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INSIDE:

STORMWATER MANAGEMENT



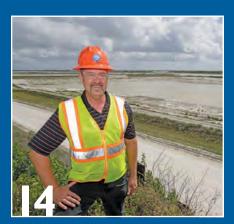






ON THE COVER:

Greg Coffelt, principal engineer and project manager of the South Florida Water Management District's L-8 Flow Equalization Basin Project in Loxahatchee, Fla., stands in front of one of the massive water basins being constructed as part of the project. (Photography by Jacek Gancarz)



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SHELTER FROM THE STORM

A thoughtful and focused approach to stormwater management can lead to significant improvements

tormwater is the proverbial double-edged sword. We need the rain, but it can create a host of problems, from flooding to pollution to death.

This summer, the U.S. EPA ordered 85 municipalities in north central and northeast Pennsylvania to improve their stormwater management programs. The EPA issued the orders to augment Pennsylvania's efforts to ensure effective stormwater management programs are in place to improve water quality in local streams and

the Chesapeake Bay. Pollution has had a big impact on the bay, and the EPA orders are just part of a much broader effort to limit untreated stormwater runoff from the heavily urbanized area from polluting it further.

The EPA also released the Flood Resilience Checklist to help communities prepare for, deal with and recover from floods. The new tool offers strategies that communities can consider, such as conserving land in flood-prone areas; directing new development to safer areas;



FROM THE EDITOR

Luke Laggis

and using green infrastructure approaches, such as installing rain gardens, to manage stormwater.

"Flooding from major storms has cost lives and caused billions of dollars in damage," says EPA Administrator Gina McCarthy. "With climate change, storms are likely to become even more powerful in many regions of the country. Where and how communities build will have long-term impacts on their flood resilience, and on air and water quality and health and safety. This checklist will help flood-prone communities think through these issues and come up with the solutions that work best for them."

Fort Worth, Texas, profiled in this month's issue of *MSW*, provides a great example of how a thoughtful and focused approach to stormwater management can lead to significant improvements.

The city was prone to flooding after heavy rains, often with catastrophic results. Since 1986, 17 people have died in flooding-related episodes in the city.

Stormwater management operations had been completely reactive, but after a 2004 storm in which a mother and her two children drowned in their car, the City Council directed a committee of city employees, property owners and others to explore solutions. The panel hired a consultant and came back

recommending the creation of a separately funded stormwater utility. That was launched in the spring of 2006. The city has since invested people, management tools, technology and money to make stormwater management a major priority.

The financial investment was key to making it all work. Before the creation of the utility, the city spent about \$6 million a year on stormwater-related operations and \$3 million on capital improvements. For fiscal year 2014, the operational budget will top \$35 million and the capital budget \$12 million. Projects have come in all shapes and sizes, from planting native grasses in channels, to reconstructing streets and building retention basins.

A key sign of progress is the fact that the last known flooding-related death was seven years ago, in March 2007.

Fort Worth's initiatives present some valuable lessons for any utility struggling to deal with stormwater issues. No matter what the situation, the proper approach will lead to improvement. Invest in people, management tools and technology, and make it a priority.

Enjoy this month's issue. ◆

Comments on this column or about any article in this publication may be directed to editor Luke Laggis, 800/257-7222; editor@mswmag.com.





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FEDERAL AID

Most Expensive Winter on Record?

The story of the 2013-14 Polar Vortex continues in the Midwest, where the State of Wisconsin is busy working on a federal disaster aid application. The State hopes to recoup some of the \$25 million in infrastructure damage that occurred thanks to Old Man Winter's brutal visit to the region. Find out how deep those frost lines went, and learn more about water main breaks, nonrevenue water loss and more in this report on the federal disaster declaration. www.mswmag.com/featured

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NEWS BRIEFS

Stormwater Fee Case **Heads to Supreme Court**

The Ohio Supreme Court has agreed to hear arguments in a four-year battle over stormwater fees and the management of a regional stormwater program. Although the specifics address the Greater Cleveland area, the court's decision could have broader interest. Learn more about the intricacies of the case, how much revenue the fees could produce and why some communities are protesting them. www.mswmag.com/featured



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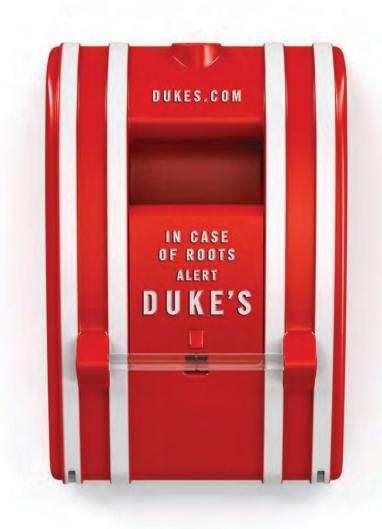


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AHEALTHIER SYSTEM

The South Florida Water Management District balances the responsibility of providing water to nearly 8 million residents with restoration of the Everglades

By Peter Kenter

The South Florida Water Management District (SFWMD) is the largest of five water management districts in Florida, overseeing water resources and providing flood control in 16 counties from Orlando to the Florida Keys. It also happens to be responsible for the restoration of the Everglades, the largest environmental restoration project in American history.

The district relies on both lakes and aquifers to provide raw water. At the headwaters of the Everglades is Lake Okeechobee, the largest freshwater lake in the state. It's the responsibility of the SFWMD to ensure there is an adequate supply in the regional system – including aquifers, lakes and conservation areas – to satisfy the needs of residents, businesses and the environment. Floodwater is managed through a series of canals and culverts.

The Comprehensive Everglades Restoration Plan has become a district priority, primarily to counteract some of the more harmful effects of development that have significantly reduced the size and also undermined the quality of this unique environment. The program operates in conjunction with the governor's Restoration Strategies Plan to improve water quality for the Everglades.

"Early developers in this part of Florida simply saw the natural habitat as swampland and the only way to claim that for urban or agricultural use was to dig canals and drain that land," says Jeff Kivett, division director of Operations, Engineering & Construction with SFWMD.

Droughts and hurricanes

In 1947, the state recovered suddenly from several years of drought – with a deluge averaging 100 inches of rain along the lower east coast, topped off by two hurricanes. The Fort Lauderdale hurricane in September of that year forced a large storm surge over the Herbert Hoover Dike, which was built around Lake Okeechobee by the U.S. Army Corps of Engineers following a 1928 hurricane.

"People have begun to realize that the canals themselves represent an environmental issue and must be balanced against the need to restore the Everglades ecosystem."

- Jeff Kivett

SFWMD's predecessor, the Central and Southern Florida Flood Control District (CSFFCD), was created in 1949, primarily to reduce such flooding using engineered dams, levees and canals. However, the flood control measures created their own set of problems.

Kivett describes the Everglades as a slow moving river of grass. The water naturally passing over central Florida is known as sheet flow.

"The canals changed the period of flow and the water recession rates," Kivett says. "Water now moves through the region too quickly and the land dries out too soon. The change in the rate of water flow and phosphorous entering the Everglades from agricultural land replaced the natural sawgrass with

competing cattails, changing the natural environment."

Restoring the Everglades

The SFWMD was established in 1972, evolving from the CSFFCD but given the authority to levy property taxes to fund its activities. The Comprehensive Everglades Restoration Plan was established in 2000 to help reverse the damage to the ecosystem. A host of massive construction projects have been designed to slow down the sheet flow, improve flood control, control runoff and re-establish natural sawgrass - all while maximizing the availability of freshwater and maintaining the current water distribution system.

The district currently manages about 2,000 miles of canals, more than 2,800 miles of levees and berms, 69 pump stations, 645 water control structures and more than 700 culverts.

"A lot of that infrastructure dates back to a period ranging from the 1940s to the 1970s," Kivett says.

Much of the distribution system is made up of natural earth canals, concrete-lined canals and corrugated metal pipe culverts as wide as 15 feet and up to 25 feet tall.

"Some of our larger pipes are concrete that range in size up to (continued)

Jeff Kivett, director of Operations, Engineering & Construction, at the South Florida Water Management District's control room. Specialists operate flood control and water management systems from Orlando to the Florida Keys around the clock from here. It is located in West Palm Beach, Fla. (Photography by Jacek Gancarz)





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Left: Construction workers with the contractor, Archer Western, work atop a pump station currently under construction at the South Florida Water Management District's L-8 Flow Equalization Basin Project. Top Center: Workers pre-weld a waters top for the pump station. Right: Construction of the inflow structure at the flow equalization basin in Loxahatchee, Fla. Bottom Center: Workers secure steel reinforcement during pump station construction.

12- by 12-foot box culverts," Kivett says. "We generally talk about moving acre-feet of water, but the typical pipe structure has a capacity to move anywhere from 1,000 to 4,000 cubic feet per second of water through our system."

verts. They're sandblasted and recoated every 10 to 12 years.

Steel culverts are also routinely replaced, offering a shelf life of 20 to 30 years.

"We conducted a study of the average service life of the steel culverts

"Early developers in this part of Florida simply saw the natural habitat as swampland and the only way to claim that for urban or agricultural use was to dig canals and drain that land."

- Jeff Kivett

The most frequent maintenance effort is concentrated on the metal grates that prevent access to the cul-

and found that stainless steel was performing far better than regular steel," Kivett says. "We're now doing all of our replacements with stainless."

Another more unusual maintenance concern – mowing the grass on the levees.

Canal system is evolving

The district is managing a \$50 million capital improvement program to replace older structures and upgrade pump stations. However, it's the canal system itself that's currently facing the most exacting scrutiny.

"People have begun to realize that the canals themselves represent an environmental issue and must be balanced against the need to restore the Everglades ecosystem," Kivett says. "Some of those canals, for example those going through downtown Miami and West Palm Beach, are going through rehabilitation – dredging and cleaning so they can function to the specifications for which they were orig-

(continued)

PROFILE: South Florida Water Management District

YEAR UTILITY ESTABLISHED: 1949

CUSTOMERS SERVED: 7.9 million residents

AREA SERVED: 17,930 square miles

DEPARTMENT STAFF: Approximately 1,500

INFRASTRUCTURE: 2,000 miles of canals; 700 culverts

ANNUAL BUDGET: \$480 million

ASSOCIATIONS: American Water Works Association

WEBSITE: www.sfwmd.gov



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inally designed. However, other canals, particularly the ones carrying water from Lake Okeechobee through wetlands, are being replaced with large reservoirs."

The reservoirs are essential to the district water supply. Although this area of the state is blessed with 50 to 60 inches of rainfall per year, the district still must promote conservation to balance supplies with the needs of citizens, businesses and agriculture – particularly during dry periods.

"We can have an early wet season and a damaging release of water and in a few weeks go from way too much water to managing a drought," Kivett says. "That's one of the biggest challenges of the district."

The largest current storage project is the L-8 Flow Equalization Basin in Loxahatchee, about 20 miles west of West Palm Beach, one of six similar projects planned for the district. The facility is a conversion of a 950-acre open pit lime-

"We can have an early wet season and a damaging release of water and in a few weeks go from way too much water to managing a drought. That's one of the biggest challenges of the district."

- Jeff Kivett

stone rock mine purchased by the state in 2007 for about \$220 million and augmented with \$64 million in additional infrastructure.

"Once the state purchased the site, we asked the miners to go deeper, from an average of about 40 feet to about 53 feet, by removing additional materials," Kivett says. "There are multiple canals that will feed into it, and the basin will be divided into seven storage cells and associated control structures capable of managing 15 billion gallons of water."

Storing water in limestone

The limestone rock pit provides a naturally secure basin for the storage of water, demonstrating very low rates of seepage. Construction work by Archer Western Contractors includes creation of an inlet structure and outflow pump station. Additional work at the facility is designed to minimize erosion

OF WATER AND WILDLIFE

One of the responsibilities of the South Florida Water Management District (SFWMD) is the protection of wildlife indigenous to the Everglades. That includes manatees, crocodiles and alligators.

The water environment includes a large number of points where both inland freshwater and brackish ocean water can mix. However, the district must protect its freshwater from saltwater backflow.

"Our floodgates on the Atlantic coast feature closures that are designed to keep freshwater inland when we have an abundance, but also to keep salt water from going inland during the Florida dry season," says Jeff Kivett, division director of Operations, Engineering & Construction with SFWMD. "If salt water went too far inland, it could damage our freshwater wells."

This water management also represents a delicate environmental balance between fresh and salt water, because the Everglades represent the only habitat on Earth where freshwater alligators and saltwater crocodiles coexist.

Manatees, which are primarily sea creatures, must also travel inland for sources of fresh drinking water.

As part of the district's mandate, tidewater culverts must carry 3 feet of water at low tide to prevent manatees from becoming stranded inside. Other areas sensitive to wildlife are outfitted with special sensors to detect their presence.

"We can detect if a manatee is at or near a coastal gate," Kivett says. "The sensors are very sensitive, so if a manatee is detected, the gates will automatically adjust to allow the animal to pass." Above: One of the South Florida Water Management District's water basins in Loxahatchee. Below: Centerline Drilling employees, Justin Cox, a driller, and floater Jose Uria install a monitoring well on the outskirts of one of the water basins.





also moderate the flow of water into the various marshes stormwater treatment areas - and then ensure that we maintain some of the historically natural flow to them during dry periods."

The L-8 basin is scheduled to be completed in December 2016, but the restoration of the Everglades is a much longer-term project.

"We're already achieving success for our efforts," Kivett says. "The rate of deterioration of the Everglades ecosystem has been greatly slowed down and we're seeing a much healthier system." \(\int \)

Newsworthy items may include business expansion, honors and awards, new contract announcements, employee promotions, executive hires and new services

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around the edges of the basin. This includes cement lining for the levee surrounding the facility, a foot of soil cement - rock mixed with cement - and a 20- to 30-foot-wide rock layer.

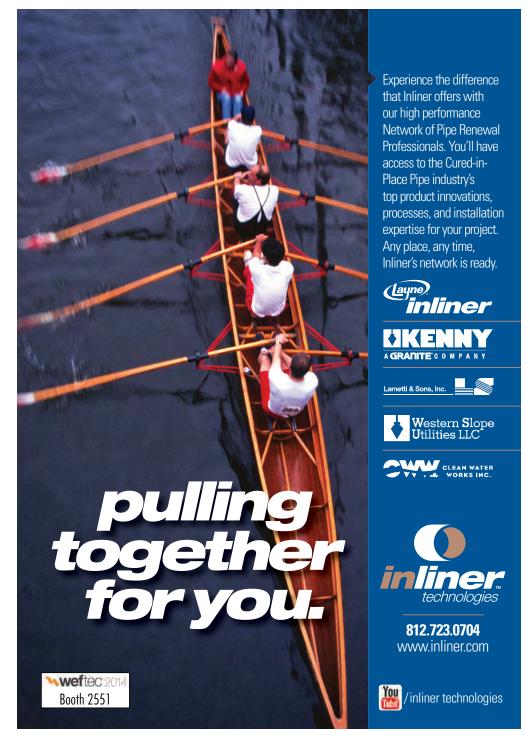
The equalization basin will be able to accept an inflow of up to 3,000 cfs of stormwater and will be pumped out at a rate of up to 450 cfs.

"The engineers at Jacobs Engineering Group Inc. designed a two-stage pumping system," Kivett says. "If the reservoir is at the high stage, we can use a less powerful pump to remove the water. A second, more powerful pump will be used on water that needs to be pumped out when levels have dropped down significantly."

The basin has already been used to the district's advantage. In 2012, approximately 3.1 billion gallons of water were directed to the basin during Tropical Storm Isaac. The City of West Palm Beach also used more than 600 million gallons of water from the basin to supplement its water supply during the drought of 2007.

"Once the facility goes fully online, we can preserve freshwater that was once let out to tide and then reconnect some of the historical flow paths of the Everglades," Kivett says. "We can











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BLAH, BLAH, BLAH

If your efforts to communicate keep getting lost in translation, it's time to try a better way to get your point across

By Ken Wysocky

et's face it: Just about everyone believes they're an effective communicator. But as the famous playwright George Bernard Shaw once noted, the single biggest problem with communication is the illusion that it actually occurred.

If you think this is an amusing overstatement, stop for a minute to recall the most recent department meeting you sat (or slept) through. Or the brain-numbing presentation you heard at the last professional seminar you attended. Or the confusing impromptu sitdown you had with a few engineers down the hall or with colleagues out in the field. An honest analysis reveals a hard truth: Good communication is difficult.

So how do you avoid suffering the dreaded "fail-yuh to communicate," as the prison captain in "Cool Hand Luke" so famously drawled? Karen Friedman, the author of Shut Up and Say Something: Business Communication Strategies to Overcome Challenges and Influence Listeners, has some suggestions.

A former television news reporter and anchorwoman for 20 years, Friedman is the owner of Karen Friedman Enterprises Inc. (www.karenfriedman.com), a Pennsylvania-based communications-consulting firm. As such, she's seen plenty of examples of poor communication and the resulting fallout, which can range from higher rates of costly employee turnover, reduced productivity and low

morale to increased employee stress and absenteeism and more frequent project failures and budget overruns.

"In all my years as a television reporter and now as a communications coach, I've realized that people have a tendency to slip into detailed and data-heavy information - it's difficult for them to explain a complicated subject in ways people will understand. They eat, sleep and breathe it, so it makes perfect sense to them, but it sounds absolutely foreign to someone else.

"To effectively communicate, you must sit in the seat of the per-

"To effectively communicate, you must sit in the seat of the person to whom you're talking think about what they would care about."

- Karen Friedman

'blah, blah, blah' mode," she says. "They're smart people and have something valuable to say, but they don't know how to say it in a way that engages their audience. In the title of my book, I don't really mean that people should just shut up, but instead should think carefully about what to say and how to say it in a meaningful way."

No jargon

One of the biggest communication problems in the business world could be rightly called speaking in tongues. Any citizen who's heard a data- and jargon-filled public presentation about a new sewer or water project is no doubt painfully aware of this all-too-common syndrome.

"In the business world, people are very close to their subjects," Friedman explains. "And if you take a researcher or an engineer - very smart people who deal with very son to whom you're talking - think about what they would care about," she emphasizes. "Do they need all this information I'm giving them? Chances are the answer is no. Poor communicators tend to deliver too much information and fail to make it pertinent to the listener. You need to first deliver a headline to gain their attention, then get to the point. People have short attention spans."

Presenters at such forums often are fearful of "dumbing down" their presentations. But she asserts that it's far better to present things simply and clearly to the public. If not, you run the risk that any reporters who are present will deliver the message to the public incorrectly and communicate something you never intended.

Less is more

"People don't want a data dump - a litany of everything you know," she adds. "They only want to know

We invite readers to offer ideas for this regular column, designed to help municipal and utility managers deal with day-today 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 Luke Laggis at 800/257-7222, or email editor@mswmag.com.

what's in it for them and what you want them to do with the information. It's best to condense information and pick two or three key points that are most important to the listener. Then use real-life examples that create an even better understanding."

Here are some other communication pointers from Friedman that are worth following no matter what the setting, from public presentations to one-on-one meetings:

- · Start with the end in mind. Think about what the real message is - what key thought you want your audience to take away or what outcome you desire.
- If you use a PowerPoint-type slide presentation, don't make the slides a detailed script from which to read verbatim; it will bog down your presentation because people will read the slides instead of listening to you. "You should never follow the slide, each slide should follow you - reinforce what you say," Friedman says.
- Make an emotional connection. Don't constantly straighten your hair or look at a clock or mess with a smartphone. Instead, be present. "If you want to create a presence, be present," she suggests. "Look people in the eyes and make them feel valued. Communication isn't about talking; it's about connecting."



- Talk with oomph. Don't speak in a monotone voice; instead, talk with up-and-down voice fluctuations, just as you would in a normal conversation. "Speak with energy and project," she advises. "Even if you're just talking to your peers, you still should be 'on' and trying to make a point. If you want other people to be excited, you have to be excited too."
- Use strong words. Instead of peppering a conversation/presentation with words like "I think" and "maybe," use "I believe" and "Here are the facts."
- Give listeners a chance to digest information. Pause periodically and let them "come up for air," Friedman says.
- Always drive home your main message or messages again at the end of a conversation or presentation. Reinforcing the message is key.

More important than ever

Effective communication is even

more difficult these days because it's harder and harder to rise above the din of all the communication technology that surrounds us, especially ever-present social media. "Our attention spans are dwindling and we're becoming more impatient as a society," Friedman says. "Thanks to all the communication vehicles around us, we've come to expect everything instantly. We have access to information 24/7. That makes it even more important to cut to the chase and be concise."

Those who don't will run the risk of sounding like this famous quote, usually attributed to the late Robert J. McCloskey, a former diplomat and U.S. Department of State spokesman, who reportedly uttered it at a press briefing during the Vietnam War: "I know you believe you understand what you think I said, but I'm not sure you realize that what you heard is not what I meant."

Even after several readings, it's difficult to decipher the meaning. But one thing is crystal clear: George Bernard Shaw had it right. ◆









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MAXIMIZING **EFFICIENCY**

Waukesha Wastewater Treatment Division navigates a maze of system improvements and plots a course for stronger operations

By Doug Day

he first wastewater treatment plant in Waukesha, Wis., was built in 1890. While some of the original pipes from that era are still in the ground, a new master plan for the Wastewater Treatment Division is serving as a road map for updates and improvements to the system.

"It gives us the ability to focus on a process and makes everything more proactive," says Jonathan Schapekahm, hired in 2010 to coordinate the department's new capacity, management, operation and maintenance (CMOM)

sewer system began in 2009 in reaction to inquiries by the U.S. Environmental Protection Agency about eliminating sanitary sewer overflows.

"We hired Donohue & Associates optimize it so it not only to study the system and develop a master plan and 20-year capital improvement plan," says Schapekahm. It also

> help-ed the city comply with a new Department

of Natural Resources rule that requires a CMOM program. "The study found that our system is quite robust and performs really well. But there are ways we can optimize it so it not only works better, but more efficiently from a cost standpoint."

Having easy access to such information has helped the Wastewater Treatment Division work more closely with other departments, especially the city's street reconstruction program and water utility's water main projects. "The synergy between us is much better," says Schapekahm. "If they're going to do a street, we're looking at it and so is the water utility, so we can coordinate projects and not tear up areas two or

Kurt Hopkins tracks a camera in a sewer main while he and his crew inspect lateral lines. Right: Hopkins marks the location and depth of a lateral line. (Photography by John Ehlke)

three times.'

Goals

system is quite robust and

performs really well. But

there are ways we can

works better, but more

efficiently from a cost

standpoint."

- Jonathan Schapekahm

The objective of the plan is to improve the capacity, efficiency and integrity of the sanitary sewer system. "We are in the last year of a four-year project to inspect every one of our 6,134 manholes," says Schapekahm. By the end of 2014, all of them will have been visually inspected and photographed. Data is recorded in the field and uploaded to the utility's VUEWorks asset management software.

Chris Langemak, a project engineer for the department,

program. A complete examination of the "The study found that our says the master plan allowed the development of a comprehensive televising schedule. "Our original goal was 10 years to televise the entire system and we're on track to complete it in seven. It will give us a good baseline that will be used to determine future rehabilitation projects and repairs."

