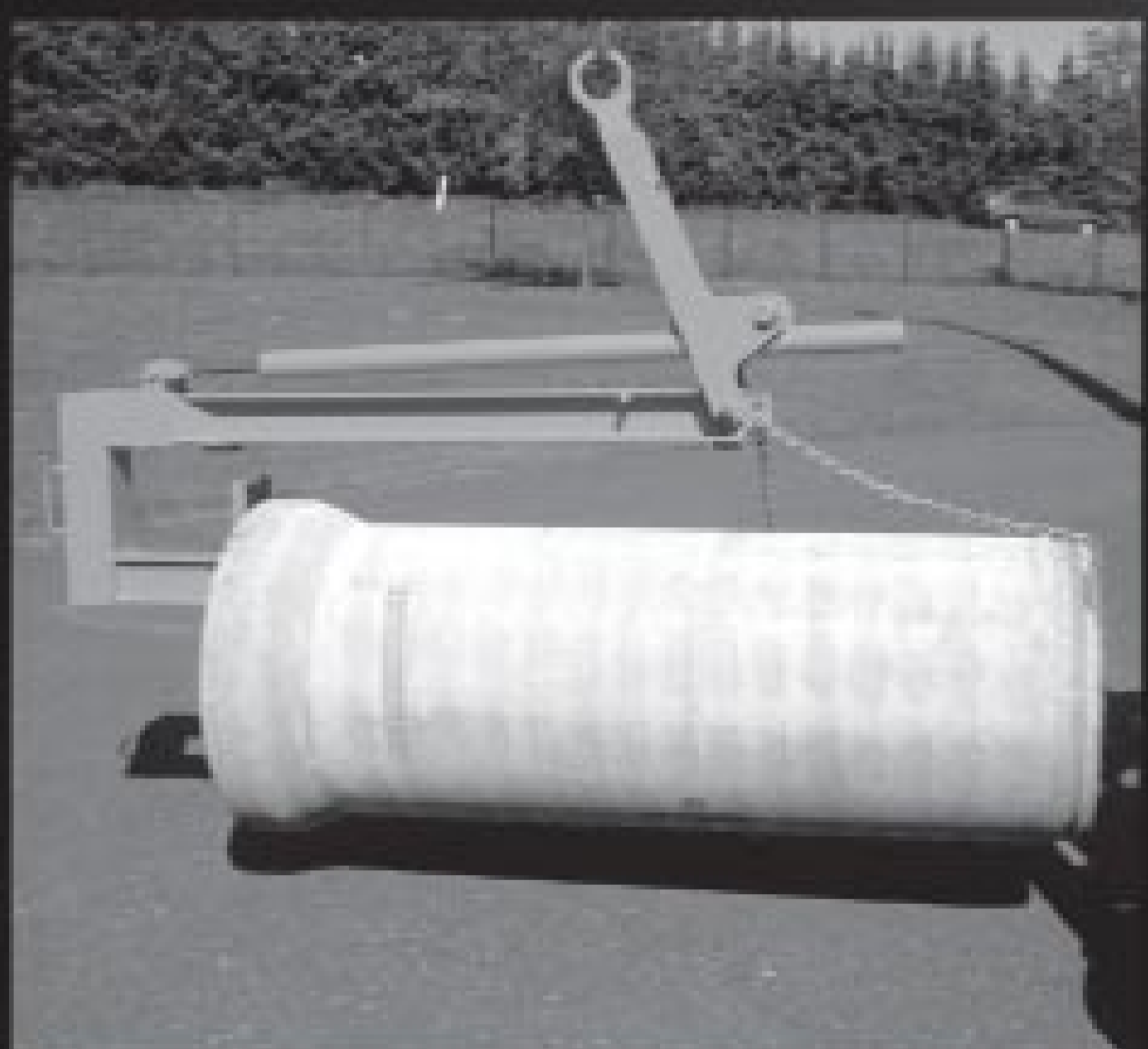
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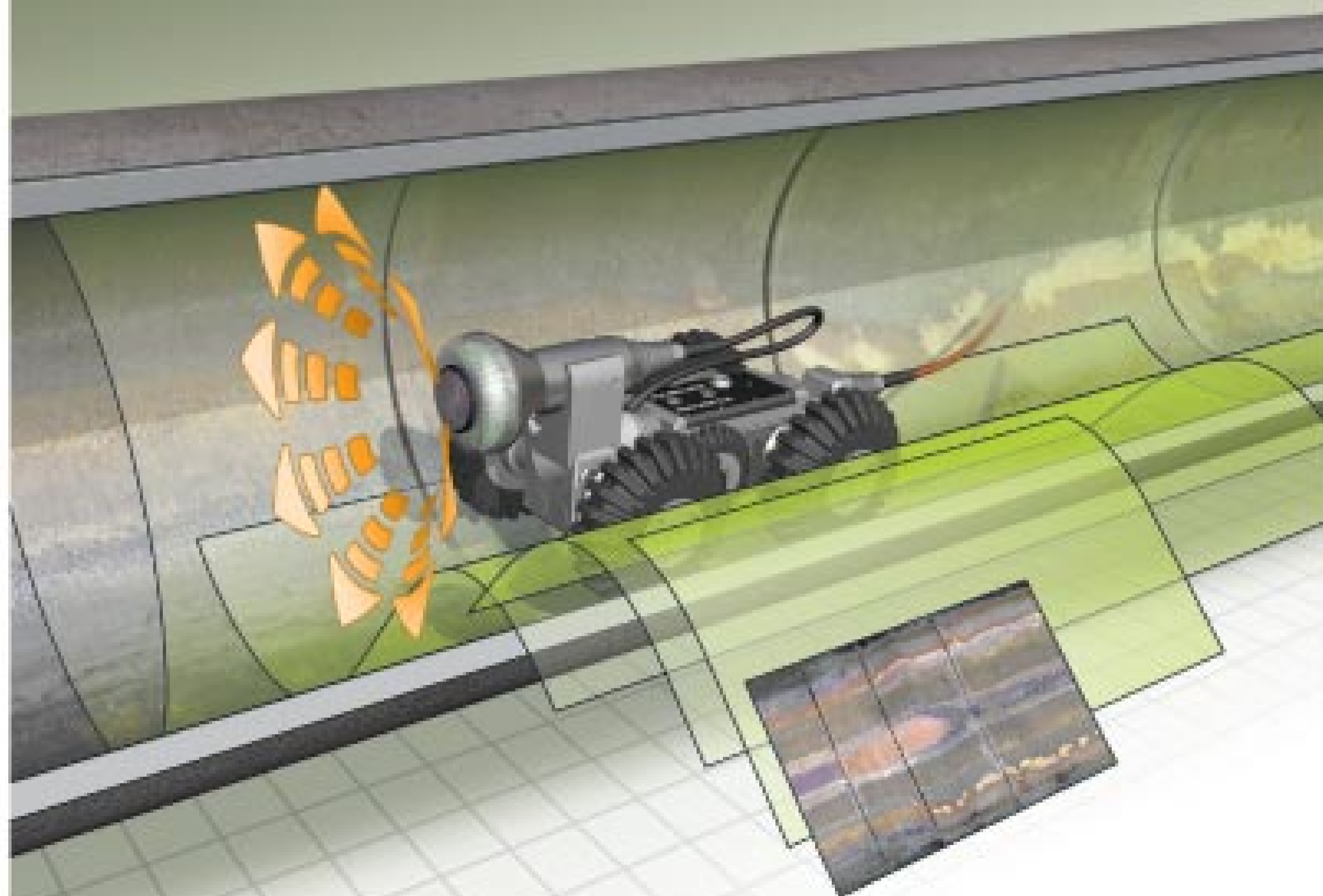
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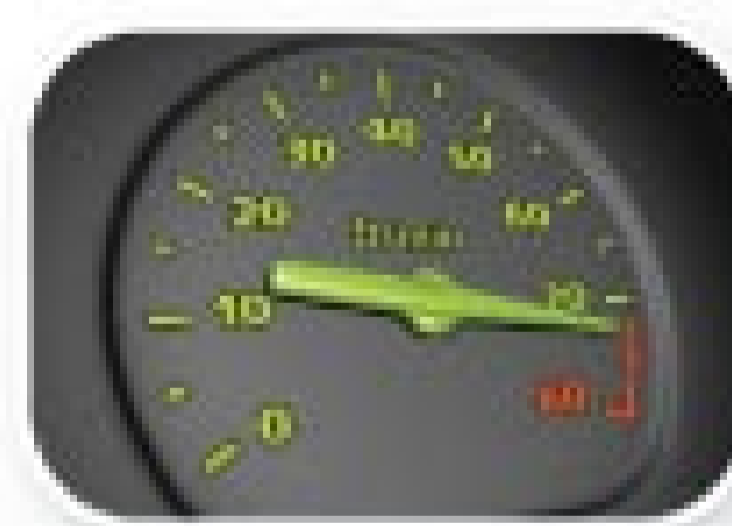
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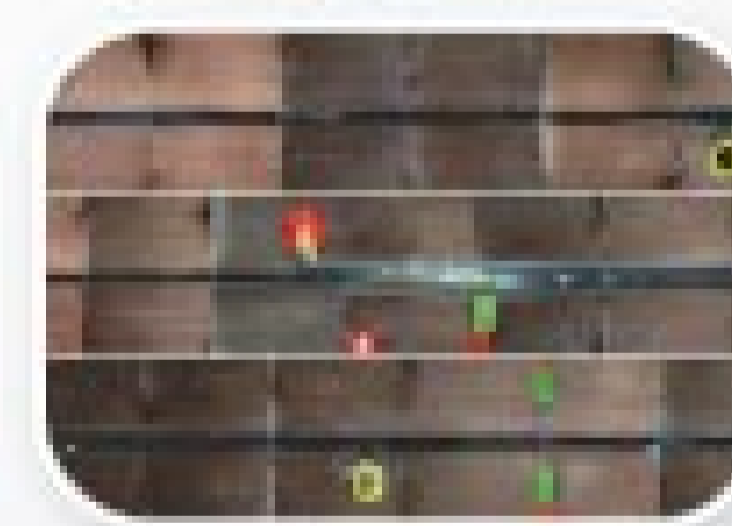
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SOUTHERN KNIGHTS

A nine-month turnaround of an Alabama county's water system combines main inspection, leak repair and a tough-but-fair approach to billing

By Peter Kenter

Three years ago, the water system of Wilcox County, Ala., was hemorrhaging both water and money. As much as half the water was being lost through main leaks, and an ineffective billing system was costing much-needed operating revenue.

A partnership with water and wastewater service provider ClearWater Solutions (CWS) that began in 2008 saw the water system turning a profit within nine months.

The area has been economically challenged, with high unemployment. Forward-thinking county

commissioners identified the major impediments to development as structural, not endemic.

"One of our goals for the county was to get control of our infrastructure," says John Matthews, a county commissioner. "We were looking at road improvements, our solid waste collection system and our water system to put us on a more solid economic footing and attract investment to the area. The water system had been failing according to our previous audits and had a long history of not meeting specifications."

Paul Jackson, vice president of

CWS, based in Opelika, Ala., approached the county when a contract for operating the water system neared conclusion in 2008. The company had reported considerable success in turning around water systems in other counties in the Black Belt region, so called for its dark topsoil.

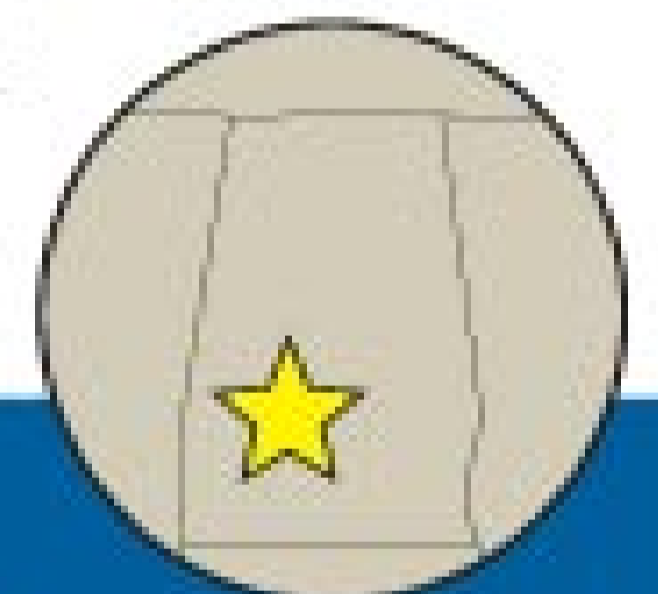
Years earlier, while working for another company, Jackson had managed an upgrade of the water system of Camden, the county seat and one of two communities in the county with its own water service.

"I was working for the town of Camden at the time," says Matthews.

"I had met Paul and knew from his work on the system that he stood for accountability. We wanted someone from outside the county to take an objective look at the Wilcox County system and do what needed to be done to put it on firm financial footing."

Long-term agreement

CWS and the county signed a five-year water system management contract worth \$497,500 annually in July 2008. CWS took responsibility for billing and metering as well as operations.



Wilcox County and ClearWater Solutions team members include, from left: Rick Ailiff, president of CWS; John Matthews and John Moton, county commissioners; Paul Jackson, vice president marketing for CWS; and Mark Curl, county commissioner. (Photography by Edward Badham)

PROFILE: Wilcox County, Ala., Water System

- INCORPORATED:** 1819
- WATER CUSTOMERS:** 6,600
- AREA SERVED:** 900 square miles
- INFRASTRUCTURE:** 350 miles of water mains
- ANNUAL BUDGET:** \$960,000
- WEB SITE:** www.wilcoxus.com

“We estimated system water loss at 40 to 60 percent, which represents not only lost water, but chemical treatment, wear and tear on pumps and electrical costs.”

Paul Jackson



Paul Jackson, ClearWater Solutions field team members Allen Fowler and Ed Moore (operating the Bobcat 331) and Rick Ailiff review a repair site.

The contract specified that CWS would not be paid until revenue increased and that the county would not raise water rates until CWS showed residents that the system had improved significantly.

Water quality wasn't a problem. The system is fed by four wells in deep aquifers that provide high-quality water, treated only by chlorination. The initial plan involved a confidence-building exercise in which CWS addressed the system's worst leaks.

"The condition of the system was one of the worst I'd seen," says Jackson. "We estimated water loss at 40 to 60 percent, which represents not only lost water, but chemical treatment, wear and tear on pumps and electrical costs." The size of the system presented a challenge: its 375 miles of service mains are spread over 900 square miles.

CWS crews began to investigate the condition of the water mains in an inspection and repair blitz, bringing in extra workers to create a rapid-response force. The mains were largely older Class 60 PVC pipe, a thinner-walled material installed largely during the late 1970s. CWS isolated valves during the night, under the guidance of Goodwyn, Mills & Cawood Inc., an engineering firm from Montgomery.

With severe water loss narrowed down to individual sections of main, the team pinpointed the leaks through visual inspection, in some cases indicated by property damage. "The pipe was generally buried four to six feet underground, so it made more sense to dig down with mini-excavators and backhoes to perform repairs, instead of using any trenchless repair system," says Jackson.

For severe leaks over a length of main, CWS removed full sections and replaced them with Class 200 or Class 250 PVC. Mains with isolated leaks were repaired using clamp systems supplied by The Ford Meter Box Co. Inc. or the Water Product Division of Mueller Co.

Major leaks repaired

"Within the first month of the contract, we fixed 42 water main leaks," says Jackson. "Water pressure immediately improved across the system. One of the wells that used to have pumps running 24

hours per day actually filled up for the first time. But this is a really large system. We were constantly testing the pressure in different areas to make sure we weren't deviating too much from ideal pressure."

Service connections were similarly in poor condition, with leaks on both the customer and county sides. While water main leaks were the priority, service connections on the county side were also repaired when leaks were discovered in the initial survey.

"We found a lot of illegal connections, and broken water meters that registered zero usage, so that the customers were never charged," says Jackson. "When the field technicians found a leak on the customer's side of the meter, they let

WATER FUELS THE ECONOMIC ENGINE

A well-run water system is a foundation of economic growth, says Paul Jackson, vice president of water service provider ClearWater Solutions. "We not only see ourselves as a water service management enterprise, but a company that can help spur economic development," he says.

Since CWS signed a water management contract with Wilcox County in 2008, real estate developers and tourists have been drawn to the area, particularly to the 500-mile shoreline of Lake Dannelly, a man-made lake along the Alabama River.

"Recently I had to stay overnight in the town of Camden during a fishing tournament," says Jackson. "I called county commissioner John Matthews and told him I had good news for him and bad news for me: Every room in the area was booked solid. Rehabilitating the county's water system is only part of what is turning Wilcox County around, but the region is now starting to demonstrate its potential."



Ed Moore repairs a water main.



the customer know as soon as possible. The customers were responsible for fixing their own service lines.”

CWS installed an RVS Utility Billing System by RVS Software to coordinate billing. “Some of the meters weren’t registered with the billing system, and some people hadn’t paid a dime for water in five to 10 years,” Jackson says. “If they were delinquent on their bill payments, they were still receiving water.

“I’ll tell you that it isn’t an easy thing to get people to pay for water when they’ve been receiving it for

“We went from the worst to one of the best. ClearWater Solutions has done a wonderful job turning the system around in a short time. The quality of service is there, and the accountability is there.”

John Matthews

free. As we replaced meters, we explained to the customers that when a new meter was installed, it would register all of the water going through it, and they would be responsible for any water that leaked through on their side.”

New meters installed

Unmetered homes or those with broken meters were outfitted with new units supplied by the Neptune Technology Group. “This company is one of the oldest in the business, and I’ve had good experience with them,” says Jackson.

State law allowed the county to recoup only two prior years of billing, so much of the outstanding debt had to be written off. Residents without meters were billed at the minimum charge of \$12.50 per month.

“Wilcox County is rural and is one of the poorest areas in the country,” says Jackson. “We didn’t want the residents to feel they were being taken advantage of. We wrote up a set of policies, procedures and regulations and told them up front that we could not deviate from them. The county made it clear that this wasn’t just CWS talking, but the county government as well — and that collecting the outstanding amount would benefit the entire system.”

After advertising heavily over a two-month period that the utility would negotiate repayment plans,

the county shut off water to 600 account-holders who failed to pay their bills. Most of those people subsequently came to the county water office to settle their bills or negotiate repayment plans.

With major improvements already evident in improved water pressure and system reliability, the county moved to increase water rates to a sustainable level. “We hadn’t passed a water rate increase in 15 years,” says Matthews. “It was something we knew we had to address, but something we felt could be handled better by an outside agency.”

The county set new rates only after the new water system gained customers’ confidence. Within three months, the minimum water charge was raised to about \$18 per month, still among the lowest in the state. “It’s the first time in my career that someone raised water rates and received zero complaints,” says Jackson.

Turning a profit

Within nine months, the water system was operating at a profit. Vendors who once refused to deliver products to the county were shipping again. With the system on firm footing, CWS began a system of routine maintenance of water mains and services.

“Each month, the meter readers report any leaks or repairs that need to be made,” says Jackson. “Before our contract, if customers called to report a leak, they were wasting their time. We now respond to those calls promptly. Our goal is to concentrate on areas that have the most problems first, and then we will address the other parts of the system.”

A little more than a year into the agreement, Wilcox County extended the contract with CWS to July 2017. As part of the bargain, CWS installed a SCADA system at no additional charge to help monitor water pressure, leaks and well levels. “The SCADA system has already saved us at least once, by

detecting a major leak long before it became a problem,” says Matthews.

The alarm bells sounded when a sensor in a well storage tank reported a sudden drop in water levels. “We got on top of that leak and fixed it long before anyone ran out of water,” says Jackson. “You have to be ready 24/7 for the next big water main break.”

At present, there is no additional inspection routine for water mains, because the SCADA system is locating problems that keep work crews busy. A certified operator inspects the county wells three times per week.

Adding customers

Future plans include an application to the United States Department of Agriculture by CWS, the county and its engineers to fund the expansion of the system to 300 new customers who have requested water service.

“New mains will have to be installed, and the engineers are gathering the information now on what’s required,” says Jackson. “We are also looking for funding to upgrade the water storage tanks and to replace the manual water meters with meters read by radio.” A fifth well now in the works will add more than enough capacity for the new customers while providing backup for existing clients.

In a recent customer survey CWS conducted for the county, water services received a 90 percent approval rating. “Our audit went without a hitch,” says Matthews. “We went from the worst to one of the best. ClearWater Solutions has done a wonderful job turning the system around in a short time. The quality of service is there, and the accountability is there.” ♦

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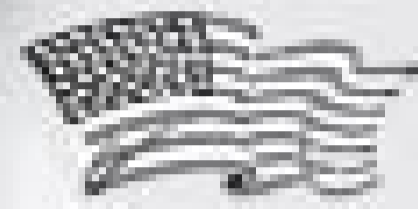
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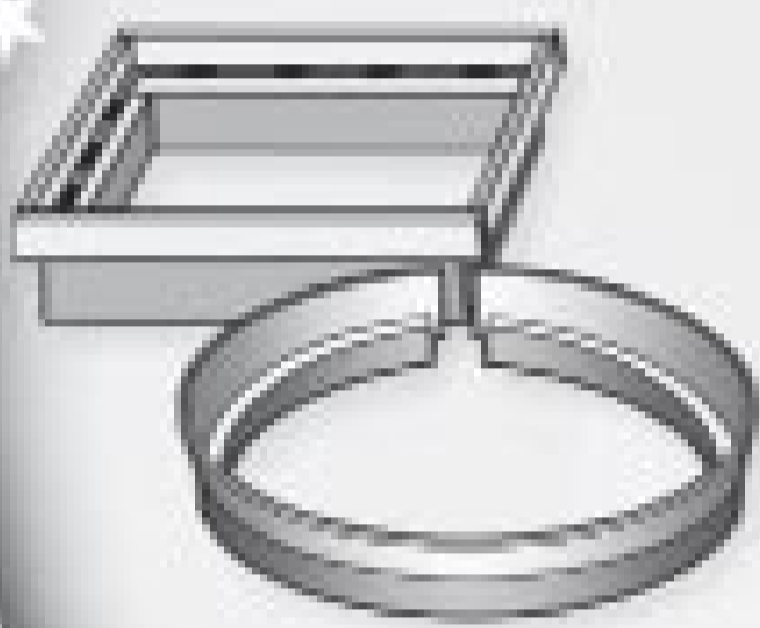
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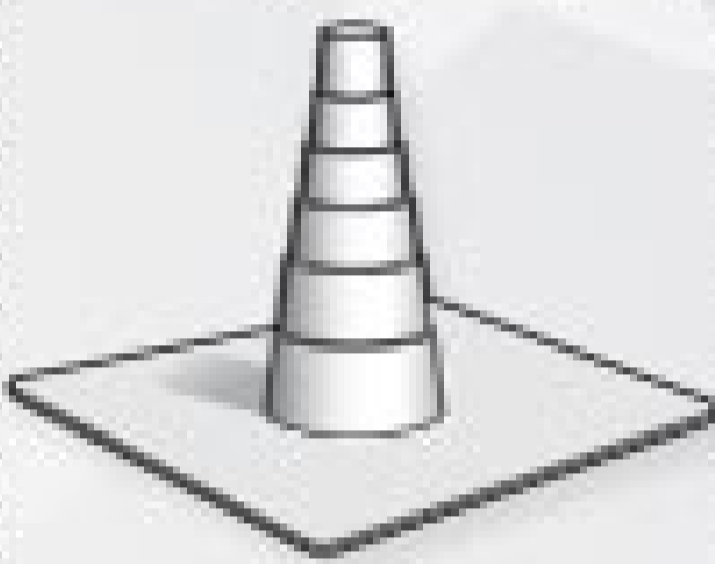
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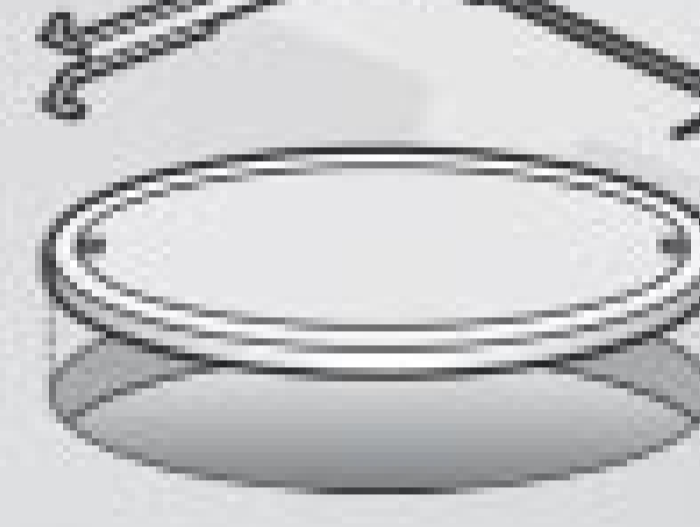
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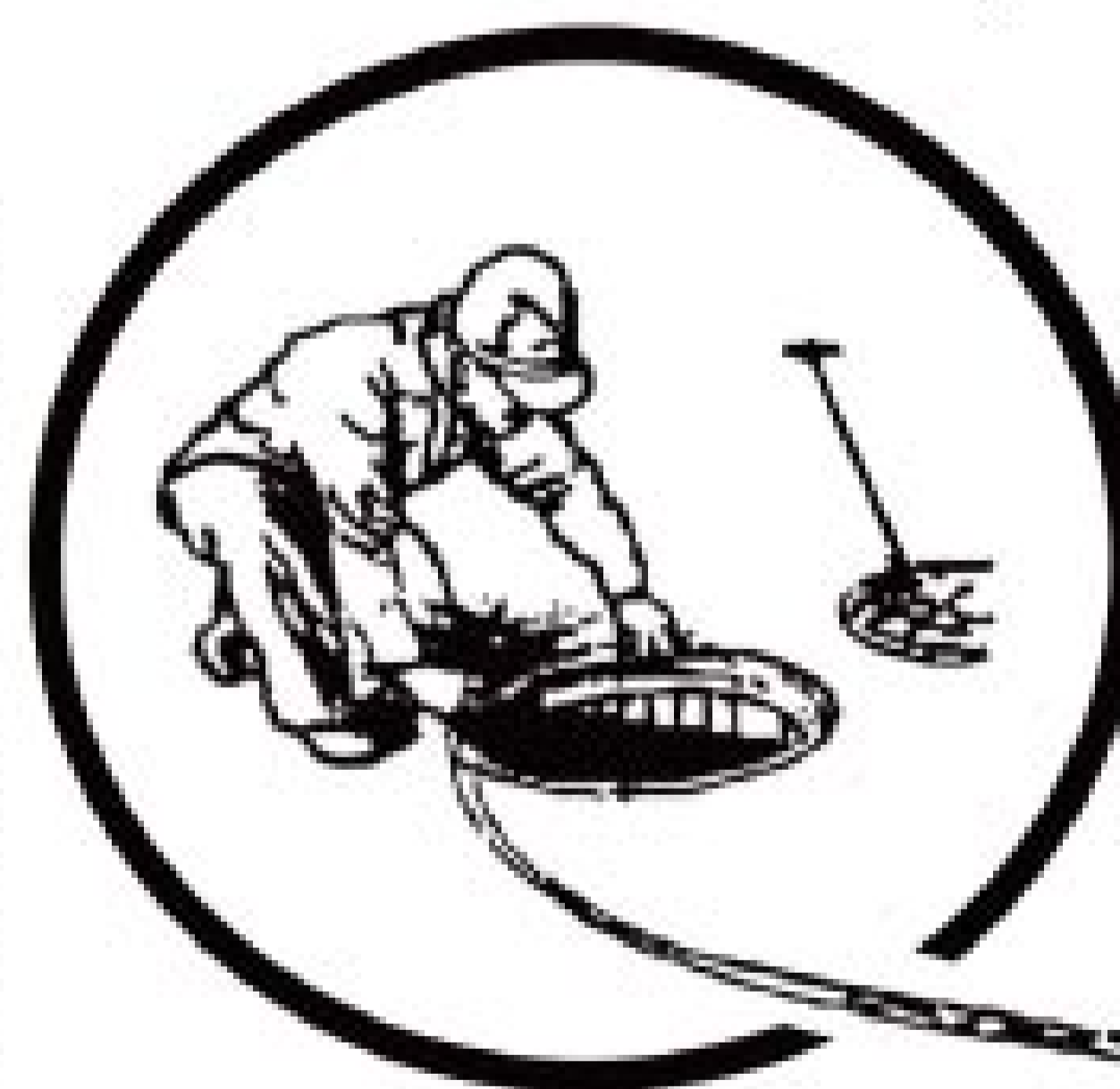
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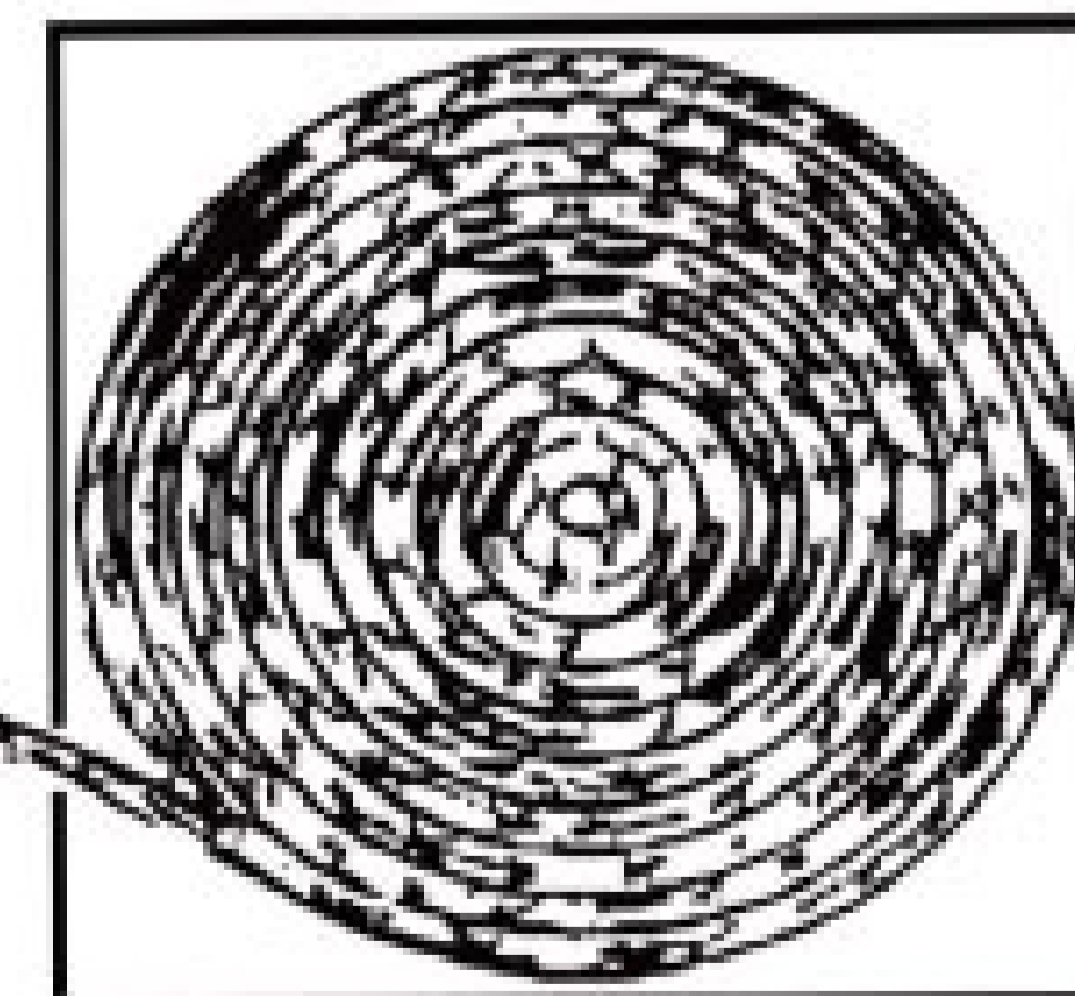
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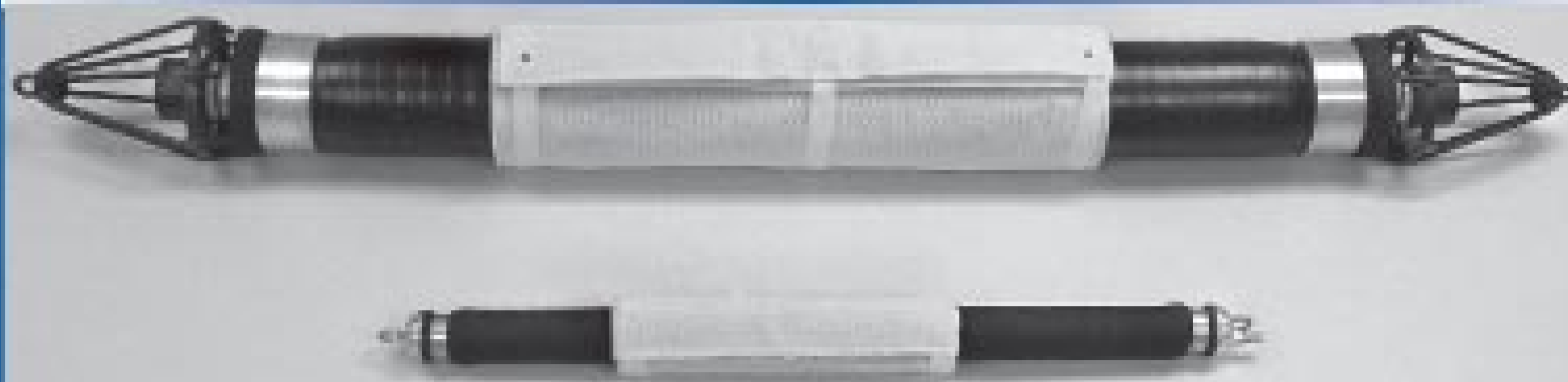
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A MATTER OF CHOICE

A lateral-repair program in South Williamsport, Pa., lets residents choose conventional or trenchless methods to replace leaking pipes

By Jim Force

Even the most successful door-to-door salesman would be envious of the sewer department in South Williamsport, Pa. The department is correcting a serious infiltration and inflow (I&I) problem by going house-to-house throughout the borough, examining laterals on nearly 3,000 private properties and mandating replacements where necessary.

And with several hundred properties to go, the borough (population 6,400) is already seeing significant reductions in flow — even more than engineering estimates. “The impact has been tremendous,” says sewer inspector Keith Anderson. “Our overflows are down substantially. We shot for the best and it went further than we hoped.”

The program uses a range of repair and rehabilitation methods,

including open-trench excavation, cured-in-place lining and pipe bursting.

Under orders

Under a Consent Order and Agreement with the state Department of Environmental Protection to repair its deteriorated collection and conveyance systems, South Williamsport began inspecting private building sewers in fall 2007.

The project identifies defective building sewers and flags illegal connections to the sanitary sewer system.

It is one of several programs included in the Consent Order designed to reduce overflows and improve wastewater treatment in the area, part of the Chesapeake Bay watershed. Once a homeowner's property has been inspected, those with sewer issues are notified by the borough and receive a list of approved repair contractors from which they can select.

“At first, I'd say most property owners selected open-trench methods,” says Anderson. “But over time, the lining and pipe bursting methods became more accepted, and the homeowners began to realize the advantages of not having their property dug up.”

The borough, the project

You guessed right: South Williamsport is the home of the annual Little League World Series. It's a big attraction, tripling the population



PROFILE:
Sewer Department,
Borough of South
Williamsport, Pa.

INCORPORATED:
1886

POPULATION:
6,400

AREA SERVED:
1.9 square miles

INFRASTRUCTURE:
30 miles of sanitary sewers,
2 pump stations

EMPLOYEES:
7

ANNUAL BUDGET:
\$6.4 million

WEB SITE:
www.southwilliamsport.net

Steven Moyle of Pine Mountain Excavating pulls a fish back through the old lateral at a resident's home to pull the pipe bursting cable through. The cable will then be connected to a bursting head and a 4-inch flexible pipe. (Photography by Mark Nance)



“At first, I’d say most property owners selected open-trench methods. But over time, the lining and pipe bursting methods became more accepted, and the homeowners began to realize the advantages of not having their property dug up.”

Keith Anderson

for a couple of weeks every August. The borough lies in Lycoming County, across the Susquehanna River from the City of Williamsport.

Sewage is collected in 30 miles of sanitary lines and two pump stations. Wastewater is pumped beneath the Susquehanna to Williamsport, which treats sewage from several small communities. The borough’s engineering firm, Larson Design Group (LDG) of Williamsport, and a number of sewer replacement contractors are working with the borough to remedy the leaking private sewer laterals.

“The main sources of I&I in-

cluded defective building sewers and illegal sump pumps and drain connections,” says Matthew Peleschak, project engineer with LDG. “Wet-weather flows sometimes peaked at 10 times the average flow of about 700,000 gpd, and the borough then had to divert untreated sewage directly to the river.”

The project began with a survey of property owners that was part of a comprehensive sewer system study. “We asked property owners what they had in their buildings, and that gave us a pretty good idea of where the issues were,” says Peleschak.

Workers from Pine Mountain Excavating guide a new 4-inch pipe as it is pulled through an old residential lateral.

The results also established the order of inspections. “We began the private inspection program by looking at about 1,000 properties that appeared to have problems, then inspected the others later,” Peleschak says.

Presentations first

Before the inspections began, LDG and the borough conducted several public meetings to explain the project and answer questions. At one meeting, all 12 of the sewer and excavation contractors who had qualified to work on the project presented their capabilities. “It was a pretty candid comparison of the various capabilities, advantages and costs,” recalls Anderson.

The meetings, and the earlier



The bursting head appears in the exit pit amid shards of the old terra cotta pipe.

survey, also enabled the borough to let property owners know the consequences of failing to replace defective lines. “There was resistance at first,” says Anderson. “People complained about costs. But when they realized the surcharge they would have to pay if they didn’t comply — three times the monthly sewer charge — we started to see more buy-in. Eventually, pretty much everybody got on board.”

SETTING A STRATEGY

The project to inspect all private sewer lines and repair defective ones is just part of an overall collection and conveyance system improvement program agreed to in a Consent Order and Agreement between the Borough of South Williamsport and the Pennsylvania Department of Environmental Protection.

In fact, several communities in the Williamsport area were ordered to make improvements to collection and conveyance systems to meet new Chesapeake Bay nutrient reduction strategies. In addition to the private sewer line project, the borough’s improvement program includes:

- Replacing 9,000 feet of sewer main and 60 manholes and lining 31,000 feet of sewer main and 500 vertical feet of manholes — about 25 percent of

the sewer system (completed for \$5 million).

- Replacing the Charles Street and Main Street pump stations and constructing a 3.4-million-gallon wet-weather holding tank (bids in December).
- Implementing a grease inspection program and requiring grease collection and removal systems at commercial sites.
- Developing guidelines for long-term maintenance of the rehabilitated sewer system.

Improvements to the wastewater treatment facilities are also required. Surrounding communities will have to pay their proportional share of those improvements.