> Reducing the number of pump stations is another goal the department is pursuing, along with adding backup power or pumping capability. It will also help toward a goal

of replacing or removing all ferrous force mains by 2025 to meet a requirement of the Department of Natural Resources since deteriorating force mains are a major contributor to system overflows.

"The 20-year capital improvement program helps not only for projects, but for budgeting to help manage our rates," adds Langemak. "It incorporates everything from sewer relays and interceptor projects to the wastewater treatment plant and vehicle replacement."

Such a plan helps keep rate increases below 9 percent. "We originally (continued)





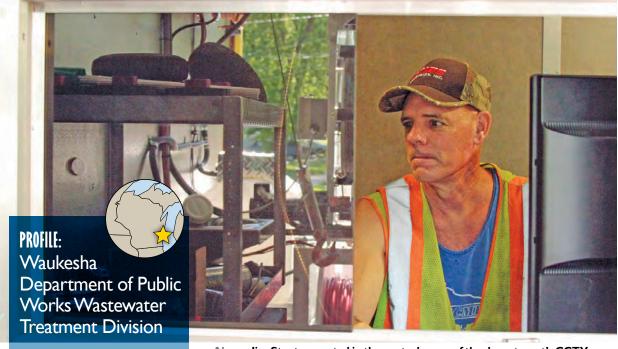


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The first wastewater treatment plant was built at the current site in 1890. A new plant was built in 1928. The current activated sludge plant was built in 1995.

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WASTEWATER INFRASTRUCTURE: 270 miles of gravity sewers, 42 pumping stations, 22 miles of force mains, Waukesha Wastewater Treatment Plant (18.5 mgd), currently in the midst of a \$43 million upgrade

EMPLOYEES:

40 in the Wastewater Treatment Division, including the wastewater treatment plant

ANNUAL OPERATING BUDGET: \$7.7 million

ASSOCIATIONS MEMBER-

National Society of Professional Engineers, Wisconsin Wastewater Operators Association, Water Environment Federation, Central States Water Environment Association, Municipal Environmental Group

WEBSITE:

www.ci.waukesha.wi.us/ publicworkswastewater Above: Jim Stanton, seated in the control room of the department's CCTV truck, operates a remote controlled camera during a sewer main inspection. Top right: George Boniewaz (left) and Dennis Hoffmann work on flushing a sewer main. Middle right: Hoffmann shines a spotlight down a manhole while flushing the main. Bottom right: The inspection camera sits in the truck with hose and cables connected, ready for deployment.

had several interceptor projects scheduled for this year and last year," adds Schapekahm. "When we put them, along with a treatment plant upgrade, into the 20-year spreadsheet, it showed a rate spike of 15 percent." To avoid that, the work was rescheduled for 2016.

The \$611,000 study has helped the department spend money more efficiently, according to Langemak. "By analyzing our pipe cleaning operations, we realized we were cleaning clean sewers. We can now take some of those crews and have them televising sewers so we can better identify problems."

"We once found a step in the middle of a flow line that we had to take out. We were able to strike a lot of those places off the flushing schedule by fixing those issues. It helped us get a grip on the hotspots."

Manhole rehab

Schapekahm has an annual budget of \$300,000 for repairing manholes. Using VUEWorks, he knows which ones need new chimneys, cones or barrel sections. Each is also rated on a 100-point scale.

The original master plan inspection looked at 477 of the manholes and found 16 needing replacement

"The 20-year capital improvement program helps not only for projects, but for budgeting to help manage our rates. It incorporates everything from sewer relays and interceptor projects to the wastewater treatment plant and vehicle replacement."

- Chris Langemak

Langemak and Schapekahm both spent time with sewer flushing crews three years ago to gain a better understanding of the areas that were under a 30-day flushing schedule. "We asked why we were flushing those areas," recalls Schapekahm.

and another 281 that required repair. "This year I did a query and noted many of our manholes downstream of pump stations were suffering. So I specifically went after those."

He can also do scenario planning. "I can input my budget over a num-







ber of years and see how that would affect the overall sanitary system manhole scores," he explains. "I can see if we are holding our own, falling behind or catching up based on the score. It can help justify additional funds for manhole repairs if needed."

As part of the rehabilitation plan, he has increased the use of the PRO-RING grade adjustment system from Cretex Specialty Products, which is made of durable expanded polypropylene. It started with just two manholes in a low-traffic residential area in 2010 and a few more in 2011. "In 2012, we had a concrete road that has a lot of truck traffic. Almost all the manholes in the southbound lane are in the wheel line and had sunk a little bit."

Not only were the manholes getting a pounding, so were the vehicles. So Schapekahm put in 25 PRO-RINGs on that street. It worked so well that he started using them on all sanitary manholes in 2013. "We did a cost-benefit analysis. The

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REPLACING PRIVATE LATERALS STRENGTHENS COLLECTION SYSTEM

Traditionally, service laterals connecting properties to the sewer line are private property and the responsibility of the building owner. The Waukesha Wastewater Treatment Division no longer makes that distinction when replacing sewer pipes.

"When we replace lines, we also replace the private sewer lateral in the right-of-way," says Project Engineer Chris Langemak. "We don't want to be digging up the roads again, and it is also reducing I&I issues."

The work is treated as part of the overall project and paid for by ratepayers rather than the property owners. It didn't take much to convince the Board of Public Works, and the new policy took effect in 2013. "We were sick of cutting open streets," says Langemak of the motivation to look into the idea.

He directed a contractor who was televising a line that was scheduled for replacement to also televise all 48 service laterals. At least 75 percent of them had problems such as tree roots, severe clogs or misaligned joints. It also showed that the service laterals were made of many different types of materials.

A neighboring community, Wauwatosa, had also studied the cost-effectiveness of such an approach and provided data to support the concept. It is more expensive than one would think, adding about 30 percent to the cost of replacement projects. "We did a 1-mile long replacement last year and it had 90 connections," says Langemak. "It adds up really quickly."

Replacing those private services has long-term benefits, according to CMOM Coordinator Jonathan Schapekahm. "Imagine you have an 1890 sewer line. You replace that and leave the 1890 laterals under a brand new road. How much sense does that make? Eventually that service will fail and need to be replaced by the property owner, which may include digging up a newly reconstructed road."

The new policy fits with the department's long-term goal of providing the most cost-effective solution, even if that means spending more money to make sure everything in the right-of-way is in good condition, according to Langemak. "We're not looking at it as just the integrity of our sewer system, but of our road system as well, and ensuring the money we're spending is the most cost-effective for the long term."





"I can input my budget over a number of years and see how that would affect the overall sanitary system manhole scores.

I can see if we are holding our own, falling behind, or catching up based on the score. It can help justify additional funds for manhole repairs if needed."

- Jonathan Schapekahm

most common failure mode in manholes is the freeze-thaw cycle. It seemed like we were just chasing our tails. The PRO-RINGs were about 1.1 times more expensive, but in terms of maintenance we're going to come out ahead. We're starting to do the same thing with stormwater manholes."

Schapekahm is also doing something a little different with the PRO-RING installation to reduce wear and tear. "For sanitary manholes, we don't put adhesive between the top ring and the frame but instead use a Cretex internal seal," he says. "We still have it sealed, but it allows some movement during the freeze-thaw cycle, and it doesn't react to hydrogen sulfide. We've had very good success with that."

Pipe lining

Mapping inflow and infiltration across the system as part of the master plan study showed a rate of 38 percent and identified specific problem areas across the city. That let Langemak prioritize the city's pipe lining and rehab work. "We've attacked one pump station basin that had high infiltration rates," he notes. "The streets were in decent shape and the sewers were in good condition with some separation at joints, so lining was a really good fit."

Of the 19,000 feet of pipe rehab done in 2012, about 15,000 feet involved lining. In 2013, lining accounted for 16,000 of the 25,000 total feet of rehab work.



Pump stations

The initial master plan showed that about 12 of the 42 pump stations in the city were candidates for elimination through the installation of two interceptors. Three have already been eliminated, which reduced maintenance costs and electrical use of the sanitary sewer system, one of the larger power users in the city. Since each pump station uses an average of \$4,800 in electricity every year, eliminating just the first three is saving more than \$14,000 annually.

With a typical life span of around 60 years for the pump station structure, the program calls for rebuilding the mechanics and replacing pumps about every 20 years, and rebuilding pumps every seven years, along with other maintenance matters such as valves, updating controls, code requirements and looking at pumping efficiency.

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Todd Jensen (left) and John Reuteler position a cone over a manhole. PRO-RINGs are being used to replace concrete grade rings on Waukesha's manholes.

"On average, we're looking at two major overhauls a year," says Langemak. "We also replace any ferrous force mains when we do the overhauls and put all controls inside a building when we can. We also look at if it makes sense to add backup power. The need for new pump stations is looked at more thoroughly now to limit the number. If approved, any new stations include control buildings and backup power sources."

Langemak, who has been with the depart-

ment for 19 years, says having such information at their fingertips has made a big difference. "We're trying to convert from reactive to proactive - looking at the long-term benefits. Instead of just replacing things when they fail, how can we improve the system? Between the study and the 20-year capital improvement plan, we're trying to do as much as we can as cost-effectively as we can to reduce maintenance costs, be more efficient, and ultimately give our ratepayers the best product out there. We're now ahead of the curve instead of behind the curve." ♦



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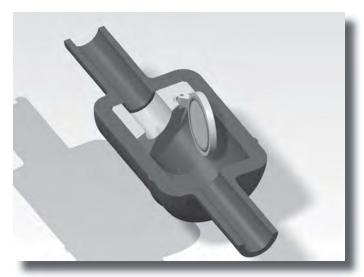




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lear and effective communication among a work crew is essential, especially in high-noise and hazardous environments. Sonetics wireless headset systems answer that call, garnering their fair share of interest at the 2014 Pumper & Cleaner Environmental Expo International.

"We consider it a safety product that also increases productivity," says Mark Jetton, Midwest regional manager for Sonetics. "Hands-free communication also decreases downtime, as users have the freedom to move around and are not restricted by wires or having to push buttons."

The systems incorporate FCC-licensed "full duplex" communication that supports real-time verbal warnings and continuous work collaboration, similar to a conference call. All workers on the system can simultaneously hear and be heard without pushing a transmit button, avoiding missed communications from shared channels and interference.

"It keeps workers from having to yell over loud machinery to communicate with each other," says Jetton. "It also allows workers to communicate when they are out of earshot or aren't within sight of each other."

To show off the range of the system, Jetton stood at one end of the Indiana Convention Center and sent another Sonetics employee to the other end. Despite the constant chatter amongst the thousands of peo-

sets can be powered by 12-volt battery packs or in-car chargers to allow for use in remote areas. They are fully rechargeable, and once headsets are paired to the wireless base, they do not have to be recalibrated each time the system is turned on/off. Digital intercom units allow for the number of wire-

"It keeps workers from having to yell over loud machinery to communicate with each other. It also allows workers to communicate when they are out of earshot or aren't within sight of each other."

- Mark Jetton

ple in the hall, the two were able to clearly communicate over the set.

"The wireless sets have a range of roughly 1,600 feet, or over a quarter-mile," says Jetton. "They are ideal for portable, vehicular or fixed-location use."

Options include an adjustable "mic gate" that allows headsets to be fine-tuned to suit different noise environments. Throat microphones allow for use when wearing face-masks or HAZMAT clothing. Head-

less headsets on one system to be expanded, enabling up to 40 users on a single system.

"One of the nice things about this system is its versatility across a lot of different mediums," says Jetton. "Any company that has a need for wireless communication among its employees can utilize our systems."

While Sonetics systems have been in use for years in mining and oil and gas utility applications, the 2014 Expo was the company's first as an exhibitor. "We have a couple of hydroexcavation customers that actually suggested that we exhibit at this show," Jetton says. "We hadn't really looked at the pumping and drain cleaning market too much initially, but it really is a good match for what we offer."

Jetton was able to generate a lot of leads, including many who hoped to test the system with their equipment. "I spoke to drain cleaners who said the system should work great with two-man crews with one inside with the hose, while the other was outside with the vacuum truck flipping the switch," he says. "The attendees at the show actually brought up uses for the system that we hadn't been considering. That was a huge value to us."

Jetton says he looks forward to bringing the technology back to the 2015 show when it's rebranded as the Water & Wastewater Equipment, Treatment & Transport (WWETT) Show. "We're just entering this market, but I'd definitely say that it's 'so far, so good." 800/833-4558; www.soneticscorp.com. ◆

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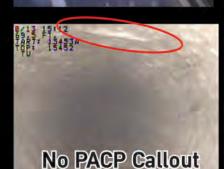


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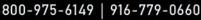


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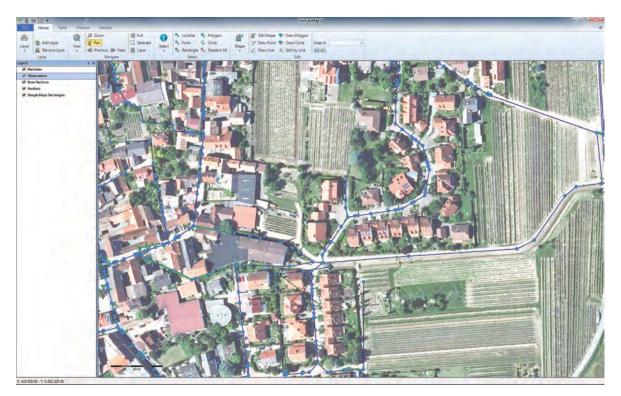
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MANAGING UNSEEN ASSETS

WinCan software system gives utilities more access and control over infrastructure data

By Gil Longwell



Sections of a collection system are imposed on satellite imagery. Color coding indicates section conditions while the detailed photo allows easy referencing to recognizable features. Images like this are especially beneficial when explaining system needs to interested but nontechnical audiences like homeowners, ratepayers and elected officials.

anaging, preserving and restoring underground sanitary sewer and stormwater management assets present the infrastructure owner with several challenges, all of which are exacerbated by the assets' location - underground.

Continuous improvements in data gathering means and methods provide asset owners with a wide range of dependable tools for that task. Likewise, thanks to professional collaboration, the consistency of data interpretation, through which specific section conditions are identified, is becoming more and more reliable as well.

The release of the WinCan VX software suite (VX identifies the version) makes it easier to access and manipulate all that data in a variety of enhanced, new or more visually appealing formats. These formats meet the information needs of a variety of users from engineering and

construction professionals to elected officials and the affected ratepayer.

WinCan VX software is a decision-making tool that enables asset managers to create a sound factbased foundation for informed and defensible maintenance decisions.

The WinCan VX software was demonstrated over the Internet by Mike Russin, business manager for Pipeline Analytics. This company is the sole distributor of WinCan VX in North and South America.

TECHNOLOGY TEST DRIVE

SPECIFICATIONS:

WinCan VX can be used in an office setting or in a truck used in the field. The product will run on all Windows 7 or 8 Professional or higher, in both the 32 and 64 bit configurations. Other requirements include a 500 GB hard drive (min.) with 2 partitions, CD-R / ÓVD-RW, GB RAM (min.), 4 USB 2.0 ports (min.), and an Intel Core i5 Processor (min.) AMD is not recommended.

LIST PRICE:

The single user list price of the basic office use software package is \$2,950. For truck deployment the price is \$6,950. WinCan Web prices are based on the volume of data on the company's Web servers. Prices start at \$1,800 per year.

Walk-around

Like all software, the sole point of contact for WinCan VX is a computer monitor with interactions occurring through a keyboard and mouse. Tablets and other devices with appropriate processor speed, a compatible OS and an Internet connection may also be used. Data storage needs will vary depending on the number of asset sections (the basic management decision-making unit) and the manner in which the (continued)



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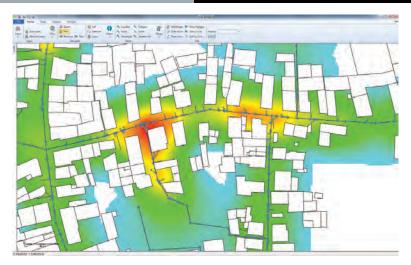




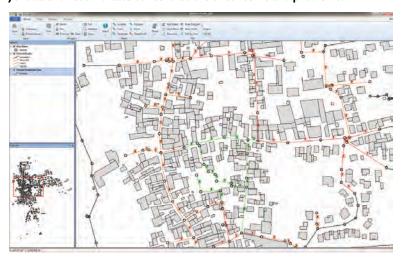
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This cadastral-based map shows collection lines, manholes and some property lines. Each section's condition assessment is associated with a color. The color and its intensity change in relationship to the density of the related condition. Strong green tones indicate trouble-free areas while strong yellows and reds indicate concentrations of concerns and problems.



This cadastral-based map shows system sections and selected property lines. Each sections' relative condition is assigned a color. The respective conditions are identified both by color and an associated condition rank (I is poorest; 3 is best).

asset owner has established its relationship with WinCan.

Local data storage can be used or data can be preserved on, retrieved from and distributed through WinCan's dedicated Cloud storage services accessed through a Web browser. This access is called WinCan Web.

The VX software can be purchased for local use or licensed for interactive use over the Internet. The latter is called SaaS, or software as a service.

System management tasks are completed in the Home area accessed through a tab at the top left of the main screen shown in Screen Shot 4. Through this tab, password access privileges can be set for individual employees or groups of workers or contractors. This row of tabs includes Projects, Tools, Views, WinCan Analyst Extended Modules. The latter two are extra-cost items.

The Home tab is where the Win-Can VX main screen can be arranged and rearranged to suit users' needs and the tasks at hand. Below this row of tabs is the tool bar. The tool bar includes three filter options to select sections, manholes and laterals. There are six data exchange tools and two report tools.

Dependent not on a brand of hardware but on the hardware's ability to deliver industry-standard compliant data, WinCan VX software imports digital data, GIS and GPS coding and graphic image files.

Because WinCan VX reports will only be as accurate as the data files, standardized section condition reporting is critical. WinCan VX can directly receive and archive an inspection camera's data stream. System users can conduct initial section evaluations, or audit, verify and update already assigned condition notations, or both. WinCan calls the review process validation; it is accessed through the Validator tool. Regardless of the number of sections in a project, the Validator can quickly scan the condition notations in every section, identify those that are out of compliance with certified NASSCO standards, and guide their revision.

Software interaction begins when the user selects from default data set screens or creates customized screens on the Home tab. Data sets are displayed in discrete screen sections or panes. Different tasks may influence data set selection or pane positions.

One common task, reviewing gathered graphic and condition assessments on a section-by-section basis, requires four screen panes. Each pane presents data in a separate area of the monitor's screen.

In the pane on the far left of Screen Shot 4, and filling the area below the tool bar on the monitor from top to bottom, is a generic pipe graph that resembles a thermometer with a bulb at both ends. The bulbs are manhole icons. The tube between the icons represents the pipe section. It is on this template that individual section report data is depicted.

Immediately to the right, a second top-to-bottom pane presents a list of sections in numeric order. Each line presents section number, pipe segment reference, upstream

and downstream manhole numbers, and size/shape notations. Additional characteristics can be added at the operator's option and as need requires. Along the bottom of this pane are "tabs." In addition to default or standard tabs, the user can add others. Each tab is connected to a separate data file that is mouse-click accessible. On Screen Shot 4, the Section tab is selected and Document, Geometry, History and Ratings tabs are readily at hand. Clicking on a section and report brings the section-specific report to a new monitor window.

The balance of the monitor screen is further divided into two panes. The top right Photo/Video pane presents images gathered in the inspection process. The lower right pane presents a catalog of observations for the section being reviewed.

Starting in the Section pane, clicking on a section number initiates two behind-the-scenes database searches for the corresponding photo/video images and observations. The image will appear in the Photo/Video pane. Observations are listed in ascending order from section start point to section end point.

In the Pipe Graph pane, the cursor and each observation point appear. The information is presented as a combined graphic and text format. Mouse manipulation moves the cursor "down" the pipe. Simultaneously, the photo or video image advances from observation point to observation point. In like manner, each set of condition details is highlighted. All are in their respective panes. WinCan VX automatically synchronizes all of the displayed information.

In Screen Shot 4, the cursor is indicating a condition notation at 6.05 feet into pipe section 1. The observation note is of a circumferential crack. The photo shows the defect at that location. Moving the cursor further "down," the pipe icon will change the displayed image and any corresponding condition notation, in this case, a lat-

(continued)

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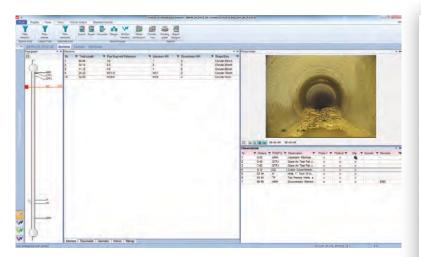
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Divided into four panes, the most critical data for a section is readily accessible. This screen was the basis for most of the demonstration.

eral connection that is in satisfactory condition.

Operation

For this demo, Russin used the previously prepared Home screen to present a previously selected set of information in the four panes shown in Screen Shot 4, although he could have chosen as few as two or as many as five panes. He started the demonstration by showing the ease with which the panes on the monitor screen could be customized through the Home tab before returning them to their starting points for the balance of the demonstration.

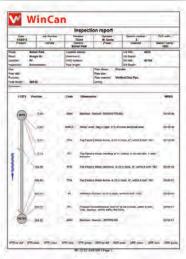
Moving to the Section pane, both Russin and the observer could reposition the cursor moving through the section's length. Stopping at an indicated condition observation, both the observation text and the image could be simultaneously viewed and compared.

Russin next reconfigured the screen to depict data in a variety of formats. First he selected data from multiple sections that were dispersed over an entire village. Moving to the WinCan Analyst, an optional feature, and using his inputs, the system created a pictograph of the village's buildings' perimeters and collection lines. Also presented on Screen Shot 3 are the assigned condition rank-

ings for each section.

Again using the Analyst with a preset presentation format, similar data from another village was presented. In this depiction, section conditions are identified by colors that are further amplified or muted through the addition of shading that correlates to the density of sections of varying conditions. Traditional hot and cool colors, i.e., red and green, are apparent in Screen Shot 2. As the concentration of troubled sections increases, so too does the intensity of the red shading. Similarly, a concentration of good sections presents as a saturated green area. The resultant graphic is called a heat map, resembling the ubiquitous TV weatherman's temperature map.

Graphic presentations are beneficial for certain audiences while a tabular data array is more beneficial for others. Russin demonstrated how tabular data can be presented in a standard inspection report illustrated in Screen Shot 5. This report combines the Pipe Graph and Condition comments similar to that in the first demo screen. Here, a flowchart-style report brings together section number, position of observation notation, code, MPEG (image) identifier and grade. A pie chart is yet another manner in which systemwide data can be displayed



The report screen, like every other WinCan VX screen, can be arranged to best present the information for use by a specific audience.

for ease of understanding.