South Williamsport sewer technician Terry Kaichner uses a Vivax vCamDigital to follow the camera through a sewer lateral. The camera allows technicians to inspect the lateral for leaks.



Steven Moyle (foreground) and co-workers of Pine Mountain Excavating guide a new 4-inch pipe on a bursting job. Pipe bursting and CIPP lining are trenchless options available to residents who must have their sewer laterals replaced or repaired.

Peleschak puts it this way: "The surcharge has been very effective."

How it works

Each property is inspected twice. First, a private firm, Chambers Development and Management Group of Avis, Pa., conducts a building inspection and identifies sewer connections. After that, a two-person crew from the borough's sewer department shoots a video of the private lateral line from the property to the street.

All the information is conveyed to LDG, where engineers review it, log it into an asset management program, and recommend the

appropriate follow-up. The follow-up consists of one of three types of letters the borough sends to the property owner:

- In compliance with the borough's sewer ordinance (lateral consists of HDPE, PVC or cast-iron pipe and does not leak).
- Situation will be monitored (different pipe material, but no leakage detected).
- Notice of violation (lateral line must be replaced at the owner's expense).

In the case of a violation, the homeowner also receives a list of all bonded and insured contractors approved to do the repair. The contractors can replace the lateral by pipe lining, pipe bursting, or excavation, and the property owner can choose the method and the contractor.

"I get a lot of questions from the property owners, especially about the methods of replacement," says Anderson. "I talk to them about their yards and landscaping and the impact and expense of the various methods."

Financial help

If the household income at a property is below a minimum, the owner may be eligible for a grant to cover 50 to 100 percent of the cost. The grants for low- to moderate-income people are available through a regional agency that administers federal community development block grant funds for a number of communities in central Pennsylvania.

Once a lateral has been repaired, the sewer department crew videos the line again, and LDG reviews the images to make sure the new line meets specifications. Where the property complies or is given monitoring status, property owners are notified that future inspections will be scheduled.

The project should be completed within the year. By mid-May, 84 percent of the borough's 2,994 private buildings had been completely inspected. "The Consent Order sets a deadline for completing all private inspection by the end of 2012," says Peleschak. "We're ahead of that schedule."

Making choices

Anderson plays no favorites among contractors, but he has enjoyed working with the main pipe bursting contractor, Pine Mountain Excavating of Avis, Pa.

DOING THE HARD WORK

The workhorse of the pipe bursting projects in South Williamsport is the PD-33 hydraulic trenchless pipe replacement system from Pow-R Mole Sales LLC.

The system uses hydraulic rams to pull a wire cable attached to a bursting head through the existing pipe. The bursting head, slightly larger than the pipe, bursts the pipe apart as it is pulled through. The new pipe is attached to the rear of the bursting head and is pulled through with it.

The PD-33 bursting heads are compact and versatile, available in 4- and 6-inch sizes. They burst clay, pitch fiber, cast-iron and plastic pipes. Three removable blades can be changed depending on the type of pipe, reducing the need for multiple bursting heads.

According to Dean Edwards of the Pine Mountain Excavating contracting firm, the PD-33 system has a pulling force of 30 tons, a 2-foot pulling stroke, a simple design with few moving parts, and minimal maintenance with only three grease points. A cart that locks into the rear frame allows the unit to be moved without being dismantled. "It can be hooked up to just about any auxiliary power source," he says.

"They're very professional, and they've done a good job," he says.

Dean Edwards, a partner in Pine Mountain, says the firm uses the PD-33 pipe bursting system supplied by Pow-R Mole Sales LLC. "When we're selected, we go out to the property, and using a Vivax locator, we can tell within six inches where the line comes out of the building, how deep it is, and

Russel Shemery of Pine Mountain Excavating keeps an eye on the Pow-R Mole PD-33 pipe bursting unit as it pulls the cable, bursting head, and new pipe through the old lateral.



whether or not there are any utilities in the path," Edwards says.

"We give an estimate to the property owner. And we camera the line. That allows us to dig our entry and exit holes in exactly the right places. Then we bring in the bursting equipment, starting at the cut-out at the main sewer. We remove all dirt, put in trench boxes for our safety, and feed cable

“We sort of started this process here. We’ve done over 2,000 buildings so far. Man, that’s a lot. Now, we’re sharing information with other communities.”

Keith Anderson

through the existing pipe. We can pull 12 feet per minute, and we have done up to 80 feet in 15 minutes. In some cases, we’ve burst as much as 200 feet.”

Edwards says his crews can complete eight to nine homes in four days. They usually save Fridays for yard cleanup. Anderson says Fridays also allow for any last-minute repairs that may have to be made on lateral replacements, avoiding overtime work on weekends.

Among lateral lining contractors is U.S. Sewer & Drain, which has installed more than 100 replacements in South Williamsport, according to Skip Weisner, production manager. The company uses a cured-in-place (CIPP) felt and epoxy product of its own design. “What sets us apart is that we hand dig a very small hole — an incision, really — where the size transition takes place in the line, and remove about three feet of pipe.

“Then we jet the terra cotta pipe and install our liner. It usually cures in two to five hours. Then we remove the pressure balloon, install a cleanout, and backfill the hole.” The company uses Schedule 40 PVC for in-ground fitting. “It’s been great working at South Williamsport,” he says. “Keith Anderson makes the task there very pleasurable.”

Still digging

Fox Hollow Construction LLC of Mill Hall, Pa., has replaced laterals at about 300 properties using the open-trench method, accord-

ing to owner Blair Strouse. “We dig and replace using SDR35 plastic gasketed pipe,” he says. “We think sometimes you get a better job with our method because you replace the whole pipe and can take out any dips or bends that may have been in the line.”

Strouse also feels his approach can save property owners a bit of cost compared to the trenchless methods. “We’ll be at this project for at least the rest of the year,” he says. “The people at South Williamsport have been real good to work with.”

Despite the expense and the effort over several years, Anderson believes his community has benefited greatly from the lateral and sewer repair projects. Flows to the treatment plant are down, bypassing is being reduced, and other communities are talking with South Williamsport about the methods the borough is using.

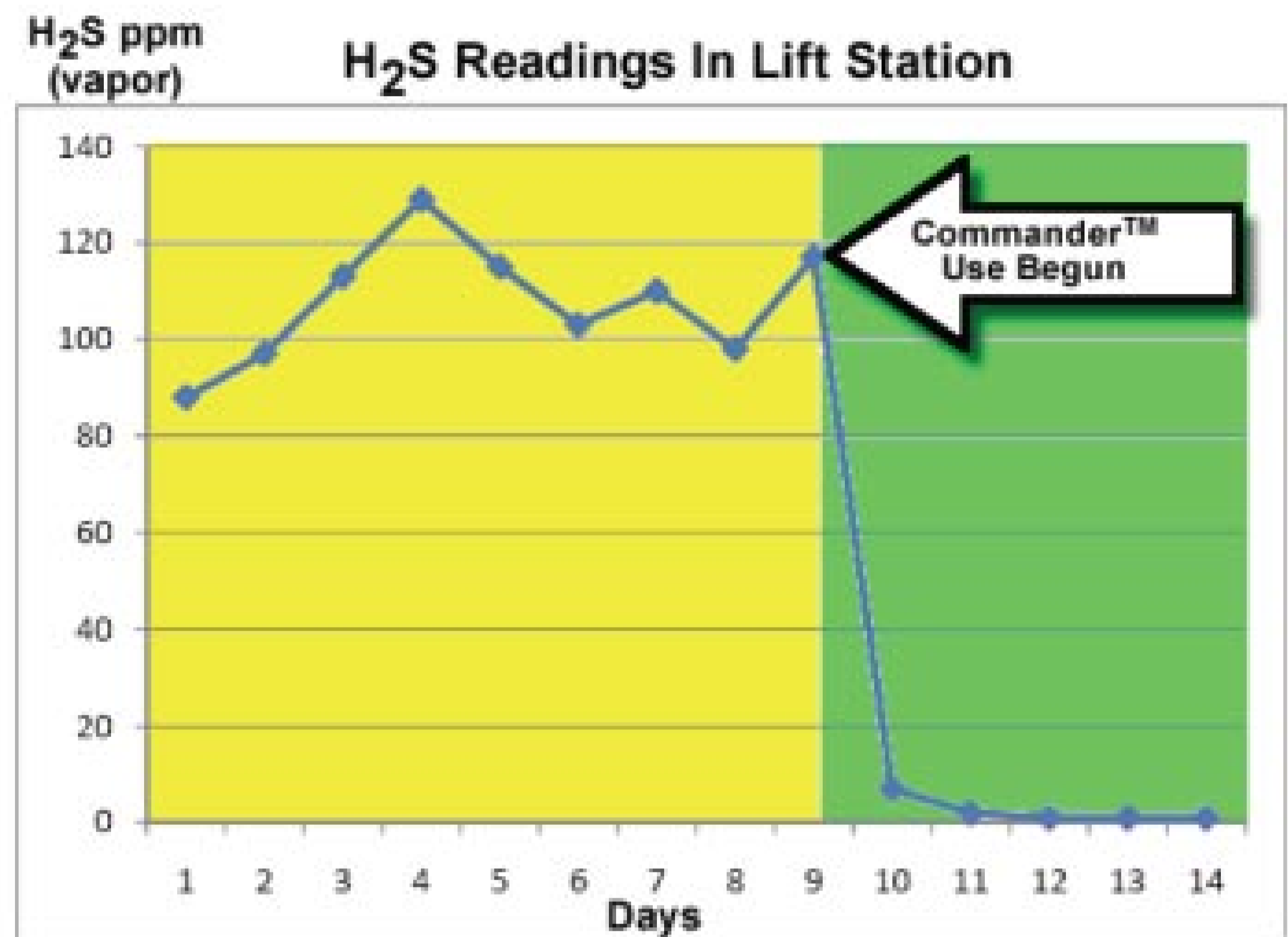
“We sort of started this process here,” Anderson says. “We’ve done over 2,000 buildings so far. Man, that’s a lot. Now, we’re sharing information with other communities.” ♦

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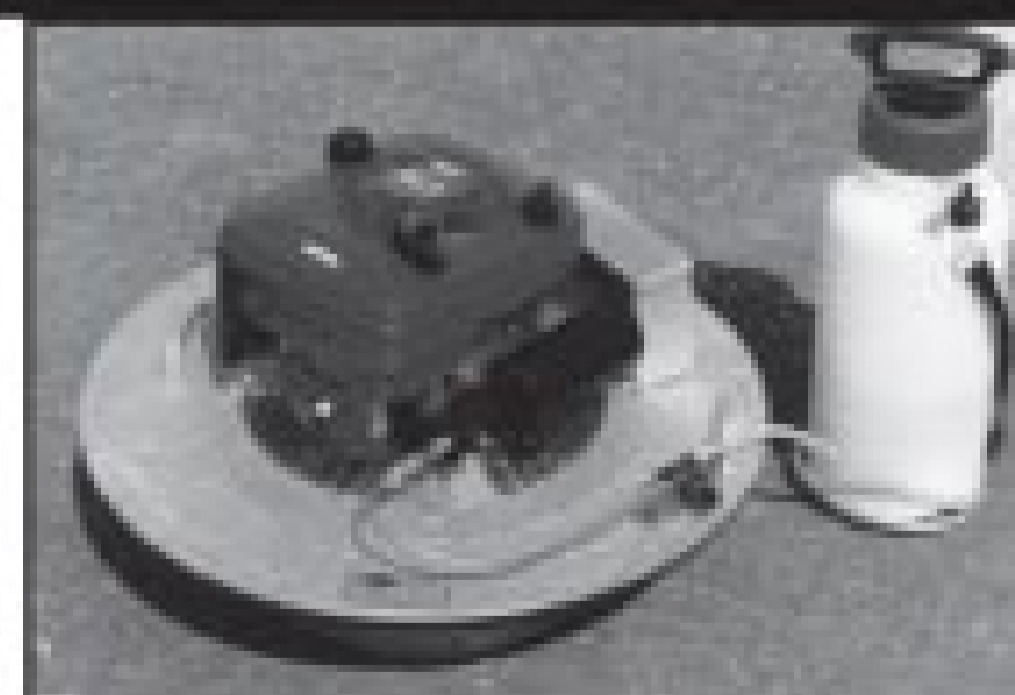
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An explosion-proof enclosure with cradle secures the monitoring device to the manhole wall. A small external antenna is mounted on the bracket to the right and exits the left side of the manhole. (Photos courtesy of Rodney Williams)

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Wireless sewer monitoring system

APPLICATION:
Prevents SSOs

BENEFITS:
Compatible with SCADA, portable, no recurring cost

USER:
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DESIGNED BY:
JEA, Jacksonville, Fla.

WEB SITE:
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EARLY WARNING

A real-time wireless system in manholes monitors sewer levels and helps prevent overflows in a northeast Florida city

By *Scottie Dayton*

Sanitary sewer overflows (SSO) in Jacksonville, Fla., were a problem for JEA, the municipal utilities provider.

The authority had invested in a SCADA system to control and monitor 1,240 lift stations. It also had paid a company to monitor manholes with known deficiencies and report them to a Web site, but the program was expensive and ineffective. JEA considered installing power and control circuits to monitor sewer levels in certain manholes, but digging up the roads was expensive and would cause traffic

congestion and delays.

In 2007, the authority asked its water and wastewater reliability specialist, Rodney Williams, to explore ways to monitor sewer levels at manholes, then transmit the information to the SCADA system. The remote transmitter Williams and JEA personnel developed prevented 100 percent of SSOs from happening at 17 monitored locations.

Compatible and portable

"We wanted to transmit a radio signal from within the manhole to the nearest lift station, thereby gain-

ing access to our network," says Williams. "Additionally, JEA wanted to monitor the transmitters for high level, battery strength and communication failure." The system also had to be portable, Division I, Class I compliant and have no recurring costs.

The team searched for transmitters powerful enough to send analog and digital signals through the ground and through steel manhole covers, yet able to run on batteries. "We went through many different scenarios and transmitters before selecting a WI/O 9-K

"The start of a backup trips a float, which triggers the signal. When we receive the alarm, we immediately send a vacuum truck to that location to remove the blockage. The beauty of the equipment is that once the infrastructure is repaired, crews can move the device to a new manhole with no recurring cost."

Rodney Williams



The WI-I/O 9-K transmitter with antenna and battery pack from Weidmuller.

transmitter with matching battery pack from Weidmuller," says Williams. "The WI-I/O 9-4 transceiver collects the data from each transmitter and forwards it via a wired connection to our SCADA application."

The included programming software made it simple for JEA to map the signals and control transmit schedules, thereby prolonging battery life. "Based on the system's power consumption, we could replace the standard AA alkaline batteries once a year," says Williams.

Boosting the signal

To protect all voltage, the team constructed an explosion-proof enclosure with cradle from 3/16-inch stainless steel. The cradle mounts in the manhole. A small external antenna on the enclosure boosts the signal past manhole covers. The addition of a Yagi directional antenna system at the lift stations made long-range transmissions possible.

"The start of a backup trips a float, which triggers the signal," says Williams. "When we receive the alarm, we immediately send a vacuum truck to that location to



Rodney Williams, water and wastewater reliability specialist for JEA, lowers a remote manhole monitoring transmitter. The device has helped prevent 100 percent of SSOs at 17 monitored locations.

remove the blockage. The beauty of the equipment is that once the infrastructure is repaired, crews can move the device to a new manhole with no recurring cost."

Based on the success of the 2009 pilot program, the authority budgeted for 15 more manhole monitoring devices, bringing the total to 32. "JEA is pleased with the success of the wireless manhole monitoring system and its ability to protect public health and the environment," says Williams. ♦

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Manhole Grouting



Leaking manhole



Curtain grouting with wand

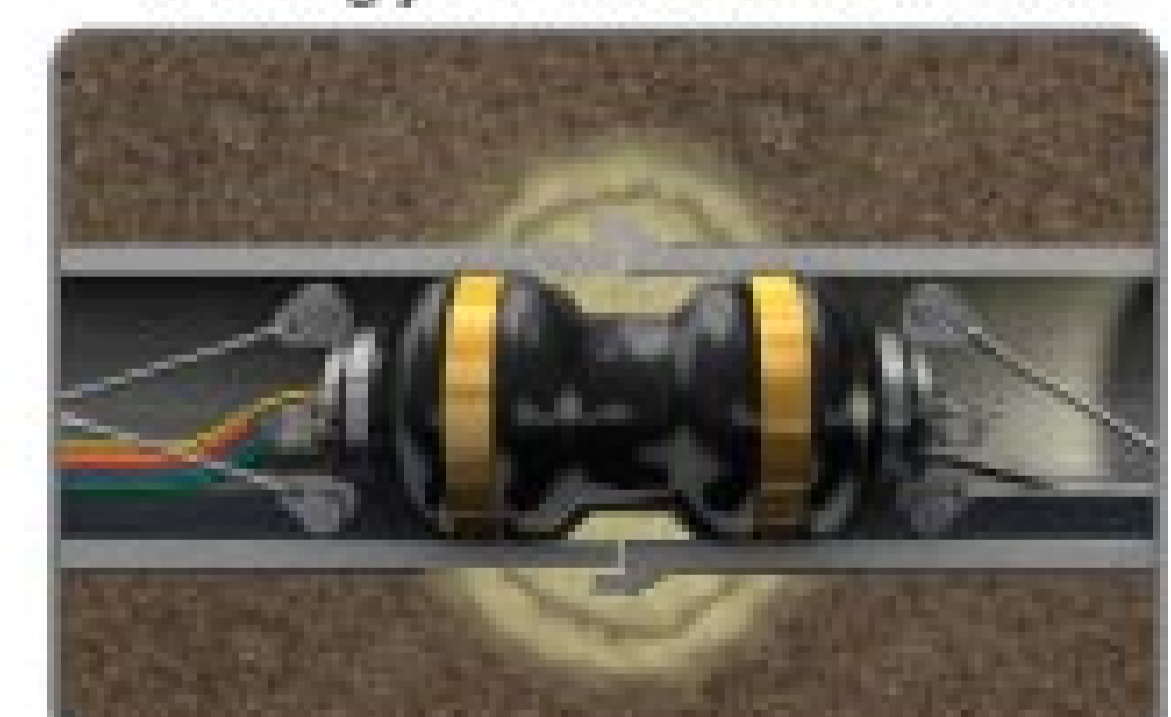


Grout curtain stops infiltration

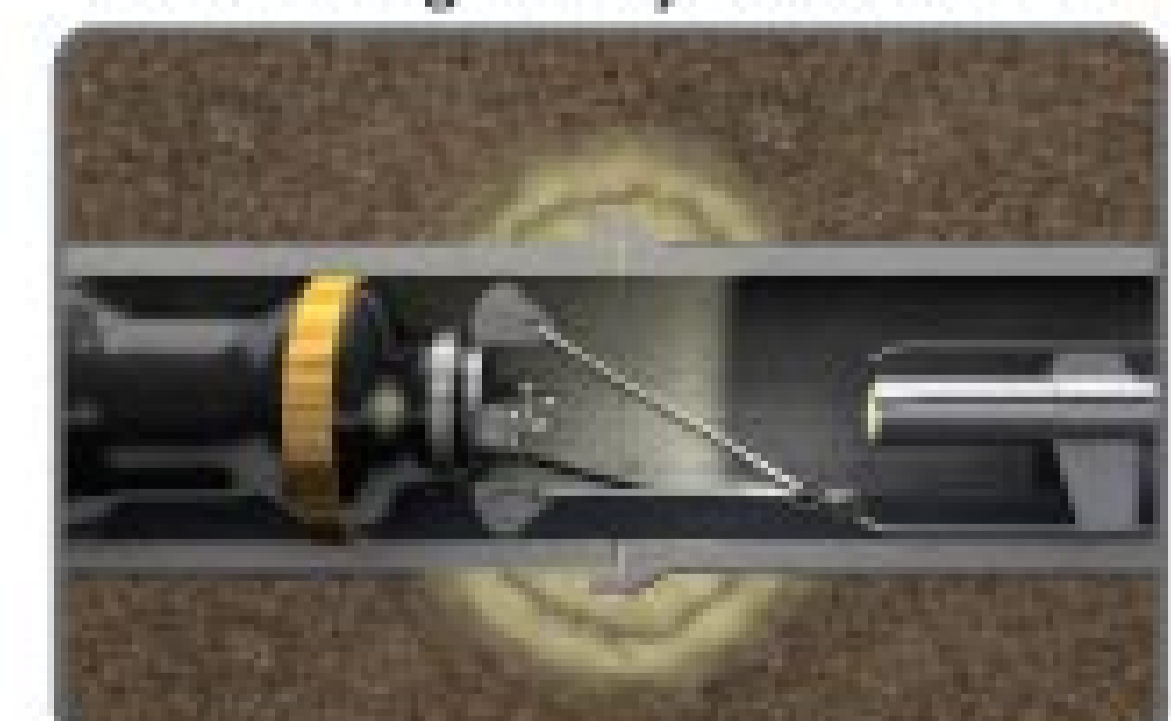
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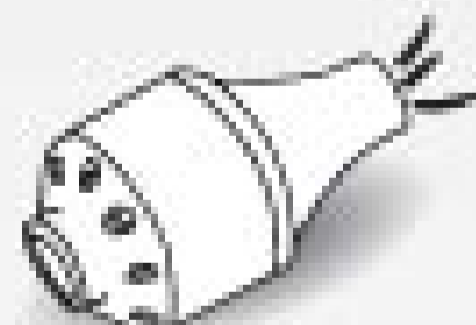


JETTERS & JET VACS



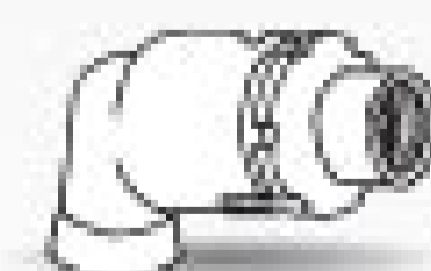
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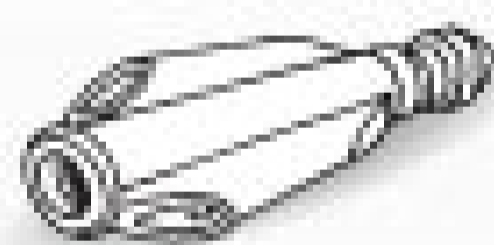
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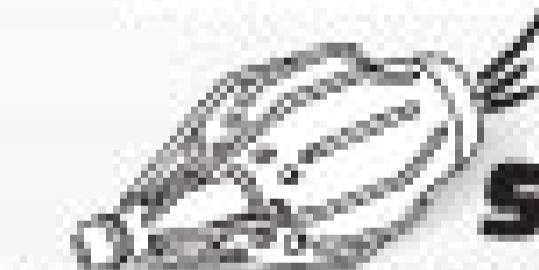
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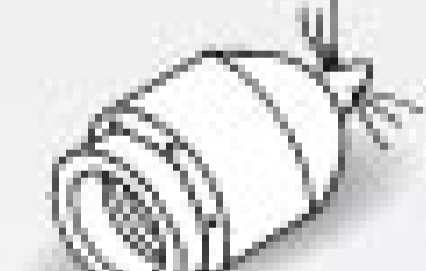
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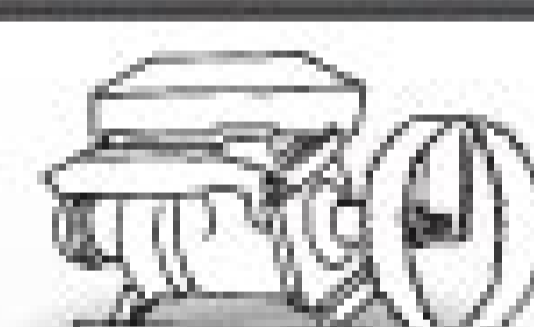
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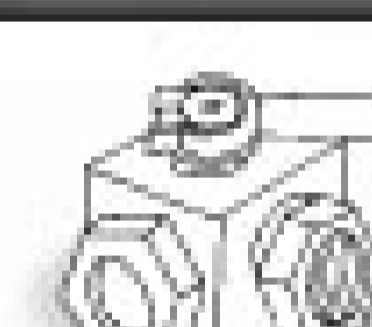
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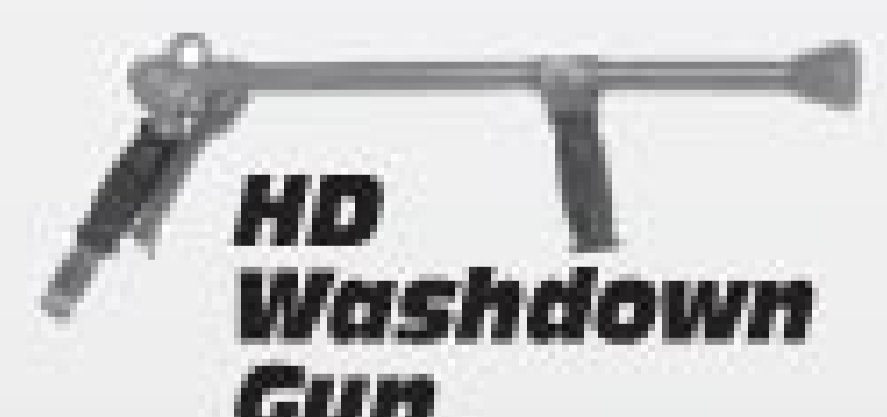
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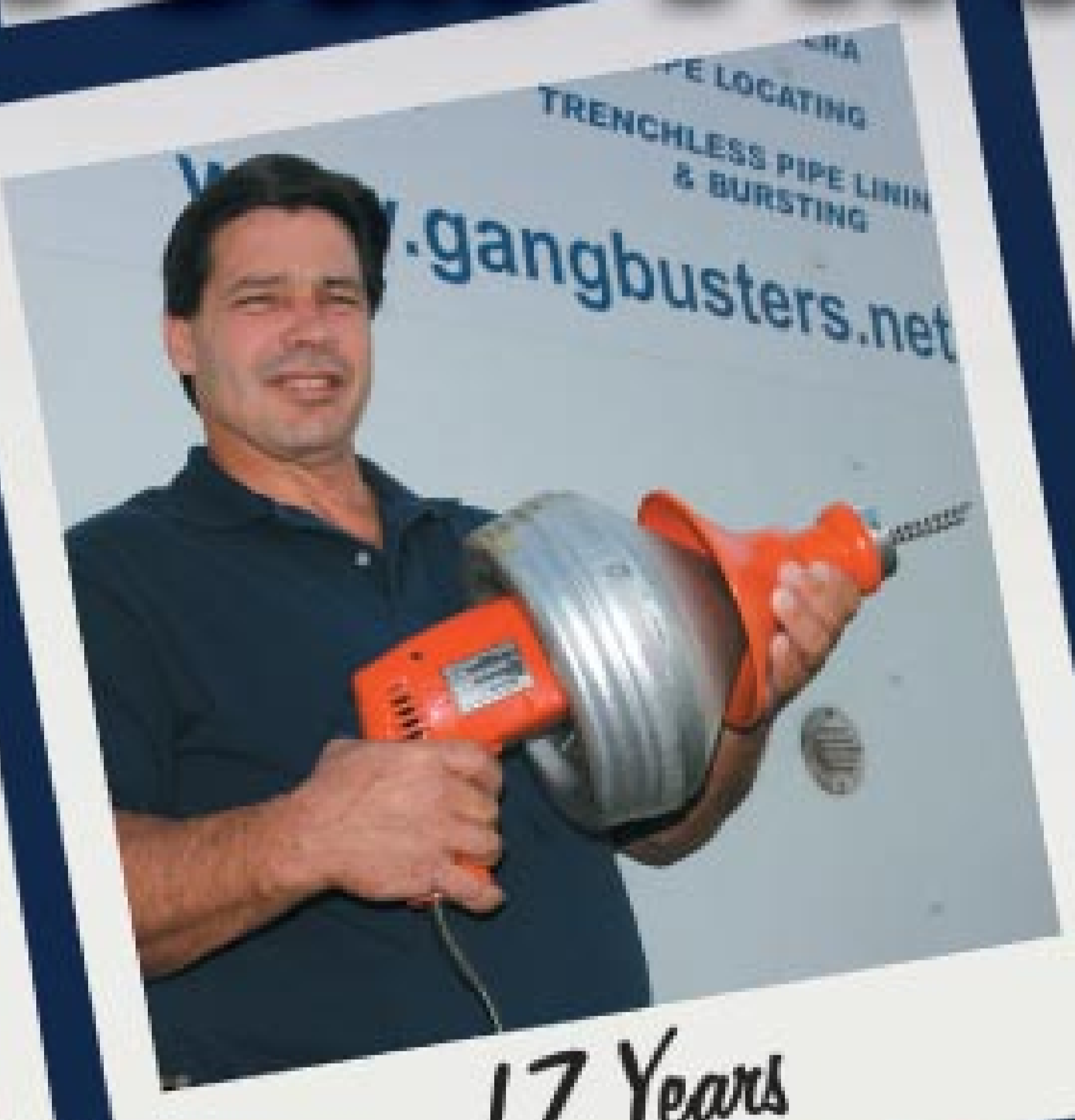


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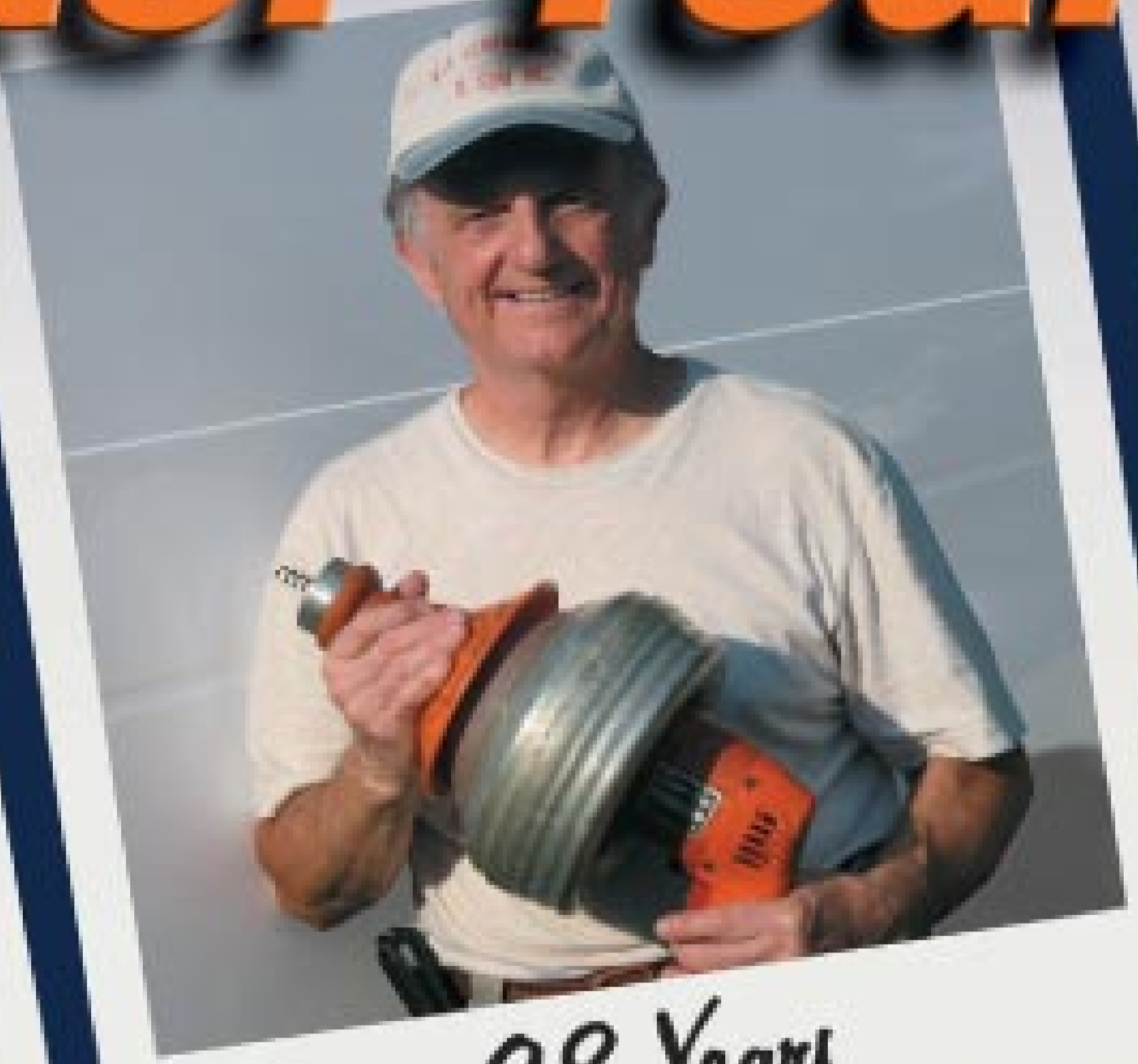
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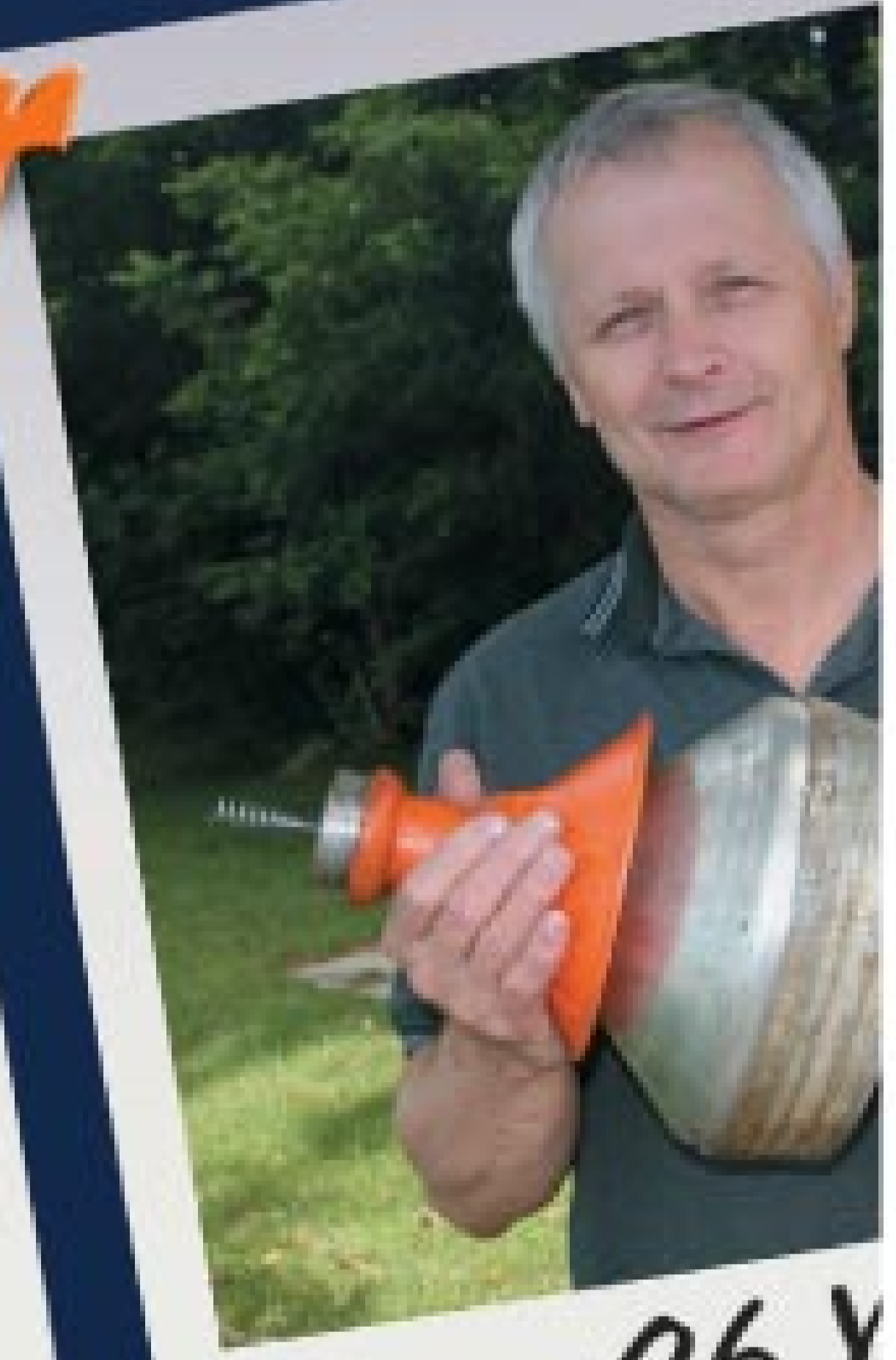
Year After Year