Russin next demonstrated the WinCan Web capability as an SaaS user would encounter the system. For this part of the demonstration, both Russin and the observer accessed the dedicated Cloud system. Russin was in California during the demo and the observer was in central Pennsylvania. The distances that first the mouse instructions and then the data had to cover did not noticeably slow the information presentation. When Russin displayed new data in the original Screen Shot 4 configuration and advanced the cursor down the pipe graph, the visuals in the associated photo/video file kept pace and did not hang up or pause.

Addressing the need to distribute various reports, Russin returned to the original user interface then selected Media Distribution from the tool bar. This tool is used to assemble one or all of the various reports that have been created for a project and package them for distribution. Here, too, there is a range of formats and delivery modes available for easy selection. Recipients can be work crews, contractors, elected officials, system customers, regulators or the media, and the reports are custom-

ized for each user group.

As he demonstrated each capability, Russin was able to select which data to depict and customize each report's appearance to meet users' needs.

All of the data and reports can be exported and shared via Win-Can Web. The data is stored in multiple locations to protect its integrity and accessibility.

Observer's comments

WinCan VX, accessed directly, through WinCan Web or WinCan Cloud, was equally responsive; it did not miss a beat. The software empowers users to format tabular or graphic reports to meet multiple users' information needs. Viewers with a broad range of skill levels and from various educational backgrounds can easily understand the meaning of the information depicted.

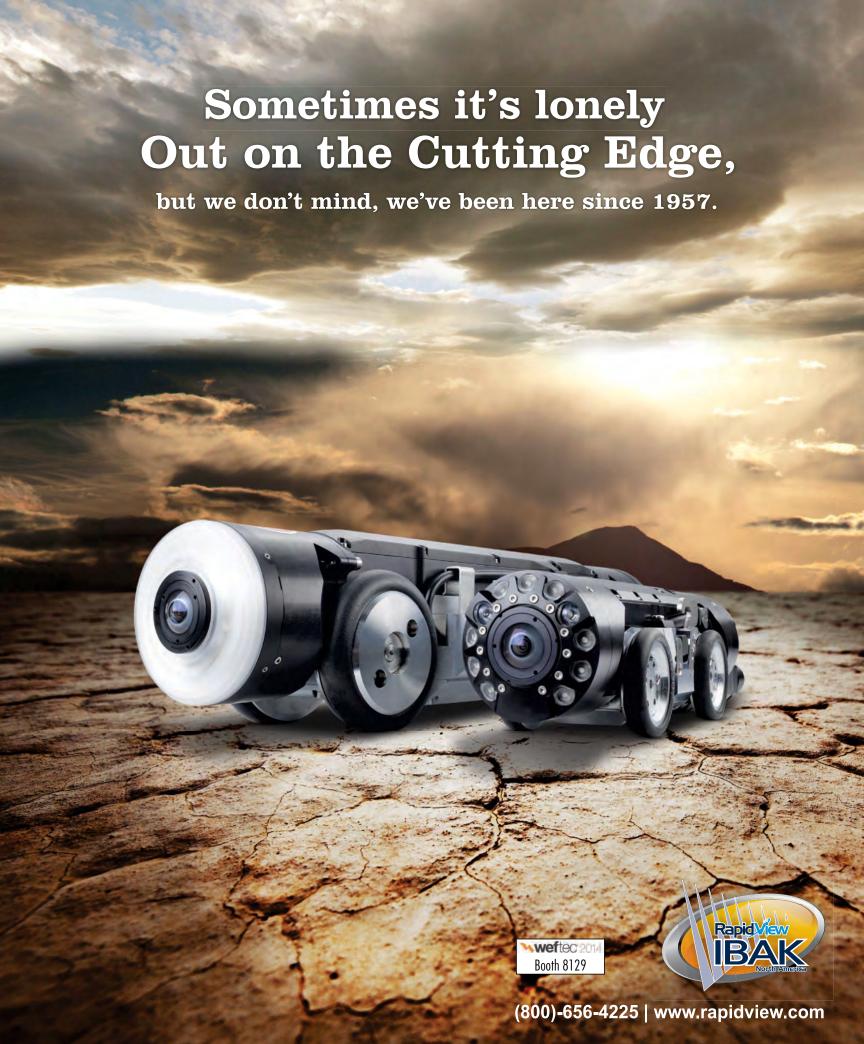
The ability to sort through, prioritize and select a few sections or hundreds of sections and present that information in a variety of formats are useful tools WinCan VX puts at every user's fingertips.

Operator training is essential to overcome an expected steep learning curve.

Manufacturer's comments

Data ownership rests firmly with the asset owner while its security through redundant backups and passwords is shielded from accidental loss or intentional attack. The data can be shared through a variety of widely available Web browsers or distributed in pdf, Word or Excel document formats.

WinCan VX is scalable, an attribute that allows asset owners to deploy a powerful tool right-sized for their needs. As their needs grow, capabilities can be added by purchase or subscription. ◆





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Fatal floods prompted Fort Worth to take a new approach to stormwater management, and the results have been visible and widespread

By Erik Gunn

hen the City of Fort Worth, Texas, reorganized its approach to stormwater management nearly 10 years ago, it didn't just save money or prevent property damage. It saved lives.

Repeated heavy storms that overpowered the city's stormwater drainage lines and produced flash floods were a chronic – and sometimes a fatal – problem in the city. Officials recognized the trouble, but resources

for anything but the immediate fix were scarce. Since 2006, however, the system has under-

gone a complete turnaround. Stormwater management has become a major priority, and the city has invested people, management tools, technology and money to make that happen.

Fort Worth did that by creating a dedicated stormwater management utility within city government and funding it with fees collected from property owners.

Until then, stormwater management operations were "completely reactive," says Greg Simmons, assistant director of the Fort Worth Transportation and Public Works Department, and chief of the department's Stormwater Management Division. City workers responded when inlets clogged and water backed up to flood roads,

"Now we've got a very proactive pro-

for example - but only after the fact.

Fort Worth Stormwater Management Supervisor Dave Chapman stands by a stormwater channel currently under construction. (Photography by Jimmy Alford)

cess," Simmons adds. "Before, we were waiting for people to call and complain. Now we're getting out, studying problems and putting plans together to fix them."

Catching up

With only two or three big rains a year, stormwater management "was an easy thing to ignore," Simmons says.

As the city grew, the system didn't keep pace with the increase in pavement and other impervious surfaces from development, all of it increasing the need for drainage.

But big storms and recurring flooding damaged property and took a grimmer toll. Storms turned fatal with gruesome regularity.

Since 1986, 17 people have died in flooding-related episodes in the city, according to information from the division. But a sign that there's been progress is that the last such known death was seven years ago, in March 2007.

"Before, we were waiting for people to call and complain. Now we're getting out, studying problems, and putting plans together to fix them."

- Greg Simmons

After a 2004 storm in which a mother and her two children drowned in their car, the City Council directed a committee of city employees, property owners and others to explore solutions. The panel hired a consultant and came back recommending the creation of a separately funded stormwater utility. That was launched in the spring of 2006.

The stormwater utility remains part of the city government, but its budget comes from a dedicated enterprise fund paid for by a monthly stormwater fee, included with the monthly water, sewer and garbage-collection fees.

The stormwater fee is billed in increments of \$5.40 (continued)



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Left: A bulldozer operator works several piles of dirt along a stormwater channel to correct the channel's grade. Middle top: Stormwater Management Supervisor Dave Chapman directs a truck unloading more dirt near the channel. Middle bottom: A Gradall excavator spreads fill dirt along the bank of the channel. Right: Chapman explains the next steps to Donnie Smith, Ismael Frausto and Daniel Cardona.

a month per 2,600 square feet of impervious surface on a property (typically pavement and roof). Residential owners are billed in four tiers, ranging from a half-unit (\$2.70) to a double unit (\$10.80), based on their home size.

All other properties – businesses, most nonprofits and even churches – are assessed at \$5.40 per 2,600 square feet, based on their total impervious square footage. The only

exception has been private colleges,

PROFILE:

Fort Worth, Texas, Stormwater Management Division

POPULATION SERVED: 781,000 people; 200,000 accounts

SERVICE AREA: City of Fort Worth; 350 square miles

INFRASTRUCTURE:

36,460 stormwater inlets (catch basins); 930 miles of pipe; 930 miles of open-air channels and creeks; 5,007 infalls; 9,377 outfalls; 26 miles of drains; 41 miles of flumes

ANNUAL OPERATING BUDGET: \$35 million

NUMBER OF EMPLOYEES: 113

WEBSITE: http://fortworthtexas.gov/ tpw/stormwater which are waived under a provision in Texas state law.

Lay of the land

With funding in place, the next step was a review of the entire system, identifying where repairs were needed and infrastructure should be beefed up.

Existing paper records were a start, but some were unreliable and incomplete, Simmons says. With the aid of a consultant, the utility invested \$11 million to map the system, identifying all of the assets and putting relevant data into a geographic information system.

"We're trying to work toward a true asset management system," says Elizabeth Young, who runs the utility's GIS program. Workers collect information to establish the life cycle of each asset, "so that we know the best time to rehabilitate and replace things."

The system has 36,460 stormwater inlets or catch basins, 930 miles of pipe and 930 miles of open-air channels and creeks. There are also 5,007 infalls, 9,377 outfalls, 26 miles of drains and 41 miles of flumes. Most of that has now been mapped to the utility's GIS asset registry.

The records include physical specs such as pipe width, diameter, length and composition. For surface assets, records include photographs and links to the original construction plans. For open-air channels, the records show what they are lined with – stone, riprap or other materials.

GIS asset records also list details such as the installation date, the asset's maintenance history, even how much time had to be spent for various repairs and procedures on the component; that enables the utility to make better cost projections for repairs.

Big projects

Information from the mapping survey was used to pinpoint and prioritize specific locations where the most urgent drainage problems were: how many people could be affected, how deep floodwaters could get and how much traffic disruption might occur.

"We're trying to find the sweet spot between those things that are technically feasible, acceptable to the community and affordable."

- Chris Johnson

The division's engineering planning group developed and regularly updates a master plan that is used to shape the capital program.

"We're trying to find the sweet spot between those things that are technically feasible, acceptable to the community and affordable," says Chris Johnson, engineering manager.

Computer models help analyze various areas around the city to further refine priorities.

Even before the creation of the utility, some capital projects were already underway. "When the utility was created, that accelerated greatly," says Linda Young, capital projects program manager.

The division has identified fully \$1 billion worth of projects and is

working through the list as resources become available, she says. Bond issuances since 2007 have generated a total of \$150 million to fund projects.

Pay as you go

Additional capital funds have come out of the annual operating budget. Those have tended to be small projects, but the utility is looking at how it might put more capital funding on a pay-as-you-go basis so it relies less on debt.

Projects have ranged from replacing undersized storm drains with larger units, to rebuilding water channels and replacing aging culverts to reduce the chance of floodwaters overtopping roadways.

"When a road becomes covered with water after a storm, drivers don't have any way to gauge how fast it's moving," Linda Young points out. "If they're driving over a creek or a stream, they can be washed off the road and perish." Even motorists who survive such an event may be stranded, their vehicle ruined, she adds.

And there have been larger and more complex projects too. One was at the intersection of Butler and McClure streets in Fort Worth. A creek meanders through the neighborhood, crossing Butler at one point and McClure further downstream, says project manager Michael Owen.

In an April 2004 storm, a truck passed through a flooded street safely, Owen says, but a car that followed was swept off the road into a chan-(continued)





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"When a road becomes covered with water after a storm, drivers don't have any way to gauge how fast it's moving. If they're driving over a creek or a stream, they can be washed off the road and perish."

- Linda Young

nel and down a creek. The woman driving and her two small children died. Two months later another storm flooded the area and swept a car into the channel. The driver of that car was able to get out safely, but the car was lodged at a culvert.

McClure Street was closed and remained so until late last year, when the \$1.75 million repair to the area was complete.

The project, which began in January 2012, included raising an intersection about 8 feet out of the flood plain, adding a concrete relief channel, improving the existing culvert, and constructing one 12-by-8-foot and five 10-by-10-foot culverts to replace much smaller culverts that

Members of the Fort Worth Stormwater Management crew, tasked with controlling stormwater runoff and preventing erosion, flooding, and pollution issues, stand with some of the equipment they use to get the job done. weren't adequate to contain floodwaters in severe storms.

For parts of the city prone to flooding that haven't yet been reworked, Fort Worth has been installing early warning signals on roadways. The signs and lights alert drivers when water is topping the road surface and direct them to take an alternate route or turn back, says Johnson. A total of 53 locations around the city have warning systems.

Coordinated repairs

Water and sewer lines in the area were also replaced. The city looks for opportunities to coordinate with projects among the various public works divisions so that excavators only have to dig once. "Almost all Clockwise: A Fort Worth Stormwater Management crew member signals the jet/vac truck operator for more pressure; an inlet maintenance worker repositions a jetter hose; inlet maintenance worker Daniel Ledesma operates the controls of the jet/vac truck.

of our projects affect the street portion, and street improvements are part of them," Owen says.

The project won an award from the Texas Public Works Association in the under \$2 million category.

"It really transformed the area out there," Owen says. "It doesn't look anything like it did before."

In another project, the Stormwater Division built a multi-use stormwater retention basin in a neighborhood subject to recurrent flooding. The basin was built on the property of Eastern Hills Elementary School in a once-wooded area. After it was built, the land above the basin was made into a practice field for sports teams.

The basin is designed to fill up with water and release it slowly into the stormwater drainage system, Owen explains. The underground design allowed for landscaping that made it more aesthetically pleasing and created the practice field as a bonus amenity.

Another phase is underway and a third, which will involve additional storm drain construction, is planned for the area.

Cutting down on paperwork

For both larger projects and dayto-day work, the GIS database can now give field crews just about all the information they need on the assets they're called out to troubleshoot, says Elizabeth Young.

The GIS program is linked to Google Maps so that workers can get a street-level view of the location. "We're trying to prevent as many trips to the field as we can," she says.

Last year the utility launched its Work Order and Asset Management System project, using asset management software from Accela Inc. in San Ramon, Calif. The system links directly to the asset records. In the field, crews can view the records on ruggedized tablet computers running Microsoft Windows 7.

They can also record information about their jobs while still at the site, such as how long a task took. By measuring the project time against wage rates, "we have an idea, on average, of what it costs to clean an inlet going forward," Elizabeth Young says.

Thanks to the system, she says, the utility's inlet cleaning program was able to do away with 2,400 paper maps it used to generate each year. Crew members fill out daily work logs on their tablets. "That was another 1,000 sheets of paper a year that we reduced."

The system also makes it easier to tell when a particular site has a recurring problem. Simmons explains that figuring out where the system demands more resources "points us to understanding that maybe we need to replace something."

Stepping up maintenance

System maintenance is organized by asset categories, including underground pipes; concrete fixtures, mainly inlets; channels; and other fixtures: infalls, outfalls and flumes.

Channel maintenance is the work of two crews totaling nine employees.



INSURANCE BENEFIT

In addition to ambitious maintenance and infrastructure upgrades, the City of Fort Worth has taken steps to avoid making flooding problems worse and to implement warning systems for problems until a permanent fix is possible.

Fort Worth has been a participant in the National Flood Insurance Program since 1980, says Clair Davis, the Stormwater Management Divison's flood plain administrator. At the time the city's population was about 385,000. Today the city's population is nearly double that, at 767,500.

The flood plain administration office was made part of the stormwater utility shortly after the utility was created. The office reviews all development plans to ensure they've made adequate provisions for stormwater runoff and

comply with the National Flood Insurance Program, he says.

Fort Worth has also been remapping its flood plain areas to bring the information as up to date as possible.

"We want to have the best available data out there to show where the risk is," Davis says.

After the stormwater utility was formed and system maintenance and improvement ramped up, the city joined FEMA's community rating system. Participation in that program provides flood insurance policy holders a discount based on the improvements the city has made to prevent damage, Davis says.

Their work includes clearing out sediment that can fill up channels and cause localized flooding. Earthen channels eroded by flowing water need to be reconstructed. In concrete-lined channels, sections of broken or damaged concrete require repair or replacement.

"Until the utility was created we had never had the resources to restore those channels to their design condition," says Juan Cadena, field operations director.

The inlets are cleaned on a routine cycle. "The goal is to do 7,000 a year and cycle through our entire system in five years," says Vince Elias, field operations supervisor.

For the underground pipe, the city has been contracting with inspection companies to identify its condition and locate problem areas.

"We're finding all kinds of issues," Cadena says. Work crews are assigned to go in and make repairs as quickly as possible.

Measuring results

Bigger responsibilities and more organization demand bigger budgets. Before the creation of the utility, Simmons says, the city spent about \$6 million a year on operations related to stormwater and \$3 million on capital improvements. For fiscal year 2014, the operational budget will top \$35 million and the capital budget \$12 million.

"There's been a very dramatic improvement based on having some resources to do things," Simmons says.

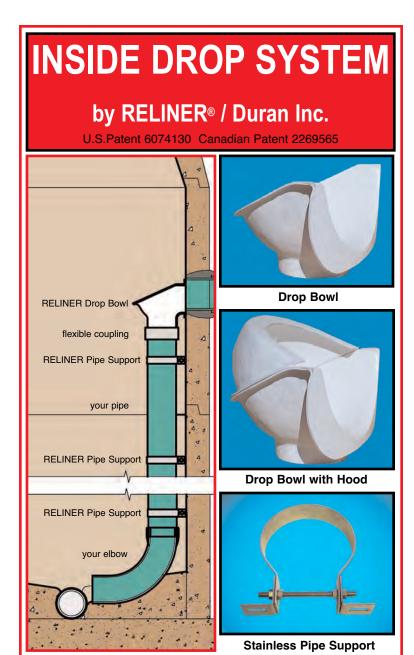
But the Stormwater Management Division's preferred metric is to track the impact of its maintenance and improvement work, not just count the dollars or man-hours spent on a project, Simmons says.

By that measure so far, "We've protected over 300 properties that were subject to flooding." ◆

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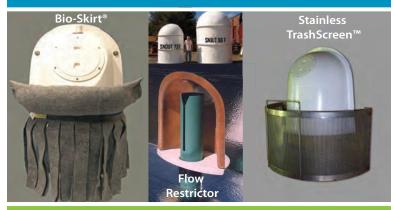


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Distance	Video Ref	Video Group	V:	V:	Code		Value			Circumferential Location			
(feet) (meters)				Continuous Defect		Inch (mm		%	Joint	At/ From	То	Img Ref	Remarks
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179.3		FC						J	07	05			
179.3		FL						J	12				

2) Code the structural defect at 12 o'clock

	Distance		Code			Val	ue			Circumferential Location		Img Ref	Remarks
		Ref	Video Ref Group Descriptor	Continuous Defect	S/M/L	Inch	Inch (mm)		Joint	At/	То		
			Modifier		3/11/L	lst	2nd	70	%	From	10		
	67.4		FL						J	12			
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	67.4		FC						J	12	12		



Distance (feet) (meters)	Video	Code	Continuous Defect	Value					Circumferential Location			
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5.0		HVV							02	09		
5.0		ISGT					5		02	09		

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STORMWATER MANAGEMENT

By Craig Mandli

Effectively managing stormwater runoff involves flow control, monitoring and pretreatment. Highlighted below are management, collection and pretreatment products that can assist in making sure stormwater is treated in a safe and efficient manner.



Stormwater Management

UV-LED transmittance monitor

The **PearlSense T254 UV-LED** transmittance monitor from **Aquionics** measures the percent of UV transmittance, used as an indication of changes in water quality. It utilizes a single lamp and sensor, eliminating drift. It provides a low operating cost, ultra-long lamp life with virtually zero warm-up time and a small installation footprint. It is environmentally friendly, mercury-free, and can be used in a variety of configurations, from hand-held battery operation to in-process installation directly in a pipe, to mounting on a bracket in an open-channel environment. **800/925-0440**; **www.aquionics.com.**



Combination jet/vac

The Aquatech F-10 combination jet/vac from Hi-Vac Corporation has a 180-degree rotating front-mounted reel that facilitates easy unit placement. The reel can hold up to 800 feet of 1-inch hose. The top-loading boom powers up and down, and extends to 26 feet from the pivot point. The single-engine drive decreases fuel consumption, maintenance expense, weight on the chassis and the initial chassis price. The water pump consists of a continuous flow, triplex reciprocating design and is rated up to 80 gpm at 2,000 psi. An optional unloader valve allows for complete control of water flow and pressure independent of the vacuum power. Tanks are high-strength, UV-stabilized polyethylene, with optional fixed internal baffled aluminum tanks. 800/752-2400; www.aquatechinc.com.



Water level logger

The **HOBO U20L** water level logger from **Onset Computer Corporation** provides precise water level and temperature monitoring. It has 0.1 percent measurement accuracy; a polypropylene housing for use in both fresh and salt water; a self-contained, non-vented design for convenient and hassle-free deployment; and a durable ceramic pressure sensor that withstands freezing. It is ideal for use in wells, streams, lakes, wetlands and tidal areas. It utilizes HOBOware Pro software, which provides easy conversion to accurate water level reading, fully compensated for barometric pressure, temperature and water density. It is available in three models for depths up to 13, 30 and 100 feet. **800/564-4377**; www.onsetcomp.com.

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Collection

Mechanical point repair

QuickLock Point Repair permanent pipeline rehabilitation installation from Rausch Electronics USA has a 316L stainless steel sleeve encased in an EPDM rubber sleeve that is mechanically compressed against the inner pipe wall and is permanently locked in place by two gear mechanisms. No chemicals or resins are used in this system, so there is no cure time. Applications include sealing leaking joints, fixing cracks and holes, preventing root intrusion, and abandoning laterals. It reinstates the structural strength of the pipe and is a permanent and reliable repair. The installation will withstand and pass internal pressure tests. Since there are no chemicals involved, the system can be installed with flow present. The packer comes in several sizes to cover a range from 6 to 32 inches in pipe diameter. 717/709-1005; www.rauschusa.com.

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Curb inlet guard

Ultra-Curb Guard Plus from UltraTech International protects curb inlets from sediment-laden stormwater runoff. Its modular design allows 3-foot-long units to be connected to form longer lengths. Wedge-shaped, heavy-duty foam secures the unit in the curb inlet. Woven, polypropylene material provides high flow rate and will not cause ponding or flooding. It aids in complying with NPDES, 40 CFR 122.26 (1999) and TMDL requirements. 800/353-1611; www.stormwaterproducts.com.

HDPE pipe

PE4710 HDPE pipe from WL Plastics Corp. is corrosion, surge and chemical resistant, and easily installed. The strength, durability and reliability of HDPE pipe make it an ideal material for transporting water. The pipe is ideal for sliplining corroded stormwater pipes (AASHTO M326 standard) for rehabilitation. 682/831-2700; www.wlplastics.com.

Pretreatment

Pretreatment tank

The **StormTank Shield** for stormwater pretreatment from **Brentwood Industries** reduces pollutant discharge through gross sediment removal and oil/water separation. By preventing floatables and oils from directly exiting the outlet pipe, flow length and settling time are increased, and cleaner water exits the outlet pipe. Its combination of pre-drilled mounting holes, handgrips and slim profile allow for ease of installation, while its access port and slim profile make it easy to clean and ensure that nothing obstructs the discharge. It is available in three sizes to provide application flexibility and has a built-in vent to prevent siphoning. **610/374-5109**; www.brentwoodindustries.com.