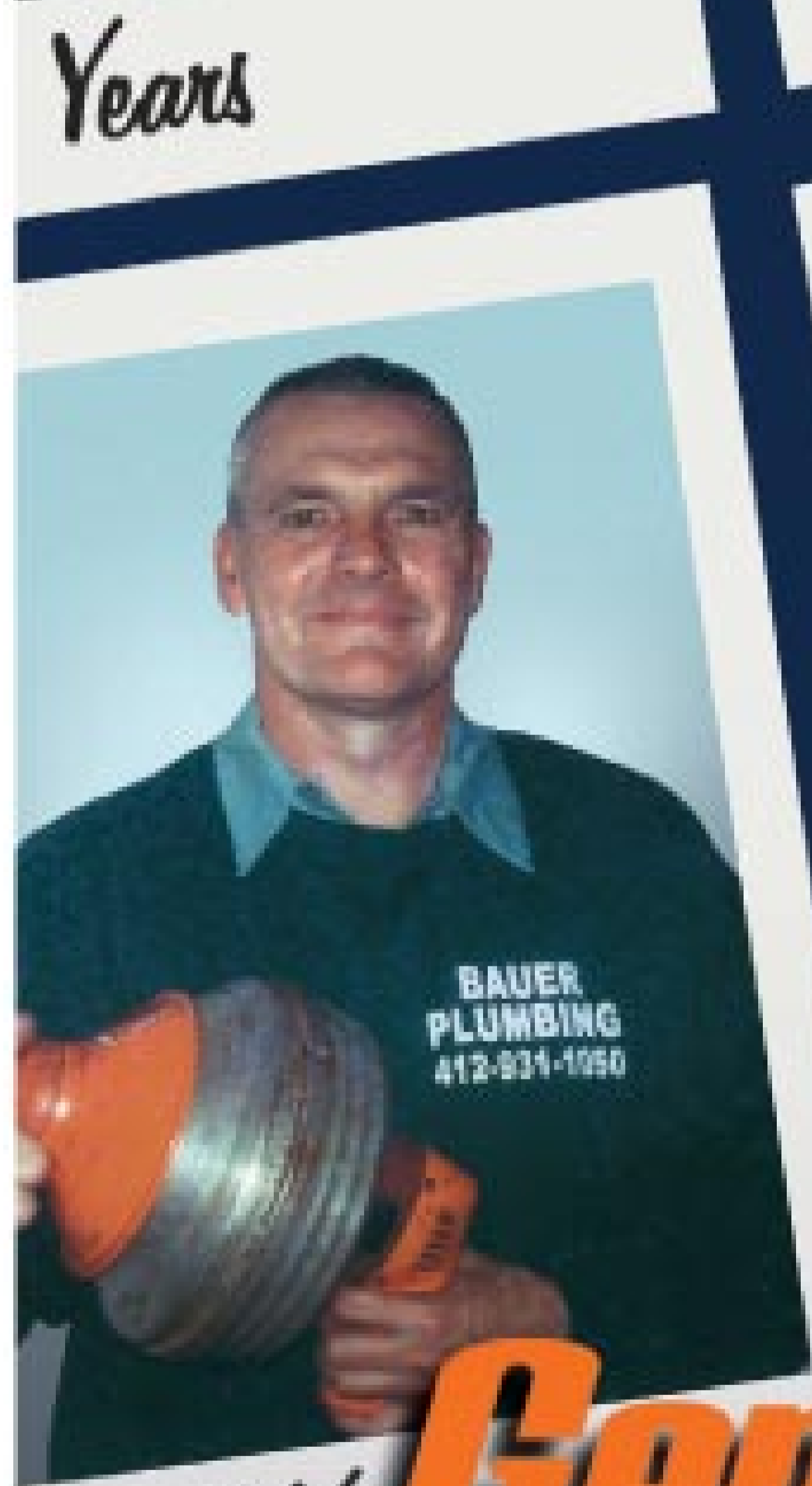
17 Years



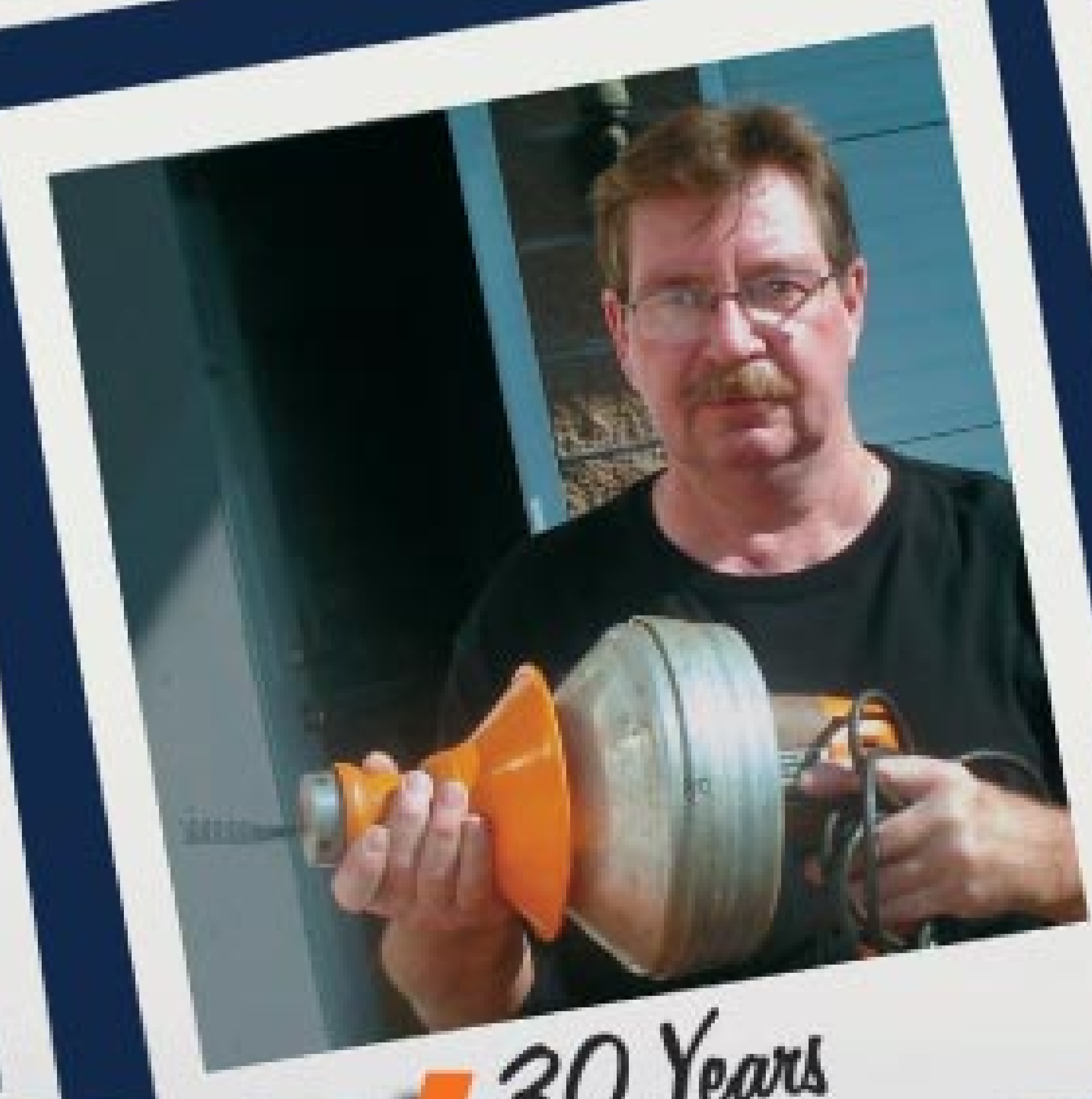
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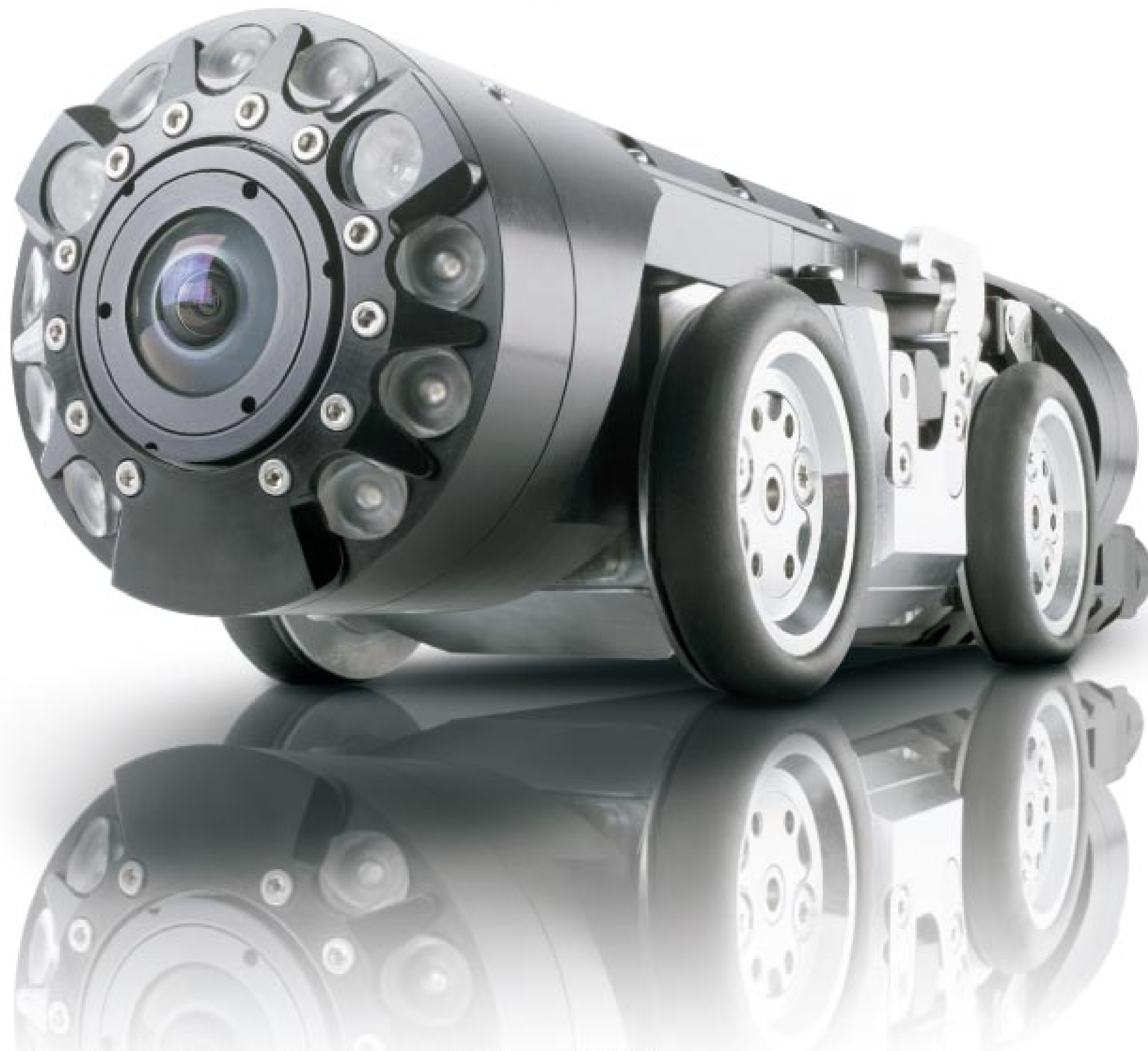
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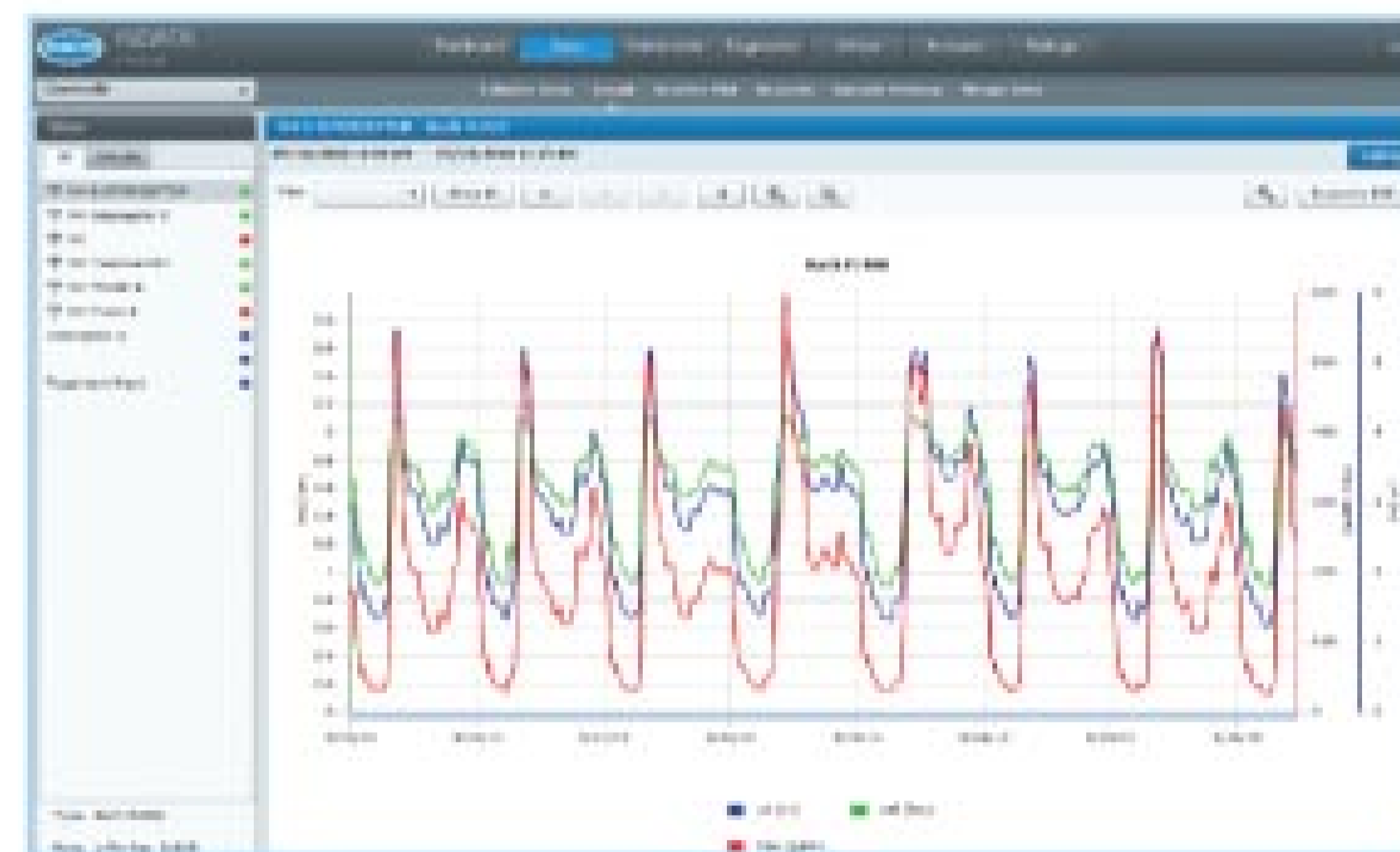
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MORE WITH LESS

A small Ohio city stretches its budget by building synergies between departments and selecting equipment that gives a bigger bang for the buck

By Peter Kenter

Like many smaller cities, Conneaut, Ohio is looking to stretch its budget. At present, the Wastewater Department faces a systemwide video inspection of its sanitary sewer and stormwater lines, an annual cleaning of the sanitary sewer lines and a slate of much-needed repairs.

There's also the ongoing issue of root intrusion from the city's many trees, plus lift station cleaning and regular conventional and trenchless repair of aging pipes.

Conneaut (pronounced CON-ee-awt) gets it done by coordinating projects and sharing resources between departments and by selecting equipment that helps crews work efficiently. Key items in the equipment fleet include a camera truck outfitted with gear from CUES and a new combination truck supplied by GapVax.

Getting older

Much of the city's sanitary sewer

system dates back to the mid-1950s. The main trunk line was installed in 1954, but some of the original service lines date back to 1899. The system piping is 60 percent vitrified clay tile.

"Many of the lines haven't been maintained over the years," says Craig Pierce, wastewater superintendent. "Some of the storm lines are as large as 24 to 30 inches in diameter, so they take a lot of water, and it might not be immediately apparent that there are blockages there."

Conneaut, with a large canopy of deciduous trees, is a member of The Arbor Day Foundation's Tree City USA program. Below ground, vigorous root systems frequently penetrate the sewer lines.

In 2005, the city purchased its first inspection system, including an OZII pan-and-tilt camera and Mudmaster transporter from CUES. "We had contracted out camera work three or four times before that, but we'd never engaged



Utilities worker Tom Spencer of the Conneaut Wastewater Department uses the GapVax combination truck's jetter while the vacuum tube picks up debris. (Photography by Dave Leshner)

in a program to take a hard look at a system," says Pierce. In recent years, the department has conducted a manhole-to-manhole inspection of about 40 percent of the system.

More cleaning power

In addition, last year, the department realized it needed to replace its ailing 13-year-old single-axle waterjetter in favor of something more capable. "Our old truck was in pretty sad shape," says Pierce. "We had worked it hard, and it was always in the repair shop



PROFILE:
Wastewater
Department, City
of Conneaut, Ohio

INCORPORATED:
1834

POPULATION:
12,300

AREA SERVED:
26.4 square miles

DEPARTMENT STAFF:
11

INFRASTRUCTURE:
60 miles of sanitary
sewer lines

ANNUAL BUDGET:
\$1,693,000

WEB SITE:
www.conneautohio.gov



The GapVax combination truck is shown at a city water tower after refilling its water tank at a designated hydrant.

and pretty much whipped. Our goal was to find a new unit that could serve as many uses as possible and that we could keep on the road longer.”

While the Wastewater Department would be responsible for the capital purchase, city personnel understood that the vehicle would help to serve other city departments as well. The department chose an MC-2008 combination truck



Timbers cover a 20-foot section of crushed vitrified pipe at dig site in Conneaut.

drive reel with capacity for 800 feet of 1-inch hose. It also carries an 8-cubic-yard debris tank and a 2,000-gallon water tank, twice the size of the previous unit's tank.

A bigger water tank was a must-have to help cover the city's 60 miles of sewer lines spread across 26.4 square miles. "Our goal is to help keep the truck on the road longer without having to refill the water tank," says Pierce. "We're

“Our goal is to help keep the truck on the road longer without having to refill the water tank.

We're limited to using just a few hydrants because of the aging water infrastructure, and we have to avoid causing rust complaints, since drawing from a hydrant kicks up a lot of sediment.”

Craig Pierce

from GapVax after visiting that company's headquarters in Johnstown, Pa.

The dual-axle unit gives the city capabilities that include sewer cleaning, root cutting, storm sewer maintenance, hydroexcavation, and support for water main leak repairs. It has a 65 gpm/2,000 psi direct-drive water pump; 3,500 cfm/15 inches Hg positive displacement vacuum pump; front-mounted boom with twin lift cylinders; 1,000-pound lift and 26-foot reach; and a front-mounted articulating direct-

limited to using just a few hydrants because of the aging water infrastructure, and we have to avoid causing rust complaints, since drawing from a hydrant kicks up a lot of sediment.”

Looking into the lines

The truck was a significant investment, so the crew keeps it on the road for the entire 8-hour shift. It is used to maintain both sanitary sewer lines, under Pierce's department, and storm drains, under Public Works. Often, the crew con-

Wastewater superintendent Craig Pierce grabs the gun from the GapVax truck to help Jeff Pelow, jet operator, as he guides the vacuum tube into a lift station well.



SHARING RESOURCES

Craig Pierce, wastewater superintendent in Conneaut, Ohio, figures he's done it all in his 21 years with the city. He has worked on everything from water purification and distribution to repairing and maintaining the wastewater system.

Pierce holds Class III Water Supply Operator and Class IV Wastewater Operator certificates. But then, working double duty and providing backup support for other municipal departments is par for the course here.

The city stretches its budget in part by sharing resources, human and capital, across departments. "I filled in when the superintendent of the Water Department retired," says Pierce. "When we work on various tough jobs, we often borrow equipment and personnel from other departments."

Even the Wastewater Department's GapVax combination truck is shared with the Public Works Department. "Recently, the water department experienced some bad leaks, and they called on us to use the unit to depressurize the line by vacuuming up the water," says Pierce. "We've also used our truck to hydroexcavate for them when they're repairing lines. Likewise, they've helped us out when we need additional labor.

"We're always exchanging favors, personnel and equipment. Conneaut is a small city and it's good to take advantage of our smaller size to pool our resources like this."



A Conneaut crew used a cutting nozzle to clear a 20-foot section of large-diameter wastewater pipe.

sists of one member from each department. Sanitary sewer projects take precedence over stormwater system maintenance.

A cold-weather recirculation system keeps the unit operating when temperatures fall below freezing. "They offer a heater option, but we've never had a problem keeping it on the road with just the recirculation system," says Pierce.

Pierce likes the unit's low maintenance requirements, which extend its on-road hours. "There's a rear plate that allows you to lube all but four of the grease fittings at once, so you can get the maintenance done

more quickly without having to crawl all over the truck," he says.

The video inspection system serves as the eyes of the combination truck. The initial video survey found blockages caused by roots, rocks and boulders. Some obstructions were so extreme that the jetter couldn't blast through the debris.

"We created a homemade bucket system and put a line down there and retrieved the boulders," says Pierce. "The largest was a foot-and-a-half by 2-foot piece of asphalt dropped by vandals. We've also found iron pipe and hockey sticks down there."

Many of the lines had been



A CUES camera is deployed to inspect a 300-foot section of old vitrified clay pipe.



Maintenance worker Dan Rozalski guides an excavator on a sewer pipe repair job.

installed without bedding material, and that allowed the pipes to sag in the soft soil over the years and fail at the joints. Other problems were caused by homebuilders performing careless work as they tapped the sewer main to hook laterals into the system.

"The homeowner in this city is responsible for the sewer connection," says Pierce. "In the days before insert tees, they'd knock a hole into the wrong place, and they might take a hunk out of it. They would try to cement it up, but there would have been no inspection of that connection."

The camera occasionally turns up surprises, such as a recent discovery that seven homes still discharged sewage to the stormwater system. Dye and smoke tests confirmed that the homes had escaped the notice of engineers

separating the sanitary and stormwater systems in 1901.

Getting the roots

The combination truck has been an effective weapon against tree roots in the lines. "When we first got the camera, we started to find the heavy root intrusions and began to take them out," says Pierce. "That's another reason why the bigger tank on the combination unit is a bonus. We hit the roots with hydraulic circular root cutters, and in the big lines, we use hydraulic chain cutters that can go right to the outer edges of the pipe. A bigger tank lets us cut roots for longer periods of time."

Whether roots are cut and whether pipe sections are lined or replaced depends on the department's budget, and in which account the money is available.

Pipe lining, for example, falls into the capital budget, while root cutting is part of the operating budget.

"In 2005, we had some money set aside for cured-in-place pipe lining," says Pierce. "We contracted United Survey of Cleveland to line 3,000 feet of pipe at about a third the price of excavation. This year, we're putting out a contract for another 3,000 feet with the assistance of a capital grant from the Ohio Public Works Commission."

The Wastewater Department handles many of its own pipe repair and replacement jobs, ranging from lengths of 10 to 20 feet to as long as 300 feet. "We just take out the tile section and replace it with SDR25 or SDR26 PVC pipe, then use Fernco couplings to make the transition between the old clay and the plastic," says Pierce.

For most digs, Pierce calls on excavators operated by the Public Works Department. The GapVax truck sometimes assists with hydroexcavation to depths of about 30 feet. However, Pierce generally farms out repair work at depths in excess of 15 feet to outside construction crews. "Most of the really deep pipe is newer PVC, so it's the least likely to need attention," he says.

Operators appreciate the truck's remote control while hydroexcavating. "They can get a much better look at what they're doing from outside the truck," says Pierce.

Customized instruments

Pierce also worked with GapVax to customize the instrument panel so that operators can see how much water they have left without leaving the truck. "You don't want to run dry with a positive displacement pump," says Pierce. "But you also don't want to have to stop, walk around the truck to check water levels, and then run dry by the time you get back."

The department has established a goal of cleaning the entire sanitary sewer system every year. However, an extensive paving program that has occupied the city for the past seven years continues to drive department activities.

"The paving program has really hindered our standard cleaning program," says Pierce. "But when the roads are under construction and wide open, we target our efforts to inspect and repair lines

in those locations first."

It's as much an exercise in maintaining public trust as it is a repair program. "It used to be that the roadbuilders paved and didn't know what sort of infrastructure they were paving over," says Pierce. "If they paved over a weak or deficient sewer line, often the added weight of the new paving could cause the sewer line and the road itself to collapse, and we'd have to excavate into a brand-new road to

"When we first got the camera, we started to find the heavy root intrusions and began to take them out. That's another reason why the bigger tank on the combination unit is a bonus. A bigger tank lets us cut roots for longer periods of time."

Craig Pierce

complete the repairs. To the public, that looked bad on both departments."

The department now works closely with the Public Works to coordinate the two programs for maximum efficiency.

Focus on lift stations

Pierce spends considerable effort on maintaining the system's six lift stations, which are cleaned three to four times per year. "We use the combination truck to jet the sludge and solids from the bottom of the tank and vacuum the debris and gravel," he says.

Conneaut's 10-year goals, beyond the aggressive road improvement program, include establishing a regular annual cleaning program for the sanitary sewer system and getting the stormwater conduits "totally spotless," Pierce says. "If we treat the equipment right, I hope we'll be doing it with the same truck." ♦

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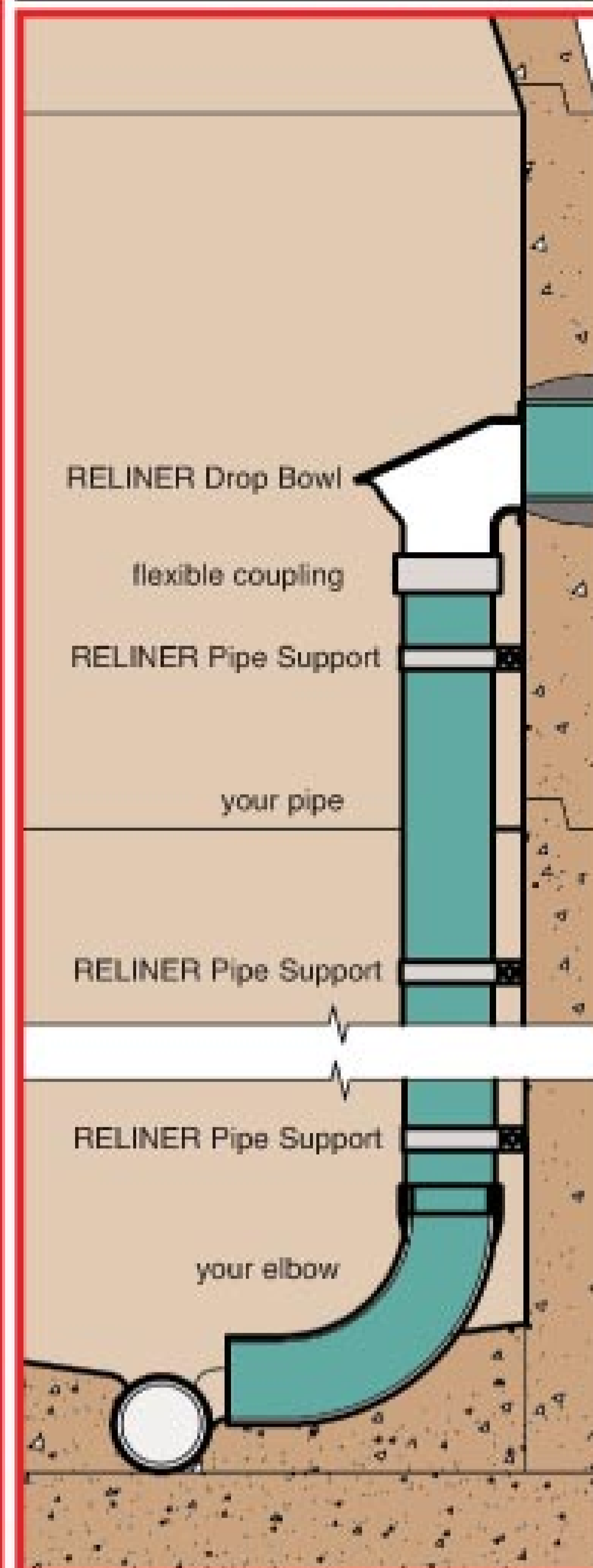
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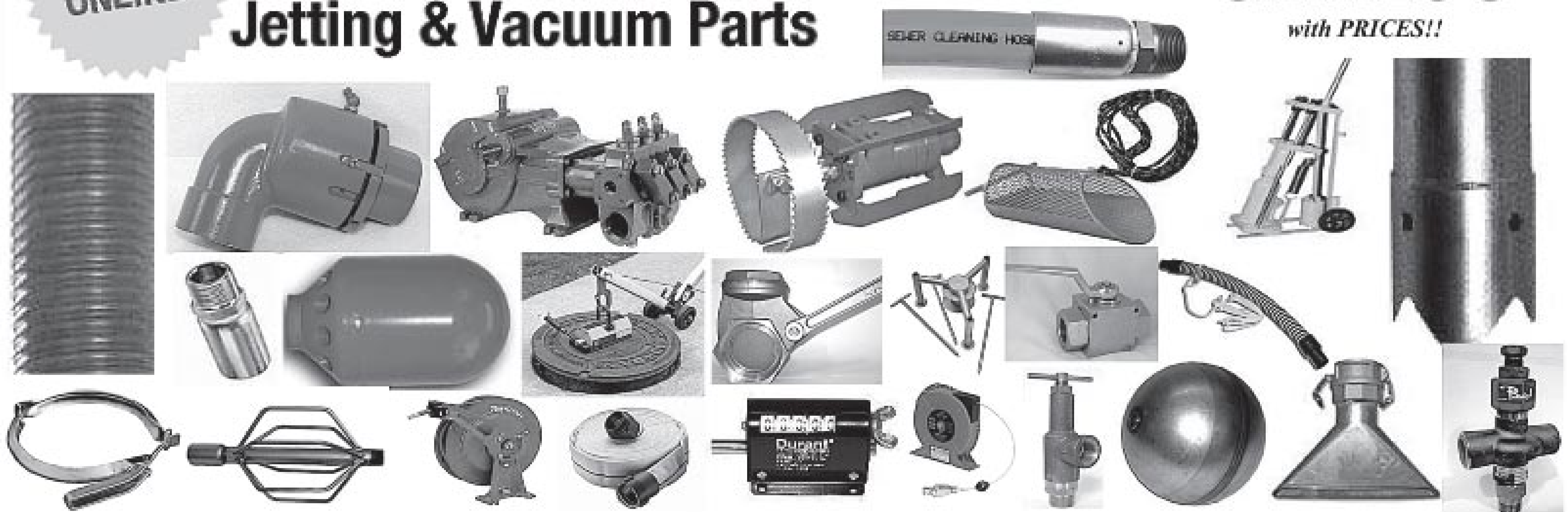
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SEALING THE SOURCE

Grouts and other sealing systems for manholes help municipal utility managers cut off clear-water inflow and infiltration at an important source

By Benjamin Wideman

Manholes are an important source of I&I, and municipal managers increasingly recognize the need to plug leaks in manhole chimneys and other potential weak spots. Here is a look at some of the chemical sealants and other sealing systems available from industry manufacturers.

Application nozzle

The **SPN Series rotary nozzle from RFI Construction Products** is a high-speed device for applying grouts, mortars and epoxies to circular surfaces such as pipes, pipe fittings, manholes and shafts. Four-inch to 120-inch inside diameter lining is possible in thicknesses from 0.25 to 4 inches. The rotary head is powered by an integral air motor. 631/752-8899; www.rficonstructionproducts.com.

Polyurethane resin

AV-202 Multigrout LV from Avanti International is a moisture-activated, MDI/TDI-blended polyurethane injection resin. Designed for sealing active and potential water leaks in cracks or joints in concrete structures, it can absorb up to 10 times its weight in water. It is low in viscosity to permeate well into the crack or joint, and it cures to form a resilient and flexible yet tough closed-cell foam. 800/877-2570; www.avantigrout.com.



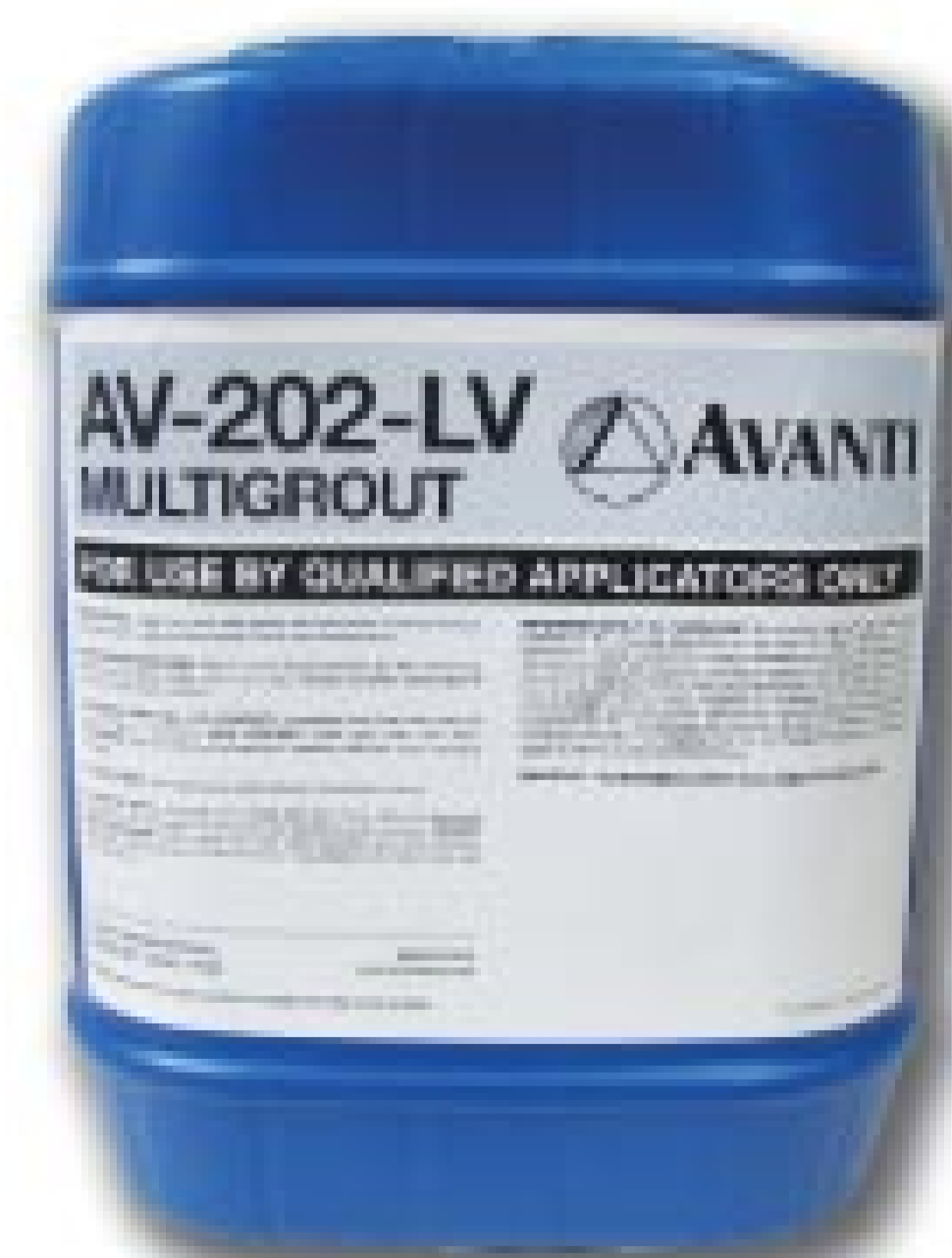
SPN Series rotary nozzle from RFI Construction Products

Near-frictionless veneer

Blue-Tek/AR3 liner from Reline America Inc. uses various technical fabrics to create a liner with both strength and a near-frictionless veneer for improved wastewater flow and abrasion resistance. It is available in lengths up to 1,000 feet and can be manufactured to fit any diameter from 6 inches to 24 inches. It will soon be available up to 48 inches. 866/998-0808; www.relineamerica.com.

Mainline joint/lateral sealing

Truck-mounted grout rehabilitation systems by CUES Inc. are available for mainline joint/lateral sealing and can be equipped with the latest CCTV equipment for TV inspection. Applications include



AV-202 Multigrout LV from Avanti International



Blue-Tek/AR3 liner from Reline America Inc.

Truck-mounted grout rehabilitation systems by CUES Inc.



joint testing and sealing of mainline and lateral joints, manholes, junction boxes, large-diameter pipes, or any other low-pressure waterproofing applications. All systems can be configured to run urethane, acrylimide and acrylate grouts. Dry freight box (for export) and trailer-mounted systems are also available. 800/327-7791; www.cuesinc.com.

No torch or primer

Boa-Tape infiltration sealing tape from Pipeline Seal & Insulator Inc. requires no torch and no primer. The pressure-sensitive woven polypropylene tape seals concrete, steel and polyethylene structures. Designed to seal concrete joints against groundwater infiltration, the 50 mil elastomeric adhesive, combined with 15 mils of a woven polypropylene, makes the tape extra sticky for a strong grip.



Boa-Tape sealing tape from Pipeline Seal & Insulator Inc.

The tape sealing system also can be applied to pipe structures to control corrosion. 800/423-2410; www.pipelineseal.com.

Silence covers

The **RAP-O manhole cover cushion from Municipal Services Inc.** is a soft, pliable round cord impregnated with asphalt designed to silence noisy manhole covers and reduce wear in manhole covers and seats. The product also reduces infiltration from groundwater. 508/842-8901; www.rap-o.biz.

Wet and dry surfaces

The **Manhole Rehabilitation Kit from Infrastructure Repair Systems** can be applied to wet or dry surfaces by brush or trowel. The three-part kit reconditions the manhole surface by creating a waterproof, high-strength, corrosion-resistant, impermeable structural bond with the internal substrate. The kit comes with a water-borne epoxy primer that can be applied with a garden sprayer after the manhole is cleaned. Next is an InfraGard two-part epoxy topcoat that goes on wet or dry and stops infiltration or exfiltration. That is followed by Chim Coat flexible two-part epoxy chimney coating that expands and contracts with changing temperatures and traffic loads. 877/327-4216; www.irs.net.



Manhole Rehabilitation Kit from Infrastructure Repair Systems

Stops corrosion

Con Shield from Con-Shield Technologies is an additive for concrete that stops the corrosion from hydrogen sulfide. There is no loss of effectiveness over time because the product is molecularly bonded to each cement particle. The product has a 100-year design life. 877/543-2094; www.conshield.com.

Built-in piston retention

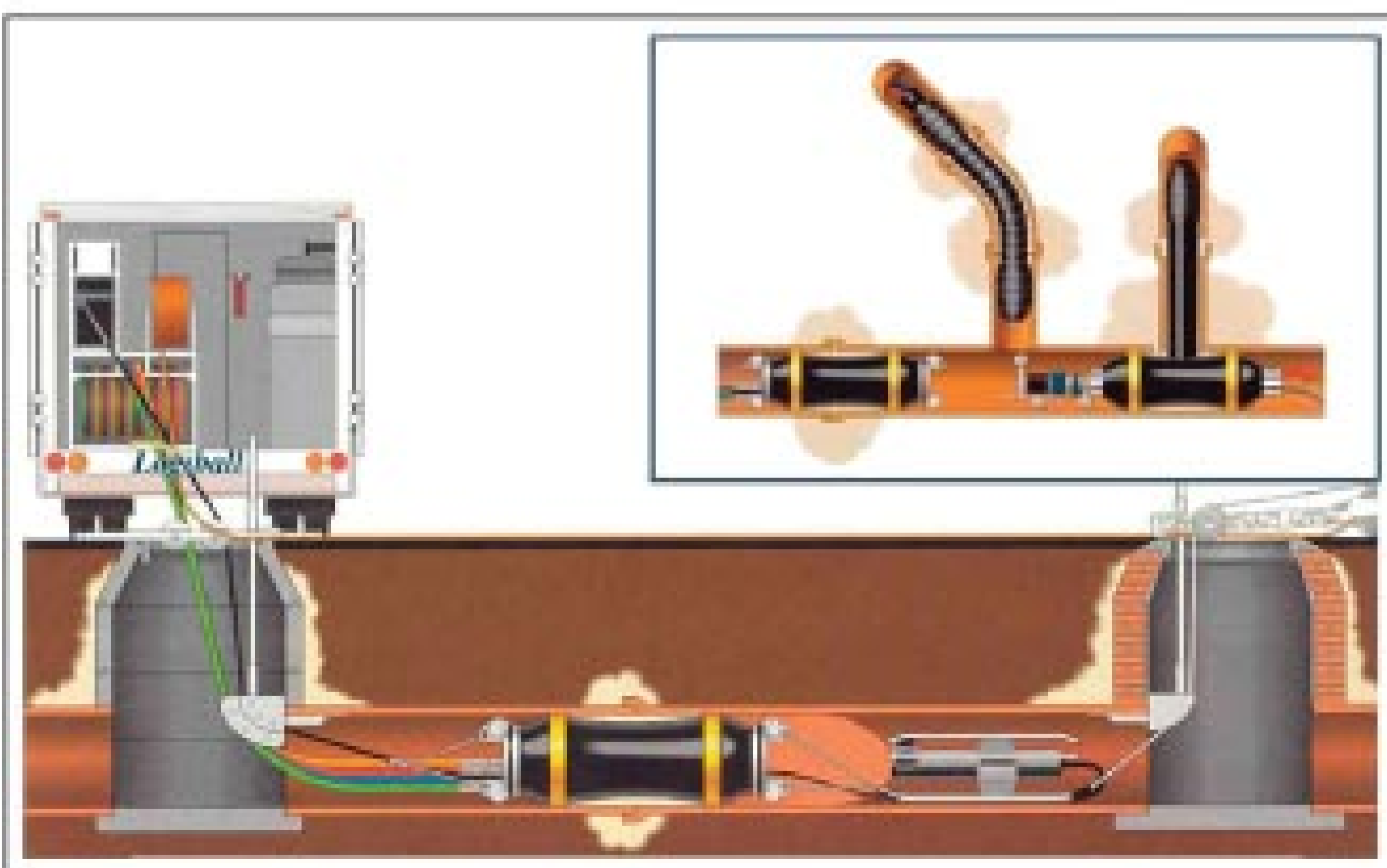
B Series 50 ml cartridges from Sulzer Mixpac USA offer an innovative interface for the mixer and pre-assembled, built-in piston retention. The cartridges have a rectangular back that fits the industry standard for dispensers. They are available in 50 ml, fully assembled, 1:1 and 2:1 ratio polypropylene cartridges. Other features include a removable cap, stronger attachment flange, and separated outlets to minimize cross-contamination. 603/893-2727; www.sulzermixpacusa.com.