Wet-weather treatment

The **BIOACTIFLO** system from **Kruger USA** combines contact stabilization and microsand ballasted clarification to treat wet-weather flows. Return activated sludge from existing clarifiers is combined with excess flows into a solids contact tank. A targeted mixed liquor suspended solids concentration is maintained in the contact tank to facilitate rapid uptake of soluble biological oxygen demand via contact stabilization, which is followed by clarification. The combination results in total BOD removals in excess of 85 percent, more than 95 percent TSS removal and total phosphorus levels less than 0.15 mg/L. Existing ACTIFLO installations can be easily converted to BIOACTIFLO, and the ACTIFLO train can also be used for tertiary treatment during dry weather flows. **919/677-8310**; www.krugerusa.com.

Bolted steel storage tank

Bolted steel storage tanks from **Superior Tank Co.** are designed for stormwater collection and the storage of water for pretreatment. They utilize a durable 3M Scotchkote powder coating specially formulated for corrosive environments. They are available in capacities from 10,000 gallons to 3 million gallons, and comply with both AWWA and NSF standards. Open-top and closed-roof designs are available, as well as specialized appurtenances. The bolt-together design is quick to assemble and eliminates the need for welding or on-site painting. **877/974-4438**; www.superiortank.com.

Compressible media filter

The **WWETCO FlexFilter** from **WesTech Engineering** uses compressible media to provide treatment of combined sewer overflows. The combination of tapered media compression, porosity gradient within the media bed, and a low-flow backwash system make the filter versatile and efficient. **801/290-1462**; www.westech-inc.com. ◆

Storm drain filter enables municipality to monitor illegal pollutants



Problem:

The cities of Key Biscayne and Coral Gables, Fla., experienced incidents of illegal discharges that were detrimental to local waters. Key Biscayne's environmental manager had problems with contractors disposing of paints and solvents into adjacent storm drains. In Coral Gables, concrete trucks were disposing of unused concrete into storm drains. Both cases represent environmental crime scenes, and it was difficult to catch the perpetrators.

Solution:

Hydro-Cartridge filters from Advanced Aquatic Products International were installed in storm drains that were adjacent to con-

struction projects in progress on Key Biscayne. Because the cartridges capture and hold liquid contaminants, daily monitoring showed that contractors were using the local storm drains as a dumping point. In Coral Gables, the product was able to prevent permanent damage from illegal concrete discharges, which had been plaguing the city for years and costing thousands of dollars to repair.

RESULT:

The filters prevented hazardous pollutants from entering sensitive South Florida waters, and also led to the prosecution of the companies that had illegally dumped pollutants. 800/738-7646; www. hydro-cartridge.com.

Culvert reclamation project saves time and money, keeps traffic moving



Problem:

The Delaware Department of Transportation (DelDOT) needed to repair a crumbling stormwater culvert under State Road 48 (Lancaster Pike). Built in 1970, the culvert carries Chestnut Run Creek water flow under the busy highway. According to state records,

the reinforced concrete pipe was in poor condition, with severe spalling of the concrete, causing accelerated corrosion of the exposed reinforcing steel.

Solution:

Instead of replacing the reinforced concrete pipe, DelDOT decided to insert a 100-foot-run of ADS N-12 WT HDPE 60-inch-diameter high-density polyethylene corrugated pipe from Advanced Drainage Systems. Five 20-foot sections of pipe were joined and slipped into place using a four-man crew and a backhoe. The integral bell and spigot enabled each section of pipe to be easily popped together, forming a watertight seal. The pipe meets or exceeds the requirements of the AASHTO M 294 materials specification, and can be specified for culverts, cross drains, storm sewers and other types of new and rehab projects.

RESULT:

Sliplining eliminated the need to rip up and replace the original pipe, and reduced the planned five-month project to two weeks, plus avoided interrupting the 15,831 vehicles per day that travel on the fourlane Lancaster Pike. The pipe saved the utility more than \$850,000. 800/821-6710; www.ads-pipe.com.

Catch basin risers installed on challenging interchange project



Problem:

The resurfacing of the I-64/I-255 interchange near East St. Louis, Ill., was an ordinary project with one unique feature. "Most years, we install maybe 10 to 15 catch basin risers for the whole year," says project engineer Bob Germann. "But on this project alone, we installed a total of 100

catch basin risers." The catch basins lined a barrier wall that separated access ramps from main lanes, which meant that crews working on the basins would be exposed to traffic. As part of the contract, lane closures had to be kept to a minimum and couldn't be closed at all during peak hours, from 6 to 9 a.m. westbound and 3 to 6 p.m. eastbound.

Solution:

Keeley & Sons has been using catch basin risers and manhole risers from American Highway Products since 2005. The risers were previously approved for use by the Illinois Department of Transportation and can be installed with hand tools in a few minutes per riser. Crews installed the risers after the binder course was laid and before the final paving lift.

RESULT:

All 100 catch basins were raised to grade in two days, saving substantial costs and work time. 888/272-2397; www.ahpl.com.

Sealing joints stop soil migration in sewer pipe



Problem:

Johnson and 11th streets in La Crosse, Wis., were scheduled for sidewalk, curb, gutter and pavement replacement. "We had observed pavement and ground settlement in the street, curb, gutter and adjacent grass terrace area," says Steve Asp, the city's assistant sewer superintendent.

"There is a lot of flow during rain events because several other large stormwater pipes tie in to the manholes on either side of the 72-inch pipe. We suspected soil migration through the joints of this storm line and tried patching them with mortar several years ago, but the issues of settling continued." The stress on the joints was due to the pipe's 28-foot depth and the volume of flow during rain events. Asp looked into sealing the joints.

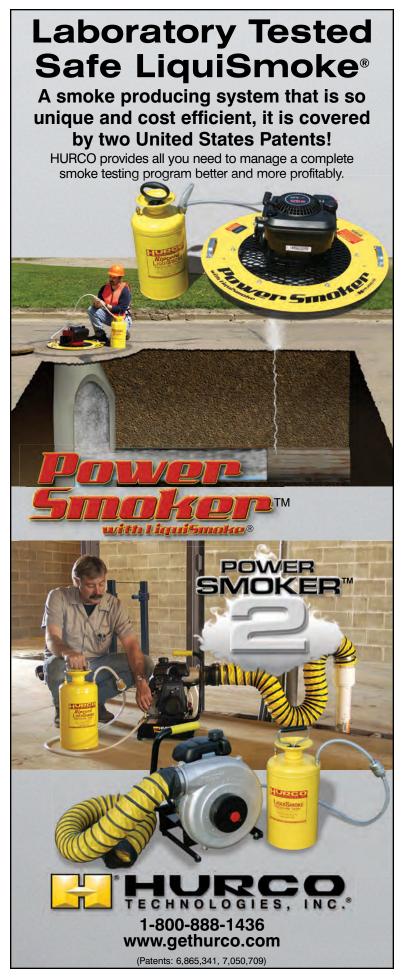


Solution:

HydraTite Internal Joint Seal, distributed by Cretex Specialty Products, requires no excavation or water removal from the pipe, with minimal surface preparation, quick installation and a 50-year design life. The contractor, Infratech, installed seven seals in seven hours with a two-man crew in the pipe and one man on top. Access was limited through a 78-inch-diameter block storm manhole with a 24-inch frame and chimney opening. All of the seals, compression bands and tools required for the installation were lowered down through the manhole. The seal spanned any misalignment of the joints and formed an impenetrable barrier against further infiltration.

RESULT:

The newly installed seals were effective in stopping the soil migration, even in very wet conditions. 800/345-3764; www.cretexseals.com. ◆





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400 Spring St.
Royersford, PA 19468
610-948-3800 • Fax: 610-948-5300
sales@amtpump.com
www.amtpump.com

AP/M PERMAFORM, Inc.

Ad on page 24

PO Box 555
Johnston, IA 50131
800-662-6465 • 515-276-9610 • Fax: 515-276-1274
info@permoform.net
www.permaform.net
Ad on page 81



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 25



Aqualitec Screening Equipment

Adulter Stephleda Blvd., Ste. 1100 Los Angeles, CA 90034 855-650-2214 info@aquolitec.com www.aquolitec.com



Aries Industries, Inc.

S50 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





Arthur Products Co.

1140 Industrial Pkwy.
Medina, OH 44256
800-322-0510 ● 330-725-4905 ● Fax: 330-722-2698
apcl@apclsq.com
www.arthurproducts.com

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





BDP Industries, Inc.

354 Rte. 29 Greenwich, NY 12834 518-527-5417 • Fax: 518-695-5417 kellv@bdpindustries.com www.bdpindustries.com

Best Management Products, Inc.

53 Mt. Archer Rd. Lvme, CT 06371 800-504-8008 • 410-687-6256 • Fax: 860-434-3195 tim@bmpinc.com

www.bmpinc.com Ad on page 52

BioAir Solutions, LLC

110 Kresson-Gibbsboro Rd., Ste. 303 Voorhees, NJ 08043 856-258-6969 • Fax: 856-258-6975 cwest@bioairsolutions.com www.bioairsolutions.com



Bionetix International

21 040 rue Daoust Ste-Anne-de-Bellevue, QC H9X 4C7 Canada 514-457-2914 • Fax: 514-457-3589 info@bionetix.ca www.bionetix-international.com



Blue-White Industries

5300 Business Dr.

Huntington Beach, CA 92649 714-893-8529 • Fax: 714-894-9492 sales@blue-white.com www.blue-white.com

Brentwood Industries

500 Spring Ridge Dr. Reading, PA 19610 610-374-5109 • Fax: 610-376-6022 water@brentwoodindustries.com www.brentwoodindustries.com

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BRIGHT DYES -

Division of Kingscote Chemicals

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

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Bright Technologies 127 N Water St.

Hopkins, MI 49328 800-253-0532 • 269-793-7183 • Fax: 269-793-4022 julie@brightbeltpress.com www.brightbeltpress.com



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 23

Central Oklahoma Winnelson

5037 NW 10th St. Oklahoma City, OK 73127 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 kriones@winnelson.com

www.centralwinnelson.com

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Chandler Equipment, Inc.

4180 W Sunset Ave. Springdale, AR 72762 800-342-0887 • 479-751-9771 sales@chandlerequipment.com www.chandlerequipment.com

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 56

Chempure Products Corp.

PO Box 740 Bolivar, OH 44612 800-288-7873 • 330-874-4300 • Fax: 330-874-4448 chempure@amail.com www.rootrat.net

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Cherne Industries, Inc.

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

Ad on page 53

Cloverleaf Tool Co.

PO Box 110757 Bradenton, FL 34211 800-365-6583 • 941-739-0707 • Fax: 941-739-0001 sales@cloverleaftool.com www.cloverleaftool.com

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CORE COBRADPTICAL ROBOTICS

Cobra Technologies

4806 Wright Dr., Bldg. C Smyrna, GA 30082 800-443-3761 • Fax: 770-435-0402 sales@cobratec.com www.cobratec.com

Cretex Specialty Products

N16 W23390 Stoneridge Dr., Ste. A Waukesha, WI 53188 800-345-3764 • 262-542-8153 • Fax: 262-542-0301 info@cretexseals.com www.cretexseals.com Ad on page 32

Cua Claws

2376 Maize Rd. Twentynine Palms, CA 92277 714-697-8697 jerry@cuaclaws.com www.cuaclaws.com Ad on page 118



CUES

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

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Custom Holesaw Technologies Corp.

379 Monitor Rd. Silverton, OR 97381 503-873-6101 • Fax: 503-212-0205 ih@customholesaw.com www.customholesaw.com

Ad on page 116

Cyclops Electronics, Inc.

123 Commerce Ave. Boerne, TX 78006 830-249-9756 • Fax: 830-249-8535 cyclopstv@gvtc.com www.cyclopstv.com



Data Flow Systems, Inc.

605 N John Rodes Blvd. Melbourne, FL 32934 321-259-5009 • Fax: 321-259-4006 tomh@dataflowsys.com www.dataflowsys.com

Dow Water & Process Solutions

Ad on page 56

7600 Metro Blvd. Edina, MN 55439 800-447-4369 dowcig@dow.com www.dowwaterandprocess.com

Duke's Root Control, Inc.

1020 Hiawatha Blvd. W Syracuse, NY 13204 800-447-6687 • 315-472-4781 • Fax: 315-475-4203 lvnn@dukes.com www.dukes.com Ad on page 11

Dynamic Repairs

40 Arnot St., Unit 20 Lodi, NJ 07644 973-478-0893 • Fax: 973-478-0895 dynamiccablerepairs@yahoo.com www.dynamicrepairs.net Ad on page 117





Echologics

6295 Northam Dr., Unit 1 Mississauga, ON L4V 1W8 Canada 866-324-6564 • 905-672-3246 • Fax: 905-612-0201 info@echologics.com www.echologics.com

Efficiency Production, Inc.

685 Hull Rd. Mason, MI 48854 800-552-8800 • 517-676-8800 • Fax: 517-676-0373 jmcray@efficiencyproduction.com www.efficiencyproduction.com

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Eldred Environmental & Export Co. LTD

PO Box 110 Milan, IL 61264 800-613-3640 • 309-787-3640 • Fax: 309-787-3635 info@fol-da-tank.com www.eldredenvironmental.com



Electric Eel Mfg.

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

Electro Scan Inc.

1745 Markston Rd. Sacramento, CA 95825-4026 800-975-6149 • 916-779-0660 • Fax: 916-779-0661 info@electroscan.com www.electroscan.com

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Endress+Hauser

2350 Endress Pl. Greenwood, IN 46143 888-363-7377 • 317-535-7138 • Fax: 317-535-8498 info@us.endress.com www.us.endress.com

Environmental Coatings LLC

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

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Envirosight

111 Canfield Ave., Unit B3 Randolph, NJ 07869

866-936-8476 • 973-252-6700 • Fax: 973-252-1176 office@envirosight.com

www.envirosight.com

Ad on page 2

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 23

Epoxytec, Inc.

3000 N 29th Ct. Hollywood, FL 33020

877-463-7699 • 954-961-4656 • Fax: 954-961-2395

drapanos@epoxytec.com

www.epoxytec.com Ad on page 36





Fibergrate Composite Structures Inc.

5151 Beltline Rd., Ste. 1212 Dallas, TX 75254 800-527-4043 • 972-250-1633 • Fax: 972-250-1530 info@fibergrate.com www.fibergrate.com

Ad on page 119

Flow-Liner Systems, Ltd.

4830 N Pointe Dr. 7mesville OH 43701 800-348-0020 • 740-453-9387 • Fax: 740-453-8622 info@flow-liner.com www.flow-liner.com Ad on page 12



FloWay, Inc.

1152 Mae St., Hershey Square #217 Hummelstown, PA 17036 855-235-6928 • 717-580-0123 • Fax: 717-256-8489 sales@floway.com www.flowav.com

Fluid Conservation Systems

502 Techne Center Dr., Ste. B Milford, OH 45150 800-531-5465 • 513-831-9335 • Fax: 513-831-9336 sales@fluidconservation.com www.fluidconservation.com Ad on page 116

Fluid Technology, Inc.

PO Box 937 Oxford, OH 45056 888-844-7824 • 513-241-1600 • Fax: 513-756-1995 tfrank@fluidtechinc.net

www.fluidtechinc.com Ad on page 118

Footage Tools, Inc.

1-54 Audia Ct. Vaughan, ON L4K 3N4 Canada 888-737-3668 • 905-695-9900 • Fax: 905-695-8874 df@footage.ca www.footagetools.com Ad on page 117





GapVax, Inc.

575 Central Ave. Johnstown, PA 15902 888-442-7829 • 814-535-6766 • Fax: 814-534-3617 inquiry@gapvax.com www.gapvax.com Ad on page 123



General Pipe Cleaners

1101 Thompson Ave. McKees Rocks, PA 15136 800-245-6200 • 412-771-6300 info@drainbrain.com www.drainbrain.com

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General Pump

1174 Northland Dr. Mendota Heights, MN 55120 888-474-5487 • 651-686-2120 • Fax: 651-454-8015 sales@gpcompanies.com www.generalpump.com

Giant Industries. Inc.

900 N Westwood Ave. Toledo, OH 43607 800-633-4565 • 419-531-4600 • Fax: 419-531-6836 sales@aiantpumps.com www.aiantpumps.com



Gorman-Rupp Company

600 S Airport Rd. Mansfield, OH 44903 419-755-1011 • Fax: 419-755-1251 grsales@gormanrupp.com www.GRpumps.com

GPS North America 406 Executive Dr.

Luxembourg Corp. Center Langhorn, PA 19047 800-697-0109 • 215-497-0100 • Fax: 215-497-8805

www.gpsnorthamerica.com Ad on page 118

Grace Industries, Inc.

305 Bend Hill Rd. Fredonia, PA 16124 724-962-9237 • Fax: 724-962-3611 sales@graceindustries.com www.graceindustries.com

Greyline Instruments Inc.

105 Water St. Massena, NY 13662 888-473-9546 • 315-788-9500 • Fax: 315-764-0419 info@greyline.com www.greyline.com

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Hach Company - Flow Products & Services

5600 Lindbergh Dr. Loveland, CO 80538 800-368-2723 • 970-622-7120 • Fax: 970-619-5150 hachflowsales@hach.com www.hachflow.com

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Halliday Products, Inc.

6401 Edgewater Dr. Orlando, FL 32810 800-298-1027 • Fax: 407-298-4534 armond@hallidayproducts.com www.hallidayproducts.com Ad on page 47

Hammelmann Corp.

436 Southpointe Dr. Miamisburg, OH 45342 800-783-4935 • 937-859-8777 • Fax: 937-859-9188 mail@hammelmann.com www.hammelmann.com



HammerHead Trenchless Equipment PO Box 3

Oconomowoc, WI 53066 800-331-6653 • 262-567-8833 • Fax: 262-567-5068 info@hammerheadmole.com www.hammerheadtrenchless.com Ad on page 45



Hanson Building Products

300 E John Carpenter Frwy. Irving, TX 75062 972-262-3600 www.hansonbuildingproducts.com

HARCO Fittings

3721 Cohen Pl. Lynchburg, VA 24501-5047 434-845-7094 • Fax: 434-845-8562 sales@harcofittinas.com www.harcofittinas.com Ad on page 119

Hastings Irrigation Pipe Co.

1801 E South St. Hastings, NE 68902 800-759-8823 • Fax: 402-463-4355 gjones@hipco-ne.com www.hastingsirrigation.com

Hathorn Corporation

75 W Beaver Creek Rd. Richmond Hill, ON L4B 1K6 Canada 905-886-2835 • Fax: 289-597-2800 info@hathorncorp.com www.hathorncorp.com

HBD/Thermoid, Inc. - Subsidiary of HBD

Industries, Inc.

1301 W Sandusky Ave. Bellefontaine, OH 43311 800-543-8070 • 937-593-5010 • Fax: 800-423-4354 info@hbdthermoid.com www.hbdthermoid.com

HEMCO Corporation

711 S Powell Rd. Independence, MO 64056 800-779-4362 • 816-796-2900 info@hemcocorp.com www.hemcocorp.com

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Hi-Vac Corporation 117 Industry Rd. Marietta, OH 45750 800-752-2400 • 740-374-2306 • Fax: 740-374-5447 sales@hi-vac.com

www.aquatechinc.com Ad on page 51

Hibon Inc. (a division of Ingersoll Rand)

12055 Cote de Liesse Dorval, QC H9P 1B4 Canada 888-704-4266 • 514-631-3501 • Fax: 514-631-3502 jeff peterson@irco.com www.hibon.com

HOBAS Pipe USA

1413 E Richey Rd. Houston, TX 77073 800-856-7473 • 281-821-2200 • Fax: 281-821-7715 info@hobaspipe.com www.hobaspipe.com Ad on page 17

Hot Jet USA

14717 Heritage Crest Way Riverton, UT 84065 800-213-3272 • 801-545-0777 • Fax: 801-545-9132 mo@powerlineindustries.com www.hotjetusa.com



Hurco Technologies, Inc.

409 Enterprise St. Harrisburg, SD 57032 800-888-1436 • 605-743-2466 • Fax: 605-743-2465 info@gethurco.com

www.gethurco.com

Ad on page 61



Hy-Flex Corporation

1810 Troy Ave. New Castle, IN 47362 866-849-6246 • 765-529-3200 • Fax: 765-529-2804 ryan@hyflexcorp.com www.hyflexcorp.com

Hydra-Stop

11700 S Cicero Ave. Alsin II 60803 800-538-7867 • 708-389-5111 • Fax: 708-389-5125 dchristensen@idexcorp.com www.hydra-stop.com





ICS, Blount Inc.

4909 SE International Way Portland, OR 97222 800-321-1240 • 503-653-4380 • Fax: 503-653-4393 marketina@icsdiamondtools.com www.icsdiamondtools.com



Image Inspection Services, Ltd.

4650 - 50th Ave. SE Calgary, AB T2B 3R4 Canada 800-667-6670 • 403-287-1053 • Fax: 403-243-4564 sales@image-inspect.com www.image-inspect.com



sales@infosenseinc.com

www.infosenseinc.com Ad on page 95

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

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Inliner Technologies

1468 W Hospital Rd. Paoli, IN 47454 812-723-0704 • Fax: 812-723-5998 info@inliner.com www.inliner.com

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InviziQ

8708 W Little York, Ste. 100 Houston, TX 77040 877-486-6966 • 281-854-0300 • Fax: 281-854-0301 moynorfq@nov.com www.invizig.com Ad on page 37

IPEX USA LLC

2441 Royal Windsor Dr. Mississauga, ON L5J 4C7 Canada 800-463-9572 • 905-403-0264 • Fax: 905-403-9195 marketing@ipexamerica.com www.ipexamerica.com



Jameson, LLC

1451 Old N Main St. Clover, SC 29710 800-346-1956 • Fax: 803-222-6400 sales@iamesoncorp.com www.jamesonllc.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





K&W Products, Inc.

26264 US Hwv. 98 Elberta, AL 36530 800-503-0076 • 251-986-7900 • Fax: 251-986-7902 sales@kwproducts.net www.kwmiequipment.com Ad on page 119

KEG Technologies, Inc. 6220 N Pinnacle Dr. Spartanburg, SC 29303 866-595-0515 • 864-804-6637 • Fax: 866-595-0517 sales@kegtechnologies.net www.keatechnologies.net

KOHLER Power Systems

444 Highland Dr. Kohler, WI 53044 800-544-2444 • 920-457-4441 • Fax: 920-459-1646 generator.feedback@kohler.com www.kohlerpower.com

Komline-Sanderson

12 Holland Ave. Peapack, NJ 07977 800-225-5457 • 908-234-1000 • Fax: 908-234-9487 info@komline.com www.komline.com Ad on page 71



Krausz USA 331 SW 57th Ave Ocala, FL 34474

855-457-2879 • 352-509-3600 • Fax: 352-304-5787

info@krauszusa.com www.krauszusa.com Ad on page 57





LADTECH, Inc.