Sealing lateral cutouts

Test and Seal Packers by Logiball Inc. are for mainline joints, lateral connections and private laterals. The lateral packers are also used to stop infiltration at lateral cutouts after lining processes. 800/246-5988; www.logiball.com.

Watertight and flexible

Prime Flex EXP from Prime Resins is a highly expansive, watertight, flexible foam. The rapid-foaming polyurethane resin is used to seal actively leaking joints and cracks in concrete structures. Available in Quick-Mix cartridges, the dual components are dispensed accurately in 4:1 ratio. One 12-ounce cartridge makes five gallons of foam in 60 seconds. 800/321-7212; www.primeresins.com.



Test and Seal Packers by Logiball Inc.

Grade adjustment

Cretex PRO-RING from Cretex Specialty Products is a concrete-alternative manhole grade adjustment system. The rings are manufactured from lightweight expanded polypropylene, known for an exceptional strength-to-weight ratio, stability, durability and chemical resistance. The rings nest together and fit to within one-quarter inch of finished grade. A 6-inch PRO-RING weighs 14 pounds. 800/345-3764; www.cretexseals.com.

Multi-layered lining

Spectrashield by Spectrashield Liner Systems is a multi-layered lining system designed to stop infiltration in manholes through the systematic layering of polymer resins. 800/284-2030; www.spectrashield.com. ♦



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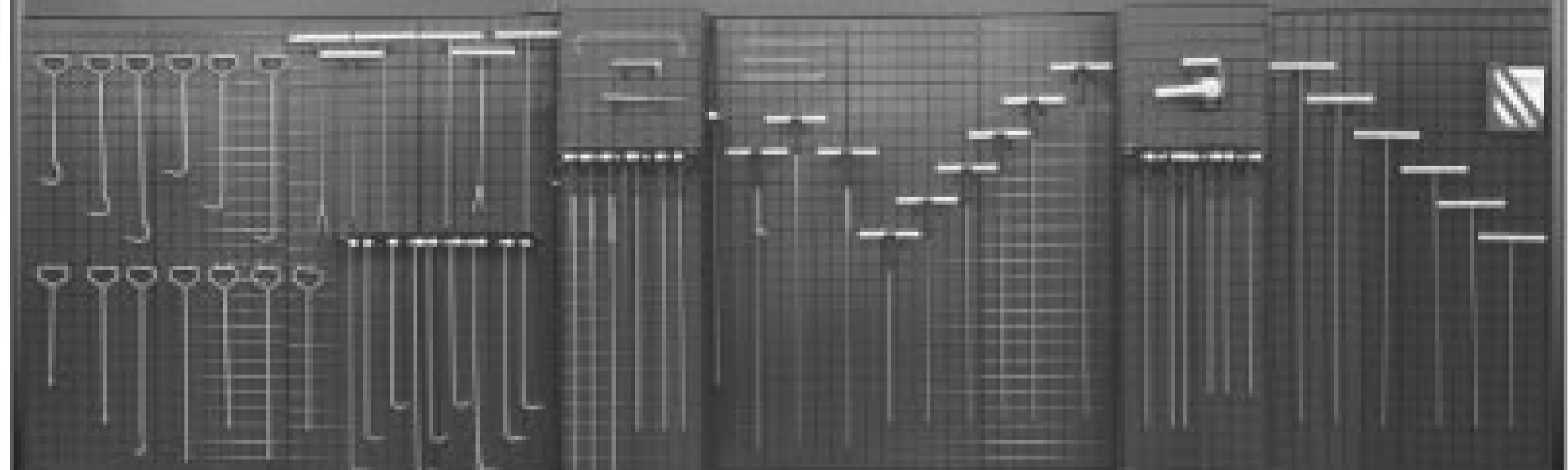


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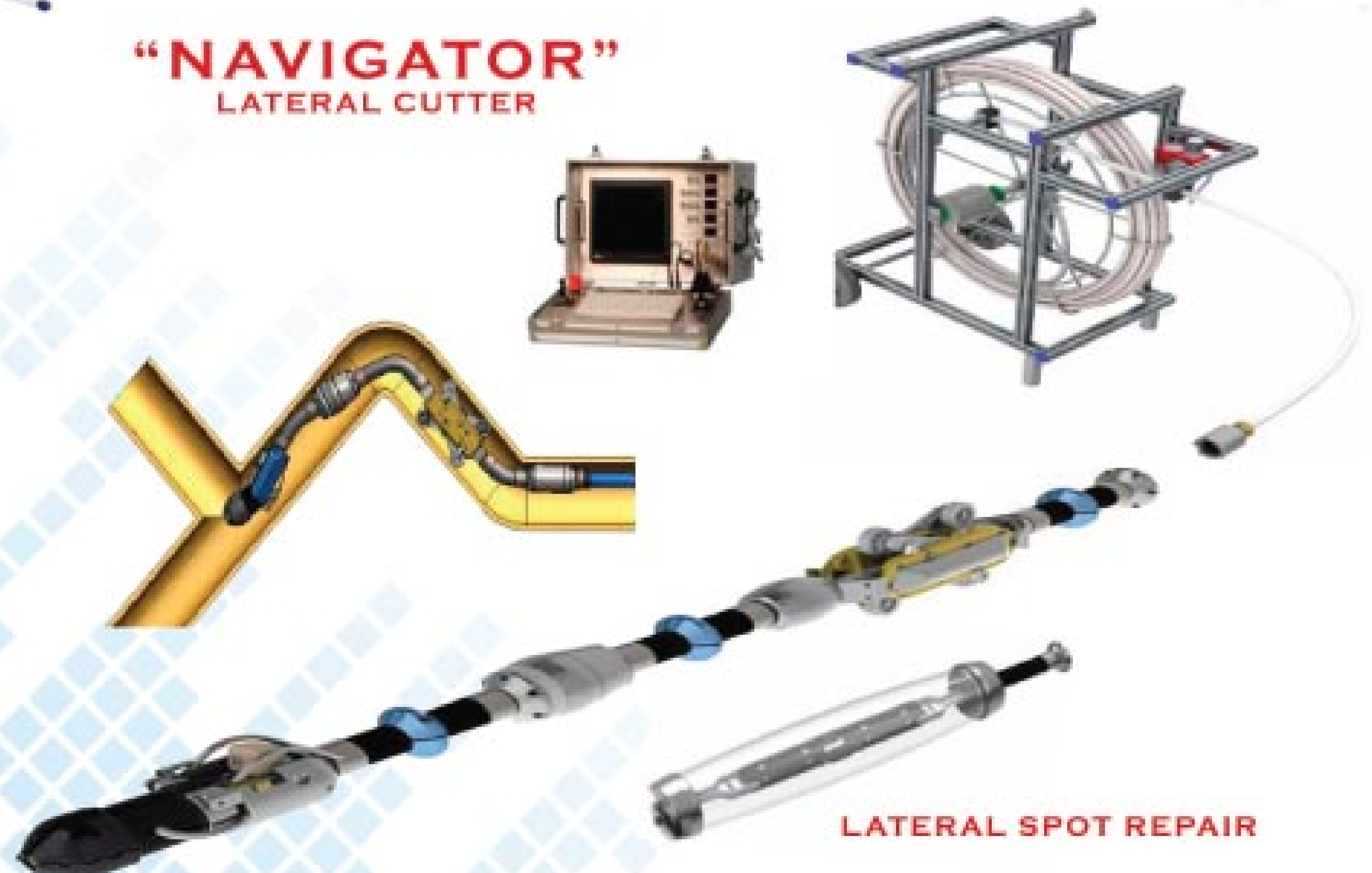
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LATERAL SPOT REPAIR

THE LIGHT FANTASTIC

The PRO-RING system from Cretex Specialty Products uses lightweight foam rings that enable one worker to restore a manhole to grade level

By Erik Gunn

When roadway reconstruction raises the pavement level, manholes need to be repositioned so that they are once again level with the street. Typically, heavy concrete rings are used to build up the chimney so that the cover and its frame can be repositioned.

A new alternative is the PRO-RING system, a series of lightweight expanded polypropylene (EPP) rings that can be used to raise a manhole to grade level. PRO-RING is manufactured by JSP from the company's ARPRO brand EPP material. It is distributed by Cretex Specialty Products, of Waukesha, Wis., a supplier of chimney seals and other manhole repair products. Cretex is a unit of Cretex Companies in Elk River, Minn.

Pete Tortorici, regional sales manager for Cretex based in Bartlett, Ill., demonstrated the PRO-RING system for Darin Severson, repair and excavation field supervisor for the City of Naperville, Ill., a Chicago suburb, on June 15.

Walk-around

The PRO-RING system consists of black EPP rings with a standard inner diameter of 24 inches and outer diameter of 36 inches. EPP is an engineered plastic foam that is lightweight and has a very high strength-to-weight ratio. It withstands multiple impacts without significant damage, resists water, chemicals and most oils, and withstands temperature extremes from -31 to 265 degrees F.

Cretex notes that while it usually takes up to four men to lift a con-



Josh Orin, Naperville city worker, holds two PRO-RING units. Each 6-inch-deep unit weighs about 14 pounds. (Photography by Erik Gunn)

crete grade ring, a 6-inch-thick PRO-RING unit weighs 14 pounds. One man can install the system in a few minutes. A site to be closed in one day at 20 to 30 percent reduced cost versus conventional methods, according to the company. No water, sand, mortar or bricks are needed.

There are three categories of rings: grade rings, finish rings and angle rings. Grade rings are used



TECHNOLOGY TEST DRIVE

EQUIPMENT:
PRO-RING Manhole Adjustment System

MANUFACTURER:
PS Inc., distributed by Cretex Specialty Products

LOCATION OF DEMO:
Naperville, Ill.

DEMONSTRATED BY:
Pete Tortorici, Cretex; Darin Severson, City of Naperville; and Naperville work crews

LIST PRICE:
\$38 to \$165 per ring, depending on size and configuration

Far left: At a repair site, Naperville city worker Rick Flaar uses a propane torch to dry off as much moisture as possible from the top of the concrete manhole chimney. **Near left:** Flaar applies adhesive to the top of the concrete before applying the first PRO-RING leveling ring.

to raise the manhole to within an inch or two of grade. A finish ring is applied in the final layer between the grade rings and the reinstalled manhole frame. Angle rings are used when the grade surface is sloped.

Cretex notes that while it usually takes up to four men to lift a concrete grade ring, a 6-inch-thick PRO-RING unit weighs 14 pounds. One man can install the system in a few minutes.

Grade rings have two concentric 1-inch-wide channels on the underside and two corresponding concentric 1-inch-wide tongues on the upper side. The tongues and channels fit together so that rings align precisely when they are stacked. Finish rings have only the channels on the underside. The upper side is smooth to enable maximum surface contact, and therefore a maximum seal, with the underside of the manhole frame.

Grade rings are available in 2-, 4- and 6-inch thicknesses. Finish rings come in quarter-inch increments from 0.75-inch to 2.5 inches thick. Angle ring thickness transitions from 0.75 to 1.75 inches, the equivalent of a 1-degree pitch.

The PRO-RING system has been

Rick Flaar applies the first PRO-RING unit to a manhole under repair.



tested using M-1 construction adhesive, so Cretex conducts its demonstrations using that material.

Operation

Tortorici met with a city work crew headed by Severson at an intersection in a residential area that had been reconfigured several years before when one crossing street was widened. The project left a manhole at the location buried more than a foot below the new grade level on the roadside beneath the landscaping.

A week or so before the demonstration, a city crew had conducted a TV inspection and used a locating sonde to identify the manhole's location, then hydroexcavated the site to expose the top of the manhole.

Workers used a backhoe to remove the manhole frame, exposing the top of the concrete manhole chimney. Naperville city worker Rick Flaar measured the depth from soil surface to the chimney at 15 inches. Allowing for the 7-inch height of the manhole frame, that left 8 inches to fill with new rings.

Tortorici applied a layer of adhesive to the top of the concrete manhole chimney, using a zigzag pattern that provided coverage for the chimney's entire thickness. He then grabbed a 6-inch PRO-RING grade ring with one hand and lowered it into place, carefully aligning it with the chimney and twisting it slightly to spread adhesive.

Once that ring was in place, he laid down circular lines of adhesive



on the two protruding tongues. Then he took a 1.5-inch-thick finish ring and aligned the grooves on the underside with the tongues on the upper side of the first ring, again twisting to spread the adhesive and ensure a complete seal.

Tortorici then applied adhesive in a zigzag pattern covering the

topped with sod. The entire operation, from the first application of adhesive to backfilling, took less than 15 minutes.

The work crew then proceeded about a half-block south, where there was another manhole two feet below grade in the grass next to the street. Flaar measured the



After Rick Flaar has covered the top ring with adhesive, he and Martin Alvarado lower the manhole frame into place.

entire top surface of the finish ring. City workers Flaar and Martin Alvarado lowered the manhole frame onto the adhesive on the finish ring. The city crew then backfilled the excavation with gravel.

Severson explained that at a later date, about 6 inches of gravel would be removed and replaced with black dirt and topsoil and

manhole's depth at 25.5 inches below the grade, thus requiring 18 inches of filler between the top of the manhole chimney and the frame. He decided to use two 6-inch grade rings, two 2-inch grade rings and a 2-inch finish ring.

Because there was some moisture on the top of the manhole chimney, Flaar used a propane torch to dry the surface. This time, Flaar applied the adhesive, following the example that Tortorici had set with the first project. The manhole frame was then lowered on to the adhesive-covered finish ring, and the cavity was backfilled with gravel.

When the adhesive had set for about 45 minutes, a Naperville em-

After having applied adhesive to the top of the first ring and then installing a second ring on it, Rick Flaar applies adhesive to the top of the second ring. Two thinner rings will be applied, each with adhesive, to fill up the space between the manhole and the frame so that the top of the frame is level with the ground.



The frame in place.



A repaired manhole with gravel fill around it.

ployee drove a combination truck to the work site. With the jetter hose turned on, crew member Josh Orin applied its end tightly to the surface of the gravel, sending water into the gravel surrounding the chimney. Through the open manhole, water could be seen slowly seeping in two small areas between the bottom 6-inch ring and the top of the concrete chimney.

Severson said he was not at all concerned. He noted that the chimney had been pitted in a few spots, possibly interfering with the seal. Furthermore, he said, the adhesive specifications strictly call for a total curing time of three to seven days.

Allowing more time to cure, leveling the top of the manhole chimney, or both would probably ensure a complete seal, he said, and applying a chimney seal, caulk or mortar to the area would probably resolve the matter. The rings themselves remained tight. "It's a good seal," he said. "Nothing's leaking on those."

Observer comments

The PRO-RING materials were remarkably lightweight, yet easily bore the weight of the heavy iron manhole frames without crushing. Workers moving around with the rings carried two or three at a time with no difficulty.

The system was easy to learn, as a Naperville crew member did the second job after merely watching Tortorici quickly dispatch with the first one. Severson said he was impressed by the system. "Concrete

rings might be a little bit cheaper," he said. But ease of use, the light weight of the PRO-RING system, and the greatly reduced risk of injury to workers all made the PRO-RING much more attractive in his eyes.

With concrete rings, "you have to have a tractor to set it," he noted. "So you have to have another piece of equipment out there."

Manufacturer comments

While Cretex conducts its PRO-RING demonstrations using M-1 adhesive, Tortorici said the company does not limit its recommended adhesive to that product. A variety of commercial construction caulks or adhesives can be used.

Tortorici said tests have demonstrated that the rings, when in place, can support substantial weight. Proof load tests have been conducted with the equivalent of 50,000 pounds and have shown no damage to the rings.

While a casual bystander at one demonstration broke a ring while holding it vertically and bending it, Tortorici noted that the ring had been subjected to a stress completely unlike what it would experience in service. Users are advised to take care in hauling the rings so that they are not subject to unusual stresses while loose in a truck. ♦

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LEADING BOLDLY

Irrational fears can keep high-potential people from moving up the management ranks. Simple coping strategies can help them break through.

By Ken Wysocky

Many managers can relate to Joe, a middle manager who consistently receives great performance reviews. He's motivated and hard-working, and also a quick study. He's primed to move up to the next level, yet he's always passed over for promotions.

That's because along with his many fine attributes, Joe has sub-par interpersonal skills. He doesn't collaborate well with fellow employees, often cuts off colleagues when they're speaking, and gets angry and emotional in periods of high stress.

So what should management do with Joe? He's too valuable to jettison, yet too volatile to promote. Rather than squander his talent or lose his knowledge and skills to another employer, Bruce E. Roselle suggests an alternate route: Help Joe confront the underlying fears that keep sabotaging his potential as a leader.

As founder and owner of Roselle Leadership Strategies Inc. in Minneapolis, Minn., Roselle has met and coached a lot of Joes in the past 25 years.

Three fears

"In most cases, the behavior boils down to three underlying, irrational fears," says Roselle, author of *Fearless Leadership: Conquering Your Fears and the Lies That Drive Them*. "When employees connect with those fears, it results in behavior that undermines their effectiveness."

For example, Joe may feel uncertain whether people like him, and that puts him into an over-protective, lash-out mode. He may also fear being perceived as a B player — undervalued. The third

fear is that he will get hurt, or hurt someone else — emotionally, financially or physically.

The first step in coaching these talented-yet-troublesome employees is getting them to understand what pushes their buttons. "That's where we start, by examining why they get agitated, tense or angry," Roselle says. "We draw from cognitive behavioral psychology, which says what you think determines how you behave. You don't react randomly. It's driven by thought process and emotions."

People like Joe typically receive physiological cues — a tight throat, a racing pulse or sweaty palms — that tell them when things are headed south. "Your body tells you you're nervous, but it doesn't tell you what to do," Roselle says. "That's when your beliefs set in and tell you what to do in that situation."

"Maybe you feel like you can't make a mistake, so you get very cautious. Or you need to prove that you're right, so you go out of your way to rationalize and explain, or you get defensive because you feel you must prove your worth and validity." Other reactions may include indecision, unrealistic perfectionism, resistance to other people's ideas, pessimism, and lack of motivation.

Time for a reboot

After Joe recognizes and accepts his irrational fears, it's time to teach him how to handle them when they arise. "Overcoming this is very similar to rebooting a computer when it's frozen," Roselle says. "In that moment, the reason the computer freezes is not because you just lost your motherboard, it's

just overwhelmed.

"The brain is very much like this computer when it feels irrational fear. The cortex — or the problem-solving part of the brain — becomes less involved, and the lower part, which controls the fight-or-flight syndrome, takes over."

The first step is to recognize the situations that trigger the fears. Maybe it's public speaking, a big meeting with a boss and peers, or the person's belief that a colleague is trying to undermine him, Roselle says. Once someone like Joe is aware of the catalysts that provoke the fears, he can be prepared to deal with them.

"The brain is very much like this computer when it feels irrational fear. The cortex — or the problem-solving part of the brain — becomes less involved, and the lower part, which controls the fight-or-flight syndrome, takes over."

Bruce E. Roselle

To do so, Joe needs to practice responding with a healthy counter-belief. For example, if the common fear is looking incompetent, Joe can react by teaching himself to keep things in perspective.

"You can do this by introducing a conscious, rational question about this irrational fear," Roselle says. "For example, ask yourself, how big a deal is this really? Or what is the worst thing that could happen? In most cases, it's not a life-or-death situation. You can bring yourself back down to reality by asking yourself those questions."

"Over the years, I've seen that when people pop an issue to the top of their brain, they become more effective. They can even share their fear with a group to

We invite readers to offer ideas for this regular column, designed to help municipal and utility managers deal with day-to-day people issues like motivation, team building, recognition and interpersonal relationships. Feel free to share your secrets for building and maintaining a cohesive, productive team. Or ask a question about a specific issue on which you would like advice. Call editor Ted Rulseh at 800/257-7222, or e-mail editor@mswmag.com.

loosen things up. You need to give yourself some perspective. What happens when people begin to make this shift is very powerful. People literally change their perception of you.

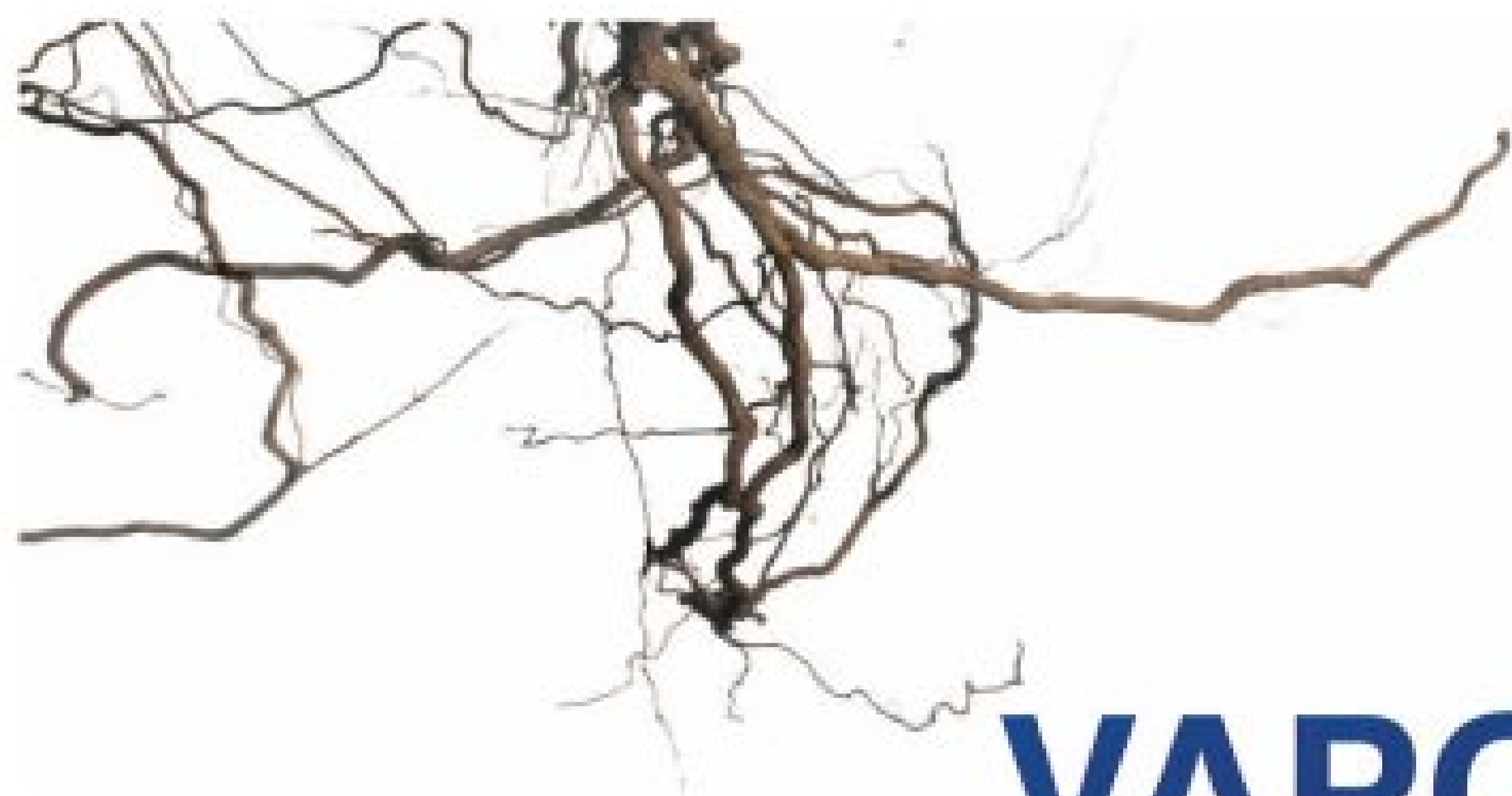
"The trick is that fears never go away, but they can become less and less powerful. Recognizing your faulty beliefs is a powerful revelation."

Introspection is critical

How quickly people master their fears varies from case to case.

Mostly, it depends on how much insight people like Joe have about themselves and how much they work on it. "Most people can make dramatic changes in three months," Roselle says. A typical problem is that Joe's colleagues don't believe the changes in his newfound behavior are real. Instead, they just figure it's something he's "trying on."

But they become more and more convinced when they consistently see Joe reacting differently in situations that used to trigger negative reactions. Overall, they'll see Joe assume the attributes of a high-performing manager: someone who's decisive, optimistic, focused, collaborative, thoughtful and a good listener. In short, someone who's ready to lead at the next level. ♦



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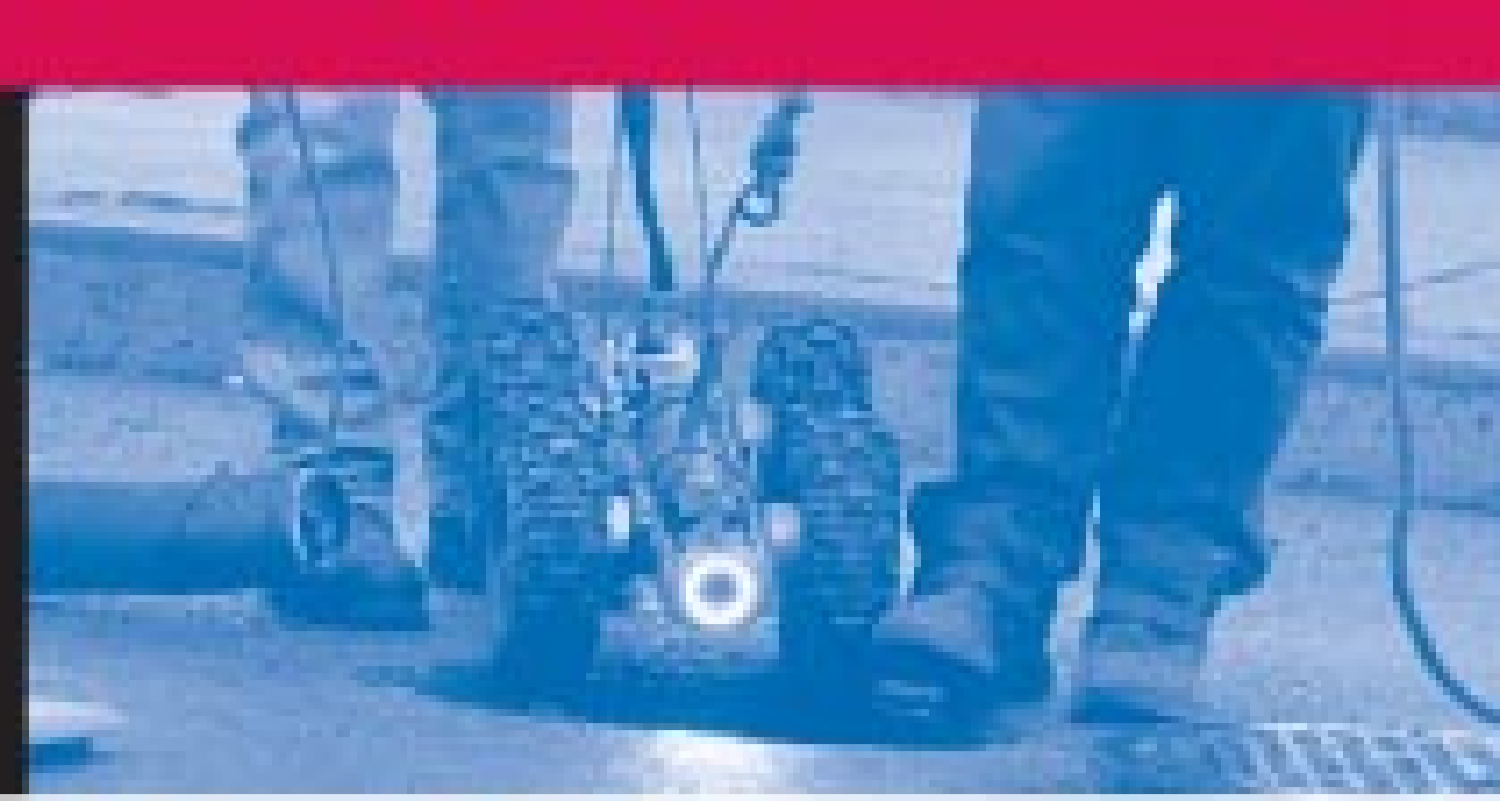
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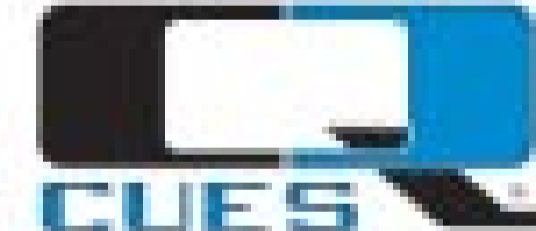

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Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
Ad on page 107

Epoxytec, Inc.

5889 SW 21st St.
West Park, FL 33023
877-463-7699 • 954-961-4656
Fax: 954-961-2395
mswads@epoxytec.com
www.epoxytec.com
Ad on page 107

EZ Grout Corporation

405 Watertown Rd.
Waterford, OH 45786
888-344-7688 • 740-749-5844
Fax: 740-749-0602
tskinner@ezgrout.com
www.ezgrout.com
Ad on page 13

F
Fluid Technology, Inc.

PO Box 937
Oxford, OH 45056
513-981-7808 • Fax: 513-756-1995
info@fluidtechinc.net
www.fluidtechinc.net
Ad on page 110

Footage Tools, Inc.

54 Audia Ct.
Vaughan, ON L4K 3N4
Canada
888-737-3668 • 905-695-9900
Fax: 905-695-8874
footagetools@gmail.com
www.footagetools.com
Ad on page 111

Formadrain, Inc.

10121 Parkway
Montreal, QC H1J 1P7
Canada
888-337-6764
info@formadrain.com
www.formadrain.com
Ad on page 10

G
Gamajet Cleaning Systems, Inc.

604 Jeffers Cir.
Exton, PA 19341
877-426-2538 • 610-408-9940
Fax: 610-408-9945
sales@gamajet.com
www.gamajet.com
Ad on page 12


GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93


**General Pipe Cleaners/
Div. of General Wire Spring**

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Gorman-Rupp Company

600 S Airport Rd.
Mansfield, OH 44903
419-755-1011 • Fax: 419-755-1208
grsales@gormanrupp.com
www.GRpumps.com

H
Hach Flow Meter Products & Services

4539 Metropolitan Ct.
Frederick, MD 21704
800-368-2723 • 301-874-5599
Fax: 301-874-8459
hachflowsales@hach.com
www.hachflow.com
Ad on page 39

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Helix Laboratories, Inc.

1420 Century Dr.
Carrollton, TX 75006
877-444-3549 • Fax: 972-323-9471
hank@helixlabs.com
www.helixlabs.com
Ad on page 27

HEMCO Corporation

711 S Powell Rd.
Independence, MO 64056
800-779-4362 • 816-796-9900
Fax: 816-796-3333
sales@HEMCOcorp.com
www.HEMCOcorp.com

Hi-Vac Corporation/Aquatech

117 Industry Rd.
Marietta, OH 45750
800-800-1016 • Fax: 740-374-5447
sales@hi-vac.com
www.hi-vac.com
Ad on page 114

Hibon Inc. (a Division of Ingersoll Rand)

12055, Cote de Liesse
Dorval, QC H9P 1B4
Canada
888-704-4266 • Fax: 866-786-9163
jeff.peterson@irco.com
www.hibon.com

Hydra-Stop

11700 S Cicero Ave.
Alsip, IL 60803
800-538-7867 • Fax: 708-389-5125
hydra-stopsales@idexcorp.com
www.hydra-stop.com
Ad on page 34

ICS Blount Inc.

4909 SE International Way
Portland, OR 97222
800-321-1240 • Fax: 503-653-4393
info@powergrit.com
www.powergrit.com
Ad on page 17

Industrial Diversified Products, Inc.

PO Box 427
Daphne, AL 36526
251-626-9143 • Fax: 251-625-8873
sales@tlifts.com
www.tlifts.com
Ad on page 111

Infrastructure Repair Systems, Inc.

4301 A 34th St. N
St. Petersburg, FL 33714
877-327-4216 • 727-327-4216
Fax: 727-327-4118
irsi@irsi.net
www.irsi.net
Ad on page 22

Insight Vision

600 Dekora Woods Blvd.
Saukville, WI 53080
800-488-8177 • 262-268-9950
Fax: 262-268-9952
casey@insightvisioncameras.com
www.insightvisioncameras.com

ITW Devcon

30 Endicott St.
Danvers, MA 01923
800-933-8266 • 978-777-1100
Fax: 978-774-0516
jdesrochers@devcon.com
www.devcon.com

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
Ad on page 20

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

JPCI Services

4702 E Virginia St.
Mesa, AZ 85215
480-986-1212 • Fax: 480-380-4461
info@jpciservices.com
www.jpciservices.com

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

Laser Specialists Inc

Laser Specialists, Inc.

19879 W 156th
Olathe, KS 66062
800-377-4272 • 913-780-9990
Fax: 913-780-9815
sales@lasergps.com
www.lasergps.com

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

LMK Technologies

1779 Chessie Ln.
Ottawa, IL 61350
815-433-1275 • Fax: 815-433-0107
sales@lmkenterprises.com
www.performanceliner.com
Ad on page 115

Logiball, Inc.

440 Papin St.
Quebec, QC G1P 3T9
Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110

McGard

3875 California Rd.
Orchard Park, NY 14127
888-888-9192 • 716-662-8980
Fax: 716-662-8985
rglass@mcgard.com
www.mcgard.com/security
Ad on page 103

Mil-Ram Technology, Inc.

4135 Business Center Dr.
Fremont, CA 94538
888-464-5726 • 510-656-2001
Fax: 510-656-2004
sls@mil-ram.com
www.mil-ram.com

Mr. Manhole Systems

125 S Canal St.
Delphos, OH 45833
419-929-3015 • Fax: 419-692-1900
sales@mrmanhole.com
www.mrmanhole.com
Ad on page 10

Municipal Sales, Inc.

PO Box 4743
Queensbury, NY 12804
518-747-2044 • Fax: 518-747-5490
mark.reynolds@municipalsales.net
www.municipalsales.net
Ad on page 95

Municipal Services, Inc.

420 Boston Tpke.
Shrewsbury, MA 01545
508-842-8901 • Fax: 508-842-9648
rapocushion@yahoo.com
www.rap-o.biz
Ad on page 20

Neptune Technology Group Inc.

1600 Alabama Hwy 229
Tallahassee, AL 36078
800-645-1892 • 334-283-6555
Fax: 334-283-7293
marketing@neptunetg.com
www.neptunetg.com

NozzTeq®

NozzTeq®, Inc.

1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Parson Environmental Products, Inc.

PO Box 4474
Reading, PA 19606
800-356-9023 • 610-582-6060
Fax: 610-582-6064
sales@parsonenvironmental.com
www.parsonenvironmental.com

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102



Pearpoint, Inc.

72055 Corporate Way
Thousand Palms, CA 92276
800-688-8094 • 760-343-7350
Fax: 760-343-7351
pearpoint_sales.us@spx.com
www.radiodetection.com
Ad on page 44

Perma-Liner Industries, Inc.

13000 Automobile Blvd., Ste. 300
Clearwater, FL 33762
866-336-2568 • 727-507-9749
Fax: 727-507-9849
info@perma-liner.com
www.perma-liner.com
Ad on page 9

Petersen Products Co.

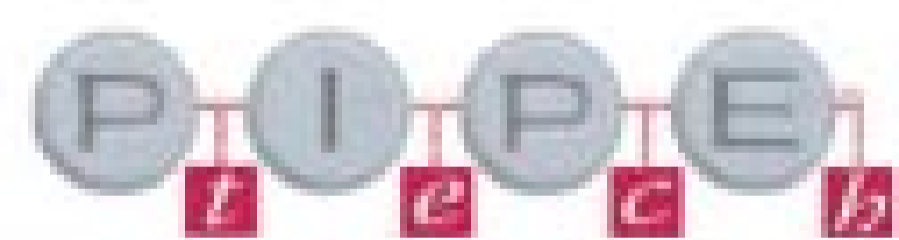
PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Pipeline Analytics

PO Box 15513
Pittsburgh, PA 15244
877-626-8386
wincan@pipelineanalytics.com
www.pipelineanalytics.com
Ad on page 2

PipeLogix, Inc.

PO Box 14014
Palm Desert, CA 92255
866-299-3150 • 760-779-1700
Fax: 760-406-6023
joan.stone@pipelogix.com
www.flexi-data.com
Ad on page 38



PipeTech® Software

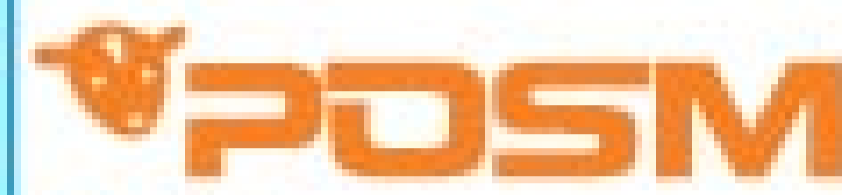
555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetech.tv
www.pent.com
Ad on page 110

Plastic Trends, Inc.

56400 Mound Rd.
Shelby Township, MI 48316
800-232-0888 • Fax: 586-781-0888
info@plasticrends.com
www.plasticrends.com
Ad on page 12

Poly-Triplex Technologies, Inc.

PO Box 398
Bonifay, FL 32425
850-547-9999 • Fax: 850-547-9990
info@poly-triplex.com
www.poly-triplex.com
Ad on page 110



POSM (Pipeline Observation System Management)

PO Box 1037
Mount Sterling, KY 40353
859-274-0041 • Fax: 707-238-1478
info@POSM.us
www.POSM.us
Ad on page 30

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99



Prototek Corporation

PO Box 1700
Poulsbo, WA 98370
800-541-9123 • 360-779-1310
Fax: 360-779-1510
prototeksales@prototek.net
www.prototek.net
Ad on page 22

Q

Quantum Marketing Group

PO Box 2848
Anaheim, CA 92804
714-563-9749 • Fax: 714-776-6208
Sales@QuantumMarkers.com
www.QuantumMarkers.com
Ad on page 111

R

RapidView IBAK North America

1828 W Olson Rd.
Rochester, IN 46975
800-656-4225 • 574-223-5426
Fax: 574-223-7953
info@rapidview.com
www.rapidview.com
Ad on page 37



Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9
Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
Ad on page 38

Rausch Electronics USA, LLC

370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtv.com
www.rauschtv-usa.com
Ad on page 48

Reelcraft Industries, Inc.

2842 E Business Hwy 30
Columbia City, IN 46725
800-444-3134 • 260-248-8188
Fax: 260-248-2605
reelcraft@reelcraft.com
www.reelcraft.com
Ad on page 111

Reline America, Inc.

116 Battleground Ave.
Saltville, VA 24370
866-998-0808 • 276-496-4000
Fax: 276-496-4870
mburkhard@relineamerica.com
www.RelineAmerica.com

Reliner/Duran, Inc.

53 Mt. Archer Rd.
Lyme, CT 06371-3130
800-508-6001 • 860-434-0277
Fax: 860-434-3195
duran@reliner.com
www.reliner.com
Ad on page 43

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

RootX, Inc.

1705 Salem Industrial Dr. NE
Salem, OR 97301
800-844-4974 • 503-364-2999
Fax: 503-485-5229
rootx@rootx.com
www.rootx.com
Ad on page 5

RS Technical Services, Inc.

1327 Clegg St.
Petaluma, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobg@rstechserv.com
www.rstechserv.com
Ad on page 92

S

Safe-Tee Chemical Co.

7821 E. Acoma Dr.
Scottsdale, AZ 85260
480-968-6828 • Fax: 480-968-6776
michael@safeteechemical.com
www.safeteechemical.com
Ad on page 111

Safety Corporation of America

4745 Bakers Ferry Rd. SW
Atlanta, GA 30336
800-746-7464 • 404-505-0510
Fax: 404-505-0506
scapaytas@aol.com
www.shoring.com

Savatech Corp.

413 Oak Pl. Bldg. 5-J
Port Orange, FL 32127
888-436-9778 • 386-760-0706
Fax: 386-760-8754
savatech@bellsouth.net
www.savatech.com
Ad on page 92

Sealing Systems, Inc.

9350 County Rd. 19
Loretto, MN 55357
800-478-2054 • 763-478-2057
Fax: 763-478-8868
pam@ssisealingsystems.com
www.ssisealingsystems.com

Sekisui SPR Americas, LLC

1045 Research Center Atlanta Dr., Ste. F
Atlanta, GA 30331
866-627-7772 • 678-510-1820
Fax: 678-510-1826
info@sekisui-spr.com
www.sekisui-spr.com
Ad on page 110

SERFILCO, Ltd.

2900 MacArthur Blvd.
Northbrook, IL 60062
847-509-2900 • Fax: 847-559-1995
sales@serfilco.com
www.serfilco.com
Ad on page 30

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cfir.com
www.sewerequisiteco.com
Ad on page 110

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequipment.com
www.sewerequipment.com
Ad on page 98

Sewer Shield Composites, LLC

4702 E Virginia St.
Mesa, AZ 85215
480-830-9537 • Fax: 480-380-4461
info@sewershieldcomposites.com
www.sewershieldcomposites.com

SewerLock

81636 Impala Dr.
La Quinta, CA 92253
408-761-5882 • Fax: 760-771-0933
dave@sewerlock.com
www.sewerlock.com
Ad on page 111

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Simple Solutions Distributing, LLC

6 Jacobs Rd.
West Milford, NJ 07480
866-667-8465 • 973-846-7817
Fax: 973-858-0219
sales@industrialodorcontrol.com
www.IndustrialOdorControl.com
Ad on page 111

SpectraShield Liner Systems

PO Box 24354
Jacksonville, FL 32241
800-284-2030 • 904-268-4951
Fax: 904-268-4923
info@ccispectrum.com
www.spectrashield.com
Ad on page 111

Stephen's Technologies, Inc.

31004 Hwy 27
Lake Hamilton, FL 33851
888-783-7436 • Fax: 863-439-3755
stephentechnologies@yahoo.com
www.stephentechnology.com
Ad on page 101

Sto-Away Power Cranes, Inc.

9306 Grand Blvd.
Crown Point, IN 46307
800-622-9797 • 219-942-9797
Fax: 219-947-2503
stoaway@comcast.net
www.stoaway.com
Ad on page 22

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Super Products LLC

17000 W Cleveland Ave.
New Berlin, WI 53151
800-837-9711 • Fax: 262-784-9561
info@superproductscorp.com
www.superproductscorp.com



Superior Signal Company, LLC

PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27



T & T Tools, Inc.

PO Box 531
Spring Lake, MI 49456
800-521-6893 • 616-296-0623
Fax: 800-521-3260
sales@tandttools.com
www.mightyprobe.com
Ad on page 48

Telespector Corp.

1460 Opdyke Rd.
Auburn Hills, MI 48326
800-929-4399 • 248-373-5400
Fax: 248-377-2250
info@telespector.com
www.telespector.com

The Man Pan

309 Buffalo Ridge Rd.
McMurray, PA 15317
724-942-9500 • Fax: 724-942-7591
johnmanning@themanpan.com
www.themanpan.com

The Strong Company, Inc.

4505 Emmet Sanders Rd.
Pine Bluff, AR 71601
800-982-8009 • Fax: 870-850-6933
info@strongseal.com
www.strongseal.com
Ad on page 49

TRIC Tools, Inc.

2317 Blanding Ave., Ste. D
Alameda, CA 94501
888-883-8742 • 510-865-8742
Fax: 510-217-9493
john.afferty@trictrenchless.com
www.trictools.com

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

Turbo Fog/Div. of Kingscote Industries

3334 S Tech Blvd.
Miamisburg, OH 45342
800-394-0678 • 937-886-9100
Fax: 937-886-9300
sales@turbo-fog.com
www.turbo-fog.com
Ad on page 110

TV Ferret, Inc.

840 State Rte. 50
Burnt Hills, NY 12027
518-399-2211 • Fax: 518-399-3118
info@tvferret.com
www.tvferret.com
Ad on page 20



US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

USB - Sewer Equipment Corporation

1700 Enterprise Way, Ste. 116
Marietta, GA 30067
866-408-2814 • 770-984-8880
Fax: 770-984-2802
info@usbsec.com
www.USBSEC.com
Ad on page 96



Vac-Con, Inc.

969 Hall Park Dr.
Green Cove Springs, FL 32043
904-284-4200 • Fax: 904-284-3305
tomj@vac-con.com
www.vac-con.com
Ad on back page

Vactor Manufacturing

1621 S Illinois St.
Streator, IL 61364
800-627-3171 • 815-672-3171
Fax: 815-672-2779
sales@vactor.com
www.vactor.com
Ads on pages 3, 30 and 50

Vacuum Sales, Inc.

51 Stone Rd.
Lindenwold, NJ 08021
800-547-7790 • 856-627-7790
Fax: 856-627-3044
jredstreak@vacuumsalesinc.com
www.vacuumsalesinc.com

Vanair Manufacturing, Inc.

10896 W 300 N
Michigan City, IN 46360
800-526-8817 • 219-879-5100
Fax: 219-879-5800
sara.tilden@vanair.com
www.vanair.com
Ad on page 50



Vaporooter

1550 E Old 210 Hwy.
Liberty, MO 64068
800-841-1444
info@vaporooter.com
www.vaporooter.com
Ad on page 57



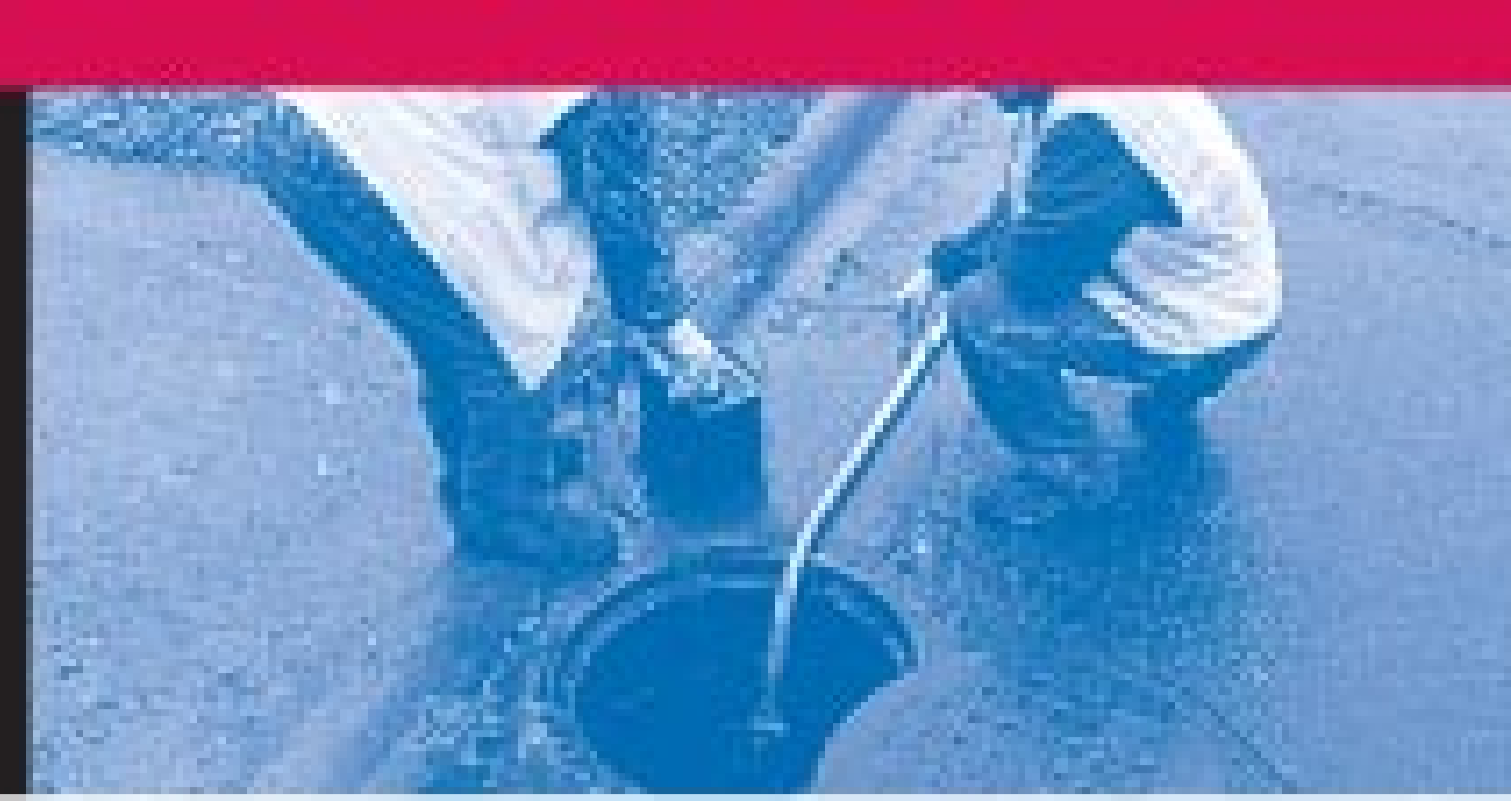
Western Mule Cranes

1510 Merced St.
Fresno, CA 93706
800-288-6853 • 559-266-6977
Fax: 559-266-7437
cranes@westernmule.com
www.westernmule.com
Ad on page 36



Zoeller Engineered Products

3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com



Category Listings

Alarms & Controls

Mil-Ram Technology, Inc.

4135 Business Center Dr.
Fremont, CA 94538
888-464-5726 • 510-656-2001
Fax: 510-656-2004
sls@mil-ram.com
www.mil-ram.com

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

Automated Meter Reading

Neptune Technology Group Inc.

1600 Alabama Hwy 229
Tallahassee, AL 36078
800-645-1892 • 334-283-6555
Fax: 334-283-7293
marketing@neptunetg.com
www.neptunetg.com

Bacteria/Chemicals - Septic/Grease

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

Chempace Corporation

339 Arco Dr.
Toledo, OH 43607
800-423-5350 • 419-535-0101
Fax: 419-535-0531
vhorvath@chempace.com
www.chempace.com
Ad on page 48

Helix Laboratories, Inc.

1420 Century Dr.
Carrollton, TX 75006
877-444-3549 • Fax: 972-323-9471
hank@helixlabs.com
www.helixlabs.com
Ad on page 27

HEMCO Corporation

711 S Powell Rd.
Independence, MO 64056
800-779-4362 • 816-796-2900
Fax: 816-796-3333
sales@HEMCOcorp.com
www.HEMCOcorp.com

Municipal Sales, Inc.

PO Box 4743
Queensbury, NY 12804
518-747-2044 • Fax: 518-747-5490
mark.reynolds@municipalsales.net
www.municipalsales.net
Ad on page 95



RootX, Inc.

1705 Salem Industrial Dr. NE
Salem, OR 97301
800-844-4974 • 503-364-2999
Fax: 503-485-5229
rootx@rootx.com
www.rootx.com
Ad on page 5

Safe-Tee Chemical Co.

7821 E. Acoma Dr.
Scottsdale, AZ 85260
480-968-6828 • Fax: 480-968-6776
michael@safetechemical.com
www.safetechemical.com
Ad on page 111

Simple Solutions Distributing, LLC

6 Jacobs Rd.
West Milford, NJ 07480
866-667-8465 • 973-846-7817
Fax: 973-858-0219
sales@industrialodorcontrol.com
www.IndustrialOdorControl.com
Ad on page 111

Bucket Machines

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
Ad on page 20

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98

Bumper Cranes

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

Sto-Away Power Cranes, Inc.

9306 Grand Blvd.
Crown Point, IN 46307
800-622-9797 • 219-942-9797
Fax: 219-947-2503
stoaway@comcast.net
www.stoaway.com
Ad on page 22

Western Mule Cranes

1510 Merced St.
Fresno, CA 93706
800-288-6853 • 559-266-6977
Fax: 559-266-7437
cranes@westernmule.com
www.westernmule.com
Ad on page 36

Cable Drain Cleaning Machines

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98



Electric Eel Mfg.

501 W Leffel Ln.
Springfield, OH 45501
800-833-1212 • 937-323-4644
Fax: 937-323-3767
info@electriceel.com
www.electriceel.com



General Pipe Cleaners/ Div. of General Wire Spring

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
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Sewer Equipment Co. of America

2111 Chestnut Ave. #270
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800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
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Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

Cable/ Cable Attachments

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
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Dynamic Cable Repair

40 Amot St. Unit 20
Lodi, NJ 07644
888-434-0151 • 973-478-0893
Fax: 973-478-0895
dynamiccablerepairs@yahoo.com
www.dynamicrepairs.net

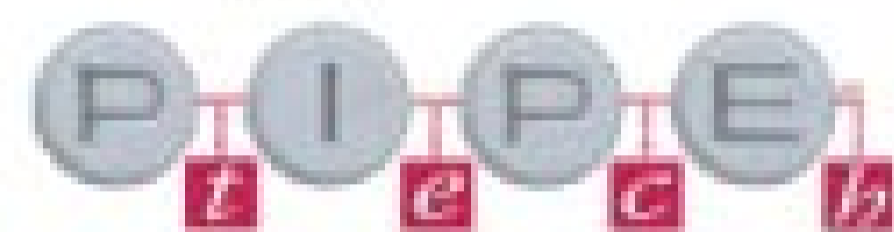
Electric Eel Mfg.

501 W Leffel Ln.
Springfield, OH 45501
800-833-1212 • 937-323-4644
Fax: 937-323-3767
info@electriceel.com
www.electriceel.com



Pipeline Analytics
PO Box 15513
Pittsburgh, PA 15244
877-626-8386
wincan@pipelineanalytics.com
www.pipelineanalytics.com
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PipeLogix, Inc.
PO Box 14014
Palm Desert, CA 92255
866-299-3150 • 760-779-1700
Fax: 760-406-6023
joan.stone@pipelogix.com
www.flexi-data.com
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PipeTech® Software
555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetech.tv
www.pent.com
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POSM
(Pipeline Observation System Management)
PO Box 1037
Mount Sterling, KY 40353
859-274-0041 • Fax: 707-238-1478
info@POSM.us
www.POSM.us
Ad on page 30

Ratech Electronics LTD
260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
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RS Technical Services, Inc.
1327 Clegg St.
Petaluma, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobog@rstechserv.com
www.rstechserv.com
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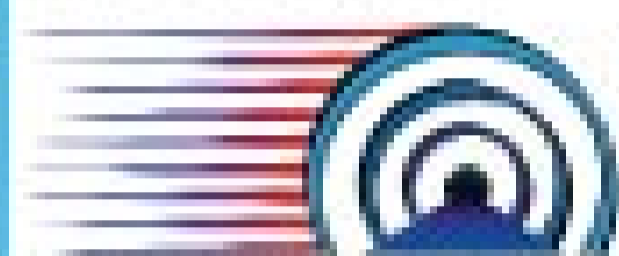


Brown and Caldwell
201 N Civic Dr.
Walnut Creek, CA 94596
800-727-2224 • Fax: 925-937-9026
info@brwncald.com
www.brownandcaldwell.com

Data Loggers

ADS Environmental Services
4940 Research Dr.
Huntsville, AL 35805
800-633-7246 • 256-430-3366
Fax: 256-430-6633
adssales@idexcorp.com
www.adsenv.com
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Aries Industries, Inc.
550 Elizabeth St.
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800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
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Cobra Technologies
4806 Wright Dr. Bldg. C
Smyrna, GA 30089
800-443-3761 • 770-435-8991
Fax: 770-435-0402
sales@cobratec.com
www.cobratec.com

E.H. Wachs
600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
Ad on page 7

Neptune Technology Group Inc.
1600 Alabama Hwy 229
Tallahassee, AL 36078
800-645-1892 • 334-283-6555
Fax: 334-283-7293
marketing@neptunetg.com
www.neptunetg.com

PipeLogix, Inc.
PO Box 14014
Palm Desert, CA 92255
866-299-3150 • 760-779-1700
Fax: 760-406-6023
joan.stone@pipelogix.com
www.flexi-data.com
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PO Box 1037
Mount Sterling, KY 40353
859-274-0041 • Fax: 707-238-1478
info@POSM.us
www.POSM.us
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Decals/Magnets/ Signage/Labels

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PO Box 2848
Anaheim, CA 92804
714-563-9749 • Fax: 714-776-6208
Sales@QuantumMarkers.com
www.QuantumMarkers.com
Ad on page 111

Detection Equipment

ADS Environmental Services
4940 Research Dr.
Huntsville, AL 35805
800-633-7246 • 256-430-3366
Fax: 256-430-6633
adssales@idexcorp.com
www.adsenv.com
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Arizona Instrument, LLC
3375 N Delaware St.
Chandler, AZ 85225
800-528-7411 • 602-470-1414
Fax: 602-281-1744
marketing@azic.com
www.azic.com
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**General Pipe Cleaners/
Div. of General Wire Spring**
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800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
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Mil-Ram Technology, Inc.
4135 Business Center Dr.
Fremont, CA 94538
888-464-5726 • 510-656-2001
Fax: 510-656-2004
sls@mil-ram.com
www.mil-ram.com

Neptune Technology Group Inc.
1600 Alabama Hwy 229
Tallahassee, AL 36078
800-645-1892 • 334-283-6555
Fax: 334-283-7293
marketing@neptunetg.com
www.neptunetg.com

RIDGID
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800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
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Triple R Specialty
PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
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Dewatering

BakerCorp
3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-225-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Carylon Corporation
2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
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E.H. Wachs
600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
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Fluid Technology, Inc.
PO Box 937
Oxford, OH 45056
513-981-7808 • Fax: 513-756-1995
info@fluidtechinc.net
www.fluidtechinc.net
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Zoeller Engineered Products
3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com

Directional Drilling

Pow-R Mole Sales, LLC
1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Easement Machine

Jack Doheny Supplies, Inc.
777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
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M Tech Company
7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
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Education

ENZ USA, Inc.
1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
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Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99


RapidView IBAK North America

1828 W Olson Rd.
Rochester, IN 46975
800-656-4225 • 574-223-5426
Fax: 574-223-7953
info@rapidview.com
www.rapidview.com
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Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
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Rausch Electronics USA, LLC

370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtv.com
www.rauschtv-usa.com
Ad on page 48


RS Technical Services, Inc.

1327 Clegg St.
Petaluma, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobg@rstechserv.com
www.rstechserv.com
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2111 Chestnut Ave. #270
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800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequipment.com
www.sewerequipment.com
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SMOKE**
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PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27

Telespector Corp.

1460 Opdyke Rd.
Auburn Hills, MI 48326
800-929-4399 • 248-373-5400
Fax: 248-377-2250
info@telespector.com
www.telespector.com

Triple R Specialty

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Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
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TV Ferret, Inc.

840 State Rte. 50
Burnt Hills, NY 12027
518-399-2211 • Fax: 518-399-3118
info@tvferret.com
www.tvferret.com
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**Inspection - Manhole/
Confined Space**
ADS Environmental Services

4940 Research Dr.
Huntsville, AL 35805
800-633-7246 • 256-430-3366
Fax: 256-430-6633
adssales@idexcorp.com
www.adsserv.com
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Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
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BigsEasyLift

4242 Chowen Ave. N
Robbinsdale, MN 55422
866-926-5438 • Fax: 866-271-9057
info@bigseasylift.com
www.bigseasylift.com

Carylon Corporation

2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
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Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
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CUES, Inc.

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97

ECA-SSI

5358 S 125th E Ave.
Tulsa, OK 74146
800-843-4764 • 918-810-9131
Fax: 918-250-4502
rfinney@eca-ssi.com
www.eca-ssi.com
Ad on page 28

Environmental Coatings

4702 E Virginia St.
Mesa, AZ 85215
480-984-7608 • Fax: 480-380-4461
info@sewershield.com
www.sewershield.com


Envirosight, LLC

111 Canfield Ave., Unit. B3
Randolph, NJ 07869
866-936-8476 • 973-252-6700
Fax: 973-252-1176
mail@envirosight.com
www.envirosight.com
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JPCI Services

4702 E Virginia St.
Mesa, AZ 85215
480-986-1212 • Fax: 480-380-4461
info@jpciservices.com
www.jpciservices.com

M Tech Company

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Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcchen@mttechcompany.com
www.mtechcompany.com
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Pearpoint, Inc.

72055 Corporate Way
Thousand Palms, CA 92276
800-688-8094 • 760-343-7350
Fax: 760-343-7351
pearpoint.sales.us@spix.com
www.radiodetection.com
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PipeLogix, Inc.

PO Box 14014
Palm Desert, CA 92255
866-299-3150 • 760-779-1700
Fax: 760-406-6023
joan.stone@pipelogix.com
www.flexi-data.com
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PipeTech® Software

555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetech.tv
www.pent.com
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Poly-Triplex Technologies, Inc.

PO Box 398
Bonifay, FL 32425
850-547-9999 • Fax: 850-547-9990
info@poly-triplex.com
www.poly-triplex.com
Ad on page 110


RapidView IBAK North America

1828 W Olson Rd.
Rochester, IN 46975
800-656-4225 • 574-223-5426
Fax: 574-223-7953
info@rapidview.com
www.rapidview.com
Ad on page 37

Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
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RS Technical Services, Inc.

1327 Clegg St.
Petaluma, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobg@rstechserv.com
www.rstechserv.com
Ad on page 92

Telespector Corp.

1460 Opdyke Rd.
Auburn Hills, MI 48326
800-929-4399 • 248-373-5400
Fax: 248-377-2250
info@telespector.com
www.telespector.com

TV Ferret, Inc.

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Burnt Hills, NY 12027
518-399-2211 • Fax: 518-399-3118
info@tvferret.com
www.tvferret.com
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Inspection - Water Lines

ADS Environmental Services

4940 Research Dr.
Huntsville, AL 35805
800-633-7246 • 256-430-3366
Fax: 256-430-6633
adssales@idexcorp.com
www.adserv.com
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Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

ECA-SSI

5358 S 125th E Ave.
Tulsa, OK 74146
800-843-4764 • 918-810-9131
Fax: 918-250-4502
rfinney@eca-ssi.com
www.eca-ssi.com
Ad on page 28



Envirosight, LLC

111 Canfield Ave., Unit. B3
Randolph, NJ 07869
866-936-8476 • 973-252-6700
Fax: 973-252-1176
mail@envirosight.com
www.envirosight.com
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PipeTech® Software

555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetechtv
www.pent.com
Ad on page 110

Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
Ad on page 38



Rausch Electronics USA, LLC

370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtv.com
www.rauschtv-usa.com
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RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
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Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
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Instrumentation - Process Control

Arizona Instrument, LLC

3375 N Delaware St.
Chandler, AZ 85225
800-528-7411 • 602-470-1414
Fax: 602-281-1744
marketing@azic.com
www.azic.com
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Jet/Vac Combination Machines

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
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E.H. Wachs

600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
Ad on page 7



ENZ USA, Inc.

1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
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GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Hi-Vac Corporation/Aquatech

117 Industry Rd.
Marietta, OH 45750
800-800-1016 • Fax: 740-374-5447
sales@hi-vac.com
www.hi-vac.com
Ad on page 114

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
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Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
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KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
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Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
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Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
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Super Products LLC

17000 W Cleveland Ave.
New Berlin, WI 53151
800-837-9711 • Fax: 262-784-9561
info@superproductscorp.com
www.superproductscorp.com



Vac-Con, Inc.

969 Hall Park Dr.
Green Cove Springs, FL 32043
904-284-4200 • Fax: 904-284-3305
tomj@vac-con.com
www.vac-con.com
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Vactor Manufacturing

1621 S Illinois St.
Streator, IL 61364
800-627-3171 • 815-672-3171
Fax: 815-672-2779
sales@vactor.com
www.vactor.com
Ads on pages 3, 30 and 50

Jettors - Portable

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103



Cam Spray

520 Brooks Rd.
Iowa Falls, IA 50126
800-648-5011 • 641-648-5011
Fax: 641-648-5013
gillespie@camspray.com
www.camspray.com
Ad on page 36

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Chempure Products Corp.

PO Box 740
Bolivar, OH 44612
800-288-7873 • 330-874-4300
Fax: 330-874-4448
chempure@gmail.com
www.chempure.com
Ad on page 8


Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Electric Eel Mfg.

501 W Leffel Ln.
Springfield, OH 45501
800-833-1212 • 937-323-4644
Fax: 937-323-3767
info@electriceel.com
www.electriceel.com

ENZ USA, Inc.

1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
Ad on page 107

Gamajet Cleaning Systems, Inc.

604 Jeffers Cir.
Exton, PA 19341
877-426-2538 • 610-408-9940
Fax: 610-408-9945
sales@gamajet.com
www.gamajet.com
Ad on page 12

General PIPE CLEANERS

**General Pipe Cleaners/
Div. of General Wire Spring**

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Hi-Vac Corporation/Aquatech

117 Industry Rd.
Marietta, OH 45750
800-800-1016 • Fax: 740-374-5447
sales@hi-vac.com
www.hi-vac.com
Ad on page 114

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-9944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

NozzTeq®, Inc.

1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Reelcraft Industries, Inc.

2842 E Business Hwy 30
Columbia City, IN 46725
800-444-3134 • 260-248-8188
Fax: 260-248-2605
reelcraft@reelcraft.com
www.reelcraft.com
Ad on page 111

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequipment.com
www.sewerequipment.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

Jetters - Truck & Trailer

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103


Cam Spray

520 Brooks Rd.
Iowa Falls, IA 50126
800-648-5011 • 641-648-5011
Fax: 641-648-5013
gillespie@camspray.com
www.camspray.com
Ad on page 36

ENZ USA INC

ENZ USA, Inc.

1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
Ad on page 107

**General Pipe Cleaners/
Div. of General Wire Spring**

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Hi-Vac Corporation/Aquatech

117 Industry Rd.
Marietta, OH 45750
800-800-1016 • Fax: 740-374-5447
sales@hi-vac.com
www.hi-vac.com
Ad on page 114

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@doheny-supplies.com
www.doheny-supplies.com
Ad on page 20

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-9944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Reelcraft Industries, Inc.

2842 E Business Hwy 30
Columbia City, IN 46725
800-444-3134 • 260-248-8188
Fax: 260-248-2605
reelcraft@reelcraft.com
www.reelcraft.com
Ad on page 111

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequipment.com
www.sewerequipment.com
Ad on page 98

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Super Products LLC

17000 W Cleveland Ave.
New Berlin, WI 53151
800-837-9711 • Fax: 262-784-9561
info@superproductscorp.com
www.superproductscorp.com

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111



Vac-Con, Inc.

969 Hall Park Dr.
Green Cove Springs, FL 32043
904-284-4200 • Fax: 904-284-3305
tomj@vac-con.com
www.vac-con.com
Ad on back page



Vactor Manufacturing

1621 S Illinois St.
Streator, IL 61364
800-627-3171 • 815-672-3171
Fax: 815-672-2779
sales@vactor.com
www.vactor.com
Ads on pages 3, 30 and 50

Vacuum Sales, Inc.

51 Stone Rd.
Lindenwold, NJ 08021
800-547-7790 • 856-627-7790
Fax: 856-627-3044
jredstreak@vacuumssalesinc.com
www.vacuumssalesinc.com

Laser Equipment



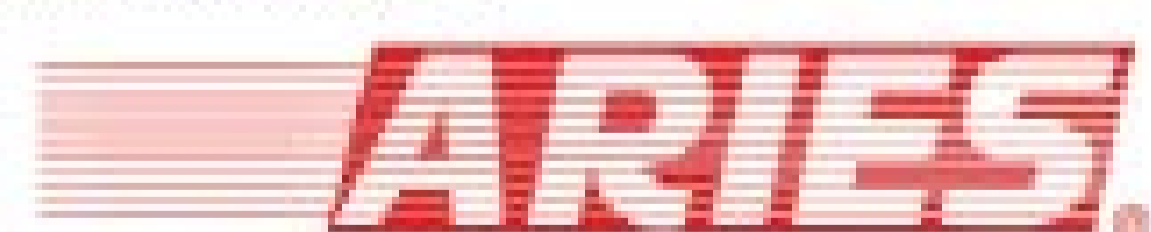
Laser Specialists, Inc.

19879 W 156th
Olathe, KS 66062
800-377-4272 • 913-780-9990
Fax: 913-780-9815
sales@lasergps.com
www.lasergps.com

Laser Profiling

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54



Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

"The Standard of the Industry"



CUES, Inc.

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97



Envirosight, LLC

111 Canfield Ave., Unit. B3
Randolph, NJ 07869
866-936-8476 • 973-252-6700
Fax: 973-252-1176
mail@envirosight.com
www.envirosight.com
Ad on page 13

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110



Rausch Electronics USA, LLC

370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtv.com
www.rauschtv-usa.com
Ad on page 48



RS Technical Services, Inc.

1327 Clegg St.
Petaluma, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobg@rstechserv.com
www.rstechserv.com
Ad on page 92

Sekisui SPR Americas, LLC

1045 Research Center Atlanta Dr., Ste. F
Atlanta, GA 30331
866-627-7772 • 678-510-1820
Fax: 678-510-1826
info@sekisui-spr.com
www.sekisui-spr.com
Ad on page 110

Leasing/Financing Services

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

Liquid Level Indicator

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

SERFILCO, Ltd.

2900 MacArthur Blvd.
Northbrook, IL 60062
847-509-2900 • Fax: 847-559-1995
sales@serfilco.com
www.serfilco.com
Ad on page 30

Locators - Pipe/Leak/ Valve/Sewer

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

E.H. Wachs

600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
Ad on page 7

General Pipe Cleaners/ Div. of General Wire Spring

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Insight Vision

600 Dekora Woods Blvd.
Saukville, WI 53080
800-488-8177 • 262-268-9950
Fax: 262-268-9952
casey@insightvisioncameras.com
www.insightvisioncameras.com

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

Laser Specialists, Inc.

19879 W 156th
Olathe, KS 66062
800-377-4272 • 913-780-9990
Fax: 913-780-9815
sales@lasergps.com
www.lasergps.com

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9, Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
Ad on page 38

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Superior Signal Company, LLC

PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27


Triple R Specialty

PO Box 60671
 Jacksonville, FL 32236
 800-356-9661 • Fax: 904-786-0911
 sales@triplerspecialty.com
 www.triplerspecialty.com
 www.cole-mart.com/triplerspecialty
 Ad on page 18

USABlueBook

PO Box 9006
 Gurnee, IL 60031
 800-548-1234 • 847-689-3000
 Fax: 847-689-3030
 customerservice@usabluebook.com
 www.usabluebook.com
 Ad on page 109


Vactor Manufacturing

1621 S Illinois St.
 Streator, IL 61364
 800-627-3171 • 815-672-3171
 Fax: 815-672-2779
 sales@vactor.com
 www.vactor.com
 Ads on pages 3, 30 and 50

Locators-Electronic

Advanced Infrastructure Technologies

3055 Kashiwa St.
 Torrance, CA 90505
 310-534-4000 • Fax: 310-534-4020
 jp@advancedworld.com
 www.advancedworld.com
 Ad on page 54

Dynamic Cable Repair

40 Annot St. Unit 20
 Lodi, NJ 07644
 888-434-0151 • 973-478-0893
 Fax: 973-478-0895
 dynamiccablerepairs@yahoo.com
 www.dynamicrepairs.net

Electric Eel Mfg.

501 W Leffel Ln.
 Springfield, OH 45501
 800-833-1212 • 937-323-4644
 Fax: 937-323-3767
 info@electriceel.com
 www.electriceel.com

**General Pipe Cleaners/
 Div. of General Wire Spring**

1101 Thompson Ave.
 McKees Rocks, PA 15136
 800-245-6200 • 412-771-6300
 Fax: 412-771-2771
 info@drainbrain.com
 www.drainbrain.com
 Ad on page 35

Insight Vision

600 Dekora Woods Blvd.
 Saukville, WI 53080
 800-488-8177 • 262-268-9950
 Fax: 262-268-9952
 casey@insightvisioncameras.com
 www.insightvisioncameras.com

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
 Lancaster, NY 14086
 800-344-6653 • 716-683-2486
 Fax: 716-683-6372
 brian@powrmole.com
 www.powrmole.com
 Ad on page 99


Prototek Corporation

PO Box 1700
 Poulsbo, WA 98370
 800-541-9123 • 360-779-1310
 Fax: 360-779-1510
 prototeksales@prototek.net
 www.prototek.net
 Ad on page 22

RapidView IBAK North America

1828 W Olson Rd.
 Rochester, IN 46975
 800-656-4225 • 574-223-5426
 Fax: 574-223-7953
 info@rapidview.com
 www.rapidview.com
 Ad on page 37

Ratech Electronics LTD

260-7 Spinnaker Way
 Concord, ON L4K 4P9 Canada
 800-461-9200 • 905-660-7072
 Fax: 905-660-1519
 sales@ratech-electronics.com
 www.ratech-electronics.com
 Ad on page 38

RIDGID

400 Clark St.
 Elyria, OH 44035
 800-769-7743 • 440-323-5581
 Fax: 440-329-4551
 info@RIDGID.com
 www.RIDGID.com
 Ad on page 11

RS Technical Services, Inc.

1327 Clegg St.
 Petaluma, CA 94954
 800-767-1974 • 707-778-1974
 Fax: 707-778-1981
 bobg@rstechserv.com
 www.rstechserv.com
 Ad on page 92

Triple R Specialty

PO Box 60671
 Jacksonville, FL 32236
 800-356-9661 • Fax: 904-786-0911
 sales@triplerspecialty.com
 www.triplerspecialty.com
 www.cole-mart.com/triplerspecialty
 Ad on page 18

USABlueBook

PO Box 9006
 Gurnee, IL 60031
 800-548-1234 • 847-689-3000
 Fax: 847-689-3030
 customerservice@usabluebook.com
 www.usabluebook.com
 Ad on page 109

Locators-Smoke/Dye

ADS Environmental Services

4940 Research Dr.
 Huntsville, AL 35805
 800-633-7246 • 256-430-3366
 Fax: 256-430-6633
 adssales@idexcorp.com
 www.adsenv.com
 Ad on page 96


**Bright Dyes/
 Div. of Kingscote Chemicals**

3334 S Tech Blvd.
 Miamisburg, OH 45342
 800-394-0678 • 937-886-9100
 Fax: 937-886-9300
 sales@brightdyes.com
 www.brightdyes.com
 Ad on page 110

Carylon Corporation

2500 W Arthington St.
 Chicago, IL 60612
 800-621-4342 • 312-666-7700
 Fax: 312-666-5810
 info@caryloncorp.com
 www.caryloncorp.com
 Ad on page 19

Cherne Industries, Inc.

5700 Lincoln Dr.
 Minneapolis, MN 55436
 800-843-7584 • Fax: 800-843-7585
 cbozas@oatey.com
 www.cherneind.com

Cloverleaf Tool Co.

PO Box 1338
 Tallevast, FL 34270
 800-365-6583 • 941-739-0707
 Fax: 941-739-0001
 sales@cloverleaftool.com
 www.cloverleaftool.com
 Ads on pages 34, 110 and 111

M Tech Company

7401 First Place
 Cleveland, OH 44146
 800-362-0240 • 440-646-0996
 Fax: 440-646-9953
 bcohen@mtechcompany.com
 www.mtechcompany.com
 Ad on page 110

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
 New Smyrna Beach, FL 32168
 800-635-2323 • Fax: 386-427-4552
 csewerequipment@cfl.rr.com
 www.sewerekquipmentco.com
 Ad on page 110

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
 Baton Rouge, LA 70815
 800-633-7696 • 225-275-7696
 Fax: 225-275-1340
 shamrocktools@shamrocktools.com
 www.shamrocktools.com
 Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
 www.streetandsewer.com
 Ad on page 31

Superior SMOKE

Superior Signal Company, LLC

PO Box 96
 Spotswood, NJ 08884
 800-945-8378 • 732-251-0800
 Fax: 732-251-9442
 info@superiorsignal.com
 www.superiorsignal.com
 Ad on page 27


Turbo Fog/Div. of Kingscote Industries

3334 S Tech Blvd.
 Miamisburg, OH 45342
 800-394-0678 • 937-886-9100
 Fax: 937-886-9300
 sales@turbo-fog.com
 www.turbo-fog.com
 Ad on page 110

USABlueBook

PO Box 9006
 Gurnee, IL 60031
 800-548-1234 • 847-689-3000
 Fax: 847-689-3030
 customerservice@usabluebook.com
 www.usabluebook.com
 Ad on page 109

Manhole Inserts

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
 Hilliard, OH 43026
 800-821-6710 • Fax: 614-658-0204
 info@ads-pipe.com
 www.ads-pipe.com
 Ad on page 29

McGard

3875 California Rd.
 Orchard Park, NY 14127
 888-888-9192 • 716-662-8980
 Fax: 716-662-8985
 rglass@mcgard.com
 www.mcgard.com/security
 Ad on page 103

Parson Environmental Products, Inc.