6704 Meadowlark Ct. Lino Lakes, MN 55038 877-235-7464 • 651-415-1252 • Fax: 651-415-1090 adjring@ladtech.com www.ladtech.com Ad on page 101

Layne Inliner, LLC

4520 N State Rd 37 Orleans, IN 47452 812-865-3232 • Fax: 812-865-3075 inlinerinfo@layne.com www.layne.com

Lee Supply Company

305 1st St. Charleroi, PA 15022 800-353-3747 • 724-483-3543 • Fax: 724-483-0577 dcaruso@leesupply.com www.leesupply.com Ad on page 56

Liberty Pumps

7000 Apple Tree Ave. Bergen, NY 14416 800-543-2550 • 585-494-1817 • Fax: 585-494-1839 liberty@libertypumps.com www.libertypumps.com





Linabond, Inc.

1161 Avenida Acaso Camarillo, CA 93012 805-484-7373 info@linabond.com www.linabond.com

LMK Technologies

1779 Chessie Ln. Ottawa, IL 61350 815-433-1275 • Fax: 815-433-0107 info@lmktechnologies.com www.lmktechnologies.com Ad on page 121

LockDown Inc.

2291 Plunkett Rd Conyers, GA 30012 866-399-2512 • 678-750-0466 • Fax: 770-483-5702 secure@lockdowninc.com www.lockdowninc.com

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



Madewell Products Corp.

7561 Industrial Ct. Alpharetta, GA 30004 800-741-8199 • 770-475-8199 • Fax: 770-475-8167 sales@madewell.net www.madewell.net Ad on page 32

Mainline Backflow Products. Inc.

12530 - 128 St. Edmonton, AB T5L 1C9 Canada 877-734-8691 • 780-413-7204 • Fax: 780-457-1210 tomc@backwatervalve.com www.backwatervalve.com

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Martech Research

15 Myrtle Dr. Bishopville, SC 29010 803-459-2427 • Fax: 803-428-9290 csherrill@martechresearch.com www.martechresearch.com



Martin Engineering

One Martin Pl. Neponset, IL 61345 800-544-2947 • 309-852-2384 • Fax: 800-814-1553 info@martin-eng.com www.martin-ena.com

McElroy Manufacturing, Inc.

PO Box 580550 Tulsa, OK 74158 918-836-8611 www.mcelroy.com/fusion

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McGard LLC 3875 California Rd. Orchard Park. NY 14127 888-888-9192 • 716-662-8980 • Fax: 716-662-8985 rglass@mcgard.com www.manholelocks.com

Ad on page 73



McLaughlin Group, Inc.

2006 Perimeter Rd. Greenville, SC 29605 800-435-9340 • 864-277-5870 • Fax: 864-235-9661 mmole@mightymole.com www.mclaughlinunderground.com

Mr. Manhole

125 S Canal St. Delphos, OH 45833 419-741-9075 • Fax: 419-692-1600 sales@mrmanhole.com www.mrmanhole.com Ad on page 117

MTech

7401 First Place Cleveland, OH 44146 800-362-0240 • 440-646-0996 • Fax: 440-646-9953 sales@mtechcompany.com www.mtechcompany.com Ad on page 118 118

Mueller Co.

633 Chestnut St., Ste. 1200 Chattanooga, TN 37450 800-423-1323 • 423-209-4800 • Fax: 423-209-4850 moreinfo@muellercompany.com www.muellercompany.com

Mueller SYSTEMS

Mueller Systems

48 Leona Dr., Ste. C Middleboro, MA 02346 877-866-5945 • 508-946-9163 • Fax: 508-946-9168 customercare@muellersystems.com www.muellersystems.com

MyTana Mfg. Company, Inc.

746 Selby Ave. St. Paul, MN 55104 800-328-8170 • 651-222-1738 • Fax: 651-222-1739 mytana@mytana.com www.mytana.com



NeoLogic

Neologic Solutions

2 Distribution Ct. Greer, SC 29650 855-896-3525 • Fax: 866-409-9622 info@neologicsolutions.com www.neologicsolutions.com Ad on page 20

Neopoxy International, Inc.

23964 Clawiter Road Hayward, CA 94545 510-782-1290 • Fax: 510-782-1292 epoxy@neopoxy.us www.neopoxy.us

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North American Pipe Corporation

2801 Post Oak Blvd., Ste 600. Houston, TX 77056 800-999-7473 • 713-840-7473 • Fax: 713-552-0087 technical@northamericanpipe.com www.northamericanpipe.com

North American Specialty Products

933 Old Eagle School Rd. Wayne, PA 19087 855-624-7473 • 855-684-7473 specpipeproducts@northamericanpipe.com www.naspecialtyproducts.com



NozzTeg, Inc. 1949 Calumet St. Clearwater, FL 33765

866-620-5915 • 603-413-6583 • Fax: 603-413-6744

info@nozzteq.com www.nozzteq.com Ad on page 120



Parson Environmental Products, Inc. PO Box 4474 Reading, PA 19606 800-356-9023 • 610-582-6060 • Fax: 610-582-6064 info@parsonenvironmental.com www.parsonenvironmental.com

Perma-Liner Industries, LLC

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 5

Petersen Products Co.

PO Box 340 Fredonia, WI 53021 800-926-1926 • Fax: 262-692-2418 sales@petersenproducts.com www.pipeplug.com Ad on page 101

Pipeline Analytics

200 Cedar Ridge Dr., Ste. 207 Pittsburgh, PA 15205 877-626-8386 • Fax: 412-489-6471 wincan@pipelineanalytics.com www.pipelineanalytics.com Ad on page 69

Pipeline Renewal Technologies

111 Canfield Ave., Unit B3 Randolph, NJ 07869 866-936-8476 • 973-252-6700 • Fax: 973-252-1176 mail@pipelinert.com www.pipelinert.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.pipelogix.com Ad on page 12

PipeMedic by QuakeWrap, Inc.

2055 E 17th St. Tucson, AZ 85719 866-782-5397 • 520-791-7000 • Fax: 520-791-0600 office@quakewrap.com www.pipemedic.com Ad on page 93

Polston Applied Technologies

1990 Main St., Ste. 750 Sarasota, FL 34236 844-765-7866 • 941-444-1440 • Fax: 941-309-5316 info@polstonprocess.com www.polstonprocess.com Ad on page 9



POSM Software (Pipeline Observation System

Management) PO Box 1235 Cape Canaveral, FL 32920 859-274-0041 • Fax: 707-238-1478 info@posm.us www.posm.us

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

Premier Oilfield Equipment

2550 E Bijou Ave. Fort Morgan, CO 80701 970-542-1975 • Fax: 970-542-1977 sales@poequip.com www.poequip.com Ad on page 24

Prime Resins, Inc.

2291 Plunkett Rd. Conyers, GA 30012 800-321-7212 • 770-388-0626 • Fax: 770-388-0936 sales@primeresins.com www.primeresins.com Ad on page 118

V. PROCOMSOL

ProComSol, Ltd

13001 Athens Ave., Ste. 220 Lakewood, OH 44107 877-221-1551 • 216-221-1550 • Fax: 216-221-1554 sales@procomsol.com www.procomsol.com Ad on page 36



Quadex/Interfit

4801 Crystal Hill Rd. North Little Rock, AR 72118 501-758-8628 info@auadexonline.com www.quadexonline.com



Radiodetection Corporation

28 Tower Rd. Raymond, ME 04071 877-247-3797 • 207-655-8525 • Fax: 207-655-8535 rd.sales.us@spx.com www.radiodetection.com



RapidView IBAK North America

1828 W Olson Rd. Rochester, IN 46975 800-656-4225 • 574-224-5426 • Fax: 574-223-7953 info@rapidview.com www.rapidview.com Ad on page 43

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

Red Valve Co. / Tideflex Technologies

600 N Bell Ave. Carnegie, PA 15106-4322 412-279-0044 • Fax: 412-279-7878 valves@redvalve.com

www.redvalve.com Ad on page 31

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 119

Reline America, Inc.

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

RELINER/Duran Inc.

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

www.reliner.com Ad on page 52

RFI Construction Products

495 Smith St. Farmingdale, NY 11735 631-752-8899 • Fax: 631-454-9155 cangrosales@ix.netcom.com www.rficonstructionproducts.com Ad on page 117

RKI Instruments, Inc.

33248 Central Ave. Union City, CA 94587 800-754-5165 • 510-441-5656 • Fax: 510-441-5650 orders@rkiinstruments.com www.rkiinstruments.com

RootX

1705 Salem Industrial Dr. Salem, OR 97301 800-844-4974 • 503-364-2999 • Fax: 503-485-5229 rootx@rootx com www.rootx.com Ad on page 111

Royal Building Products

56400 Mound Rd. Shelby Township, MI 48316 800-232-5690 • Fax: 586-781-0888 rosie.jordan@royalbuildingproducts.com www.royalbuildingproducts.com



RS Technical Services, Inc.

1327 Clegg St. Petaluma, CA 94954 800-767-1974 • 707-778-1974 • Fax: 707-778-1981 sales.info@rstechserv.com www.rstechserv.com

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16585 N 92nd St., Ste. 110 Scottsdale, AZ 85260 866-366-0587 • 480-968-6828 • Fax: 480-968-6776 service@safeteechemical.com www.safeteechemical.com

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Safety Corporation of America

1200 Neville Rd. Pittsburgh, PA 15225 800-746-7464 • 412-331-8118 • Fax: 412-331-8778 scapaytas@aol.com www.shoring.com Ad on page 36

SealGuard

363 Mars-Valencia Rd. Mars, PA 16046 866-625-4550 • 724-625-4550 • Fax: 724-625-2392 info@sealauardinc.com www.sealauardinc.com Ad on page 91

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www.ssisealingsystems.com Ad on page 99

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sales@sewerequipment.com www.sewerequipment.com

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

Shamrock Pipe Tools, Inc.

11210 S Choctaw Dr. Baton Rouge, LA 70815 800-633-7696 • 225-275-7696 • Fax: 800-777-0660 dbradford@shamrocktools.com

www.shamrocktools.com

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5 Harris Ct., Bldg. L Monterey, CA 93940 800-866-0200 • 831-373-0200 • Fax: 831-373-4402 info@sierrainstruments.com www.sierrainstruments.com

Simple Solutions Distributing

6 Jacobs Rd. West Milford, NJ 07480 866-667-8465 • 973-846-7817 sales@industrialodorcontrol.com www.industrialodorcontrol.com Ad on page 118

SIMPSON

Strong-Tie

Simpson Strong-Tie Co., Inc.

5956 W Las Positas Pleasanton, CA 94588 800-999-5099 www.stronatie.com

Singer Valve Inc.

12850 - 87 Ave. Surrey, BC V3W 3H9 Canada 604-594-5404 • Fax: 604-594-8845 singer@singervalve.com www.singervalve.com



Smith & Loveless, Inc.

14040 Santa Fe Trail Dr. Lenexa, KS 66215 800-898-9122 • 913-888-5201 • Fax: 913-888-2173 answers@smithandloveless.com www.smithandloveless.com

Soil Surgeon, Inc. 25462 Fallen Oak

Laguna Niguel, CA 92677 949-363-1401 • Fax: 714-434-9998 hhain@calhaz com www.soilsurgeoninc.com



Sonetics Corporation

7340 SW Durham Rd. Portland, OR 97224 800-833-4558 • 503-684-7080 • Fax: 503-620-2943 sales@soneticscorp.com www.soneticscorp.com Ad on page 20



Source 1 Environmental

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www.sleonline.com

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Southland Tool Mfg. Inc.

1430 N Hundley St. Anaheim, CA 92806 714-632-8198 • Fax: 714-632-8228 sales@southlandtool.com www.southlandtool.com

Ad on page 21 Specialty Maintenance Products, Inc.

5711 Clarewood, Ste. B Houston, TX 77081 713-667-4402 • Fax: 713-669-8618 sales@smptools.com www.smptools.com

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Sto-Away Power Cranes, Inc.

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SubSurface Locators, Inc.

PO Box 5490 Incline Village, NV 89450 775-298-2701 • Fax: 775-298-2703 sldi@mindspring.com www.subsurfacelocators.com

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Terry Byrne, Inc.

4775 Mill Run Rd. Lexington, OH 44904 419-525-1214 • Fax: 419-525-2386 tkb@byrnegroup.com www.theplughug.com

The Man Pan

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

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4505 Emmett Sanders Rd. Pine Bluff, AR 71601 800-982-8009 • 870-535-7617 • Fax: 870-850-6933 info@stronaseal.com www.strongseal.com Ad on page 41

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1760 Haskell Rd. Olean, NY 14760 716-372-0160 • Fax: 716-372-1767 sales@tps.us www.tps.us

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250 Elm St. Milford, NH 03055 800-626-2180 • 603-673-8680 • Fax: 603-673-7271 milfordsales@trelleborg.com www.trelleborg.com/npc



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6925 W Beaver St. Jacksonville, FL 32254 800-356-9661 • 904-786-1826 • Fax: 904-786-0911 sales@triplerspecialty.com www.triplerspecialty.com



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6929 E Greenway Pkwy., Ste. 200 Scottsdale, AZ 85254 800-877-3687 www.ur.com

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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 91

Uticom Systems, Inc.

109 Independence Way Coatesville, PA 19320 800-548-5321 ● 610-857-2655 ● Fax: 610-857-2986 graphics@uticom.net

www.uticom.net

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Utility Service Group

1230 Peachtree St. NE Ste. 1100
11th Flr. Promenade II Building
Atlanta, GA 30309
855-526-4413 ● 678-235-0280 ● Fax: 888-600-5876
help@utilityservice.com
www.utilityservice.com





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969 Hall Park Rd. Green Cove Springs, FL 32043 855-336-2962 vns@vac-con.com

www.vac-con.com

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www.vacallindustries.com
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Vactor Manufacturing

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www.vacuumsalesinc.com

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www.viatran.com

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info@vxmt.com
www.vivax-metrotech.com
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VUEWorks, LLC

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801 Asbury Dr. Buffalo Grove, IL 60089 800-525-5821 • 224-357-2606 • Fax: 847-415-2196 lrichardson@wachsws.com

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WL Plastics Corp.

3575 Lone Star Circle, Ste. 400 Fort Worth, TX 76177 682-831-2700 • Fax: 682-831-2710 wlsales@wlplastics.com www.wlplastics.com



Xcam

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Mueller Systems

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Data Flow Systems, Inc.

Melbourne, FL 321-259-5009 • Fax: 321-259-4006 tomh@dataflowsys.com www.dataflowsys.com

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RKI Instruments, Inc.

Union City, CA 800-754-5165 • 510-441-5656 • Fax: 510-441-5650 orders@rkiinstruments.com www.rkiinstruments.com

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Wachs Water Services

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Automatic Meter

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Bacteria/Chemicals -Grease

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info@electriceel.com

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General Pipe Cleaners

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info@drainbrain.com

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MyTana Mfg. Company, Inc.

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800-328-8170 • 651-222-1738 • Fax: 651-222-1739

mytana@mytana.com

www.mytana.com

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MTech

Cleveland, OH 800-362-0240 • 440-646-0996 • Fax: 440-646-9953 sales@mtechcompany.com www.mtechcompany.com

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Sewer Equipment

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Southland Tool Mfg. Inc.

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Advanced Drainage Systems, Inc.

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Hanson Building Products

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Chemicals - Cleaning

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Martech Research

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Safe-Tee Chemical Company

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Grace Industries, Inc.

Fredonia, PA
724-962-9237 • Fax: 724-962-3611
sales@graceindustries.com
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Martech Research

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LMK Technologies

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501-758-8628

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milfordsales@trelleborg.com www.trelleborg.com/npc



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800-321-7212 • 770-388-0626 • Fax: 770-388-0936

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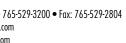
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Hastings, NE 800-759-8823 • Fax: 402-463-4355 gjones@hipco-ne.com www.hastingsirrigation.com

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Atlanta, GA 855-526-4413 • 678-235-0280 • Fax: 888-600-5876 help@utilityservice.com www.utilityservice.com

Erosion Control

Advanced Drainage Systems, Inc. 800-821-6710 • 614-658-0216 • Fax: 614-658-0204 info@ads-pipe.com www.ads-pipe.com

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Reading, PA 610-374-5109 • Fax: 610-376-6022 water@brentwoodindustries.com www.brentwoodindustries.com Ad on page 20

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800-527-4043 • 972-250-1633 • Fax: 972-250-1530 info@fiberarate.com www.fiberarate.com

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Greenwich, NY 518-527-5417 • Fax: 518-695-5417 kellv@bdpindustries.com www.bdpindustries.com

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800-504-8008 • 410-687-6256 • Fax: 860-434-3195 tim@bmpinc.com www.bmpinc.com

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Edina, MN 800-447-4369 dowcig@dow.com www.dowwaterandprocess.com

Grace Industries, Inc.

Fredonia. PA 724-962-9237 • Fax: 724-962-3611 sales@graceindustries.com www.graceindustries.com

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Neologic Solutions

Greer, SC 855-896-3525 • Fax: 866-409-9622 info@neologicsolutions.com www.neologicsolutions.com Ad on page 20

Red Valve Co. / Tideflex Technologies

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Royal Building Products

Shelby Township, MI 800-232-5690 • Fax: 586-781-0888 rosie.jordan@royalbuildingproducts.com www.rovalbuildinaproducts.com

Fittings - Vacuum

Chandler Equipment, Inc.

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Hastings Irrigation Pipe Co.

Hastings, NE 800-759-8823 • Fax: 402-463-4355 giones@hipco-ne.com www.hastingsirrigation.com

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Manassas, VA 866-872-1224 • 703-334-5980 • Fax: 703-334-5979 ron@varcopumper.com www.varcopumper.com Ad on page 39

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Massena, NY 888-473-9546 • 315-788-9500 • Fax: 315-764-0419 info@greyline.com

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Loveland, CO

800-368-2723 • 970-622-7120 • Fax: 970-619-5150

hachflowsales@hach.com www.hachflow.com

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Charlotte, NC 877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com

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800-463-9572 • 905-403-0264 • Fax: 905-403-9195 marketina@ipexamerica.com www.ipexamerica.com

Mueller Co.

Chattanooga, TN 800-423-1323 • 423-209-4800 • Fax: 423-209-4850 moreinfo@muellercompany.com www.muellercompany.com



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Monterey, CA 800-866-0200 • 831-373-0200 • Fax: 831-373-4402 info@sierrainstruments.com www.sierrainstruments.com

Singer Valve Inc.

Surrey, BC Canada

604-594-5404 • Fax: 604-594-8845

singer@singervalve.com

www.singervalve.com

Fume Hoods

HEMCO Corporation

Independence, MO 800-779-4362 • 816-796-2900 info@hemcocorp.com www.hemcocorp.com

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Torrance, CA 800-992-0222 • 310-534-4000 • Fax: 310-534-4020 ip@advancedworld.com www.advancedworld.com

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Oklahoma City, OK 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 kriones@winnelson.com www.centralwinnelson.com

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Bradenton, FL 800-365-6583 • 941-739-0707 • Fax: 941-739-0001 sales@cloverleaftool.com

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Cleveland, OH 800-362-0240 • 440-646-0996 • Fax: 440-646-9953 sales@mtechcompany.com

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Union City, CA 800-754-5165 • 510-441-5656 • Fax: 510-441-5650 orders@rkiinstruments.com www.rkiinstruments.com

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Grease Handling Equipment

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Honkins, MI 800-253-0532 • 269-793-7183 • Fax: 269-793-4022 julie@brightbeltpress.com www.brightbeltpress.com



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Columbia City. IN 800-444-3134 • 260-248-8188 • Fax: 260-248-2605 reelcraft@reelcraft.com www.reelcraft.com Ad on page 119

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Vacuum Sales, Inc.

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Grease Interceptors

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SealGuard

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800-478-2054 • 763-478-2057 • Fax: 763-478-8868 pam@ssisealingsystems.com www.ssisealingsystems.com

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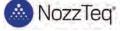
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VARCo

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Water Cannon, Inc. - MWBE

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Hose - Vacuum

Cloverleaf Tool Co.

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St. Petersburg, FL 877-327-4216 • 727-327-4216 • Fax: 727-327-4118 irsi@irsi.net www.irsi.net Ad on page 89



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sales@kwproducts.net
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Water Cannon, Inc. - MWBE

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800-323-1604 • 815-835-5566 • Fax: 815-284-0452 sales@sewerequipment.com www.sewerequipment.com

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Super Products LLC

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Linabond, Inc.

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Springdale, AR 800-342-0887 • 479-751-9771 sales@chandlerequipment.com www.chandlerequipment.com

Endress+Hauser

Greenwood, IN 888-363-7377 • 317-535-7138 • Fax: 317-535-8498 info@us.endress.com www.us.endress.com

Greyline Instruments Inc.

Massena, NY 888-473-9546 ◆ 315-788-9500 ◆ Fax: 315-764-0419 info@greyline.com www.greyline.com Ad on page 52

InfoSense, Inc.

Charlotte, NC 877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com www.infosenseinc.com Ad on page 95 Monterey, CA 800-866-0200 • 831-373-0200 • Fax: 831-373-4402 info@sierrainstruments.com



Sierra Instruments, Inc.

VARCo

Manassas, VA 866-872-1224 ● 703-334-5980 ● Fax: 703-334-5979 ron@varcopumper.com www.varcopumper.com Ad on page 39

Viatran

Wheatfield, NY 800-688-0030 • 716-629-3800 • Fax: 716-693-9162 solutions@viatran.com www.viatran.com

Locators - Electronic

Advanced Infrastructure Technologies, LLC

Torrance, CA
800-992-0222 • 310-534-4000 • Fax: 310-534-4020
jp@advancedworld.com
www.advancedworld.com
Ad on page 79

Central Oklahoma Winnelson

Oklahoma City, OK 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 krjones@winnelson.com www.centralwinnelson.com

Ad on page 85

CORE COBRADPTICAL ROBOTICS EN VIRON MENTAL

Cobra Technologies

Smyrna, GA 800-443-3761 ● Fox: 770-435-0402 sales@cobratec.com www.cobratec.com Ad on page 49

Electro Scan Inc.

Ad on page 35

Sacramento, CA 800-975-6149 • 916-779-0660 • Fax: 916-779-0661 info@electroscan.com www.electroscan.com

General Pipe Cleaners

McKees Rocks, PA 800-245-6200 ◆ 412-771-6300 info@drainbrain.com www.drainbrain.com Ad on page 115

Image Inspection Services, Ltd.

Calgary, AB
Canada
800-667-6670 • 403-287-1053 • Fax: 403-243-4564
sales@image-inspect.com
www.image-inspect.com

InfoSense, Inc.

Charlotte, NC

877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com

www.infosenseinc.com

Ad on page 95

Jameson, LLC

Clover, SC

800-346-1956 • Fax: 803-222-6400

sales@jamesoncorp.com

www.jamesonllc.com

Ad on page 83



McLaughlin Group, Inc.