PO Box 4474
 Reading, PA 19606
 800-356-9023 • 610-582-6060
 Fax: 610-582-6064
 sales@parsonenvironmental.com
 www.parsonenvironmental.com

Sealing Systems, Inc.

9350 County Rd. 19
 Loretto, MN 55357
 800-478-2054 • 763-478-2057
 Fax: 763-478-8868
 pam@ssisealingsystems.com
 www.ssisealingsystems.com



Sewer Shield Composites, LLC

4702 E Virginia St.
Mesa, AZ 85215
480-830-9537 • Fax: 480-380-4461
info@sewershieldcomposites.com
www.sewershieldcomposites.com

SewerLock

81636 Impala Dr.
La Quinta, CA 92253
408-761-5882 • Fax: 760-771-0933
dave@sewerlock.com
www.sewerlock.com
Ad on page 111



The Man Pan

309 Buffalo Ridge Rd.
McMurray, PA 15317
724-942-9500 • Fax: 724-942-7591
johnmanning@themanpan.com
www.themanpan.com

**Manhole Parts/
Components**

American Highway Products, Ltd.

11723 Strasbury Bolivar Rd. NW
Bolivar, OH 44612
888-272-2397 • 330-874-3270
Fax: 330-874-3800
sales@ahp1.com
www.ahp1.com
Ad on page 18

BigEasyLift

4242 Chowen Ave. N
Robbinsdale, MN 55422
866-926-5438 • Fax: 866-271-9057
info@bigseasylift.com
www.bigseasylift.com

Industrial Diversified Products, Inc.

PO Box 427
Daphne, AL 36526
251-626-9143 • Fax: 251-625-8873
sales@tilfts.com
www.tilfts.com
Ad on page 111

McGard

3875 California Rd.
Orchard Park, NY 14127
888-888-9192 • 716-662-8980
Fax: 716-662-8985
rglass@mcgard.com
www.mcgard.com/security
Ad on page 103

Municipal Services, Inc.

420 Boston Tpke.
Shrewsbury, MA 01545
508-842-8901 • Fax: 508-842-9648
rapocushion@yahoo.com
www.rap-o.biz
Ad on page 20

Parson Environmental Products, Inc.

PO Box 4474
Reading, PA 19606
800-356-9023 • 610-582-6060
Fax: 610-582-6064
sales@parsonenvironmental.com
www.parsonenvironmental.com

Reliner/Duran, Inc.

53 Mt. Archer Rd.
Lyme, CT 06371-3130
800-508-6001 • 860-434-0277
Fax: 860-434-3195
durand@reliner.com
www.reliner.com
Ad on page 43

SewerLock

81636 Impala Dr.
La Quinta, CA 92253
408-761-5882 • Fax: 760-771-0933
dave@sewerlock.com
www.sewerlock.com
Ad on page 111

Simple Solutions Distributing, LLC

6 Jacobs Rd.
West Milford, NJ 07480
866-667-8465 • 973-846-7817
Fax: 973-858-0219
sales@industrialodorcontrol.com
www.IndustrialOdorControl.com
Ad on page 111

Stephen's Technologies, Inc.

31004 Hwy 27
Lake Hamilton, FL 33851
888-783-7436 • Fax: 863-439-3755
stephenstechnologies@yahoo.com
www.stephentech.com
Ad on page 101

The Man Pan

309 Buffalo Ridge Rd.
McMurray, PA 15317
724-942-9500 • Fax: 724-942-7591
johnmanning@themanpan.com
www.themanpan.com

Manhole Rehabilitation

American Highway Products, Ltd.

11723 Strasbury Bolivar Rd. NW
Bolivar, OH 44612
888-272-2397 • 330-874-3270
Fax: 330-874-3800
sales@ahp1.com
www.ahp1.com
Ad on page 18

AP/M Permaform

PO Box 555
Johnston, IA 50131
800-662-6465 • Fax: 515-276-1274
joecherry@permaform.net
www.permaform.net
Ad on page 28

Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

Avanti International

822 Bay Star Blvd.
Webster, TX 77598
800-877-2570 • 281-486-5600
Fax: 281-486-7300
sales@avantigrout.com
www.avantigrout.com
Ad on page 33

BigEasyLift

4242 Chowen Ave. N
Robbinsdale, MN 55422
866-926-5438 • Fax: 866-271-9057
info@bigseasylift.com
www.bigseasylift.com



Carboline

2150 Schuetz Rd.
St. Louis, MO 63146
800-848-6445 • 314-644-1000
Fax: 314-644-2246
mbentley@carboline.com
www.carboline.com
Ad on page 23

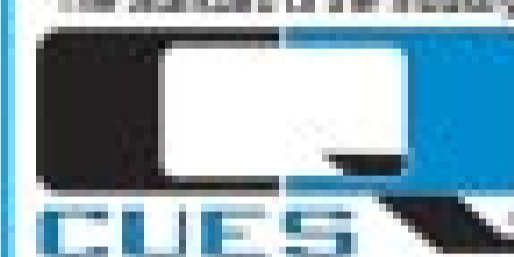
Carylon Corporation

2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
Ad on page 19

Cherne Industries, Inc.

5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

"The Standard of the Industry"



CUES, Inc.

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97

Duke's Root Control, Inc.

1020 Hiawatha Blvd. W
Syracuse, NY 13204
800-447-6687 • 315-472-4781
Fax: 315-475-4203
lynn@dukes.com
www.dukes.com



Environmental Coatings

4702 E Virginia St.
Mesa, AZ 85215
480-984-7608 • Fax: 480-380-4461
info@sewershield.com
www.sewershield.com

Epoxytec, Inc.

5889 SW 21st St.
West Park, FL 33023
877-463-7699 • 954-961-4656
Fax: 954-961-2395
mswads@epoxytec.com
www.epoxytec.com
Ad on page 107

EZ Grout Corporation

405 Watertown Rd.
Waterford, OH 45786
888-344-7688 • 740-749-5844
Fax: 740-749-0602
tskinner@ezgrout.com
www.ezgrout.com
Ad on page 13

Infrastructure Repair Systems, Inc.

4301 A 34th St. N
St. Petersburg, FL 33714
877-327-4216 • 727-327-4216
Fax: 727-327-4118
irsi@irsi.net
www.irsi.net
Ad on page 22



JPCI Services

4702 E Virginia St.
Mesa, AZ 85215
480-986-1212 • Fax: 480-380-4461
info@jpciservices.com
www.jpciservices.com



LMK Technologies

1779 Chessie Ln.
Ottawa, IL 61350
815-433-1275 • Fax: 815-433-0107
sales@lmkenterprises.com
www.performanceliner.com
Ad on page 115

Logiball, Inc.

440 Papin St.
Quebec, QC G1P 3T9 Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109

Mr. Manhole Systems

125 S Canal St.
Delphos, OH 45833
419-229-3015 • Fax: 419-692-1900
sales@mrmanhole.com
www.mrmanhole.com
Ad on page 10

Municipal Services, Inc.

420 Boston Tpke.
Shrewsbury, MA 01545
508-842-8901 • Fax: 508-842-9648
rapocushion@yahoo.com
www.rap-o.biz
Ad on page 20



Parson Environmental Products, Inc.

PO Box 4474
Reading, PA 19606
800-356-9093 • 610-582-6060
Fax: 610-582-6064
sales@parsonenvironmental.com
www.parsonenvironmental.com



Perma-Liner Industries, Inc.

13000 Automobile Blvd., Ste. 300
Clearwater, FL 33762
866-336-2568 • 727-507-9749
Fax: 727-507-9849
info@perma-liner.com
www.perma-liner.com
Ad on page 9

PipeTech® Software

555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetech.tv
www.pent.com
Ad on page 110



Poly-Triplex Technologies, Inc.

PO Box 398
Bonifay, FL 32425
850-547-9999 • Fax: 850-547-9990
info@poly-triplex.com
www.poly-triplex.com
Ad on page 110

Reliner/Duran, Inc.

53 Mt. Archer Rd.
Lyme, CT 06371-3130
800-508-6001 • 860-434-0277
Fax: 860-434-3195
durand@reliner.com
www.reliner.com
Ad on page 43

Sealing Systems, Inc.

9350 County Rd. 19
Loretto, MN 55357
800-478-2054 • 763-478-2057
Fax: 763-478-8868
pam@sssealingsystems.com
www.sssealingsystems.com

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequipment@cflrr.com
www.sewerequipmentco.com
Ad on page 110

SewerLock

81636 Impala Dr.
La Quinta, CA 92253
408-761-5882 • Fax: 760-771-0933
dave@sewerlock.com
www.sewerlock.com
Ad on page 111

SpectraShield Liner Systems

PO Box 24354
Jacksonville, FL 32241
800-284-2030 • 904-268-4951
Fax: 904-268-4923
info@ccispectrum.com
www.spectrashield.com
Ad on page 111

Stephen's Technologies, Inc.

31004 Hwy 27
Lake Hamilton, FL 33851
888-783-7436 • Fax: 863-439-3755
stephentechnologies@yahoo.com
www.stephenstech.com
Ad on page 101

The Man Pan

309 Buffalo Ridge Rd.
McMurray, PA 15317
724-942-9500 • Fax: 724-942-7591
johnmanning@themanpan.com
www.themanpan.com

The Strong Company, Inc.

4505 Emmet Sanders Rd.
Pine Bluff, AR 71601
800-982-8009 • Fax: 870-850-6933
info@strongseal.com
www.strongseal.com
Ad on page 49

Manhole Vacuum Testing

Cherne Industries, Inc.

5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

Logiball, Inc.

440 Papin St.
Quebec, QC G1P 3T9 Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequipment@cflrr.com
www.sewerequipmentco.com
Ad on page 110

Meters - Sewer/Flow



Hach Flow Meter Products & Services

4539 Metropolitan Ct.
Frederick, MD 21704
800-368-2723 • 301-874-5599
Fax: 301-874-8459
hachflowsales@hach.com
www.hachflow.com
Ad on page 39

Meters - Water/Flow



Accusonic Technologies

28 Patterson Brook Rd.
West Wareham, MA 02576
508-273-9600 • Fax: 508-273-9699
accusonic@idexcorp.com
www.accusonic.com



ADS Environmental Services

4940 Research Dr.
Huntsville, AL 35805
800-633-7246 • 256-430-3366
Fax: 256-430-6633
adssales@idexcorp.com
www.adssenv.com
Ad on page 96



Hach Flow Meter Products & Services

4539 Metropolitan Ct.
Frederick, MD 21704
800-368-2723 • 301-874-5599
Fax: 301-874-8459
hachflowsales@hach.com
www.hachflow.com
Ad on page 39

Neptune Technology Group Inc.

1600 Alabama Hwy 229
Tallahassee, AL 36078
800-645-1892 • 334-283-6555
Fax: 334-283-7293
marketing@neptunetg.com
www.neptunetg.com

SERFILCO, Ltd.

2900 MacArthur Blvd.
Northbrook, IL 60062
847-509-2900 • Fax: 847-559-1995
sales@serfilco.com
www.serfilco.com
Ad on page 30

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

Nozzles - High Pressure

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allan Coleman.com
www.allan Coleman.com
Ad on page 103

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Chempure Products Corp.

PO Box 740
Bolivar, OH 44612
800-288-7873 • 330-874-4300
Fax: 330-874-4448
chempure@gmail.com
www.chempure.com
Ad on page 8

Cloverleaf Tool Co.

PO Box 1338
Tallevast, FL 34270
800-365-6583 • 941-739-0707
Fax: 941-739-0001
sales@cloverleaf.com
www.cloverleaf.com
Ads on pages 34, 110 and 111

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Environmental Products & Accessories, LLC

2733 Kanasita Dr., Ste. F
Hixson, TN 37343
866-448-5547 • 423-876-4366
Fax: 866-206-2628
info@epasales.com
www.epasales.com
Ad on page 44



ENZ USA, Inc.

1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusa.com
www.enzusa.com
Ad on page 107

Gamajet Cleaning Systems, Inc.

604 Jeffers Cir.
Exton, PA 19341
877-426-2538 • 610-408-9940
Fax: 610-408-9945
sales@gamajet.com
www.gamajet.com
Ad on page 12

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
Ad on page 20

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110



NozzTeq®, Inc.

1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cfl.com
www.sewerequisite.com
Ad on page 110

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Super Products LLC

17000 W Cleveland Ave.
New Berlin, WI 53151
800-837-9711 • Fax: 262-784-9561
info@superproducts.com
www.superproducts.com

Triple R Specialty

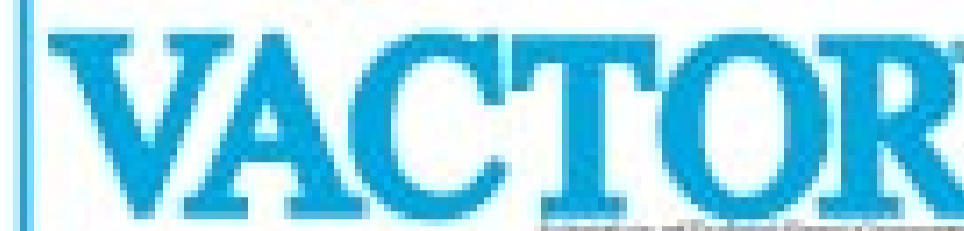
PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

USB - Sewer Equipment Corporation

1700 Enterprise Way, Ste. 116
Marietta, GA 30067
866-408-2814 • 770-984-8880
Fax: 770-984-2802
info@usbsec.com
www.USBSEC.com
Ad on page 96



Vactor Manufacturing

1621 S Illinois St.
Streator, IL 61364
800-627-3171 • 815-672-3171
Fax: 815-672-2779
sales@vactor.com
www.vactor.com
Ads on pages 3, 30 and 50

Odor Control Products

Chempace Corporation

339 Arco Dr.
Toledo, OH 43607
800-423-5350 • 419-535-0101
Fax: 419-535-0531
vhorvath@chempace.com
www.chempace.com
Ad on page 48



Helix Laboratories, Inc.

1420 Century Dr.
Carrollton, TX 75006
877-444-3549 • Fax: 972-323-9471
hank@helixlabs.com
www.helixlabs.com
Ad on page 27

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

Parson Environmental Products, Inc.

PO Box 4474
Reading, PA 19606
800-356-9023 • 610-582-6060
Fax: 610-582-6064
sales@parsonenvironmental.com
www.parsonenvironmental.com

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Safe-Tee Chemical Co.

7821 E. Acoma Dr.
Scottsdale, AZ 85260
480-968-6828 • Fax: 480-968-6776
michael@safetechechemical.com
www.safetechechemical.com
Ad on page 111

Simple Solutions Distributing, LLC

6 Jacobs Rd.
West Milford, NJ 07480
866-667-8465 • 973-846-7817
Fax: 973-858-0219
sales@industrialodorcontrol.com
www.IndustrialOdorControl.com
Ad on page 111

Superior Signal Company, LLC

PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27

**Oil Spill
Recovery/Clean-up**

Carylon Corporation

2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
Ad on page 19

Helix Laboratories, Inc.

1420 Century Dr.
Carrollton, TX 75006
877-444-3549 • Fax: 972-323-9471
hank@helixlabs.com
www.helixlabs.com
Ad on page 27

Safe-Tee Chemical Co.

7821 E. Acoma Dr.
Scottsdale, AZ 85260
480-968-6828 • Fax: 480-968-6776
michael@safetechechemical.com
www.safetechechemical.com
Ad on page 111

Padlocks

SewerLock

81636 Impala Dr.
La Quinta, CA 92253
408-761-5882 • Fax: 760-771-0933
dave@sewerlock.com
www.sewerlock.com
Ad on page 111

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

Piercing Equipment



Footage Tools, Inc.

54 Audia Ct.
Vaughan, ON L4K 3N4 Canada
888-737-3668 • 905-695-9900
Fax: 905-695-8874
footagetools@gmail.com
www.footagetools.com
Ad on page 111



Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Pipe - Concrete

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
Hilliard, OH 43026
800-821-6710 • Fax: 614-658-0204
info@ads-pipe.com
www.ads-pipe.com
Ad on page 29

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pipe - Polyethylene

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
Hilliard, OH 43026
800-821-6710 • Fax: 614-658-0204
info@ads-pipe.com
www.ads-pipe.com
Ad on page 29

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pipe - Polypropylene

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
Hilliard, OH 43026
800-821-6710 • Fax: 614-658-0204
info@ads-pipe.com
www.ads-pipe.com
Ad on page 29

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pipe - PVC

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-225-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pipe - Steel

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-225-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pipe Bursting

Allied Construction Products, LLC

3900 Kelley Ave.
Cleveland, OH 44114
800-321-1046 • 216-431-2600
Fax: 216-431-2601
Sales@AlliedCP.com
www.AlliedCP.com
Ad on page 45

Footage Tools, Inc.

54 Audia Ct.
Vaughan, ON L4K 3N4 Canada
888-737-3668 • 905-695-9900
Fax: 905-695-8874
footagetools@gmail.com
www.footagetools.com
Ad on page 111

Formadrain, Inc.

10121 Parkway
Montreal, QC H1J 1P7 Canada
888-337-6764
info@formadrain.com
www.formadrain.com
Ad on page 10

Jetter Depot

745 Atlanta Rd., Ste. 210
Cumming, GA 30040
678-549-2621 • Fax: 678-807-2944
sales@jetterdepot.com
www.jetterdepot.com
Ad on page 111

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

TRIC

breaking tradition.™

TRIC Tools, Inc.

2317 Blanding Ave., Ste. D
Alameda, CA 94501
888-883-8742 • 510-865-8742
Fax: 510-217-9493
johnrafferty@trictrenchless.com
www.trictools.com

Pipe Cutters

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

"The Standard of the Industry"



CUES, Inc.

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97

E.H. Wachs

600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
Ad on page 7



ICS Blount Inc.

4909 SE International Way
Portland, OR 97222
800-321-1240 • Fax: 503-653-4393
info@powergrit.com
www.powergrit.com
Ad on page 17

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cfl.fr.com
www.sewerequisiteco.com
Ad on page 110

Pipe Parts, Fittings, & Components

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
Hilliard, OH 43026
800-821-6710 • Fax: 614-658-0204
info@ads-pipe.com
www.ads-pipe.com
Ad on page 29

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

HYDRA-STOP®

Hydra-Stop

11700 S Cicero Ave.
Alsip, IL 60803
800-538-7867 • Fax: 708-389-5125
hydrastopsales@kdexcorp.com
www.hydra-stop.com
Ad on page 34

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Plastic Trends, Inc.

56400 Mound Rd.
Shelby Township, MI 48316
800-232-0888 • Fax: 586-781-0888
info@plasticrends.com
www.plasticrends.com
Ad on page 12

Reliner/Duran, Inc.

53 Mt. Archer Rd.
Lyme, CT 06371-3130
800-508-6001 • 860-434-0277
Fax: 860-434-3195
duran@reliner.com
www.reliner.com
Ad on page 43

Pipe Plugs

Advanced Drainage Systems, Inc.

4640 Trueman Blvd.
Hilliard, OH 43026
800-821-6710 • Fax: 614-658-0204
info@ads-pipe.com
www.ads-pipe.com
Ad on page 29

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54



Cherne Industries, Inc.

5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

Cloverleaf Tool Co.

PO Box 1338
Talleast, FL 34270
800-365-6583 • 941-739-0707
Fax: 941-739-0001
sales@cloverleaf.com
www.cloverleaf.com
Ads on pages 34, 110 and 111

Environmental Products & Accessories, LLC

2733 Kanasita Dr., Ste. F
Hixson, TN 37343
866-448-5547 • 423-876-4366
Fax: 866-206-2628
info@epasales.com
www.epasales.com
Ad on page 44

Logiball, Inc.

440 Papin St.
Quebec, QC G1P 3T9 Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mtechcompany.com
www.mtechcompany.com
Ad on page 110

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Savatech Corp.

413 Oak Pl. Bldg. 5-J
Port Orange, FL 32127
888-436-9778 • 386-760-0706
Fax: 386-760-8754
savatech@bellsouth.net
www.savatech.com
Ad on page 92

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequipment@cfltr.com
www.sewerekquipmentco.com
Ad on page 110

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerekquipment.com
www.sewerekquipment.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Pipe Threaders

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

Pipeline Rehabilitation/Lining

Applied Felts, Inc.

450 College Dr.
Martinsville, VA 24112
276-656-1904 • Fax: 276-656-1909
info@appliedfelts.com
www.appliedfelts.com
Ad on page 10

Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

Avanti International

822 Bay Star Blvd.
Webster, TX 77598
800-877-2570 • 281-486-5600
Fax: 281-486-7300
sales@avantigrout.com
www.avantigrout.com
Ad on page 33



Carboline

2150 Schuetz Rd.
St. Louis, MO 63146
800-848-6445 • 314-644-1000
Fax: 314-644-2246
mbentley@carboline.com
www.carboline.com
Ad on page 23

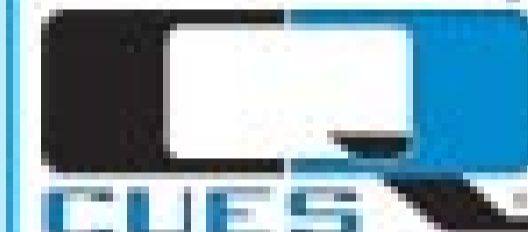
Carylon Corporation

2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
Ad on page 19

Cosmic TopHat, LLC

23135 Samuel St. #10
Torrance, CA 90505
424-558-9872
tophatchris@gmail.com
www.cosmic.at
Ad on page 51

"The Standard of the Industry"



CUES, Inc.

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97

Duke's Root Control, Inc.

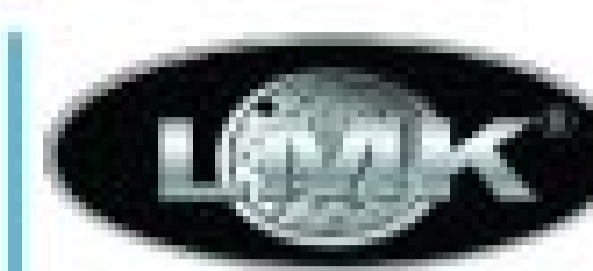
1020 Hiawatha Blvd. W
Syracuse, NY 13204
800-447-6687 • 315-472-4781
Fax: 315-475-4203
lynn@dukes.com
www.dukes.com

Formadrain, Inc.

10121 Parkway
Montreal, QC H1J 1P7 Canada
888-337-6764
info@formadrain.com
www.formadrain.com
Ad on page 10

Infrastructure Repair Systems, Inc.

4301 A 34th St. N
St. Petersburg, FL 33714
877-327-4216 • 727-327-4216
Fax: 727-327-4118
irsi@irsi.net
www.irsi.net
Ad on page 22



LMK Technologies

1779 Chessie Ln.
Ottawa, IL 61350
815-433-1275 • Fax: 815-433-0107
sales@lmkenterprises.com
www.performanceliner.com
Ad on page 115

Logiball, Inc.

440 Papin St.
Quebec, QC G1P 3T9 Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109



Perma-Liner Industries, Inc.

13000 Automobile Blvd., Ste. 300
Clearwater, FL 33762
866-336-2568 • 727-507-9749
Fax: 727-507-9849
info@perma-liner.com
www.perma-liner.com
Ad on page 9

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

PipeTech® Software

555 Ada Dr.
Ada, MI 49301
800-262-7817 • 616-676-9811
Fax: 616-676-9818
sales@pipetech.tv
www.pert.com
Ad on page 110

Poly-Triplex Technologies, Inc.

PO Box 398
Bonifay, FL 32425
850-547-9999 • Fax: 850-547-9990
info@poly-triplex.com
www.poly-triplex.com
Ad on page 110

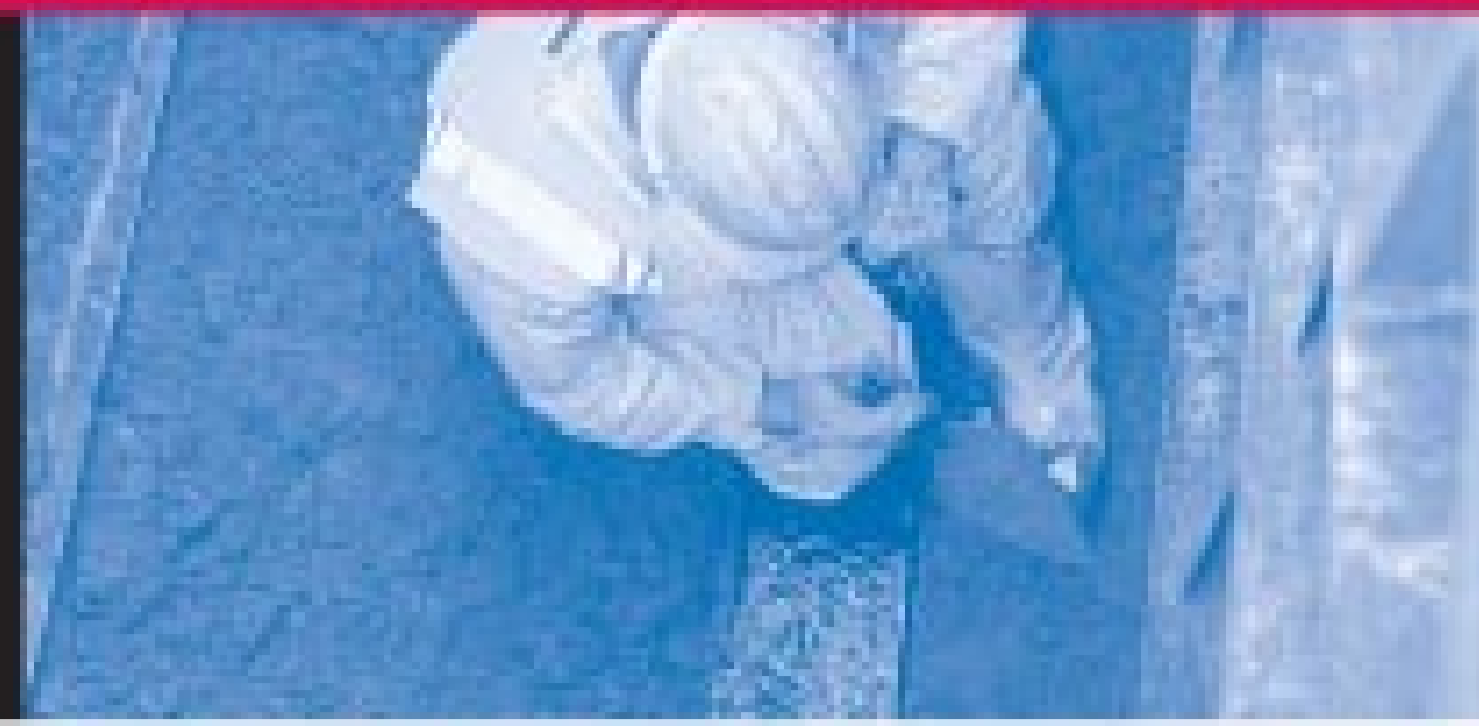
Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
Ad on page 38



Rausch Electronics USA, LLC

370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtv.com
www.rauschtv-usa.com
Ad on page 48



RELINE AMERICA, INC.

Reline America, Inc.
116 Battleground Ave.
Saltville, VA 24370
866-998-0808 • 276-496-4000
Fax: 276-496-4870
mburkhard@relineamerica.com
www.relineamerica.com

Savatech Corp.
413 Oak Pl. Bldg. 5-J
Port Orange, FL 32127
888-436-9778 • 386-760-0706
Fax: 386-760-8754
savatech@bellsouth.net
www.savatech.com
Ad on page 92

Sekisui SPR Americas, LLC
1045 Research Center Atlanta Dr., Ste. F
Atlanta, GA 30331
866-627-7772 • 678-510-1820
Fax: 678-510-1826
info@sekisui-spr.com
www.sekisui-spr.com
Ad on page 110

Sewer Equip Co of Florida, Inc.
1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cflr.com
www.sewerequisiteco.com
Ad on page 110

Stephen's Technologies, Inc.
31004 Hwy 27
Lake Hamilton, FL 33851
888-783-7436 • Fax: 863-439-3755
stephenstechnologies@yahoo.com
www.stephenstech.com
Ad on page 101

Superior Signal Company, LLC
PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27



TRIC Tools, Inc.
2317 Blanding Ave., Ste. D
Alameda, CA 94501
888-883-8742 • 510-865-8742
Fax: 510-217-9493
john.rafferty@trictrenchless.com
www.trictools.com

Pipeline Stopping

Hydra-Stop
11700 S Cicero Ave.
Alsip, IL 60803
800-538-7867 • Fax: 708-389-5125
hydra-stopsales@idexcorp.com
www.hydra-stop.com
Ad on page 34

Petersen Products Co.
PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Savatech Corp.
413 Oak Pl. Bldg. 5-J
Port Orange, FL 32127
888-436-9778 • 386-760-0706
Fax: 386-760-8754
savatech@bellsouth.net
www.savatech.com
Ad on page 92

Sewer Equip Co of Florida, Inc.
1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cflr.com
www.sewerequisiteco.com
Ad on page 110

Pipeline Tapping

Central Oklahoma Winnelson
5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Footage Tools, Inc.
54 Audia Ct.
Vaughan, ON L4K 3N4 Canada
888-737-3668 • 905-695-9900
Fax: 905-695-8874
footagetools@gmail.com
www.footagetools.com
Ad on page 111

Hydra-Stop
11700 S Cicero Ave.
Alsip, IL 60803
800-538-7867 • Fax: 708-389-5125
hydra-stopsales@idexcorp.com
www.hydra-stop.com
Ad on page 34

Petersen Products Co.
PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Pow-R Mole Sales, LLC
1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Positive Displacement Blowers

hibon
Hibon Inc. (a Division of Ingersoll Rand)
12055, Cote de Liesse
Dorval, QC H9P 1B4 Canada
888-704-4266 • Fax: 866-786-9163
jeff_peterson@irco.com
www.hibon.com

KMH Equipment Company
6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company
7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110

Pat's Pump & Blower, LLC
630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Sewer Equipment Co. of America
2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98



Superior Signal Company, LLC
PO Box 96
Spotswood, NJ 08884
800-945-8378 • 732-251-0800
Fax: 732-251-9442
info@superiorsignal.com
www.superiorsignal.com
Ad on page 27

USABlueBook
PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

Vacuum Sales, Inc.
51 Stone Rd.
Lindenwold, NJ 08021
800-547-7790 • 856-627-7790
Fax: 856-627-3044
jedstreak@vacuumsalesinc.com
www.vacuumsalesinc.com

Pressure Testing Equipment

Cherne Industries, Inc.
5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

Logiball, Inc.
440 Papin St.
Quebec, QC G1P 3T9 Canada
800-246-5988 • 418-656-9767
Fax: 418-653-5746
info@logiball.com
www.logiball.com
Ad on page 109

NozzTeq®, Inc.
1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Petersen Products Co.
PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96



Rausch Electronics USA, LLC
370 New York Ave.
Chambersburg, PA 17201
877-728-7241 • 717-709-1005
Fax: 717-709-1009
REUSA@rauschtev.com
www.rauschtev-usa.com
Ad on page 48

Sewer Equip Co of Florida, Inc.
1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cflr.com
www.sewerequisiteco.com
Ad on page 110

Triple R Specialty
PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

Pressure Washers and Sprayers

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54



Cam Spray

520 Brooks Rd.
Iowa Falls, IA 50126
800-648-5011 • 641-648-5011
Fax: 641-648-5013
gillespie@camspray.com
www.camspray.com
Ad on page 36

Chempure Products Corp.

PO Box 740
Bolivar, OH 44612
800-288-7873 • 330-874-4300
Fax: 330-874-4448
chempure@gmail.com
www.chempure.com
Ad on page 8

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Gamajet Cleaning Systems, Inc.

604 Jeffers Cir.
Exton, PA 19341
877-426-2538 • 610-408-9940
Fax: 610-408-9945
sales@gamajet.com
www.gamajet.com
Ad on page 12

NozzTeq®, Inc.

1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

Pump Parts/Components

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Cloverleaf Tool Co.

PO Box 1338
Tallest, FL 34270
800-365-6583 • 941-739-0707
Fax: 941-739-0001
sales@cloverleaftool.com
www.cloverleaftool.com
Ads on pages 34, 110 and 111

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Environmental Products & Accessories, LLC

2733 Kanasia Dr., Ste. F
Hixson, TN 37343
866-448-5547 • 423-876-4366
Fax: 866-206-2628
info@epasales.com
www.epasales.com
Ad on page 44

Gorman-Rupp Company

600 S Airport Rd.
Mansfield, OH 44903
419-755-1011 • Fax: 419-755-1208
grsales@gormanrupp.com
www.GRpumps.com

Hammelman Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequipment.com
www.sewerequipment.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

Zoeller Engineered Products

3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com

Pumps - Effluent/ Sewage/Sump

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-228-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

E.H. Wachs

600 Knightsbridge Pkwy.
Lincolnshire, IL 60069
847-537-8800 • Fax: 847-520-1147
sales@ehwachs.com
www.ehwachs.com
Ad on page 7



Gorman-Rupp Company

600 S Airport Rd.
Mansfield, OH 44903
419-755-1011 • Fax: 419-755-1208
grsales@gormanrupp.com
www.GRpumps.com

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Zoeller Engineered Products

3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com

Pumps - Grinder

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

SERFILCO, Ltd.

2900 MacArthur Blvd.
Northbrook, IL 60062
847-509-2900 • Fax: 847-559-1995
sales@serfilco.com
www.serfilco.com
Ad on page 30

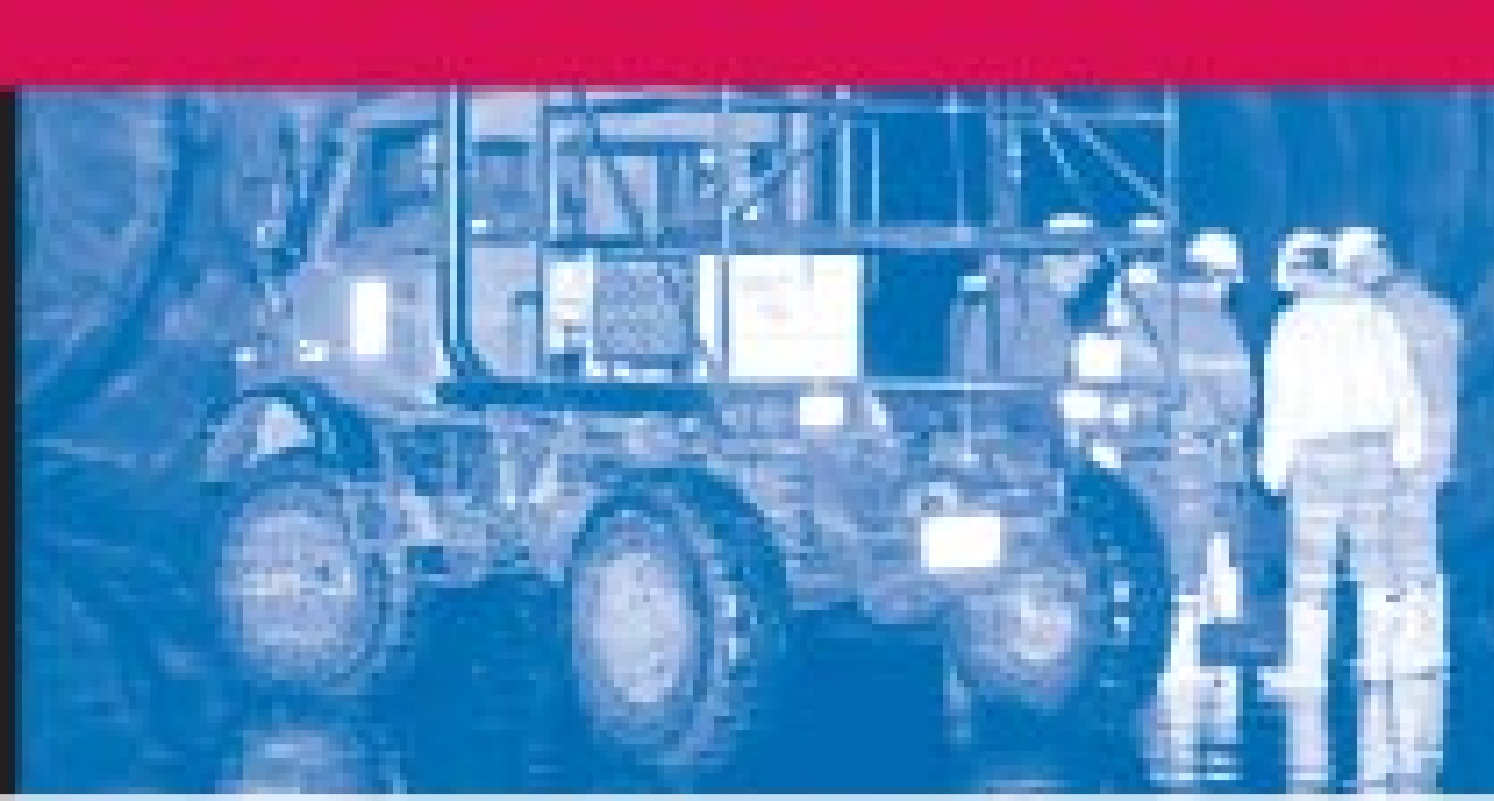
Zoeller Engineered Products

3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com

Pumps - High Pressure Water

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-225-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com



Chempure Products Corp.

PO Box 740
Bolivar, OH 44612
800-988-7873 • 330-874-4300
Fax: 330-874-4448
chempure@gmail.com
www.chempure.com
Ad on page 8

Cloverleaf Tool Co.

PO Box 1338
Talleast, FL 34270
800-365-6583 • 941-739-0707
Fax: 941-739-0001
sales@cloverleaftool.com
www.cloverleaftool.com
Ads on pages 34, 110 and 111

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-928-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Gamajet Cleaning Systems, Inc.

604 Jeffers Cir.
Exton, PA 19341
877-426-2538 • 610-408-9940
Fax: 610-408-9945
sales@gamajet.com
www.gamajet.com
Ad on page 12

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Gorman-Rupp Company

600 S Airport Rd.
Mansfield, OH 44903
419-755-1011 • Fax: 419-755-1208
grsales@gormanrupp.com
www.GRpumps.com

HAMMELMANN

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Hi-Vac Corporation/Aquatech

117 Industry Rd.
Marietta, OH 45750
800-800-1016 • Fax: 740-374-5447
sales@hi-vac.com
www.hi-vac.com
Ad on page 114

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0297
sales@usjetting.com
www.usjetting.com
Ad on page 111

Pumps - Test

Cherne Industries, Inc.

5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerequisite@cfl.rr.com
www.sewerequisiteco.com
Ad on page 110

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

Pumps - Vacuum Pressure

Cherne Industries, Inc.

5700 Lincoln Dr.
Minneapolis, MN 55436
800-843-7584 • Fax: 800-843-7585
cbozas@oatey.com
www.cherneind.com

Cloverleaf Tool Co.

PO Box 1338
Talleast, FL 34270
800-365-6583 • 941-739-0707
Fax: 941-739-0001
sales@cloverleaftool.com
www.cloverleaftool.com
Ads on pages 34, 110 and 111

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-928-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Hibon Inc. (a Division of Ingersoll Rand)

12055, Cote de Liesse
Dorval, QC H9P 1B4 Canada
888-704-4266 • Fax: 866-786-9163
jeff.peterson@irco.com
www.hibon.com

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Vacuum Sales, Inc.

51 Stone Rd.
Lindenwold, NJ 08021
800-547-7790 • 856-627-7790
Fax: 856-627-3044
jredstreak@vacuumsalesinc.com
www.vacuumsalesinc.com

Pumps - Washdown

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-928-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Pumps - Water

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-925-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Central Oklahoma Winnelson

5037 NW 10th St.
Oklahoma City, OK 73127
888-947-8761 • 405-947-8761
Fax: 405-947-1934
krjones@winnelson.com
www.centralwinnelson.com
Ad on page 98

D & O Equipment Company, Inc.

10076 Calvin Hall Rd.
Fort Mill, SC 29707
803-548-2289 • Fax: 803-548-6894
dando@att.net
Ad on page 111

Dultmeier Sales

13808 Industrial Rd.
Omaha, NE 68137
800-928-9666 • 402-333-1444
Fax: 402-333-5546
rlong@dultmeier.com
www.dultmeier.com

Environmental Products & Accessories, LLC

2733 Kanasita Dr., Ste. F
Hixson, TN 37343
866-448-5547 • 423-876-4366
Fax: 866-206-2628
info@epasales.com
www.epasales.com
Ad on page 44

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Gorman-Rupp Company

600 S Airport Rd.
Mansfield, OH 44903
419-755-1011 • Fax: 419-755-1208
grsales@gormanrupp.com
www.GRpumps.com

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Lee Supply Company, Inc.

305 1st St.
Charleroi, PA 15022
800-353-3747 • 724-483-3543
Fax: 724-483-0577
info@leesupply.com
www.leesupply.com
Ad on page 21

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109

Zoeller Engineered Products

3649 Cane Run Rd.
Louisville, KY 40211
800-928-7867 • Fax: 502-774-3624
steved@zoeller.com
www.zoeller.com

Reinstatement Cutters**Aries Industries, Inc.**

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

Cosmic TopHat, LLC

23135 Samuel St. #10
Torrance, CA 90505
424-558-9872
tophatchrisc@gmail.com
www.cosmic.at
Ad on page 51

"The Standard of the Industry"

**CUES, Inc.**

3600 Rio Vista Ave.
Orlando, FL 32805
800-327-7791 • 407-849-0190
Fax: 407-425-1569
salesinfo@cuesinc.com
www.cuesinc.com
Ad on page 97

ENZ USA, Inc.

1585 Beverly Ct., Unit 115
Aurora, IL 60502
877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
Ad on page 107

**LMK Technologies**

1779 Chessie Ln.
Ottawa, IL 61350
815-433-1275 • Fax: 815-433-0107
sales@lmkenterprises.com
www.performanceliner.com
Ad on page 115

M Tech Company

7401 First Place
Cleveland, OH 44146
800-362-0240 • 440-646-0996
Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
Ad on page 110

**Perma-Liner Industries, Inc.**

13000 Automobile Blvd., Ste. 300
Clearwater, FL 33762
866-336-2568 • 727-507-9749
Fax: 727-507-9849
info@perma-liner.com
www.perma-liner.com
Ad on page 9

RapidView IBAK North America

1828 W Olson Rd.
Rochester, IN 46975
800-656-4225 • 574-223-5426
Fax: 574-223-7953
info@rapidView.com
www.rapidView.com
Ad on page 37

Rental Equipment**Arizona Instrument, LLC**

3375 N Delaware St.
Chandler, AZ 85225
800-528-7411 • 602-470-1414
Fax: 602-981-1744
marketing@azic.com
www.azic.com
Ad on page 18

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-225-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Dynamic Cable Repair

40 Arnot St. Unit 20
Lodi, NJ 07644
888-434-0151 • 973-478-0893
Fax: 973-478-0895
dynamiccablerepairs@yahoo.com
www.dynamicrepairs.net

Envirosight, LLC

111 Canfield Ave., Unit. B3
Randolph, NJ 07869
866-936-8476 • 973-252-6700
Fax: 973-252-1176
mail@envirosight.com
www.envirosight.com
Ad on page 13

Hammelmann Corp.

600 Progress Rd.
Dayton, OH 45449
800-783-4935 • 937-859-8777
Fax: 937-859-9188
mail@hammelmann.com
www.hammelmann.com

Insight Vision

600 Dekora Woods Blvd.
Saukville, WI 53080
800-488-8177 • 262-268-9950
Fax: 262-268-9952
casey@insightvisioncameras.com
www.insightvisioncameras.com

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
Ad on page 20

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

NozzTeq®, Inc.

1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
Fax: 603-413-6744
info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
Ad on page 12

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Ratech Electronics LTD

260-7 Spinnaker Way
Concord, ON L4K 4P9 Canada
800-461-9200 • 905-660-7072
Fax: 905-660-1519
sales@ratech-electronics.com
www.ratech-electronics.com
Ad on page 38

RS Technical Services, Inc.

1327 Clegg St.
Petaling, CA 94954
800-767-1974 • 707-778-1974
Fax: 707-778-1981
bobg@rstechserv.com
www.rstechserv.com
Ad on page 92

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-427-4552
csewerekupment@clr.com
www.sewerekupmentco.com
Ad on page 110

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Repair/ Rebuilding Equipment

Aries Industries, Inc.

550 Elizabeth St.
Waukesha, WI 53186
800-234-7205 • 262-896-7205
Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
Ad on page 55

BigsEasyLift

4242 Chowen Ave. N
Robbinsdale, MN 55422
866-926-5438 • Fax: 866-271-9057
info@bigseasylift.com
www.bigseasylift.com



Dynamic Cable Repair

40 Arnot St. Unit 20
Lodi, NJ 07644
888-434-0151 • 973-478-0893
Fax: 973-478-0895
dynamicablerepairs@yahoo.com
www.dynamicrepairs.net

GapVax, Inc.

575 Central Ave.
Johnstown, PA 15902
888-442-7829 • 814-535-6766
Fax: 814-539-3617
inquiry@gapvax.com
www.gapvax.com
Ad on page 93

Jack Doheny Supplies, Inc.

777 Doheny Dr.
Northville, MI 48167
800-841-4028 • 317-545-3331
Fax: 317-545-3334
mikerenner@dohenysupplies.com
www.dohenysupplies.com
Ad on page 20

KMH Equipment Company

6330 Frost Rd.
Westerville, OH 43082
888-408-6716 • 614-942-1181
Fax: 614-942-1583
www.kmhequip.com
Ad on page 106

Parson Environmental Products, Inc.

PO Box 4474
Reading, PA 19606
800-356-9023 • 610-582-6060
Fax: 610-582-6064
sales@parsonenvironmental.com
www.parsonenvironmental.com

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

Petersen Products Co.

PO Box 340
Fredonia, WI 53021
800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
Ad on page 96

Poly-Triplex Technologies, Inc.

PO Box 398
Bonifay, FL 32425
850-547-9999 • Fax: 850-547-9990
info@poly-triplex.com
www.poly-triplex.com
Ad on page 110

Pow-R Mole Sales, LLC

1400 Commerce Pkwy.
Lancaster, NY 14086
800-344-6653 • 716-683-2486
Fax: 716-683-6372
brian@powrmole.com
www.powrmole.com
Ad on page 99

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

US Jetting, LLC

850 McFarland Rd.
Alpharetta, GA 30004
800-538-8464 • Fax: 770-740-0997
sales@usjetting.com
www.usjetting.com
Ad on page 111

Vacuum Sales, Inc.

51 Stone Rd.
Lindenwold, NJ 08021
800-547-7790 • 856-627-7790
Fax: 856-627-3044
jredstreak@vacuumsalesinc.com
www.vacuumsalesinc.com

Risers & Lids

American Highway Products, Ltd.

11723 Strasbury Bolivar Rd. NW
Bolivar, OH 44612
888-272-2397 • 330-874-3270
Fax: 330-874-3800
sales@ahp1.com
www.ahp1.com
Ad on page 18

Municipal Services, Inc.

420 Boston Tpke.
Shrewsbury, MA 01545
508-842-8901 • Fax: 508-842-9648
rapocushion@yahoo.com
www.rap-o.biz
Ad on page 20

Rodding Machines

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

General Pipe Cleaners/ Div. of General Wire Spring

1101 Thompson Ave.
McKees Rocks, PA 15136
800-245-6200 • 412-771-6300
Fax: 412-771-2771
info@drainbrain.com
www.drainbrain.com
Ad on page 35

Pat's Pump & Blower, LLC

630 W Church St.
Orlando, FL 32805
800-359-7867 • 407-841-7867
Fax: 407-648-2096
patspump@aol.com
www.patspump.com
Ad on page 102

RIDGID

400 Clark St.
Elyria, OH 44035
800-769-7743 • 440-323-5581
Fax: 440-329-4551
info@RIDGID.com
www.RIDGID.com
Ad on page 11

Sewer Equip Co of Florida, Inc.

1102 N Dixie Frwy.
New Smyrna Beach, FL 32168
800-635-2323 • Fax: 386-497-4552
csewerequisite@cfl.rr.com
www.sewerequisiteco.com
Ad on page 110

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98

Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
Baton Rouge, LA 70815
800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
www.shamrocktools.com
Ad on page 36

Street and Sewer Parts Superstore

800-435-3044
www.streetandsewer.com
Ad on page 31

Triple R Specialty

PO Box 60671
Jacksonville, FL 32236
800-356-9661 • Fax: 904-786-0911
sales@triplerspecialty.com
www.triplerspecialty.com
www.cole-mart.com/triplerspecialty
Ad on page 18

Roll-Off Containers

BakerCorp

3020 Old Ranch Pkwy., Ste. 220
Seal Beach, CA 90740
800-925-3712 • 562-430-6262
Fax: 562-430-4865
mbaker@bakercorp.com
www.bakercorp.com

Sewer Equipment Co. of America

2111 Chestnut Ave. #270
Glenview, IL 60025
800-323-1604 • 847-729-3316
Fax: 815-684-5566
sales@sewerequisite.com
www.sewerequisite.com
Ad on page 98

Root Control - Chemical

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103



Duke's Root Control, Inc.

1020 Hiawatha Blvd. W
Syracuse, NY 13204
800-447-6687 • 315-472-4781
Fax: 315-475-4203
lynn@dukes.com
www.dukes.com

Municipal Sales, Inc.

PO Box 4743
Queensbury, NY 12804
518-747-2044 • Fax: 518-747-5490
mark.reynolds@municipalsales.net
www.municipalsales.net
Ad on page 95



RootX, Inc.

1705 Salem Industrial Dr. NE
Salem, OR 97301
800-844-4974 • 503-364-2999
Fax: 503-485-5229
rootx@rootx.com
www.rootx.com
Ad on page 5

USABlueBook

PO Box 9006
Gurnee, IL 60031
800-548-1234 • 847-689-3000
Fax: 847-689-3030
customerservice@usabluebook.com
www.usabluebook.com
Ad on page 109



VAPOROOTER®

Vaporooter

1550 E Old 210 Hwy.
Liberty, MO 64068
800-841-1444
info@vaporooter.com
www.vaporooter.com
Ad on page 57

Root Control - Mechanical

Advanced Infrastructure Technologies

3055 Kashiwa St.
Torrance, CA 90505
310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 54

Allan J. Coleman Co.

5725 N Ravenswood Ave.
Chicago, IL 60660
773-728-2400 • Fax: 773-728-2499
info@allanjcoleman.com
www.allanjcoleman.com
Ad on page 103

Carylon Corporation

2500 W Arthington St.
Chicago, IL 60612
800-621-4342 • 312-666-7700
Fax: 312-666-5810
info@caryloncorp.com
www.caryloncorp.com
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Chempure Products Corp.

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800-888-7873 • 330-874-4300
Fax: 330-874-4448
chempure@gmail.com
www.chempure.com
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Cosmic TopHat, LLC

23135 Samuel St. #10
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424-558-9872
tophatchris@gmail.com
www.cosmic.at
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1585 Beverly Ct., Unit 115
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877-369-8721 • 630-692-7880
Fax: 630-692-7885
sales@enzusainc.com
www.enzusainc.com
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Municipal Sales, Inc.

PO Box 4743
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518-747-2044 • Fax: 518-747-5490
mark.reynolds@municipalsales.net
www.municipalsales.net
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1497 Main St. 354
Dunedin, FL 34698
866-620-5915 • 603-413-6583
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info@nozzteq.com
www.nozzteq.com
www.cole-mart.com/nozzteq
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patspump@aol.com
www.patspump.com
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800-844-4974 • 503-364-2999
Fax: 503-485-5229
rootx@rootx.com
www.rootx.com
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1102 N Dixie Frwy.
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csewerequisite@cflr.com
www.sewerequisiteco.com
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Shamrock Pipe Tools, Inc.

10928 S Choctaw Dr.
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800-633-7696 • 225-275-7696
Fax: 225-275-1340
shamrocktools@shamrocktools.com
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www.streetandsewer.com
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866-408-2814 • 770-984-8880
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info@usbsec.com
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mail@hammelmann.com
www.hammelmann.com

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888-272-2397 • 330-874-3270
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www.ahp1.com
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866-926-5438 • Fax: 866-271-9057
info@bigseasylift.com
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www.blackburnflag.com
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rlong@dultmeier.com
www.dultmeier.com

Environmental Products & Accessories, LLC

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866-448-5547 • 423-876-4366
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info@epasales.com
www.epasales.com
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sales@HEMCOcorp.com
www.HEMCOcorp.com

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sales@tilfts.com
www.tilfts.com
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mikerenner@dohenysupplies.com
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www.jetterdepot.com
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Fax: 440-646-9953
bcohen@mttechcompany.com
www.mtechcompany.com
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Mil-Ram Technology, Inc.

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888-464-5796 • 510-656-2001
Fax: 510-656-2004
sls@mil-ram.com
www.mil-ram.com

Petersen Products Co.

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800-926-1926 • 262-692-2416
Fax: 262-692-2418
sales@petersen.cc
www.pipeplug.com
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stoaway@comcast.net
www.stoaway.com
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Fax: 559-266-7437
cranes@westernmule.com
www.westernmule.com
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www.mcgard.com/security
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dave@sewerlock.com
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jeff.peterson@irco.com
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hydra-stopsales@idexcorp.com
www.hydra-stop.com
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Fax: 440-646-9953
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31004 Hwy 27
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888-783-7436 • Fax: 863-439-3755
stephenstechnologies@yahoo.com
www.stephenstech.com
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info@superiorsignal.com
www.superiorsignal.com
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www.themanpan.com

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www.advancedworld.com
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Fax: 276-496-4870
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An inspector ascends a water tower for an inspection. (Photos courtesy of Ron Perrin)

LOOKING INSIDE

Inspection and cleaning of potable water storage tanks can pay dividends for public health as well as the health of the structures

By Ron Perrin



Ron Perrin

It's not only bridges that come crashing down when deterioration and age cause structural failure. Drinking water storage structures can be overtaken by interior corrosion and fail as well.

In addition, over time, sediment can accumulate on the floors of potable water storage tanks, providing a breeding ground for bacteria.

Today, cutting-edge technology can deliver high-quality tank inspections, allowing utility managers to assess tank conditions and make sound decisions on repair, rehabilitation and cleaning.

By using remotely controlled underwater cameras, or by engaging specially trained tank divers, inspection contractors can get a

good look at tank interiors without interrupting service and without wasting water. These inspections can be completed at a fraction of what the utility would spend if it used its own employees to drain and inspect the tanks.

What will you find?

Without a thorough inspection, there is no way to know how much corrosion or sediment is inside a water storage tank. It is common to find two to three inches of sediment on the floor of water storage tanks and towers. If the facility has gone 10 or 20 years without cleaning, the accumulation is sometimes measured in feet.

This buildup of sediment creates a habitat for bacteria, protozoa and even viruses to grow, as they are sheltered from exposure to treatment chemicals. Keeping tanks clean is one of the best ways to ensure the health of a public water system.

"Texas is one of few states that require tank inspections and has done so for about 20 years. Since 2003, Florida has required potable water tanks to be cleaned at least annually. Also, according to Section 62-555.350 (12)(c) of the Florida Administrative Code, "All suppliers of water shall keep records documenting that their finished-water-storage tanks ... have been cleaned and inspected during the past five years."

A closer look

A qualified inspection and cleaning contractor can save water utilities man-hours and water. Traditionally, tank inspections have been costly and disruptive. In a typical process, utility workers remove the tank from service and drain it. Then a worker enters the tank to inspect it.

When the tanks are drained, typically only about two-thirds of the water can be put back into the

system; the rest empties onto the ground. Before the tank is returned to service, it must be decontaminated, wasting even more water. Fortunately, this method is becoming obsolete.

Now, utilities can hire an inspection contractor with an underwater camera, saving tens or hundreds of thousands of gallons of water on each tank inspected. By having interior conditions professionally photographed and by obtaining video footage, managers can see precisely what is going on inside their storage tanks and towers just as the inspector witnessed it. These inspections take one to four hours to complete, depending on the method and condition of the facility.

Most often, the video camera used in an inspection is a forward-facing, wide-angle, color camera in a fixed position and focus, with 420 lines of resolution and 0.3 lux. When an inspection is completed with such a camera, it is considered a remote video inspection. Operated by one inspector, the equipment is designed for use in potable water applications and is sanitized with a 200 ppm chlorine solution before it enters the tank.

When using the camera, the operator scans the exterior and interior roof first. Then the inspector manually lowers the unit into the water tank, where it films the interior in great detail. Once it is submerged, the inspector rotates the camera for a view of the center of the tank. The inspector then gets footage of the walls as the camera makes the descent to the tank floor.

Complete record

Sometimes, the tank's height and structure dictate that a remote operated vehicle (ROV) camera be used for an inspection. ROV cameras are neutrally buoyant but require a two-man crew. Propellers



Above: Sediment is removed after a water tank inspection. Left: Ron Perrin (right) washes down a remote-operated inspection vehicle before inspecting a 500,000-gallon clearwell in southern Texas. Assisting is Brady Perrin.

Today, cutting-edge technology can deliver high-quality tank inspections, allowing utility managers to assess tank conditions and make sound decisions on repair, rehabilitation and cleaning.

move the camera about the tank. The cameras are equipped with food-grade silicone seals for safe use in potable water. Two high-efficiency halogen lights attached to the camera illuminate the inside of the tank.

With both remote video inspection and ROV inspection, video footage is recorded on a portable HD recorder. Inspectors under the charge of a professional engineer can then review the footage and determine what maintenance work is necessary. Inspection reports are delivered with the

video footage on DVD, enabling the tank owner to observe how much sediment is on the floor and how much cleaning is necessary.

Occasionally, it is in the owner's best interest to obtain an inspection performed by a professional diver using a handheld underwater video camera. Divers qualified for this type of inspection wear a dry suit and gear purchased for and used only in potable water. Their suits completely seal them from the water supply.

Before entering the tank, they are sanitized with a chlorine solution to meet American Water Works Association (AWWA) standards. Divers enter the tank and document the interior condition in detail.

Getting it clean

Potable water dive crews are also used to clean water storage tanks. With this innovative method, the diver enters the structure and removes sediment from the floor with minimal water loss or disruption in service.

Typically, a three-diver team is needed for a tank cleaning. The sediment is removed with a vacuum system and is properly disposed. Additionally, dive teams can repair any corroded spots that are noticed during the inspection.

Tank owners should assign this work only to specialists in potable water diving. Equipment must be designed for and used only in potable water. Firms focused on diving offshore or in lakes and rivers may dive in potable water tanks only as a sideline. The AWWA has had standards for

potable water diving for more than 20 years.

Inspection and diving contractors need special capabilities and attributes. For example, climbing to heights of 150 to 250 feet to enter a tank or tower is not for the faint of heart. Qualified contractors have the training, equipment and experience to get the job done efficiently and safely.

Using specialized inspection technicians and divers, water utility managers can keep their systems inspected and cleaned with minimal water loss and little if any disruption in service. Advances in technology allow tank inspection and cleaning to be quick and cost-effective. Maintaining healthy water storage tanks is an attainable goal for every utility, and the practice can go a long way toward keeping aging infrastructure safe. ♦

About the Author

Ron Perrin owns Ron Perrin Water Technologies, based in Fort Worth, Texas, and is author of the book, *Inspecting & Cleaning Potable Water Storage*. He can be reached at 888/481-1768 or ronlooks@aol.com.

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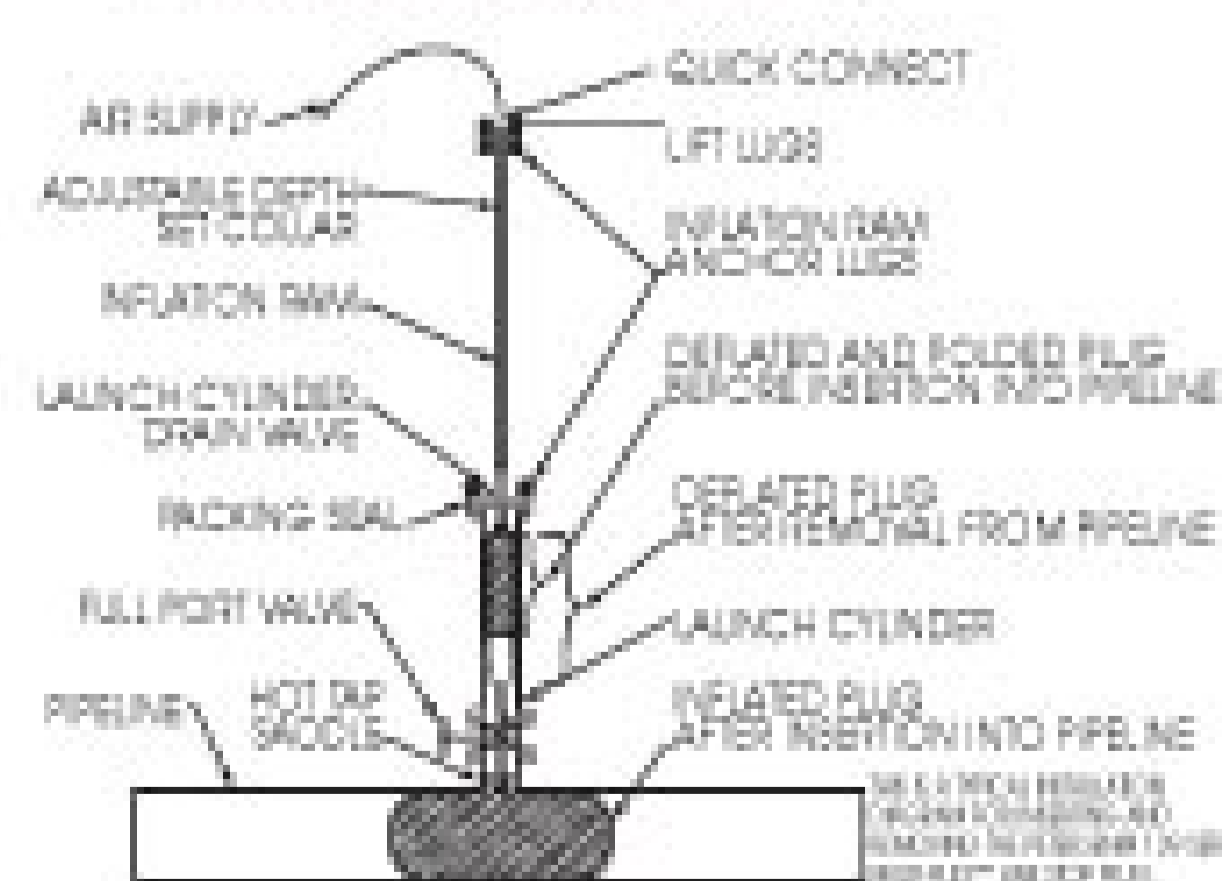
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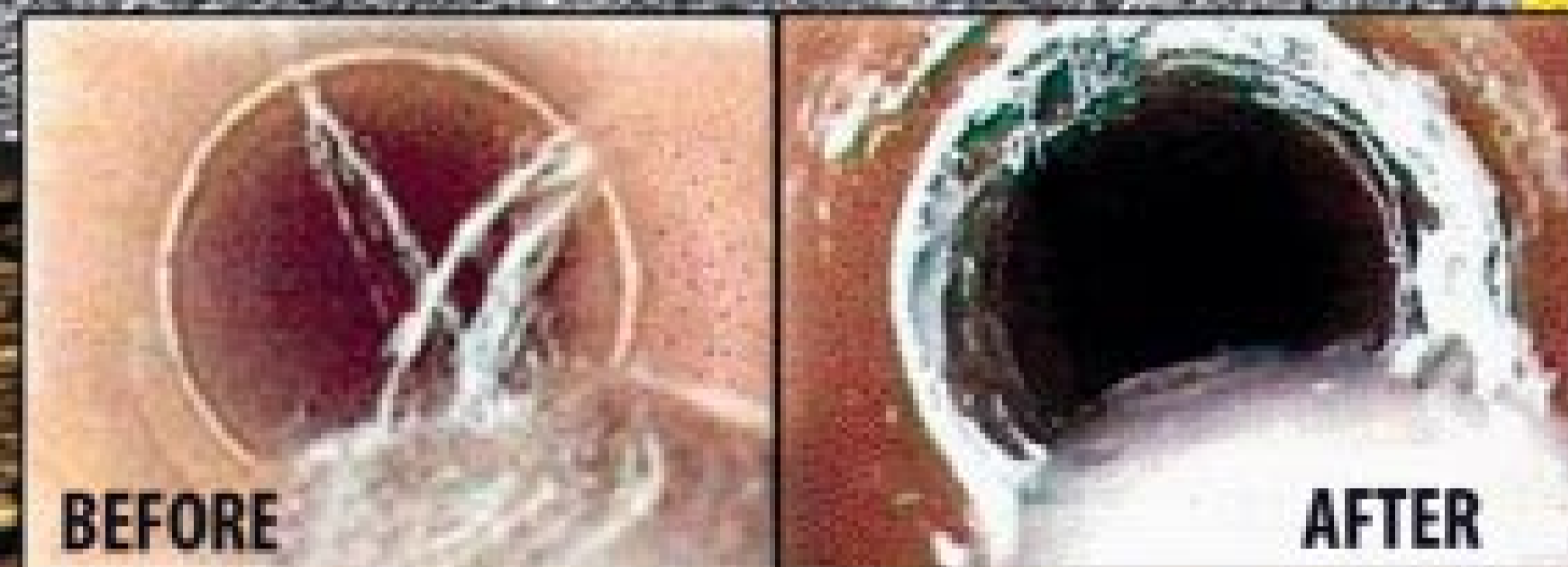


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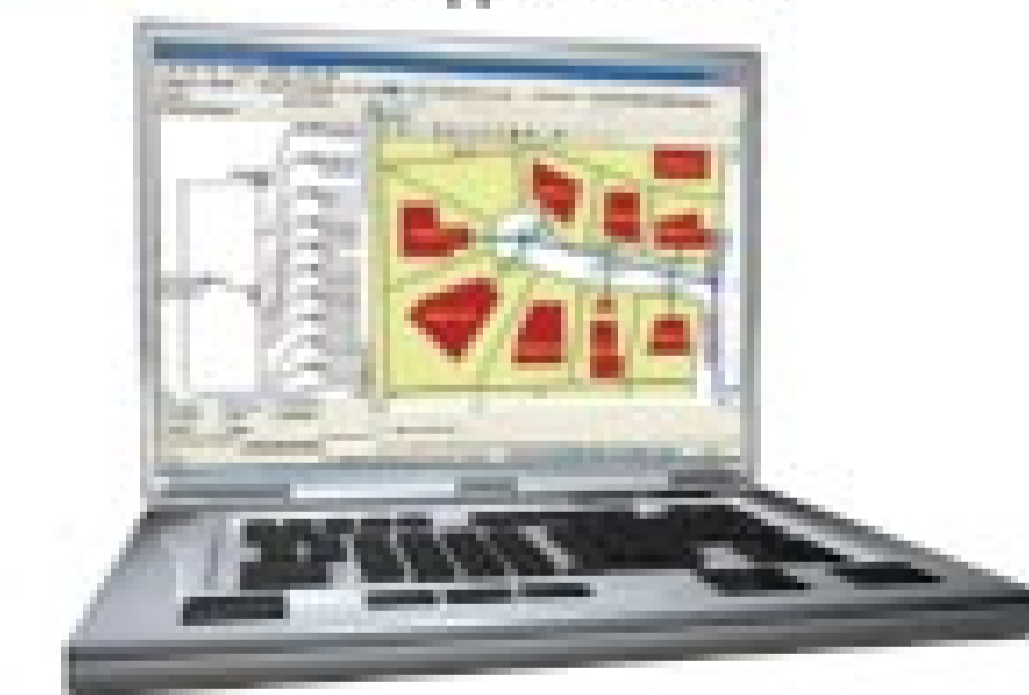
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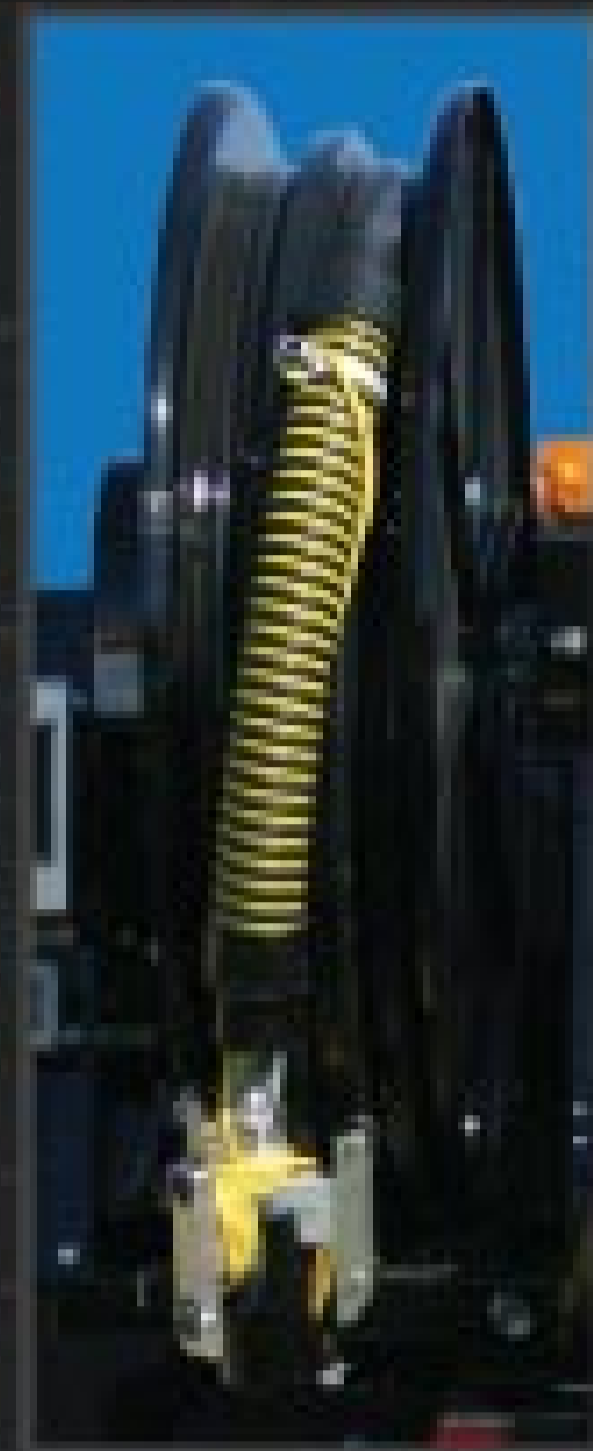


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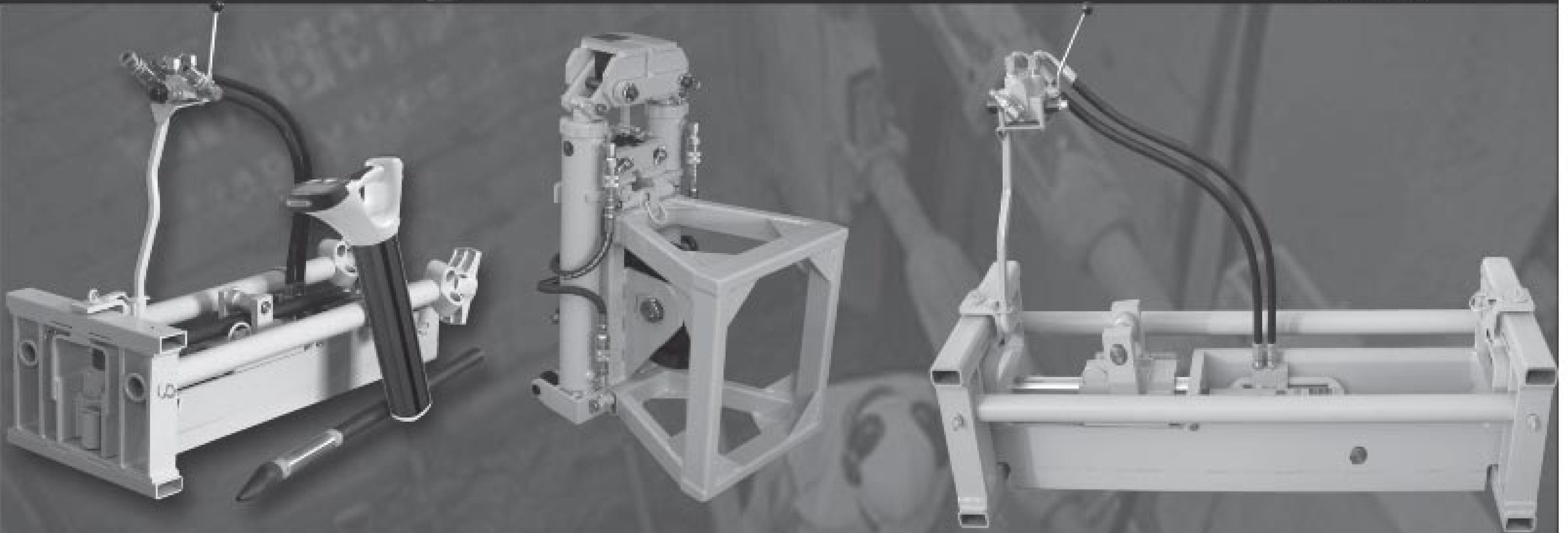
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NOW IN SPANISH

NASSCO translates its *Jetter Code of Practice Manual*, a guide for selecting and operating waterjet equipment and selecting nozzles to fit the application

By Irvin Gemora

I'm pleased to announce the first NASSCO publication in Spanish: the *Jetter Code of Practice Manual*. The time is right. I have people tell me all the time how valuable the English version of this manual has been.

It takes significant knowledge to operate jettors effectively and to avoid blown toilets and bodily injuries. From what I hear, this manual has led to many effective cleaning operations, and I'm confident this new Spanish version will mean even more success stories.

Before the manual was published in 2006, jetter operators and cleaning crews relied on two sources — equipment manufacturers and in-house training — to teach people how to use jettors. The *Jetter Code of Practice Manual* has become one of the leading publications in

the pipe cleaning business.

Now in its second edition, the manual provides a guideline for the safe and efficient use of sewer cleaning and jetting equipment. Combined with the company-based classroom or online training, it provides a comprehensive understanding of cleaning tech-

Like the original 58-page English version, the Spanish manual is divided into 10 sections. It includes descriptions of all the nozzles, hoses, cutters and other equipment used in jetting, and extensive information about using the equipment effectively and safely in a wide range of applications.

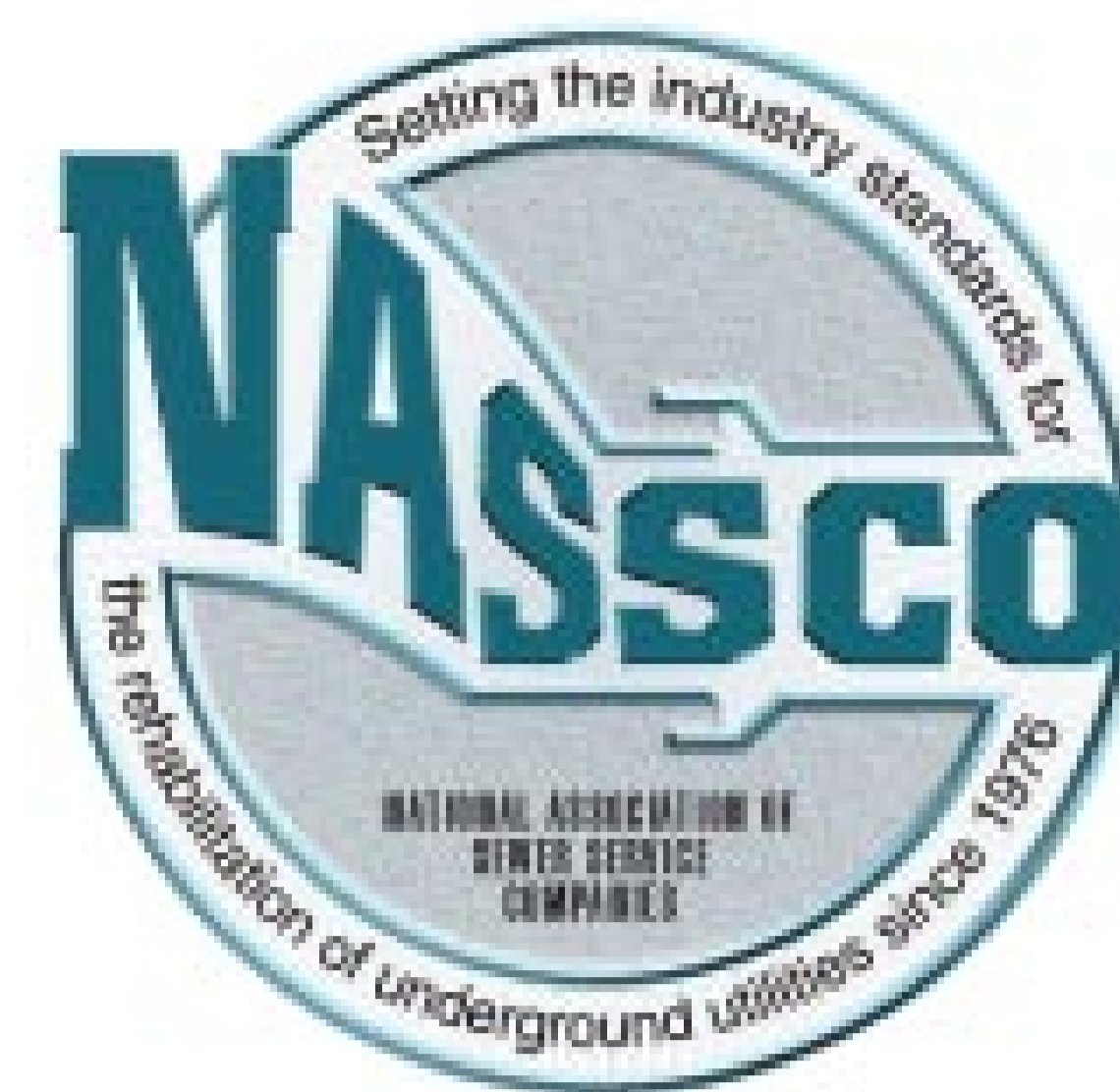
niques, equipment selection, and general sewer and stormwater operational improvements.