Greenville, SC

800-435-9340 • 864-277-5870 • Fax: 864-235-9661 mmole@mightymole.com

www.mclaughlinunderground.com

MyTana Mfg. Company, Inc.

St. Paul, MN

800-328-8170 • 651-222-1738 • Fax: 651-222-1739

mytana@mytana.com www.mvtana.com

Pow-r Mole Sales LLC

Lancaster, NY

800-344-6653 • 716-683-2486 • Fax: 716-683-6372

brian@powrmole.com

www.powrmole.com

RapidView IBAK North America

Rochester, IN

800-656-4225 • 574-224-5426 • Fax: 574-223-7953

info@rapidview.com

www.rapidview.com

Ad on page 43

Ratech Electronics, Ltd.

Concord, ON

Canada

800-461-9200 • 905-660-7072 • Fax: 905-660-1519

 $sales@ratech\hbox{-}electronics.com$

www.ratech-electronics.com

SubSurface Locators, Inc.

Incline Village, NV

775-298-2701 • Fax: 775-298-2703

sldi@mindspring.com

www.subsurfacelocators.com

Ad on page 99

Locators - Pipe/Leak/ Valve/Sewer

Advanced Infrastructure Technologies, LLC

Torrance, CA

800-992-0222 • 310-534-4000 • Fax: 310-534-4020

jp@advancedworld.com

www.advancedworld.com

Ad on page 79

Central Oklahoma Winnelson

Oklahoma City, OK

888-947-8761 • 405-947-8761 • Fax: 405-947-1934

krjones@winnelson.com

www.centralwinnelson.com

Ad on page 85



Cherne Industries, Inc.

 ${\it Minneapolis,\,MN}$

800-843-7584 • Fax: 800-843-7585

qdanaher@cherneind.com

www.cherneind.com

Ad on page 53



Echologics

Mississauga, ON

Canada

866-324-6564 • 905-672-3246 • Fax: 905-612-0201

info@echologics.com

www.echologics.com

Electro Scan Inc.

Sacramento, CA

800-975-6149 • 916-779-0660 • Fax: 916-779-0661

info@electroscan.com

www.electroscan.com

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Fluid Conservation Systems

Milford, OH

800-531-5465 • 513-831-9335 • Fax: 513-831-9336

sales@fluidconservation.com

www.fluidconservation.com

Ad on page 116

General Pipe Cleaners

McKees Rocks, PA

800-245-6200 • 412-771-6300

info@drainbrain.com

www.drainbrain.com

Ad on page 115

Hurco Technologies, Inc.

Harrisburg, SD

800-888-1436 • 605-743-2466 • Fax: 605-743-2465

info@gethurco.com

www.gethurco.com

Ad on page 61



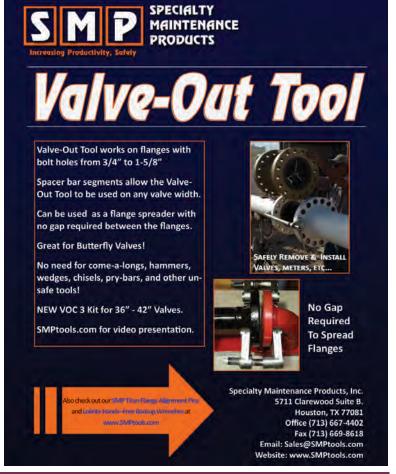


Image Inspection Services, Ltd.

Calgary, AB

Canada

800-667-6670 • 403-287-1053 • Fax: 403-243-4564 sales@image-inspect.com

www.image-inspect.com

InfoSense, Inc.

Charlotte, NC

877-747-3245 • 336-302-0164 • Fax: 704-930-0145

sales@infosenseinc.com

www.infosenseinc.com Ad on page 95

MTech

Cleveland, OH 800-362-0240 • 440-646-0996 • Fax: 440-646-9953 sales@mtechcompany.com

www.mtechcompany.com

Ad on page 118

MyTana Mfg. Company, Inc.

St. Paul, MN

800-328-8170 • 651-222-1738 • Fax: 651-222-1739

mytana@mytana.com www.mytana.com

NozzTeq, Inc.

Clearwater, FL

866-620-5915 • 603-413-6583 • Fax: 603-413-6744

info@nozzteg.com

www.nozztea.com Ad on page 120

Pow-r Mole Sales LLC

Lancaster, NY

800-344-6653 • 716-683-2486 • Fax: 716-683-6372

brian@powrmole.com

www.powrmole.com

Radiodetection Corporation

Raymond, ME

877-247-3797 • 207-655-8525 • Fax: 207-655-8535

rd.sales.us@spx.com

www.radiodetection.com

Ratech Electronics, Ltd.

Concord, ON Canada

800-461-9200 • 905-660-7072 • Fax: 905-660-1519

sales@ratech-electronics.com

www.ratech-electronics.com

Red Valve Co. / Tideflex Technologies

Carnegie, PA

412-279-0044 • Fax: 412-279-7878

valves@redvalve.com

www.redvalve.com

Ad on page 31

SubSurface Locators, Inc.

Incline Village, NV

775-298-2701 • Fax: 775-298-2703

sldi@mindspring.com

www.subsurfacelocators.com

Ad on page 99

Superior Signal Company LLC

Spotswood, NJ

800-945-8378 • 732-251-0800 • Fax: 732-251-9442

info@superiorsianal.com

www.superiorsignal.com

Ad on page 118

Utility Service Group

Atlanta, GA

855-526-4413 • 678-235-0280 • Fax: 888-600-5876

help@utilityservice.com

www.utilityservice.com

Vactor Manufacturing

Streator, IL

800-627-3171 • 815-672-3171 • Fax: 815-672-2779

sales@vactor.com

www.vactor.com

Ad on page 3

VIVAX

METROTECH

Vivax-Metrotech Corp.

Santa Clara, CA

800-446-3392 • 408-734-1400 • Fax: 408-734-1415

info@vxmt.com

www.vivax-metrotech.com

Ad on page 44

Locators - Smoke/Dve



BRIGHT DYES -

Division of Kingscote Chemicals

Miamisburg, OH

800-394-0678 • 937-886-9100 • Fax: 937-886-9300

sales@brightdves.com www.brightdyes.com

Ad on page 117

Central Oklahoma Winnelson

Oklahoma City, OK

888-947-8761 • 405-947-8761 • Fax: 405-947-1934

krjones@winnelson.com

www.centralwinnelson.com

Ad on page 85

Cloverleaf Tool Co.

Bradenton, FL

800-365-6583 • 941-739-0707 • Fax: 941-739-0001

sales@cloverleaftool.com

www.cloverleaftool.com

Ad on page 44

HURCO

Hurco Technologies, Inc.

Harrisburg, SD

800-888-1436 • 605-743-2466 • Fax: 605-743-2465

info@gethurco.com

www.gethurco.com

Ad on page 61

Logiball, Inc. Quebec, QC

Canada

800-246-5988 • 418-656-9767 • Fax: 418-653-5746

info@logiball.com www.logiball.com

NozzTeq, Inc.

Clearwater, FL

866-620-5915 • 603-413-6583 • Fax: 603-413-6744

info@nozzteq.com

www.nozzteq.com

Ad on page 120

Sewer Equipment Co. of Florida

New Smyrna Beach, FL

800-635-2323 • Fax: 386-427-4552

csewerequipment@cfl.rr.com

www.sewerequipmentco.com

Ad on page 116



Superior Signal Company LLC

Spotswood, NJ

800-945-8378 • 732-251-0800 • Fax: 732-251-9442

info@superiorsianal.com

www.superiorsignal.com

Ad on page 118 TURBO-FOG

TURBO FOG Division of

Kinascote Chemicals Miamisbura, OH

800-394-0678 • 937-886-9100 • Fax: 937-886-9300

sales@turbo-fog.com

www.turbo-fog.com Ad on page 116

Manhole Inserts

Cretex Specialty Products

Waukesha, WI

800-345-3764 • 262-542-8153 • Fax: 262-542-0301

info@cretexseals.com

www.cretexseals.com

Ad on page 32

LockDown Inc.

Convers. GA 866-399-2512 • 678-750-0466 • Fax: 770-483-5702

secure@lockdowninc.com

www.lockdowninc.com



McGard LLC Orchard Park, NY

888-888-9192 • 716-662-8980 • Fax: 716-662-8985

rglass@mcgard.com

www.manholelocks.com Ad on page 73

Mr. Manhole

Delphos, OH

419-741-9075 • Fax: 419-692-1600 sales@mrmanhole.com

www.mrmanhole.com Ad on page 117

Parson Environmental Products, Inc.

Reading, PA

800-356-9023 • 610-582-6060 • Fax: 610-582-6064

info@parsonenvironmental.com

www.parsonenvironmental.com

Sealing Systems, Inc.

Loretto, MN

800-478-2054 • 763-478-2057 • Fax: 763-478-8868

pam@ssisealingsystems.com

www.ssisealingsystems.com

Ad on page 99

Sewer Equipment Co. of Florida

New Smyrna Beach, FL

800-635-2323 • Fax: 386-427-4552

csewerequipment@cfl.rr.com

www.sewerequipmentco.com Ad on page 116

Sewer Shield Composite LLC

Mesa, AZ

480-830-9537 • Fax: 480-380-4461

info@sewershieldcomposites.com www.sewershieldcomposites.com

Simple Solutions Distributing

West Milford, NJ

866-667-8465 • 973-846-7817 sales@industrialodorcontrol.com

www.industrialodorcontrol.com



The Man Pan

McMurray, PA 724-942-9500 • Fax: 724-942-7591

johnmanning@themanpan.com

www.themanpan.com

Manhole Parts/ Components

American Highway Products, Ltd.

Bolivar, OH

888-272-2397 • 330-874-3270 • Fax: 330-874-3800

sales@ahp1.com www.ahp1.com

Ad on page 87

Chandler Equipment, Inc. Springdale, AR

800-342-0887 • 479-751-9771 sales@chandlerequipment.com

www.chandlerequipment.com

Cretex Specialty Products Waukesha, WI

800-345-3764 • 262-542-8153 • Fax: 262-542-0301

info@cretexseals.com www.cretexseals.com

Ad on page 32

Fibergrate Composite Structures Inc.

Dallas, TX 800-527-4043 • 972-250-1633 • Fax: 972-250-1530

info@fibergrate.com

www.fibergrate.com Ad on page 119

Halliday Products, Inc.

Orlando, FL

800-298-1027 • Fax: 407-298-4534

armond@hallidayproducts.com

www.hallidayproducts.com Ad on page 47



LADTECH, Inc.

Lino Lakes, MN 877-235-7464 • 651-415-1252 • Fax: 651-415-1090 adjring@ladtech.com www.ladtech.com

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McGard LLC

Orchard Park, NY 888-888-9192 • 716-662-8980 • Fax: 716-662-8985 rglass@mcgard.com www.manholelocks.com

Ad on page 73

Mr. Manhole

Ad on page 117

Delphos, OH 419-741-9075 • Fax: 419-692-1600 sales@mrmanhole.com www.mrmanhole.com

Parson Environmental Products, Inc.

Reading, PA 800-356-9023 • 610-582-6060 • Fax: 610-582-6064 info@parsonenvironmental.com

RELINER/Duran Inc.

Lyme, CT 800-508-6001 • 860-434-0277 • Fax: 860-434-3195 duran@reliner.com

www.reliner.com

Ad on page 52

Sewer Shield Composite LLC

480-830-9537 • Fax: 480-380-4461 info@sewershieldcomposites.com www.sewershieldcomposites.com

Manhole Rehabilitation

A.W. Cook Cement

Hoschton, GA 706-654-4706 • Fax: 706-654-3662 cookcement@windstream.net www.awcookcement.com

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Abart Industries, LLC

Marcellus, NY 315-730-2588 • Fax: 315-730-2588 dave@tophatrisers.com www.tophatrisers.com Ad on page 116

American Highway Products, Ltd.

Bolivar. OH 888-272-2397 • 330-874-3270 • Fax: 330-874-3800

sales@ahp1.com www.ahp1.com

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AP/M PERMAFORM, Inc.

Johnston, IA 800-662-6465 • 515-276-9610 • Fax: 515-276-1274 info@permaform.net

www.permaform.net Ad on page 81

Avanti International

Webster, TX 800-877-2570 • 281-486-5600 • Fax: 281-486-7300 sales@avantigrout.com www.avantigrout.com

Cretex Specialty Products

Waukesha, WI 800-345-3764 • 262-542-8153 • Fax: 262-542-0301 info@cretexseals.com www.cretexseals.com

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Duke's Root Control, Inc.

Syracuse, NY 800-447-6687 • 315-472-4781 • Fax: 315-475-4203 lvnn@dukes.com

www.dukes.com Ad on page 11

Environmental Coatings LLC

Mesa, AZ 480-984-7608 • Fax: 480-380-4461 info@sewershield.com www.sewershield.com

Epoxytec, Inc.

Hollywood, FL 877-463-7699 • 954-961-4656 • Fax: 954-961-2395 drapanos@epoxytec.com www.epoxytec.com Ad on page 36

Hy-Flex Corporation

New Castle, IN 866-849-6246 • 765-529-3200 • Fax: 765-529-2804 rvan@hvflexcorp.com www.hyflexcorp.com



USB-Sewer Equipment Corporation

1700 Enterprise Way • Ste 116 • Marietta, GA 30067

TOLL FREE 1.866.408.2814 . PHONE 770.984.8880

USB - SEC FAX 770.984.2802 • EMAIL info@usbsec.com • WEB www.usbsec.com



Infrastructure Repair Systems, Inc.

St. Petersburg, FL 877-327-4216 • 727-327-4216 • Fax: 727-327-4118 irsi@irsi net

www irsi net

Ad on page 89

JPCI Services

Mesa, AZ

480-986-1212 • Fax: 480-380-4461

info@jpciservices.com www.ipciservices.com



LADTECH, Inc.

Lino Lakes, MN

877-235-7464 • 651-415-1252 • Fax: 651-415-1090

adjring@ladtech.com www.ladtech.com

Ad on page 101

Lee Supply Company

Charleroi, PA

800-353-3747 • 724-483-3543 • Fax: 724-483-0577

dcaruso@leesupply.com www.leesupply.com

Ad on page 56

Linabond, Inc.

Camarillo, CA

805-484-7373

info@linabond.com

www.linabond.com

LMK Technologies

Ottawa, IL

815-433-1275 • Fax: 815-433-0107

info@lmktechnologies.com

www.lmktechnologies.com Ad on page 121

Logiball, Inc.

Quebec, QC

Canada

800-246-5988 • 418-656-9767 • Fax: 418-653-5746

info@logiball.com

www.logiball.com

Madewell Products Corp.

Alpharetta GA

800-741-8199 • 770-475-8199 • Fax: 770-475-8167

sales@madewell.net

www.madewell.net

Ad on page 32



Mr. Manhole

Delphos, OH

419-741-9075 • Fax: 419-692-1600

sales@mrmanhole.com

www.mrmanhole.com

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Neopoxy International, Inc.

Hayward, CA

510-782-1290 • Fax: 510-782-1292

epoxy@neopoxy.us

www.neopoxy.us Ad on page 118

NozzTeg, Inc.

Clearwater, FL

866-620-5915 • 603-413-6583 • Fax: 603-413-6744

info@nozztea.com

www.nozztea.com

Ad on page 120 PARSON

Parson Environmental Products, Inc.

Reading, PA

800-356-9023 • 610-582-6060 • Fax: 610-582-6064

info@parsonenvironmental.com

www.parsonenvironmental.com



Perma-Liner Industries, LLC

Clearwater, FL

866-336-2568 • 727-507-9749 • Fax: 727-507-9849

info@perma-liner.com

www.perma-liner.com

Ad on page 5

Prime Resins, Inc.

Convers, GA

800-321-7212 • 770-388-0626 • Fax: 770-388-0936

sales@primeresins.com

www.primeresins.com

Ad on page 118



Quadex/Interfit

North Little Rock, AR

501-758-8628

info@quadexonline.com

www.quadexonline.com

RELINER/Duran Inc.

Ivme (T

800-508-6001 • 860-434-0277 • Fax: 860-434-3195

duran@reliner.com

www.reliner.com

Ad on page 52

RFI Construction Products

Farminadale, NY

631-752-8899 • Fax: 631-454-9155

cangrosales@ix.netcom.com

www.rficonstructionproducts.com

Ad on page 117

SealGuard

Mars. PA

866-625-4550 • 724-625-4550 • Fax: 724-625-2392

info@sealauardinc.com

www.sealguardinc.com

Ad on page 91

Sealing Systems, Inc.

Loretto, MN

800-478-2054 • 763-478-2057 • Fax: 763-478-8868

pam@ssisealingsystems.com

www.ssisealingsystems.com

Ad on page 99

Sewer Equipment Co. of Florida

New Smyrna Beach, FL

800-635-2323 • Fax: 386-427-4552

csewerequipment@cfl.rr.com

www.sewerequipmentco.com

Ad on page 116

Sewer Shield Composite LLC

Mesa, AZ

480-830-9537 • Fax: 480-380-4461 info@sewershieldcomposites.com

www.sewershieldcomposites.com

SIMPSON

Strong-Tie

Simpson Strong-Tie Co., Inc.

Pleasanton, CA

800-999-5099 www.strongtie.com

Source 1 Environmental

Davison MI

877-450-3701 • 810-412-4740 • Fax: 810-412-4743

skerby@s1eonline.com

www.sleonline.com

Ad on page 77

Southland Tool Mfg. Inc.

Anaheim, CA

714-632-8198 • Fax: 714-632-8228

sales@southlandtool.com

www.southland tool.com



The Strong Company, Inc.

Pine Bluff, AR

800-982-8009 • 870-535-7617 • Fax: 870-850-6933

info@strongseal.com

www.strongseal.com Ad on page 41

TRELLEBORG

Trelleborg Pipe Seals Milford Inc.

Milford, NH

800-626-2180 • 603-673-8680 • Fax: 603-673-7271

milfordsales@trelleborg.com

www.trelleborg.com/npc



USB - Sewer Equipment Corporation

USB - Sewer Equipment Corporation

866-408-2814 • 770-984-8880 • Fax: 770-984-2802

info@usbsec.com

www.USBSEC.com

Ad on page 91

Manhole Vacuum Testing



Cherne Industries, Inc.

Minneapolis, MN

800-843-7584 • Fax: 800-843-7585

adanaher@cherneind.com

www.cherneind.com Ad on page 53

Hurco Technologies, Inc.

Harrisburg, SD 800-888-1436 • 605-743-2466 • Fax: 605-743-2465

info@aethurco.com www.aethurco.com

Ad on page 61

Mr. Manhole

Delphos, OH

419-741-9075 • Fax: 419-692-1600

sales@mrmanhole.com www.mrmanhole.com

Ad on page 117

NozzTeg, Inc.

Clearwater, FL

866-620-5915 • 603-413-6583 • Fax: 603-413-6744

info@nozztea.com

www.nozzteq.com

Ad on page 120

RKI Instruments, Inc.

Union City, CA

800-754-5165 • 510-441-5656 • Fax: 510-441-5650

orders@rkiinstruments.com

www.rkiinstruments.com

Sewer Equipment Co. of Florida

New Smyrna Beach, FL 800-635-2323 • Fax: 386-427-4552 csewerequipment@cfl.rr.com

www.sewerequipmentco.com



Trelleborg Pipe Seals Milford Inc.

800-626-2180 • 603-673-8680 • Fax: 603-673-7271

milfordsales@trelleborg.com

www.trelleborg.com/npc

Meter Boxes/ **Components**

A.Y. McDonald Manufacturing Co.

Dubuque, IA 800-292-2737 • 563-583-7311 • Fax: 800-832-9296 sales@aymcdonald.com www.aymcdonald.com

Mueller Co.

Chattanooga, TN 800-423-1323 • 423-209-4800 • Fax: 423-209-4850 moreinfo@muellercompany.com www.muellercompany.com

Meters - Sewer/Flow

Endress+Hauser

Greenwood IN

888-363-7377 • 317-535-7138 • Fax: 317-535-8498 info@us.endress.com

www.us.endress.com

FloWay, Inc.

Hummelstown, PA 855-235-6928 • 717-580-0123 • Fax: 717-256-8489 sales@flowav.com www.floway.com

Greyline Instruments Inc.

Massena. NY

888-473-9546 • 315-788-9500 • Fax: 315-764-0419

info@greyline.com

www.greyline.com Ad on page 52

Hach Company - Flow Products & Services

Loveland, CO

800-368-2723 • 970-622-7120 • Fax: 970-619-5150

hachflowsales@hach.com www.hachflow.com

Ad on page 27

Parson Environmental Products, Inc.

Reading, PA

800-356-9023 • 610-582-6060 • Fax: 610-582-6064 info@parsonenvironmental.com

www.parsonenvironmental.com

Sierra Instruments, Inc.

Monterey, CA

800-866-0200 • 831-373-0200 • Fax: 831-373-4402

info@sierrainstruments.com www.sierrainstruments.com

Meters - Water/Flow

Blue-White

Blue-White Industries

Huntington Beach, CA

714-893-8529 • Fax: 714-894-9492

sales@blue-white.com

www.blue-white.com

Endress+Hauser

Greenwood, IN

888-363-7377 • 317-535-7138 • Fax: 317-535-8498

info@us.endress.com

www.us.endress.com

FloWay, Inc.

Hummelstown, PA

855-235-6928 • 717-580-0123 • Fax: 717-256-8489

sales@flowav.com

www.flowav.com

Grevline Instruments Inc.

888-473-9546 • 315-788-9500 • Fax: 315-764-0419

info@greyline.com www.greyline.com

Ad on page 52

Mueller SYSTEMS

Mueller Systems

Middleboro, MA

877-866-5945 • 508-946-9163 • Fax: 508-946-9168

customercare@muellersystems.com

www.muellersystems.com

Sierra Instruments. Inc.

Monterey, CA

800-866-0200 • 831-373-0200 • Fax: 831-373-4402

info@sierrainstruments.com

www.sierrainstruments.com

Singer Valve Inc.

Surrey, BC

Canada

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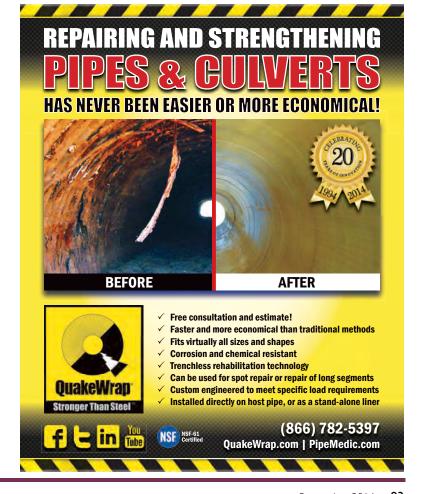




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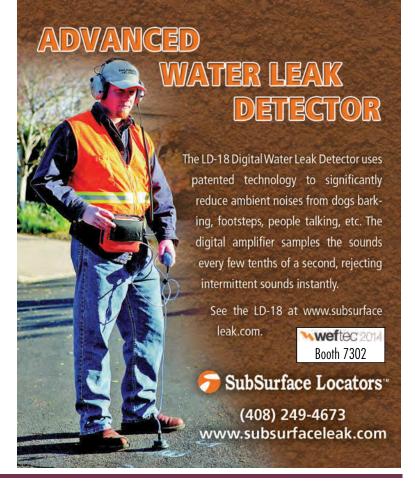
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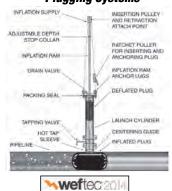


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Gorman-Rupp Company

Mansfield, OH 419-755-1011 ● Fax: 419-755-1251 grsales@gormanrupp.com www.GRpumps.com

Hammelmann Corp.

Miamisburg, OH 800-783-4935 ● 937-859-8777 ● Fax: 937-859-9188 mail@hammelmann.com www.hammelmann.com

Lee Supply Company

Ad on page 56

Charleroi, PA 800-353-3747 ● 724-483-3543 ● Fax: 724-483-0577 dcaruso@leesupply.com www.leesupply.com

Red Valve Co. / Tideflex Technologies

Carnegie, PA
412-279-0044 • Fax: 412-279-7878
valves@redvalve.com
www.redvalve.com
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Sewer Equipment Co. of Florida

New Smyrna Beach, FL 800-635-2323 • Fax: 386-427-4552 csewerequipment@cfl.rr.com www.sewerequipmentco.com Ad on page 116

Reinstatement Cutters

AMerik Engineering, LLC

Marietta, GA 770-924-2899 • Fax: 770-924-2301 amerik@bellsouth.net www.amerikengineering.com



Aries Industries, Inc.

Waukesha, WI
800-234-7205 • 262-896-7205 • Fax: 262-896-7099
sales@ariesindustries.com
www.ariesindustries.com
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CORE COBRADPTICAL ROBOTICS ENVIRONMENTAL

Cobra Technologies

Smyrna, GA 800-443-3761 • Fax: 770-435-0402 sales@cobratec.com www.cobratec.com Ad on page 49



CUES

Orlando, FL 800-327-7791 • 407-849-0190 • Fax: 407-425-1569 salesinfo@cuesinc.com

www.cuesinc.com Ad on page 15

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Enz USA, Inc. Aurora, IL

877-369-8721 • 630-692-7880 • Fax: 630-692-7885 sales@enzusainc.com

www.enzusainc.com

Ad on page 23 Flow-Liner Systems, Ltd.

Zanesville, OH 800-348-0020 ● 740-453-9387 ● Fax: 740-453-8622 info@flow-liner.com

www.flow-liner.com

Ad on page 12

LMK Technologies Ottawa, IL

Untowa, IL 815-433-1275 ● Fax: 815-433-0107 info@Imktechnologies.com www.lmktechnologies.com Ad on page 121



NozzTeq, Inc.

Clearwater, FL 866-620-5915 • 603-413-6583 • Fax: 603-413-6744 info@nozzteq.com www.nozzteq.com

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Perma-Liner Industries, LLC

Clearwater, FL 866-336-2568 • 727-507-9749 • Fax: 727-507-9849 info@perma-liner.com www.perma-liner.com

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Pipeline Renewal Technologies

Randolph, NJ 866-936-8476 • 973-252-6700 • Fax: 973-252-1176 mail@pipelinert.com www.pipelinert.com

RapidView IBAK North America

Rochester, IN 800-656-4225 • 574-224-5426 • Fax: 574-223-7953 info@rapidview.com www.rapidview.com

Ad on page 43 **SAERTEX-multiCom**

Huntersville, NC 317-464-9717 • Fax: 704-464-5922 m.hallett@saertex.com www.saertex-multicom.com

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TRELLEBORG

Trelleborg Pipe Seals Milford Inc.

Milford, NH 800-626-2180 • 603-673-8680 • Fax: 603-673-7271 milfordsales@trelleborg.com www.trelleborg.com/npc



TRY TEK Machine Works. Inc.

Jacobus, PA 717-428-1477 • Fax: 717-428-2865 trytek@trytek.com www.trytek.com

Rental Equipment

Bright Technologies

Hopkins, MI 800-253-0532 • 269-793-7183 • Fax: 269-793-4022 iulie@brightbeltpress.com www.brightbeltpress.com

Central Oklahoma Winnelson

Oklahoma City, OK 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 kriones@winnelson.com www.centralwinnelson.com

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CORE COBRADPTICAL ROBOTICS ENVIRONMENTAL

Cobra Technologies

Smyrna, GA 800-443-3761 • Fax: 770-435-0402 sales@cobratec.com www.cobratec.com Ad on page 49

Dynamic Repairs

Lodi, NJ 973-478-0893 • Fax: 973-478-0895 dynamiccablerepairs@yahoo.com www.dynamicrepairs.net

Ad on page 117 Hammelmann Corp.

Miamisburg, OH 800-783-4935 • 937-859-8777 • Fax: 937-859-9188 mail@hammelmann.com www.hammelmann.com

KOHLER Power Systems

Kohler, WI 800-544-2444 • 920-457-4441 • Fax: 920-459-1646 generator.feedback@kohler.com www.kohlerpower.com

McElroy Manufacturing, Inc.

Tulsa, OK 918-836-8611 www.mcelroy.com/fusion Ad on page 117

NeoLogic

SOLUTIONS

Neologic Solutions

Greer, SC 855-896-3525 • Fax: 866-409-9622 info@neologicsolutions.com www.neologicsolutions.com

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NozzTeq, Inc.

Clearwater. FL 866-620-5915 • 603-413-6583 • Fax: 603-413-6744 info@nozzteq.com www.nozzteg.com

Ad on page 120

Pipeline Renewal Technologies

Randolph, NJ 866-936-8476 • 973-252-6700 • Fax: 973-252-1176 mail@pipelinert.com www.pipelinert.com

Ratech Electronics, Ltd.

Concord, ON Canada 800-461-9200 • 905-660-7072 • Fax: 905-660-1519 sales@ratech-electronics.com www.ratech-electronics.com

SAERTEX-multiCom

Huntersville, NC 317-464-9717 • Fax: 704-464-5922 m.hallett@saertex.com www.sgertex-multicom.com Ad on page 67

Sewer Equipment

Dixon, IL 800-323-1604 • 815-835-5566 • Fax: 815-284-0452 sales@sewerequipment.com www.sewerequipment.com

Super Products LLC

New Berlin, WI 800-837-9711 • 262-784-7100 • Fax: 262-784-9561 info@superproductsllc.com www.superproductsllc.com Ad on page 13

United Rentals

Scottsdale, AZ 800-877-3687 www ur com

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USB - Sewer Equipment Corporation

USB - Sewer Equipment Corporation

Marietta, GA 866-408-2814 • 770-984-8880 • Fax: 770-984-2802 info@usbsec.com www.IJSBSFC.com Ad on page 91

Repair/Rebuilding **Equipment**

Dynamic Repairs

Lodi, NJ 973-478-0893 • Fax: 973-478-0895 dynamiccablerepairs@yahoo.com www.dvnamicrepairs.net Ad on page 117

Epoxytec, Inc.

Hollywood, FL 877-463-7699 • 954-961-4656 • Fax: 954-961-2395 drapanos@epoxytec.com www.epoxytec.com

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Fibergrate Composite Structures Inc.

800-527-4043 • 972-250-1633 • Fax: 972-250-1530 info@fibergrate.com www.fibergrate.com Ad on page 119

Image Inspection Services, Ltd.

Calgary, AB Canada 800-667-6670 • 403-287-1053 • Fax: 403-243-4564 sales@image-inspect.com www.image-inspect.com

LMK Technologies

Ottawa, IL 815-433-1275 • Fax: 815-433-0107 info@lmktechnologies.com www.lmktechnologies.com Ad on page 121

NozzTeg, Inc.

Clearwater, FL 866-620-5915 • 603-413-6583 • Fax: 603-413-6744 info@nozzteg.com www.nozzteq.com Ad on page 120

Terry Byrne, Inc.

Lexington, OH 419-525-1214 • Fax: 419-525-2386 tkb@byrnegroup.com www.theplughug.com

Vacuum Sales, Inc.

Lindenwold, NJ

800-547-7790 • 856-627-7790 • Fax: 856-627-3044 jredstreake@vacuumsalesinc.com

www.vacuumsalesinc.com

Repair/Rehabilitation - Water

Terry Byrne, Inc.

Lexinaton, OH 419-525-1214 • Fax: 419-525-2386 tkb@byrnegroup.com www.theplughug.com

Rodding Machines

Advanced Infrastructure Technologies, LLC

Torrance, CA 800-992-0222 • 310-534-4000 • Fax: 310-534-4020 ip@advancedworld.com www.advancedworld.com

Central Oklahoma Winnelson

Oklahoma City, OK 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 kriones@winnelson.com www.centralwinnelson.com

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General Pipe Cleaners McKees Rocks, PA 800-245-6200 • 412-771-6300 info@drainbrain.com www.drainbrain.com

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Jameson, LLC Clover, SC 800-346-1956 • Fax: 803-222-6400 sales@iamesoncorp.com www.iamesonllc.com

MTech

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Cleveland, OH 800-362-0240 • 440-646-0996 • Fax: 440-646-9953 sales@mtechcompany.com www.mtechcompany.com Ad on page 118

Sewer Equipment

Dixon, IL 800-323-1604 • 815-835-5566 • Fax: 815-284-0452 sales@sewerequipment.com www.sewerequipment.com

Sewer Equipment Co. of Florida

New Smyrna Beach, FL 800-635-2323 • Fax: 386-427-4552 csewerequipment@cfl.rr.com www.sewerequipmentco.com Ad on page 116

Shamrock Pipe Tools, Inc.

Baton Rouge, LA 800-633-7696 • 225-275-7696 • Fax: 800-777-0660 dhradford@shamrocktools.com www.shamrocktools.com Ad on page 117

Southland Tool Mfg. Inc.

Anaheim, CA 714-632-8198 • Fax: 714-632-8228 sales@southlandtool.com www.southlandtool.com Ad on page 21

Root Control -Chemical

Central Oklahoma Winnelson

Oklahoma City, OK 888-947-8761 • 405-947-8761 • Fax: 405-947-1934 kriones@winnelson.com www.centralwinnelson.com



Duke's Root Control, Inc.

Syracuse, NY 800-447-6687 • 315-472-4781 • Fax: 315-475-4203 lvnn@dukes.com

www.dukes.com Ad on page 11

InfoSense, Inc.

Charlotte, NC 877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com

www.infosenseinc.com Ad on page 95



RootX

Salem, OR 800-844-4974 • 503-364-2999 • Fax: 503-485-5229 rootx@rootx.com www.rootx.com Ad on page 111



Vaporooter

Liberty, MO 800-841-1444 • 816-781-4250 • Fax: 816-781-1043 heather.wallace@vaporooter.com www.vaporooter.com Ad on page 29

Root Control -**Mechanical**

Advanced Infrastructure Technologies, LLC

Torrance, CA 800-992-0222 • 310-534-4000 • Fax: 310-534-4020 in@advancedworld.com www.advancedworld.com

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Arthur Products Co.

Medina, OH 800-322-0510 • 330-725-4905 • Fax: 330-722-2698 apcl@apclsq.com www.arthurproducts.com

Chempure Products Corp.

Bolivar. OH 800-288-7873 • 330-874-4300 • Fax: 330-874-4448 chempure@amail.com www.rootrat.net

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Enz USA, Inc.

Aurora, IL 877-369-8721 • 630-692-7880 • Fax: 630-692-7885 sales@enzusainc.com www.enzusainc.com

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InfoSense, Inc.

Charlotte, NC 877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com www.infosenseinc.com

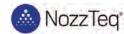
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KEG Technologies, Inc.

Spartanburg, SC 866-595-0515 • 864-804-6637 • Fax: 866-595-0517 sales@kegtechnologies.net www.kegtechnologies.net

Logiball, Inc.

Quebec, QC 800-246-5988 • 418-656-9767 • Fax: 418-653-5746 info@logiball.com www.logiball.com



NozzTeg, Inc.

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Clearwater, FL 866-620-5915 • 603-413-6583 • Fax: 603-413-6744 info@nozzteq.com www.nozzteq.com

Sewer Equipment Co. of Florida

New Smyrna Beach, FL 800-635-2323 • Fax: 386-427-4552 csewerequipment@cfl.rr.com www.sewerequipmentco.com

Shamrock Pipe Tools, Inc.

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Baton Rouge, LA 800-633-7696 • 225-275-7696 • Fax: 800-777-0660 dbradford@shamrocktools.com www.shamrocktools.com

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Southland Tool Mfg. Inc. Anaheim, CA 714-632-8198 • Fax: 714-632-8228 sales@southlandtool.com www.southlandtool.com



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USB - Sewer Equipment Corporation

USB - Sewer Equipment Corporation

866-408-2814 • 770-984-8880 • Fax: 770-984-2802 info@usbsec.com www.USBSEC.com Ad on page 91

Safety Equipment/ **Personal Protection Products**

3T Equipment Company Inc.

Santa Rosa, CA 800-969-3001 • 707-543-8555 • Fax: 707-543-8558 tttequip@yahoo.com www.3tequipco.com Ad on page 114

Fibergrate Composite Structures Inc.

800-527-4043 • 972-250-1633 • Fax: 972-250-1530 info@fiberarate.com www.fibergrate.com Ad on page 119

Grace Industries, Inc.

Fredonia, PA 724-962-9237 • Fax: 724-962-3611 sales@araceindustries.com www.graceindustries.com

Halliday Products, Inc.

Orlando, FL 800-298-1027 • Fax: 407-298-4534 armond@hallidayproducts.com www.hallidavproducts.com Ad on page 47

HEMCO Corporation

Independence, MO 800-779-4362 • 816-796-2900 info@hemcocorp.com www.hemcocorp.com Ad on page 116

Hurco Technologies, Inc.

Harrisburg, SD 800-888-1436 • 605-743-2466 • Fax: 605-743-2465 info@gethurco.com

www.gethurco.com

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ICS, Blount Inc.

Portland OR 800-321-1240 • 503-653-4380 • Fax: 503-653-4393 marketing@icsdiamondtools.com www.icsdiamondtools.com

LockDown Inc.

Convers, GA 866-399-2512 • 678-750-0466 • Fax: 770-483-5702 secure@lockdowninc.com www.lockdowninc.com Ad on page 116

RKI Instruments, Inc.

Union City, CA 800-754-5165 • 510-441-5656 • Fax: 510-441-5650 orders@rkiinstruments.com www.rkiinstruments.com

Sewer Equipment Co. of Florida

New Smyrna Beach, FL 800-635-2323 • Fax: 386-427-4552 csewerequipment@cfl.rr.com www.sewerequipmentco.com

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Sonetics Corporation Portland, OR 800-833-4558 • 503-684-7080 • Fax: 503-620-2943 sales@soneticscorp.com www.soneticscorp.com

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Southland Tool Mfg. Inc.

Anaheim, CA 714-632-8198 • Fax: 714-632-8228 sales@southlandtool.com www.southlandtool.com Ad on page 21

Sto-Away Power Cranes, Inc.

Crown Point. IN 800-622-9797 • 219-942-9797 • Fax: 219-947-2503 stoaway@comcast.net www.stoaway.com Ad on page 114

United Rentals

Scottsdale A7 800-877-3687 www.ur.com Ad on page 7

Vaporooter

Liberty, MO 800-841-1444 • 816-781-4250 • Fax: 816-781-1043 heather.wallace@vaporooter.com www.vaporooter.com Ad on page 29

Sanitary Sewer Collection System

Advanced Infrastructure Technologies, LLC

Torrance, CA 800-992-0222 • 310-534-4000 • Fax: 310-534-4020 in@advancedworld.com www.advancedworld.com

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Avanti International

Webster, TX 800-877-2570 • 281-486-5600 • Fax: 281-486-7300 sales@avantigrout.com www.avantigrout.com

Cretex Specialty Products

Waukesha, WI 800-345-3764 • 262-542-8153 • Fax: 262-542-0301 info@cretexseals.com

www.cretexseals.com Ad on page 32

Epoxytec, Inc. Hollywood, FL

877-463-7699 • 954-961-4656 • Fax: 954-961-2395 drapanos@epoxytec.com

www.epoxytec.com Ad on page 36

Hach Company - Flow Products & Services

Loveland, CO 800-368-2723 • 970-622-7120 • Fax: 970-619-5150 hachflowsales@hach.com

www.hachflow.com

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InfoSense, Inc.

Charlotte, NC

877-747-3245 • 336-302-0164 • Fax: 704-930-0145 sales@infosenseinc.com

www.infosenseinc.com

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LMK Technologies

Ottawa, IL 815-433-1275 • Fax: 815-433-0107 info@lmktechnologies.com www.lmktechnologies.com

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Mr. Manhole

Delphos, OH 419-741-9075 • Fax: 419-692-1600

sales@mrmanhole.com www.mrmanhole.com

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RELINER/Duran Inc.

Ivme (T 800-508-6001 • 860-434-0277 • Fax: 860-434-3195 duran@reliner.com www.reliner.com

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Wachs Water Services

Buffalo Grove, IL 800-525-5821 • 224-357-2606 • Fax: 847-415-2196 Irichardson@wachsws.com www.wachsws.com

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SCADA Systems

Data Flow Systems, Inc.

Melbourne, FL 321-259-5009 • Fax: 321-259-4006 tomh@dataflowsvs.com www.dataflowsys.com Ad on page 56

Screens - Wastewater



Aqualitec Screening Equipment

Los Angeles, CA 855-650-2214 info@aqualitec.com www.aqualitec.com

Fibergrate Composite Structures Inc.

Dallas, TX 800-527-4043 • 972-250-1633 • Fax: 972-250-1530 info@fibergrate.com www.fibergrate.com

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Smith & Loveless, Inc.

Lenexa, KS 800-898-9122 • 913-888-5201 • Fax: 913-888-2173 answers@smithandloveless.com www.smithandloveless.com

Security Equipment/ Systems

LockDown Inc.

Convers GA 866-399-2512 • 678-750-0466 • Fax: 770-483-5702 secure@lockdowninc.com www.lockdowninc.com

McGard LLC

Orchard Park, NY 888-888-9192 • 716-662-8980 • Fax: 716-662-8985 rglass@mcgard.com www.manholelocks.com Ad on page 73

Septic Tank Concrete

RFI Construction Products

Farmingdale, NY 631-752-8899 • Fax: 631-454-9155 cangrosales@ix.netcom.com www.rficonstructionproducts.com Ad on page 117

Service Company

Dynamic Repairs

Lodi, NJ 973-478-0893 • Fax: 973-478-0895 dynamiccablerepairs@yahoo.com www.dynamicrepairs.net Ad on page 117

Electro Scan Inc.

Sacramento, CA 800-975-6149 • 916-779-0660 • Fax: 916-779-0661 info@electroscan.com www.electroscan.com Ad on page 35

JPCI Services

Mesa, AZ 480-986-1212 • Fax: 480-380-4461 info@jpciservices.com www.jpciservices.com

Mueller Co.

Chattanooga TN 800-423-1323 • 423-209-4800 • Fax: 423-209-4850 moreinfo@muellercompany.com www.muellercompany.com

Wachs Water Services

Buffalo Grove, IL 800-525-5821 • 224-357-2606 • Fax: 847-415-2196 Irichardson@wachsws.com www.wachsws.com Ad on page 116

Shoring Equipment





American Shoring, Inc.

Newburgh, NY 800-407-4674 • 845-562-4477 • Fax: 800-361-1973 ajhull@americanshoring.com www.americanshoring.com Ad on page 113

Efficiency Production, Inc.

Mason, MI 800-552-8800 • 517-676-8800 • Fax: 517-676-0373 jmcray@efficiencyproduction.com www.efficiencyproduction.com Ad on page 93

Safety Corporation of America

Pittsburgh, PA 800-746-7464 • 412-331-8118 • Fax: 412-331-8778 scapaytas@aol.com www.shoring.com Ad on page 36

Signs/Labels/Tags

Uticom Systems, Inc.

Coatesville, PA 800-548-5321 • 610-857-2655 • Fax: 610-857-2986 araphics@uticom.net www.uticom.net

Sludge - Treatment



BDP Industries. Inc.

Ad on page 118

Greenwich, NY 518-527-5417 • Fax: 518-695-5417 kelly@bdpindustries.com www.bdpindustries.com

Bionetix International

Ste-Anne-de-Bellevue, QC Canada 514-457-2914 • Fax: 514-457-3589 info@bionetix.ca www.bionetix-international.com

Brentwood Industries

Reading, PA

610-374-5109 • Fax: 610-376-6022 water@brentwoodindustries.com www.brentwoodindustries.com Ad on page 20

Bright Technologies

Hopkins, MI 800-253-0532 • 269-793-7183 • Fax: 269-793-4022 julie@brightbeltpress.com www.brightbeltpress.com

Fluid Technology, Inc.

Oxford OH 888-844-7824 • 513-241-1600 • Fax: 513-756-1995 tfrank@fluidtechinc.net www.fluidtechinc.com

Komline-Sanderson

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Peanack, NJ 800-225-5457 • 908-234-1000 • Fax: 908-234-9487 info@komline.com www.komline.com Ad on page 71

Red Valve Co. / Tideflex Technologies

Carnegie, PA

412-279-0044 • Fax: 412-279-7878

valves@redvalve.com

www.redvalve.com

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Smith & Loveless, Inc.

Lenexa, KS

800-898-9122 • 913-888-5201 • Fax: 913-888-2173

answers@smithandloveless.com

www.smithandloveless.com

Sonar Profiling



Cobra Technologies

Smyrna, GA

800-443-3761 • Fax: 770-435-0402

sales@cohratec.com

www.cobratec.com

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CUES

Orlando, FL

800-327-7791 • 407-849-0190 • Fax: 407-425-1569 salesinfo@cuesinc.com

www.cuesinc.com

Ad on page 15

RS Technical Services, Inc.

Petaluma, CA

800-767-1974 • 707-778-1974 • Fax: 707-778-1981

sales.info@rstechserv.com

www.rstechserv.com

Ad on page 61

Storage Tanks



Eldred Environmental & Export Co. LTD

800-613-3640 • 309-787-3640 • Fax: 309-787-3635

info@fol-da-tank.com

www.eldredenvironmental.com

Epoxytec, Inc.

Hollywood, FL

877-463-7699 • 954-961-4656 • Fax: 954-961-2395

drapanos@epoxytec.com

www.epoxytec.com

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Grace Industries, Inc.

Fredonia, PA

724-962-9237 • Fax: 724-962-3611

sales@graceindustries.com

www.graceindustries.com

Premier Oilfield Equipment

Fort Morgan, CO

970-542-1975 • Fax: 970-542-1977

sales@poequip.com

www.poequip.com

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Red Valve Co. / Tideflex Technologies

Carnegie, PA

412-279-0044 • Fax: 412-279-7878

valves@redvalve.com

www.redvalve.com

Ad on page 31

Utility Service Group

Atlanta, GA

855-526-4413 • 678-235-0280 • Fax: 888-600-5876

help@utilityservice.com

www.utilityservice.com

Stormwater Collection Systems

Advanced Aquatic Products

International, Inc.