Like the original 58-page English version, the Spanish manual is divided into 10 sections. It includes

descriptions of all the nozzles, hoses, cutters and other equipment used in jetting, and extensive information about using the equipment effectively and safely in a wide range of applications.

NASSCO is committed to providing guidelines and specifications for various processes and

equipment for all professionals in the trenchless industry. The *Jetter Code of Practice Manual* was written by industry professionals like Barry Howell, general manager of Visu-Sewer Mississippi; Brad Dutruich of



Compliance EnviroSystems and NASSCO president; and Gerry Muenchmeyer, P.E., NASSCO technical director. It was also reviewed by a peer group.

I invite anyone in the pipe cleaning business to invest in this manual. The price is right, and you and your staff are worth it. If you already have a copy, I'd love to hear about how it has helped you and your colleagues. The *Jetter Code of Practice Manual* in Spanish can be purchased at www.nassco.org at \$50 for NASSCO members and \$100 for nonmembers. ♦

Irvin Gemora is executive director of NASSCO. He can be reached at director@nassco.org. The NASSCO headquarters is at 11521 Cronridge Dr., Suite J, Owings Mills, MD 21117.

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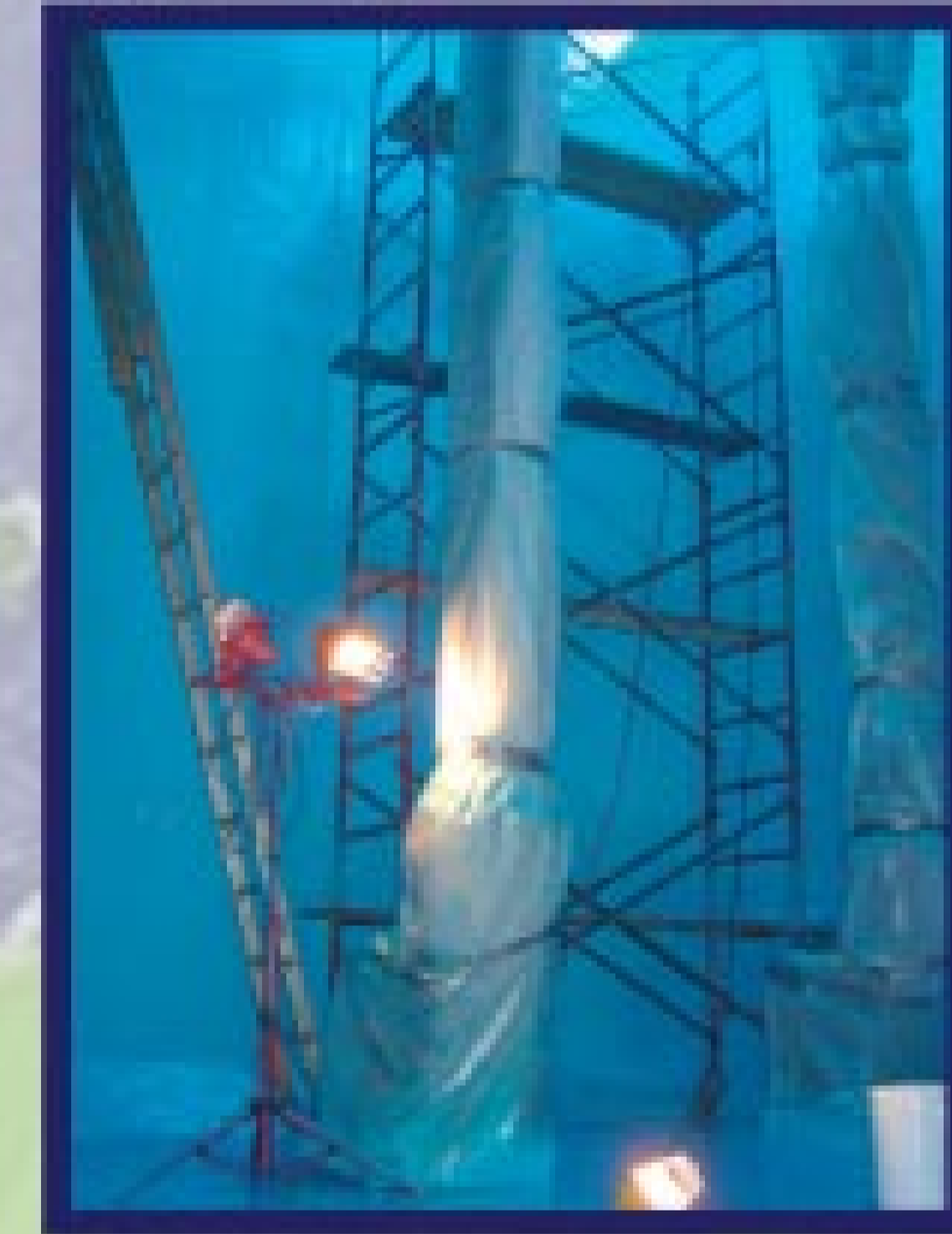


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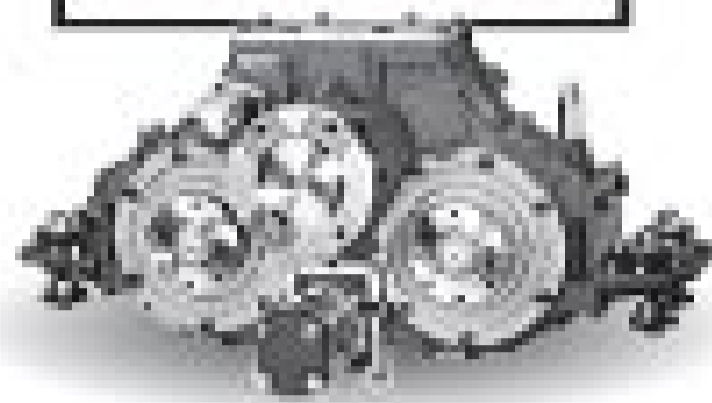
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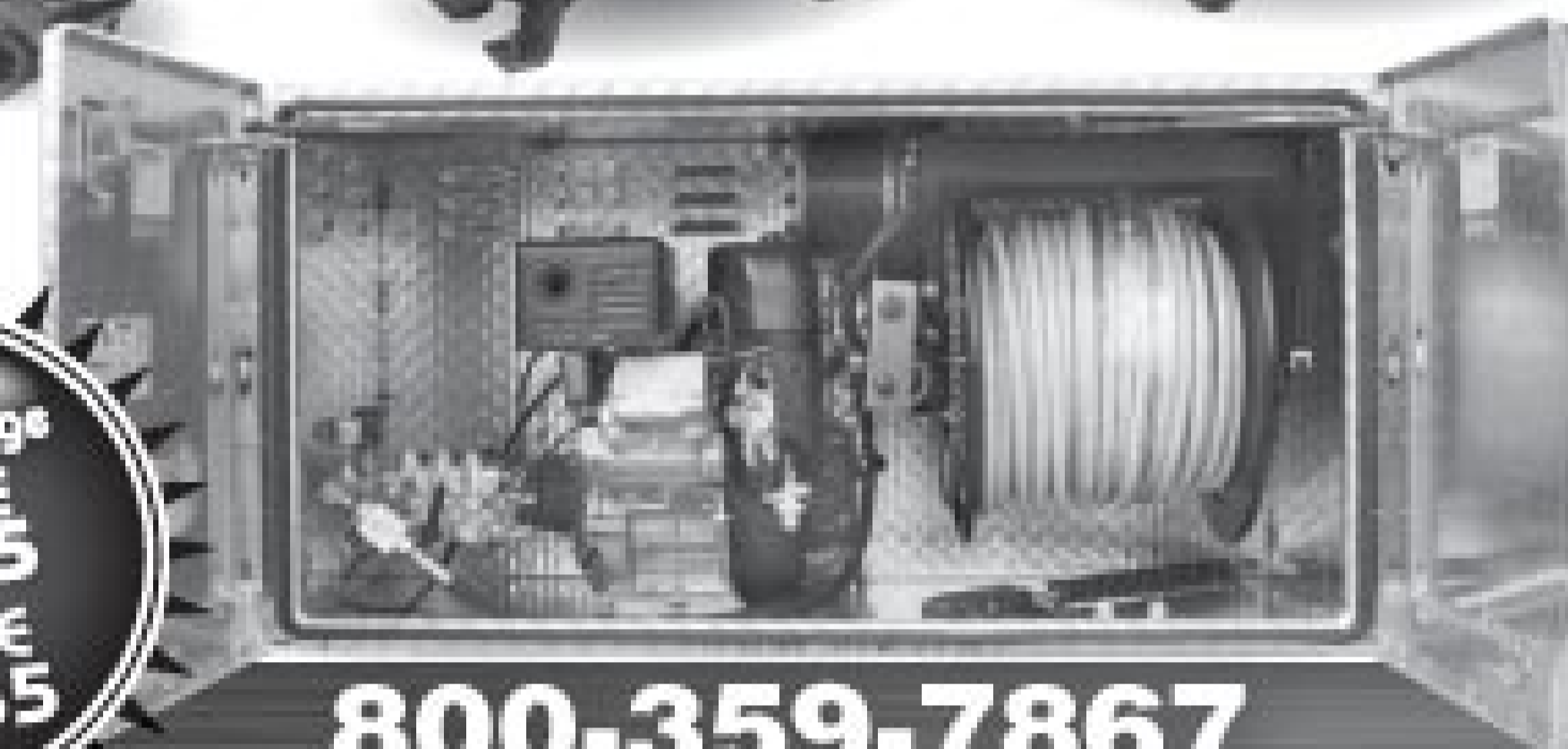
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INDUSTRY NEWS

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AWWA, ASME-ITI Issue ANSI Standard

The American Water Works Association and American Society of Mechanical Engineers Innovative Technologies Institute have developed a risk and resilience management standard for water utilities. The J100 standard, created in response to Hurricane Katrina and other recent disasters, is designed to help water and wastewater utilities identify potential threats to U.S. water infrastructure and prepare for or mitigate damage. A detailed summary is available at www.awwa.org/standardj100.

Fluid Metering Releases Product Catalog

Fluid Metering Inc.'s latest catalog features 32 pages of fluid handling solutions, including ChloritrolT, a valveless metering system for maintenance-free injection of liquid sodium and calcium hypochlorite. Other products include the CTS chemical treatment system for metering water and wastewater treatment chemicals and the PDS-100 programmable dispensing system that uses stepper motors to control delivery from 500 nanoliters per dispense up to 2 liters per minute continuous flow. For a copy, call 800/223-3388, e-mail pumps@fmipump.com or visit www.fmipump.com.

EPA Awards Kansas, Iowa Grants

The U.S. Environmental Protection Agency awarded a \$970,000 grant to Derby, Kan., for sewer improvements and \$291,000 to Boone, Iowa, for a sewer project. The Kansas project will construct approximately 7,050 feet of 36-inch sewer pipe and 17 manholes. The Iowa project will address residential sewer backups that occur during moderate to heavy rainfall by replacing undersized sanitary sewer pipe with larger diameter pipe.

Geospatial Creates Infrastructure Blog

Geospatial Holdings' infrastructure blog (www.geospatialholdings.blogspot.com) offers technology developments and facilitates discussion on events driving the underground infrastructure industry toward more efficient operation and expansion.

ADS Acquires Inserta Fittings, Piedmont, Foltz

Advanced Drainage Systems has acquired Inserta Fittings of Forest Grove, Ore., manufacturer of Inserta Tee. The acquisition follows the purchase of Piedmont Concrete, Pineville, N.C., manufacturer of precast sanitary and stormwater structures, and the April purchase of Foltz Concrete Pipe Co. of Winston-Salem, N.C.

Henrich Joins SewerVUE

Gordon Henrich has joined SewerVUE as vice president of sales and marketing. He has extensive experience working with North American engineering companies as well as major municipalities and utilities, assisting in understanding and matching the appropriate inspection technologies with the condition-based asset management requirements of pipeline owners. ♦

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Product Spotlight

Pole Camera Offers Quick, Safe Inspection Option

By Ed Wodalski

Self-illuminating color zoom pole camera from Zistos Corp.

The self-illuminating color zoom pole camera (10:1 optical plus digital zoom) from Zistos Corp. is designed for safe inspection of hard-to-reach or potentially dangerous areas.

The camera is mounted to a telescoping pole, and the video displays on a 5-inch LCD monitor. Cameras and extension poles are submersible. The unit is packaged in a 53-by 17-by 6-inch foam-fitted Pelican carrying case and weighs about 40 pounds.

"The kit that we put together was for power utilities to look into a confined space," says Mike Sterflinger, vice president of business development. "If there was an event or a failure, or if there was some reason to think twice about putting a man down a hole, they could get a good look around with the pole camera. The thermal camera option allowed power utilities to see in smoke if there was a fire, or if there was a bad splice."

The inspection system is powered by two NiMH rechargeable batteries that offer two hours of operation with the LEDs off and can be recharged in two hours or less. A battery charger and power adapter are included.

The 2.5-inch-diameter self-illuminated submersible color zoom camera is controlled from the operator end of the pole. Other features include a tripod-mounted video display with sunshade for operator freedom and a 14-foot submersible telescoping fiberglass extension pole. Other lengths of adjustable flex-end or remote articulating pole are available. The monitor can be worn with a supplied chest harness.

The 14-foot, twist-grip articulating pole lets user rotate the camera 90 degrees in either direction. A twist collar allows the camera angle to be locked at any position. An optional audio module can be plugged in behind the camera to listen for water flow or other noises.

Shorter poles and articulating and flex-end poles up to 24 feet long are available. The 14-foot pole and camera weigh 8.5 pounds. The weatherproof modular system has a variety of options, including a temperature-measuring dual-mode thermal image/black-and-white video camera, and a wireless transmitter/receiver that can send data to a laptop. A lower cost 10- to 15-foot cable that attaches to the display unit also is available.

"We manufacture similar equipment for search and rescue applications," Sterflinger says. "It's pretty rugged stuff. It's designed to be used in a real-world environment. You can drop it, heat it up a bit, and it'll keep working for you." Call 631/434-1370 or visit www.zistos.com.



Camera images



MWH Soft Unveils InfoWorks TS

InfoWorks TS software for advanced hydraulic transient analysis from MWH Soft is designed to assess the effects of pump station power failures, pump startup, valve closures, rapid demand and pump speed changes. The program also simulates transient cavitation and water column separation, evaluates intensity and estimates the potential effects on the system. 626/568-6868; www.mwhsoft.com.

Val-Matic Offers Quick Sizing Calculator

The pocket-size Air Valve Quick Sizing Calculator from Val-Matic Valve & Mfg. is made to assist in the correct sizing of air valves for use on water pipelines, sewage force mains, pump stations and treatment plants. 630/941-7600; www.valmatic.com.



General Introduces Gen-Eye POD, MINI-POD

Lightweight Gen-Eye POD and MINI-POD video inspection systems from General Pipe Cleaners combine camera, reel and monitor in one package. Features include a 5.6-inch LCD color monitor with padded case. The full-size Gen-Eye POD has a self-leveling camera and 200 feet of Gel-Rod for troubleshooting 3- to 10-inch lines. The MINI-POD carries 125 or 175 feet of pushrod and can troubleshoot 2- to 4-inch lines. A video-out connection enables users to record on an external device. Other features include a picture inverter, AC and DC power cords, LED dimmer control, 3-inch trap skid and 512 Hz transmitter (optional with MINI-POD). 800/245-6200; www.drainbrain.com.





NLB Introduces New Family of Rotating Line Moles

NLB's family of rotating line moles are made to clean the inside of tubes from 0.5 to 1.5 inches in diameter, including around bends. The nozzles offer operating pressures of 10,000 or 20,000 psi and come with left- or right-hand threads and wrench

flats for easy attachment to a flex or rigid lance. Featuring self-lubrication for reduced wear, parts can be replaced in the field in minutes using the rebuild kit. **248/624-5555; www.nlbcorp.com.**

IPS Introduces Test-Tite Mechanical Cleanout Plug

The Test-Tite mechanical cleanout test plug from IPS Corp. is made for quick testing of plumbing drains, waste and vent systems without tools, compressors, pumps, hoses or gauges. The plug can be used to test pressure or temporarily block DWV systems for up to 40 vertical feet of pipe. Features include an expandable rubber gasket compressed between two plastic plates for an air- and water-tight seal. Additional features include a clear cap that enables the user to monitor test media, ensuring that drainage is complete prior to releasing the plug. Made of nylon-reinforced plastic, the plug is available for 2-, 3- and 4-inch pipe. **800/888-8312; www.ipscorp.com.**



Miller Pipeline Introduces WEKO-SEAL

WEKO-SEAL from Miller Pipeline Corp. is made to repair leaking joints in 14- through 216-inch pipe. The flexible rubber leak clamp provides a non-corrodible, bottle-tight seal around the full inside circumference of the pipe joint. The lip seal creates a leak-proof fit on either side of the joint and can be

installed on an array of pipeline configurations. **317/293-0278; www.millerpipeline.com.**

Greyline Introduces Open Channel Flow Monitor

The OCF 4.0 open channel flow monitor from Greyline Instruments uses a non-contacting ultrasonic sensor to measure wastewater flow through flumes or weirs. It features a built-in data logger with onscreen flow reports and software that retrieves, displays and graphs flow reports in customizable formats. Other features include isolated 4-20 mA, 0-5 V, USB and RS232 outputs, three control relays and 10-digit totalizer. Calibration and selection of flume or weir are made through the built-in, three-button keypad and menu system. Calibration is password protected and data totals are safely stored during power interruptions. Temperature compensation is automatic and accuracy is ± 0.25 percent. **888/473-9546; www.greyline.com.**



StoneAge Introduces VE 900 Safety Device

The VE 900 flex lance safety device from StoneAge is made for high-pressure hose operations. Designed to operate in both the vertical and horizontal position, the assembly can be attached to the tube face in various positions and offers a variety of hose collets, making the device adaptable to different cleaning applications. The unit positions the flex lance manually

from tube to tube and locks in place when the handles are released. The stainless steel VE 70000 also is available. Different sized collars are stored in the extension arm for quick access. Two ergonomic handles lock the unit in place. **866/795-1586; www.stoneagetools.com.**

Mr. Manhole Introduces Chimney Repair Package

The Six Shooter cutter/extractor and Easy Slope level tool from Mr. Manhole are designed to cut, remove and replace the frame and surrounding road material in the repair of manhole chimneys. The level is used to place the manhole frame even with the height and slope of the road. Sealants create a waterproof, vacuum testable permanent structure. Ready-mixed concrete is poured and dyed black to match the asphalt and complete the repair. **419/229-3015; www.mrmanhole.com.**



ECD Introduces Triton Dissolved Oxygen Analyzer

The Triton DO8 dissolved oxygen analyzer from Electro-Chemical Devices features a C22 multi-channel controller/monitor that allows up to four sensor inputs, six outputs and six relays. The self-monitoring system stores calibration

data within the sensor. It has a maximum error rate of less than 2 percent, repeatability of ± 0.5 percent and resolution of 0.01 ppm or 0.01 percent saturation. It can withstand ambient temperatures from -20 to 60 degrees C (0 to 140 degrees F) and records measurements at temperatures from 20 to 120 degrees F and pressures up to 145 psi. **800/729-1333; www.ecdi.com.**

Barnett Introduces Voice Alarm Dialer

The ProTalk Cv3 voice alarm dialer from Barnett Engineering Ltd. accepts a variety of sensors (temperature, humidity, air quality, leak, level, motion) and notifies the user when values exceed the recommended range. The unit's integrated cellular module and two-way radio port can make alarm announcements over any combination of cellular network, two-way radio or public address system. Notifications can be voice messages or SMS text. **800/268-2646; www.barnett-engg.com.**



ADS Offers Web-Based Stormwater Design Tool

The Design Pro online program for designing stormwater retention/detention systems from Advanced Drainage Systems can be accessed from the company's Web site. The tool enables engineers to determine the proper components and lay out the design. Password protected, it contains technical resources for creating a corrugated, high-density polyethylene pipe project that can be shared or saved for future reference. **800/733-7473; www.ads-pipe.com.**

Hach Releases FL900 Series Flow Logger

The FL900 Series Flow Logger with Marsh-McBirney Flo-Dar Sensor from the Hach Co. is designed to reduce site time while increasing the safety of flow monitoring personnel. The logger features instant verification of on-site operation/communication, real-time alarms sent directly to e-mail or mobile phones and intuitive setup and data management software. The non-contact sensor eliminates sensor maintenance and the need for confined-space entry. Wireless FL900 Flow Logger models utilize Hach FSDATA Web-based software, eliminating site visits to collect flow data. **800/368-2723; www.hachflow.com/fl900.**



PrimeLine Offers No-Kit Point Repair Materials

Sectional point repair materials, including ambient cure resin, point repair carriers, fiberglass cloth and air pushrods, are available from PrimeLine Products. Materials are available "cafeteria" style, eliminating the need to purchase a kit. Accessories, including lay flat tubing and fasteners, also are available, along with training on installation. **877/409-7888; www.prime-line.net.** ♦



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WORTH NOTING

PEOPLE / AWARDS

Amanda Martin, a graduate student at Virginia Tech, received the American Water Works Association 2010 American Water Scholarship.

Rebecca Ye (Bangor, Maine) was named the U.S. winner of the 2010 Stockholm Junior Water Prize.

Don Allen (Silver Springs) was named the Manager of the Year by the Nevada Rural Water Association.

The Florida Stormwater Association named its award recipients:

- City of Tampa Stormwater Program, Excellence Award
- City of Jacksonville Stormwater Management Program, Outstanding Achievement Award
- City of Casselberry Lake Concord Park Project, Excellence Award
- City of Ft. Myers Billy's Creek Preserve Project, Outstanding Achievement Award

LEARNING OPPORTUNITIES

APWA

The American Public Works Association has an audio/Web broadcast, "Can Hydrogen Boosters Improve Your Agency's Fuel Consumption?" on Sept. 9. Visit www.apwa.net.

AWWA

The American Water Works Association is offering these courses:

- Sept. 1 – Advances in Emergency Preparedness, webcast
- Sept. 15 – Introduction to Laboratory Automation (Management Version), Portsmouth, N.H.
- Sept. 16 – Lab Automation for IT Professionals, Portsmouth, N.H.

CALENDAR

Aug. 30-Sept. 1

American Water Resources Association Summer Specialty Conference, Gran Melia, Puerto Rico. Visit www.awra.org.

Sept. 12-15

WaterReuse Symposium, Omni Shoreham Hotel, Washington, D.C. Visit www.wef.org.

Sept. 27-29

National Rural Water Association's 2010 WaterPro Conference, New Orleans, La. Visit www.waterproconference.org.

Oct. 26-28

National Utility Contractors Association Safety Directors Forum, Las Vegas. Visit www.nuca.com.

- Sept. 22 – Water Storage Tank Operation and Maintenance Part 1, webcast
- Oct. 6 – Water Quality Management Within the Water Storage Tank Part 2, webcast
- Oct. 13 – Practical Asset Management, webcast
- Oct. 18-20 – Water System Optimization Conference, TBA. Visit www.awwa.org.

University of Wisconsin

The University of Wisconsin Department of Engineering-Professional Development is offering these courses in Madison:

- Oct. 26-27 – Essentials of Hydraulics for Civil Engineers and Designers
 - Nov. 15-16 – Advanced Steady Flow Modeling Using HEC-RAS L682
 - Nov. 17-19 – Modeling Unsteady Flow Using HEC-RAS L683
- Visit www.epdweb.engr.wisc.edu. ♦

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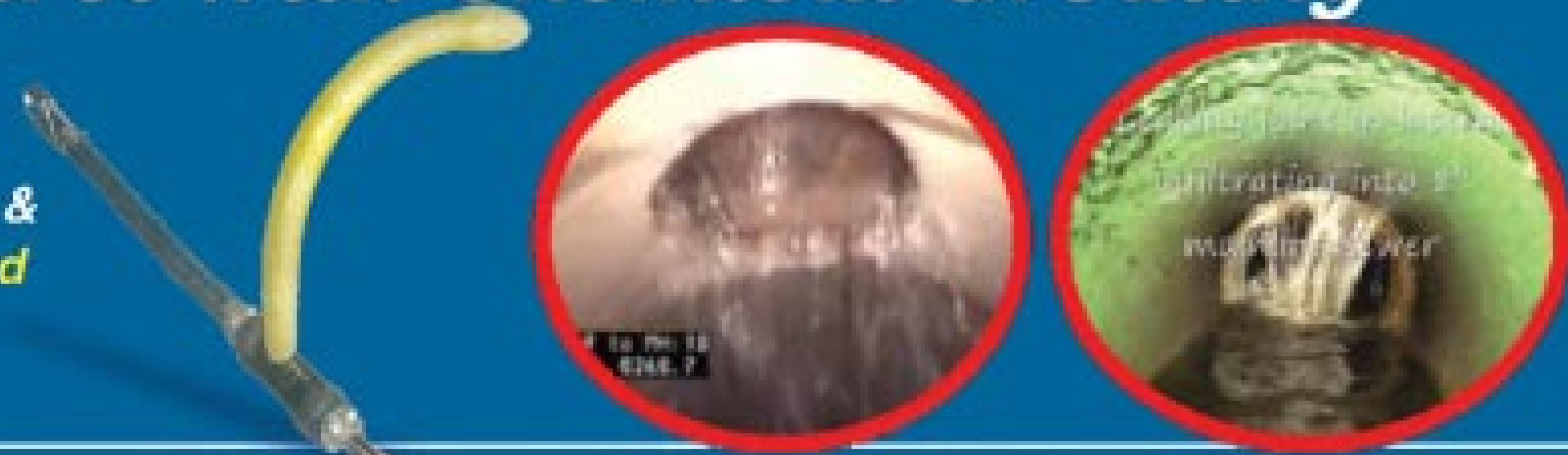
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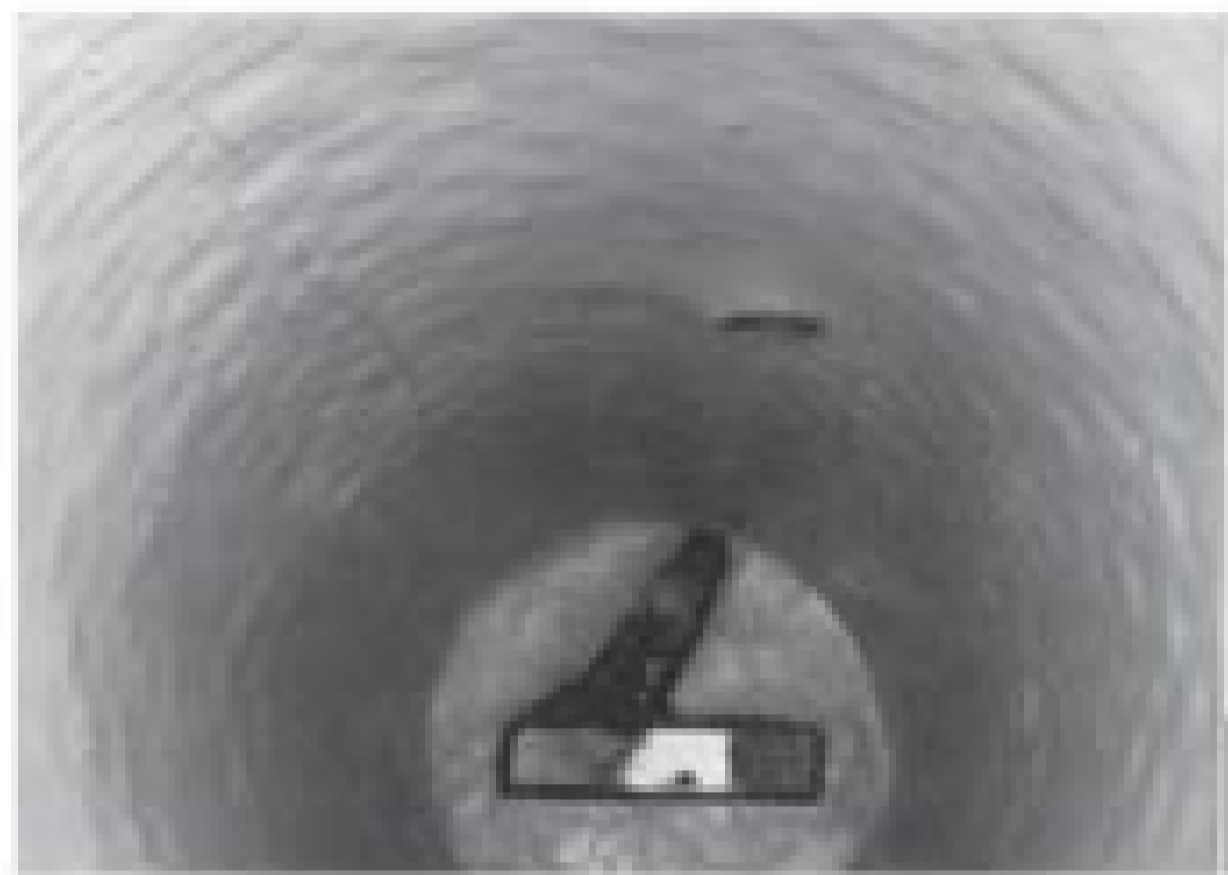


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Looking to sell your portable restroom business? We have buyers looking in the following areas; Florida, California, Virginia, Iowa, Kentucky, New York, Pennsylvania and more! Must have gross revenue in excess of \$250,000 in most cases. E-mail jeffb@colepublishing.com, visit www.BTwo.biz, or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing.** (MBM)

Well-Established and Profitable Texas Septic, Sewer & Installation Business For Sale. PRICE RECENTLY REDUCED. Grossing in excess of \$600,000 annually, customer list of nearly 2,000 accounts and 430 contracted customers. Includes nice late model equipment, most are 2007, 2008 model years. Owner retiring after nearly 40 years in business. Real estate available upon request. Reduced to \$450,000. E-mail jeffb@colepublishing.com or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing - www.BTwo.biz.** (MBM)

BUSINESSES

Very successful established Midwest based full service Trenchless Sewer Company with municipal and industrial experience and contacts available for acquisition. Serious confidential inquiries only. Please respond to P.O. Box 154283, Irving, TX 75015-4283 or email: cippcompany@yahoo.com. (CMBM)

Dallas/Fort Worth Texas Area Sewer/Rehab Business For Sale. Drain Cleaning, TV inspection, Pipeline & Manhole Rehab/ Relining, Municipal Cleaning and Maintenance business for sale. Excellent opportunity to expand or start your own business. Good revenue history and priced to sell. Includes all equipment to get started. **Offered at \$150,000.** E-mail jeffb@colepublishing.com, visit www.Btwo.biz, or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing.** (MBM)

Green Bay Wisconsin Area Septic & Drain Business For Sale. Solid and steady revenue history and nearly 20 years established. Excellent opportunity to expand or start your own business. Includes very well-maintained 3,800 gallon septic service truck, fully outfitted 2002 Chevy drain service van, drain & sewer equipment, all office equipment and computers, 2,700+ customer list, and more - a true turn-key or easy expansion opportunity. Very meticulously maintained equipment all kept inside a heated shop. Current owner is retiring. Large shop and real estate is also available if desired at additional cost. **Offered at \$249,000.** E-mail jeffb@colepublishing.com, or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing; www.BTwo.biz.** (MBM)

Looking to sell your industrial cleaning, hydroexcavation or waterblasting business? We have buyers. Must have gross revenue in excess of \$1,000,000 annually. Nationwide interest. E-mail jeffb@colepublishing.com or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing.** (MBM)

BUSINESSES

Chicago-Area Biosolids, Land Application, Dredging and Industrial Services Business. Established in 1985, owner is retiring. Reputable business includes real estate servicing the entire Chicagoland area with sludge and biosolids disposal and treatment services. Real estate and shop included with sale valued at \$750,000, business grosses in excess of \$3 million annually, \$6.3 million in equipment and assets including several TerraGators, Vac Trailers, dump trailers, loaders and much more. Offered at \$4,900,000 - huge potential, good profit and priced right. Non-Disclosure Agreement required, all P&L statements, list of assets, and financials available to qualified buyers. E-mail jeffb@colepublishing.com or call 800-257-7222 and ask for Jeff Bruss for more details. **A B2 Business Brokerage Listing - www.BTwo.biz.** (MBM)

BUSINESS OPPORTUNITIES

Looking to sell your business? We can effectively market your business to more than 60,000 potential buyers in the liquid waste, portable sanitation, and sewer & drain industries, as well as your local markets, the Internet and other venues. No upfront fees — you don't pay unless your business sells. To learn more about brokering your business through B2 Business Brokers powered by Municipal Sewer & Water, call 800-257-7222. (MBM)

CATCH BASIN CLEANER

1997 Vac-All Catch Basin Cleaner, body only. 1997 E5-13D Vac-All catch basin cleaner, 13-yd. body, vibrator screen washer (roof of body), Paco water pump 75 psi, 120 gpm, 350-gallon water tank, Cummins 6BT 5.9 120 hp diesel engine. (Stock #010110-1) **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (M9)

DEWATERING

FOR SALE: Envirex gravity belt thickener, 1.0 meter model S. New condition. 507-583-7308. (M11)

Xtreme Flow Cold Jetter - New! Model # CJ85-3600TU, tandem axle trailer, 35 HP Vanguard, 8.5 gpm @ 3,600 psi, 325 gal. water tank, 300' hose, General pump. List \$19,995. **Sale only \$14,995. Fully loaded!** 800-624-8186; www.hotjetusa.com. (MBM)

2006 GMC TC6500 cab and chassis with Pipe Hunter trunk mounted jetting unit, 3000 psi @ 50 gpm with a 1,000 US gal. water tank, rear mounted hose reel with JET EYE camera system. **6,800 original miles, new new. \$129,000 sale price. (Retail for \$210,000)** (Stock #13234V) **www.VacuumSalesInc.com, (888) VAC-UNIT (822-8648).** (M9)

PIPE REHABILITATION

Cues TV/Cutter Trailer: 2007 Evolution package, with or without camera, cutter or compressor. Call or go to our web site for photos and specs. www.mccannsunderground.com. Financing available. Kelly 608-279-2299. (MBM)

POSITIONS AVAILABLE

National Tools Sales: Nozzles and sewer cleaning tools experience a must. No relocation required, extensive travel. Salary, good benefits and commission. **Arizona Sales Rep Wanted:** Represent our full line of wastewater, streets and maintenance products. Must have good knowledge of the industry and equipment demonstration experience. Salary, good benefits and commission. **Counterman, Shop Help:** Based at our Torrance, California headquarters, must have plumbing or municipal maintenance experience. Good with tools and computer literate. Neat and dependable. Salary, good benefits and commission. Please contact us with your resume and references. Advanced Infrastructure Technologies, sales@advancedworld.com, www.advancedworld.com. (M9)



2007 SECA TGV-2600: 3-yd. debris body, 40 gpm @ 2000 psi Tri-plex pump, 188 hp Cat engine, recirculation system, 1400 cfm blower, hydraulic dump & rear door, hydrostatic drive, 4" catch basin tube & rotating boom. (Stk. 1647)

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1997 Camel MCB on a 1997 GMC C8500: 10-yd. debris body, 500 gal. water tank, hyd. extendable boom, catch basin gun with reel, Cat 3116 250 hp diesel, tandem axle, 18,000 mi./5,800 hrs. (Stk. 1659)

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Featured on the cover of *Cleaner Magazine's* June issue, **UTILITY SERVICES GROUP** is a growing family-owned company servicing the Mid-Atlantic region. We are seeking CCTV, GROUT, JET/VAC, and TRENCHLESS REHABILITATION foremen and technicians. Applicants should have a minimum of 1 year experience. We offer great opportunities for advancement, pay and relocation subsidy. Send resumes to HR@usginc.net, Fax: 717-737-6093, or USG HR Department; 1304 Slate Hill Road; Camp Hill, PA 17011. (M9)

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Buy & Sell all makes and models, **new & used** vacuum pumps & high pressure water pumps, and good used replacement parts. Call for an inventory sheet and save. www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

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SEPTIC TRUCKS

Pre-owned 2300 US gallon carbon steel vacuum tank with Masport H75V vacuum pressure pump installed on a 1987 Ford L8000 cab and chassis. (Stock #4556V) www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

2000 Mack RD, 400 hp, 4200 gallon Transway tank, 800 Fruitland pump. Truck is like new. Custom built, never in salt. \$130,000. Call 978-807-5550. (P9)

Five (5) 2003 to 2006 3200 US gallon **stainless steel** vacuum tanks. www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

2010 Peterbilt 348s with new Presvac 3600 US gal. aluminum vacuum pressure tanks with Masport HXL400WV vacuum pressure pumps. (Stock #8807 & 8808) www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

SEPTIC TRUCKS

1998 Mack RD6885 with a 3200 US gallon stainless steel vacuum tank unit. (Stock #6653V) www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

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VACUUM LOADERS

2008 Demo Internationals 7600 with a Guzzler Ace XXS4118TS wet/dry industrial vacuum loaders, 18-yd. debris body, dump-type, carbon steel vacuum tanks. **Demo/Rental unit.** (Stock #'s 4400V & 4401V) www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

1999 International with a Guzzler Ace 27' HG wet/dry industrial vacuum tank loader. **Demo/Rental unit.** (Stock #7390) www.VacuumSalesInc.com, (888) **VAC-UNIT (822-8648)**. (M9)

1998 Guzzler/Ford Ace wet/dry, 5,500 cfm, 27' blower with full open rear door and offloading pump. Clean truck. KLM Companies, 617-909-9044. (P8)

WANTED

WANTED: Juggler truck. 614-491-2121. (P9)

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