Cutler Bay, FL

800-738-7646 • 305-388-7195 • Fax: 305-388-7196

advaauaticprods@aol.com

www.hydro-cartridge.com

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Advanced Drainage Systems, Inc.

800-821-6710 • 614-658-0216 • Fax: 614-658-0204

info@ads-pipe.com

www.ads-pipe.com



Avanti International

Webster, TX

800-877-2570 • 281-486-5600 • Fax: 281-486-7300

sales@avantigrout.com www.avantigrout.com

Best Management Products, Inc.

Lvme, CT

800-504-8008 • 410-687-6256 • Fax: 860-434-3195

tim@bmpinc.com

www.bmpinc.com

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Brentwood Industries

Reading, PA

610-374-5109 • Fax: 610-376-6022

water@brentwoodindustries.com

www.brentwoodindustries.com

Ad on page 20

Cretex Specialty Products

Waukesha, WI

800-345-3764 • 262-542-8153 • Fax: 262-542-0301

info@cretexseals.com

www.cretexseals.com

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Enz USA, Inc.

Aurora, IL

877-369-8721 • 630-692-7880 • Fax: 630-692-7885

sales@enzusainc.com

www.enzusainc.com

Ad on page 23 Epoxytec, Inc.

Hollywood, FL

877-463-7699 • 954-961-4656 • Fax: 954-961-2395

drapanos@epoxytec.com

www.epoxytec.com

Ad on page 36

Hach Company - Flow Products & Services

Loveland, CO

800-368-2723 • 970-622-7120 • Fax: 970-619-5150

hachflowsales@hach.com

www.hachflow.com

Ad on page 27

Linabond, Inc.

Camarillo, CA

805-484-7373 info@linabond.com

www.linabond.com

Mr. Manhole

Delphos, OH

419-741-9075 • Fax: 419-692-1600

sales@mrmanhole.com

www.mrmanhole.com

Ad on page 117

Quadex/Interfit North Little Rock, AR

501-758-8628

info@quadexonline.com

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Carnegie, PA

412-279-0044 • Fax: 412-279-7878

valves@redvalve.com

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Advanced Aquatic Products

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info@ads-pipe.com

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Lvme, CT 800-504-8008 • 410-687-6256 • Fax: 860-434-3195

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water@brentwoodindustries.com www.brentwoodindustries.com

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501-758-8628

info@quadexonline.com www.quadexonline.com

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hayley.mack@vueworks.com

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Zanesville, OH 800-348-0020 • 740-453-9387 • Fax: 740-453-8622 info@flow-liner.com www.flow-liner.com

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Clearwater. FL

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Product Spotlight

Self-contained hot-water diesel pressure washer both powerful and portable

By Ed Wodalski

he model 18L34 hot-water diesel pressure washer from Water Cannon is both powerful and portable. Featuring a Kohler KD 420ES electric start 10 hp engine with 12-volt self-contained charging system, the washer can thaw frozen water lines and clean sewer lines or sediment ponds.

Other features include stainless steel coil housing and Schedule 80 coil with one-piece molded insulation combustion chamber. The 12-volt DC oilfired burner creates a 118-degree F temperature rise.

"If the incoming water temperature is 60 degrees, you'll get about 180 coming out," says Mark Williams, sales and product manager for Water Cannon. "You can jet lines with it. We have units in the north - Minnesota, South Dakota, North Dakota - all the way out to Alaska that are used for deicing lines."

The pressure washer has an EZ Series General triplex ceramic plunger



pump that delivers 4 gpm and 3,200 psi (Cat 66DX series pump available). Accessories include 50-foot hose, trigger gun, wand, chemical injector, five quick-connect nozzles, 9-gallon diesel tank and a four-wheel, powder-coated push-bar frame with 13-inch, no-flat, foam-filled tires.

"It's portable yet still powerful enough to work out in the field," Wil-

Safety features include high-temperature protection, a pressure-relief valve, and a thermo-sensor that prevents overheating in bypass mode.

"It's a complete machine that's made for industrial use and ready to go. You don't have to worry about plugging it in. It's all self-contained. All you add is water," he says. "You can feed it off a garden hose or off a 300- to 500-gallon water tank." 800/333-9274; www.watercannon.com.

HammerHead seam-free textile liner



The Brawoliner seam-free textile liner from HammerHead Trenchless Equipment features a loop design for flexibility. The liner can adjust to bends up to 90 degrees and to single changes in pipe dimensions without creating wrinkles or folds. Available for pipe from 2 to 10 inches in diameter, the liner

consists of a lengthwise and transversal elastic polyethylene terephthalate textile tube coated with polyurethane foil. Wall thickness uncured is 0.16 inches. Nominal wall thickness impregnated and cured is 0.12 inches (3 mm). 800/331-6653; www.hammerheadtrenchless.com.

Spire solar-powered meter

The Enduro Series EF12 solar-powered ultrasonic flowmeter from Spire Metering Technology is designed where electrical power is not available. All components, except transducers, are housed in a weather-proof enclosure. The flowmeter has a flash memory stick that can save the last 512 daily net flow values and the last 128 monthly net flow values. Features include a solar panel rated at 20 watts, a built-in rechargeable battery and a charging circuit that's able to maintain seven days of operation without sun. 888/738-0188; www.spiremt.com.



RIDGID camera reel, digital recording monitor



The SeeSnake CS6Pak digital recording monitor with Compact2 camera reel from RIDGID has a 100-foot, friction-reducing push cable for small or restricted lines from 1.5 to 6 inches. Designed for residential or commercial work, the monitor records photos and video to a USB drive. Features include one-touch recording, daylightviewable display and water-resistant keyboard. 800/769-7743; www.ridgid.com.

General Pipe Cleaners Metro root cutter

The Metro power drain cleaner from General Pipe Cleaners is designed to remove roots and other stoppages in 3- through 6-inch lines. The drain cleaner can handle up to 75 feet of 5/8-inch Flexicore wire rope center cable or 100 feet of 9/16-inch cable for smaller jobs. Features include fold-down handle, stair climbers, truck loading wheel and 10-inch wheels. The variable-speed auto feed moves and retracts cable at up to 20 feet per minute. 800/245-6200; www.drainbrain.com.



Vacall vacuum boom tube, hose options

Vacuum boom tube and hose design options for Vacall AllExcavate hydroexcavation models from Gradall Industries generate up to 27 inches (continued)



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Hg and up to 5,800 cfm. A full-length rubber hose with gum-rubber lining runs from the turret mounted on the debris tank to the pickup point. A steel tube-in-tube boom and intake connects to an identical rubber hose elbow that leads to the pickup point and allows for wear rotation and replacement at the 90-degree elbow. 800/382-8302; www.vacallindustries.com.



Val-Matic American-BFV butterfly valves



American-BFV butterfly valves from Val-Matic Valve & Manufacturing Corp. are designed to provide long life, low headloss and trouble-free performance. Features include epoxy interior, uninterrupted seating and Tri-Loc seat retention system for field adjustment/replacement without special tools or epoxies. The valves are available in 150B and 250B AWWA classes with flanged end connections in sizes 3 to 144 inches and mechanical joint end connections in 4 to 48

inches. Wafer-style butterfly valves are designed with ANSI 125 flanges or ISO PN10 and PN16 flanges in sizes 4 to 24 inches. 630/941-7600; www.valmatic.com.

Gateway Safety lens cleaner

Kleen View lens cleaning products from Gateway Safety feature a fast-drying, silicone-free formula that includes an anti-fog, antistatic ingredient that helps extend the life of safety glasses. The cleaner is available as a spray packaged with nonabrasive tissues or as single-use towelettes. 800/822-5347; www.gatewaysafety.com.



Aquatherm PEX compression adapter



The PEX compression adapter from Aquatherm is made of polypropylene-random and lead-free brass. The adapter enables installers to transition between Aquatherm and PEX pipe in potable water and radiant systems. Manufactured to ASTM F1960, the adapter is available in 1/2-, 3/4- and 1-inch diameters. 801/805-6657; www.aquatherm.

StoneAge hands-free hose handling system

The AutoBox ABX-500 hands-free hose handling system from StoneAge is designed to provide a safer and more efficient alternative to manual feeding of high-pressure hose for industrial pipe cleaning. The 90-pound system can be used with any of StoneAge's rotary pipe cleaning tools. Safely operated from outside the blast zone by a single operator, the portable, air-powered



system can drive hose sizes and pass couplings up to 1.75 inches O.D. 866/795-1586; www.stoneagetools.com.

Endress+Hauser level transmitter



The Deltabar FMD71 dP level transmitter from Endress+Hauser measures differential pressure without impulse lines and capillary tubes. The transmitter features two pressure sensor modules, each connected electronically to a single transmitter. Using a Ceraphire ceramic sensor in the pressure sensor modules, the transmitter calculates the differential pressure from both sensors and transmits the level, volume or mass via 4-20 mA with HART as a standard two-wire looppowered device. One sensor module measures the

hydrostatic pressure (HP) and the other measures the head pressure (LP). 888/363-7377; www.us.endress.com.

Hayward Flow Control butterfly valve

The BYV Series butterfly valve from Hayward Flow Control is available in multiple thermoplastic materials from 2 through 12 inches. The hand

level features a 72-spline interlock for stopping positions every 5 degrees. Available in ANSI 150and DIN/EN PN10 flange patterns, the valve has a pressure rating of 150 psi at 70 degrees F. Options include 316 stainless steel lugs, gear operators, pneumatic or electric actuators, manual limit switches, stem extensions, 2-inch-square operating nut and chain operator for gear boxes. 888/429-4635; www.haywardflowcontrol.com.



Blue-White in-line flowmeter



The Sonic-Pro S4 in-line ultrasonic flowmeter from Blue-White Industries has no moving parts or internal liners to wear out. In-line pipe fittings facilitate meter installation. The meter is capable of measuring water flow using the Transit Time method. A lowpower mode permits battery operation for limited functions. Optional data communi-

cation protocols include Industrial Ethernet, Modbus RTU, Modbus TCP, PROFIBUS TPV1 and PROFINET. 714/893-8529; www.blue-white.com.

Makita interactive content app

The interactive mobile content app from Makita U.S.A. features product information, dealer locator, warranty information, promotions, new technologies, savings calculator and QR scanner. The app is available at the Apple App Store and Google Play Store. 800/462-5482; www.makitausa.com. ♦

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Teledyne Tekmar hires account representative

Teledyne Tekmar hired Robin Sutka as account representative for the company's TOC, VOC and SVOC product lines in Wisconsin, Minnesota and northern Illinois.

Ditch Witch recognizes top electronics dealer



Members of the Ditch Witch of Oklahoma & Arkansas team include (from left) Chris Jones, Dru Bridwell, Grant Golay, Tiffany Sewell-Howard, Gary Bridwell, Mark Whiteman, Mark Taylor and John Truett.

Ditch Witch recognized Ditch Witch of Oklahoma & Arkansas with its Top Electronics Dealer Xcellence Award. The award recognizes dealers for sales volume and customer service.



NexTrag named American Business Awards finalist

NexTraq, a GPS fleet and asset tracking company, was named a finalist for the 2014 American Business Awards in the Most Innovative Tech Company of the Year category.

Wastequip opens manufacturing facility

Wastequip opened a manufacturing facility in Blacksburg, S.C. The plant will produce front-load and roll-off containers, as well as grease containers and specialty products.

Aclara Technologies names CEO, president

Aclara Technologies named Allan Connolly chief executive officer and president. He will be responsible for growing the advanced metering infrastructure and smart grid brand.

Flowtite adds sales managers

Flowtite Pipe, manufactured by Thompson Pipe Group, named Andrew Boer sales manager for the Midwest and Joe Pettet sales manager for the Gulf States Region.

Hyundai Construction Equipment names Kentucky dealer

Hyundai Construction Equipment named Team Boone to its dealer network, providing sales and service in Bardstown, Ky.

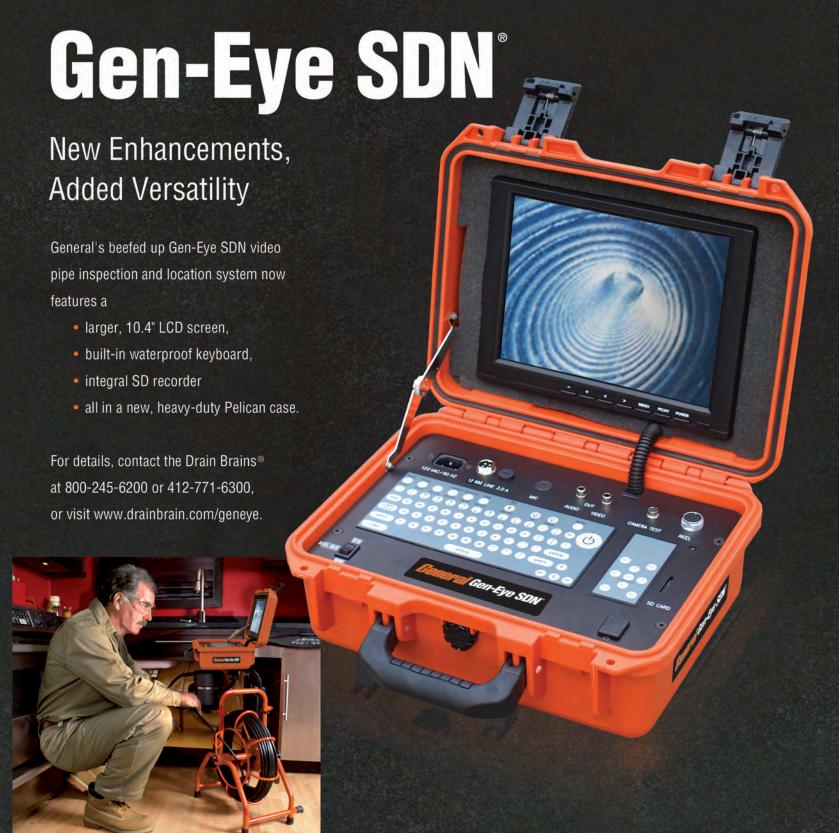
F.W. Webb expands into Pennsylvania



F.W. Webb Co., wholesale supplier of plumbing, heating, HVAC, refrigeration and industrial pipe, valves and fittings, opened a branch in Allentown, Pa. The company now has locations in nine states. \blacklozenge



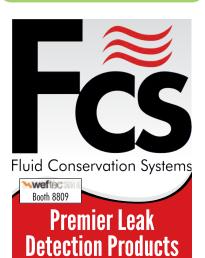
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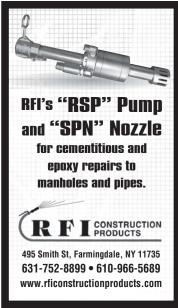
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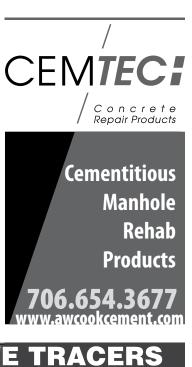






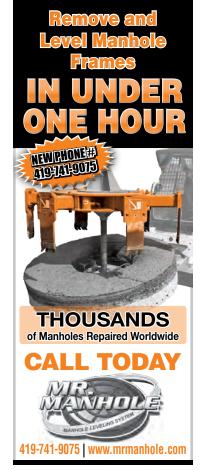










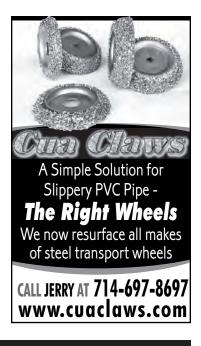


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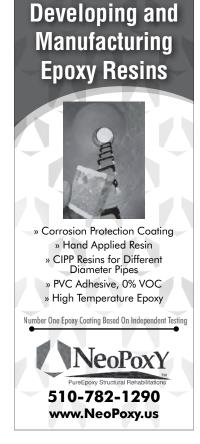








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WORTH NOTING

PEOPLE/AWARDS

Jamie Jones was hired as an environmental engineer by Envirotech Environmental Consulting Inc. (Milton, Del.), which specializes in comprehensive environmental management services, stormwater management and water-quality management.

Cardone Industries (Philadelphia) received the Watershed Corporate Steward Award from the Tookany/Tacony-Frankford Watershed Partnership for a stormwater management and mitigation solution implemented at Cardone's 60-acre headquarters.

The LeTort Spring Run Sustainable Stormwater Pilot Project (Cumberland County) received the 2014 Excellence in Intergovernmental Cooperation Award from the Pennsylvania Association of Township Supervisors.

John Donahue, chief executive officer of North Park (Ill.) Water District, began his tenure as president of the American Water Works Association on June 12.

LEARNING OPPORTUNITIES

American Society of Civil Engineers

The ASCE is offering the following courses:

- Sept. 18-19 Project Management, Arlington, Va.
- Sept. 25-26 Financial Management for the Professional Engineer,
- Sept. 25-26 Pumping Systems Design for Civil Engineers, Rapid City, S.D.
- Sept. 25 The Ethics of Leadership, online Visit www.asce.org.

Wisconsin

The University of Wisconsin Department of Engineering-Professional Development is offering the following course: Using WinSLAMM v. 10.0.1: Meeting Urban Stormwater Management Goals, on Oct. 20-21 in Madison. Visit http://epdweb.engr.wisc.edu.

The Wisconsin Department of Natural Resources is offering the following courses:

- Sept. 16 Confined-Space Entry, Wauwatosa
- Sept. 17 Permit-Required Confined-Space Entry, Plover
- Oct. 27-31 Cross Connection Control and Backflow Prevention, Madison
- Dec. 9 General Safety, Plover

Visit http://dnr.wi.gov. ♦

CALENDAR

Oct. 6-8

National Rural Water Association WaterPro Conference, Sheraton Seattle, Seattle. Visit www.waterproconference.org.

WITA-IMCA Expo, Ernest N. Morial Convention Center, New Orleans; www.wjta.org.

American Water Resources Association Annual Conference, Sheraton Premier Hotel, Tysons Corner, Va. Call 540/687-8390 or visit www.awra.org.

International Conference on Sustainable Infrastructure 2014, Renaissance Long Beach Hotel, Long Beach, Calif. Call 800/548-2723 or visit www.asce.org.

Municipal Sewer & Water invites your national, state or local association to post notices and news items in this column. Send contributions to editor@mswmag.com.











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I)	Distance (feet) (meters)	D-f	Code	Continuous Defect		Valu	ıe			Circumferential Location			
			Group Descriptor		S/M/L	Inch	(mm)	%	Joint	At/	То	Img Ref	Remarks
	, ,,		Modifier			Ist	2nd			From			
	179.3		GRT			٨			-				
	179.3		FC						J	07	05		
	179.3		FL							12			

The right descriptor for this fracture is circumferential (FC) because it runs parallel to the pipe joints.

2)	Distance	(feet) Video	Code	c ::		Val	ue			Circumf Loca		Img Ref	Remarks
	(feet) (meters)		Group Descriptor	Continuous Defect	S/M/L	Inch	(mm)	%	Joint	At/ From	То		
	67.4		FL						J	12			
	67.4		SAM						J	02	07		
	67.4		FC						J	12	12		

The right descriptor for this fracture is longitudinal (FL) because it runs parallel to the centerline of the pipe. A potential FH2, FH3, or FH4 may be happening at this location; a closer inspection with camera's pan and tilt capabilities may be needed.

3)	Distance		Code	Code		Valu	ıe			Circumferential Location			
,	Oistance (feet) (meters) Video Ref	Ref	Group Descriptor Modifier	Continuous Defect	S/M/L		(mm)	%	Joint	At/ From	То	Img Ref	Remarks
	5.0		ОВІ					5		04	08		5.0
	5.0		HVV							02	09		5.0
	5.0		ISGT					5		02	09		5.0

The CCTV camera points to an obstacle intruding through the wall of the pipe (OBI). The obstacle seems to be a PVC pipeline installed using HDD, which created holes at both sides of the sewer. Soil migration has taken place, thus HVV code is also recorded.

4)	Distance	Video	Code	Continuous Defect		Val	ue			Circumferential Location			
	(feet) (meters)		Group Descriptor		S/M/L	Inch	(mm)	%	Joint	At/	То	Img Ref	Remarks
	(inecers)		Modifier		3/11/L	lst	2nd	ę		From	10		
	188.6		DB							02	10		
	188.6		ΧP					20					
	188.6		D					20					

The pipe's cross section has been noticeably altered but it is still less than 40 percent of the original pipe height/diameter; therefore this condition is still coded as deformed (D).



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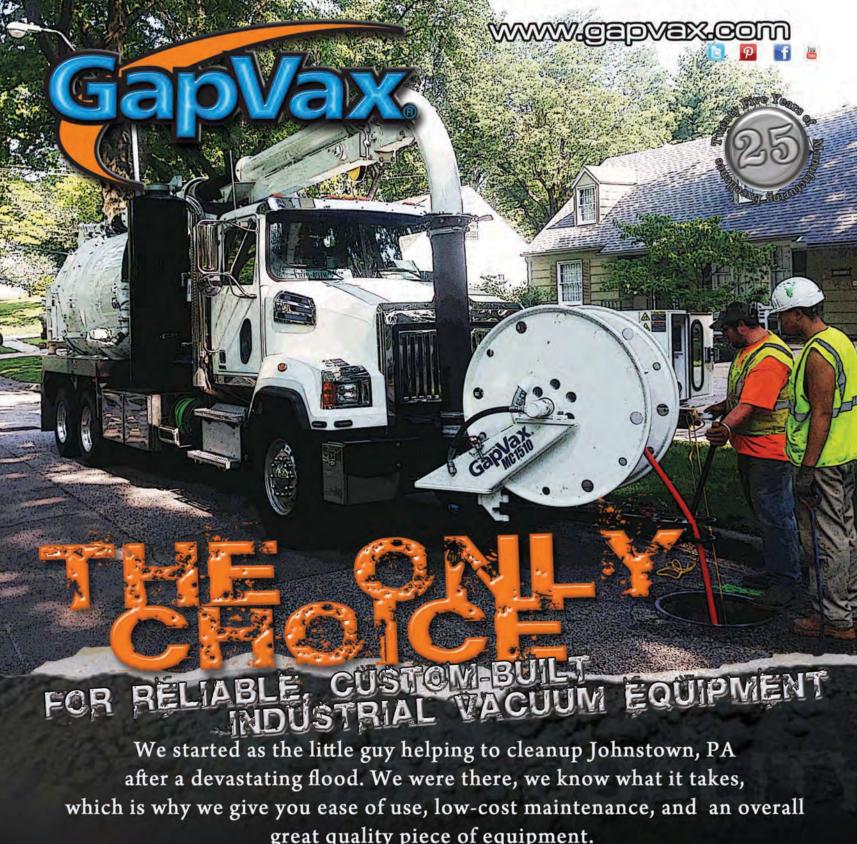












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